

From: Stephen Meer, P.E. <smeer@thesigmagroup.com>
Sent: Monday, October 21, 2019 12:35 PM
To: Ryan, Nancy D - DNR
Cc: Kristin Kurzka, P.E.
Subject: RE: MPS site lab data?
Attachments: 2019.10.08 Sub slab vapor sampling locations.pdf; 10495129_frc.pdf

Good afternoon, Nancy:

Sub-slab vapor sample results (and another copy of the sampling location map) are attached. Based on a quick once-over it does not appear that any VRSL exceedances were detected. Highest reported concentration of TCE was 58.8 ug/m3 (residential VRSL of 70 ug/m3) in sample VP-8. We'll tabulate with current VRSLs.

Please let us know your thoughts on the need for any additional sampling or if we can proceed with preparing the summary report.

Stephen R. Meer, P.E.
Senior Engineer
The Sigma Group, Inc.
414-643-4124 (direct)
414-588-8910 (mobile)
1300 W. Canal Street, Milwaukee, WI 53233
www.thesigmagroup.com | smeer@thesigmagroup.com



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From: Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov>
Sent: Monday, October 21, 2019 7:30 AM
To: Stephen Meer, P.E. <smeer@thesigmagroup.com>
Subject: RE: MPS site lab data?

Thanks for checking.

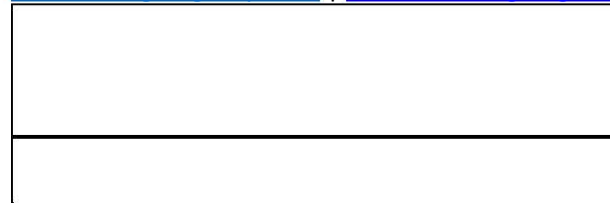
From: Stephen Meer, P.E. <smeer@thesigmagroup.com>
Sent: Friday, October 18, 2019 1:53 PM
To: Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov>

Cc: Kristin Kurzka, P.E. <kkurzka@thesigmagroup.com>
Subject: RE: MPS site lab data?

Hi, Nancy,

I checked with the lab regarding the sub-slab results and they are running a little behind, we should have the results on Monday next week.

Stephen R. Meer, P.E.
Senior Engineer
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From: Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov>
Sent: Monday, October 14, 2019 10:47 AM
To: Stephen Meer, P.E. <smeer@thesigmagroup.com>
Subject: RE: MPS site lab data?

Awesome. Thanks.

From: Stephen Meer, P.E. <smeer@thesigmagroup.com>
Sent: Monday, October 14, 2019 10:24 AM
To: Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov>
Subject: RE: MPS site lab data?

Nancy,

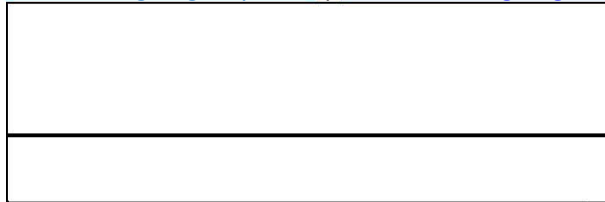
Lab report for indoor air attached. Quick review indicates no VAL exceedances with the exception of 2-Propanol (Isopropyl Alcohol) which makes sense given the current building use. We had a TCE J flagged detection in one sample and some low level PVOCs show up in IA-7, but not above VALs.

I'm guessing the delay in results was due to the required dilution for Ethanol/2-Propanol on a couple of the samples.

We can tabulate and send an summary table.

We should have the sub-slab data back by end of the day Thursday unless they have to run dilutions.

Stephen R. Meer, P.E.
Senior Engineer
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From: Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov>
Sent: Monday, October 14, 2019 9:14 AM
To: Stephen Meer, P.E. <smeer@thesigmagroup.com>
Subject: RE: MPS site lab data?

thanks

From: Stephen Meer, P.E. <smeer@thesigmagroup.com>
Sent: Monday, October 14, 2019 8:58 AM
To: Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov>
Subject: Re: MPS site lab data?

Not yet, I'll check with them this morning

Sent from my iPhone

On Oct 14, 2019, at 8:57 AM, Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov> wrote:

Morning Steve. I assume you haven't received lab report for the MPS site? sorry to bug you about it.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Nancy D. Ryan

Hydrogeologist Coordinator, Bureau for Remediation and Redevelopment

Wisconsin Department of Natural Resources

2300 N. Dr. Martin Luther King, Jr. Dr.

Milwaukee, WI 53212

Phone: (414) 263-8533

Fax: (414) 263-8550

nancy.ryan@wisconsin.gov

<image001.gif>

dnr.wi.gov

<image002.gif>

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October 21, 2019

Steve Meer
Sigma Environmental Services
1300 W. Canal St.
Milwaukee, WI 53233

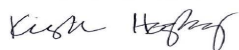
RE: Project: 18883 MPS-Vaughan Manufac
Pace Project No.: 10495129

Dear Steve Meer:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Ed Pencak, Sigma Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

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 Certification #: 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10495129001 | VP-1 | Air | 10/08/19 06:07 | 10/10/19 11:45 |
| 10495129002 | VP-2 | Air | 10/08/19 06:59 | 10/10/19 11:45 |
| 10495129003 | VP-3 | Air | 10/08/19 07:30 | 10/10/19 11:45 |
| 10495129004 | VP-4 | Air | 10/08/19 08:17 | 10/10/19 11:45 |
| 10495129005 | VP-5 | Air | 10/08/19 08:45 | 10/10/19 11:45 |
| 10495129006 | VP-6 | Air | 10/08/19 09:13 | 10/10/19 11:45 |
| 10495129007 | VP-7 | Air | 10/08/19 09:47 | 10/10/19 11:45 |
| 10495129008 | VP-8 | Air | 10/08/19 10:12 | 10/10/19 11:45 |
| 10495129009 | VP-9 | Air | 10/08/19 10:36 | 10/10/19 11:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------|----------|-------------------|------------|
| 10495129001 | VP-1 | TO-15 | MG2 | 61 | PASI-M |
| 10495129002 | VP-2 | TO-15 | MG2 | 61 | PASI-M |
| 10495129003 | VP-3 | TO-15 | MG2 | 61 | PASI-M |
| 10495129004 | VP-4 | TO-15 | MG2 | 61 | PASI-M |
| 10495129005 | VP-5 | TO-15 | MG2 | 61 | PASI-M |
| 10495129006 | VP-6 | TO-15 | MG2 | 61 | PASI-M |
| 10495129007 | VP-7 | TO-15 | MG2 | 61 | PASI-M |
| 10495129008 | VP-8 | TO-15 | MG2 | 61 | PASI-M |
| 10495129009 | VP-9 | TO-15 | MG2 | 61 | PASI-M |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-1 **Lab ID:** 10495129001 Collected: 10/08/19 06:07 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|------|------|------|----------|----------------|------------|------|
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 27.6 | ug/m3 | 3.7 | 1.9 | 1.55 | | 10/18/19 20:19 | 67-64-1 | |
| Benzene | 0.68 | ug/m3 | 0.50 | 0.24 | 1.55 | | 10/18/19 20:19 | 71-43-2 | |
| Benzyl chloride | <1.9 | ug/m3 | 4.1 | 1.9 | 1.55 | | 10/18/19 20:19 | 100-44-7 | |
| Bromodichloromethane | <0.57 | ug/m3 | 2.1 | 0.57 | 1.55 | | 10/18/19 20:19 | 75-27-4 | |
| Bromoform | <2.2 | ug/m3 | 8.1 | 2.2 | 1.55 | | 10/18/19 20:19 | 75-25-2 | |
| Bromomethane | 0.44J | ug/m3 | 1.2 | 0.35 | 1.55 | | 10/18/19 20:19 | 74-83-9 | |
| 1,3-Butadiene | <0.20 | ug/m3 | 0.70 | 0.20 | 1.55 | | 10/18/19 20:19 | 106-99-0 | |
| 2-Butanone (MEK) | 3.8J | ug/m3 | 4.6 | 0.57 | 1.55 | | 10/18/19 20:19 | 78-93-3 | |
| Carbon disulfide | 0.69J | ug/m3 | 0.98 | 0.34 | 1.55 | | 10/18/19 20:19 | 75-15-0 | |
| Carbon tetrachloride | <0.66 | ug/m3 | 2.0 | 0.66 | 1.55 | | 10/18/19 20:19 | 56-23-5 | |
| Chlorobenzene | <0.43 | ug/m3 | 1.5 | 0.43 | 1.55 | | 10/18/19 20:19 | 108-90-7 | |
| Chloroethane | <0.40 | ug/m3 | 0.83 | 0.40 | 1.55 | | 10/18/19 20:19 | 75-00-3 | |
| Chloroform | <0.30 | ug/m3 | 0.77 | 0.30 | 1.55 | | 10/18/19 20:19 | 67-66-3 | |
| Chloromethane | <0.24 | ug/m3 | 0.65 | 0.24 | 1.55 | | 10/18/19 20:19 | 74-87-3 | |
| Cyclohexane | 2.5J | ug/m3 | 2.7 | 0.55 | 1.55 | | 10/18/19 20:19 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.7 | 1.1 | 1.55 | | 10/18/19 20:19 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.57 | ug/m3 | 1.2 | 0.57 | 1.55 | | 10/18/19 20:19 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.77 | ug/m3 | 1.9 | 0.77 | 1.55 | | 10/18/19 20:19 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.90 | ug/m3 | 1.9 | 0.90 | 1.55 | | 10/18/19 20:19 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.6 | ug/m3 | 4.7 | 1.6 | 1.55 | | 10/18/19 20:19 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.6 | 0.45 | 1.55 | | 10/18/19 20:19 | 75-71-8 | |
| 1,1-Dichloroethane | <0.35 | ug/m3 | 1.3 | 0.35 | 1.55 | | 10/18/19 20:19 | 75-34-3 | |
| 1,2-Dichloroethane | <0.23 | ug/m3 | 0.64 | 0.23 | 1.55 | | 10/18/19 20:19 | 107-06-2 | |
| 1,1-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.55 | | 10/18/19 20:19 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.34 | ug/m3 | 1.2 | 0.34 | 1.55 | | 10/18/19 20:19 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.44 | ug/m3 | 1.2 | 0.44 | 1.55 | | 10/18/19 20:19 | 156-60-5 | |
| 1,2-Dichloropropane | <0.36 | ug/m3 | 1.5 | 0.36 | 1.55 | | 10/18/19 20:19 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.47 | ug/m3 | 1.4 | 0.47 | 1.55 | | 10/18/19 20:19 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.68 | ug/m3 | 1.4 | 0.68 | 1.55 | | 10/18/19 20:19 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.68 | ug/m3 | 2.2 | 0.68 | 1.55 | | 10/18/19 20:19 | 76-14-2 | |
| Ethanol | 128 | ug/m3 | 3.0 | 1.3 | 1.55 | | 10/18/19 20:19 | 64-17-5 | |
| Ethyl acetate | <0.29 | ug/m3 | 1.1 | 0.29 | 1.55 | | 10/18/19 20:19 | 141-78-6 | |
| Ethylbenzene | 1.2J | ug/m3 | 1.4 | 0.47 | 1.55 | | 10/18/19 20:19 | 100-41-4 | |
| 4-Ethyltoluene | <0.88 | ug/m3 | 3.9 | 0.88 | 1.55 | | 10/18/19 20:19 | 622-96-8 | |
| n-Heptane | 2.8 | ug/m3 | 1.3 | 0.59 | 1.55 | | 10/18/19 20:19 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <3.1 | ug/m3 | 8.4 | 3.1 | 1.55 | | 10/18/19 20:19 | 87-68-3 | |
| n-Hexane | 2.0 | ug/m3 | 1.1 | 0.48 | 1.55 | | 10/18/19 20:19 | 110-54-3 | |
| 2-Hexanone | <1.2 | ug/m3 | 6.4 | 1.2 | 1.55 | | 10/18/19 20:19 | 591-78-6 | |
| Methylene Chloride | 3.2J | ug/m3 | 5.5 | 1.9 | 1.55 | | 10/18/19 20:19 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.80 | ug/m3 | 6.4 | 0.80 | 1.55 | | 10/18/19 20:19 | 108-10-1 | |
| Methyl-tert-butyl ether | <1.0 | ug/m3 | 5.7 | 1.0 | 1.55 | | 10/18/19 20:19 | 1634-04-4 | |
| Naphthalene | 2.6J | ug/m3 | 4.1 | 2.0 | 1.55 | | 10/18/19 20:19 | 91-20-3 | |
| 2-Propanol | 38.0 | ug/m3 | 3.9 | 1.1 | 1.55 | | 10/18/19 20:19 | 67-63-0 | |
| Propylene | <0.22 | ug/m3 | 0.54 | 0.22 | 1.55 | | 10/18/19 20:19 | 115-07-1 | |
| Styrene | <0.53 | ug/m3 | 1.3 | 0.53 | 1.55 | | 10/18/19 20:19 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.48 | ug/m3 | 1.1 | 0.48 | 1.55 | | 10/18/19 20:19 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-1 **Lab ID: 10495129001** Collected: 10/08/19 06:07 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 12.5 | ug/m3 | 1.1 | 0.49 | 1.55 | | 10/18/19 20:19 | 127-18-4 | |
| Tetrahydrofuran | <0.40 | ug/m3 | 0.93 | 0.40 | 1.55 | | 10/18/19 20:19 | 109-99-9 | |
| Toluene | 2.7 | ug/m3 | 1.2 | 0.54 | 1.55 | | 10/18/19 20:19 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.8 | ug/m3 | 11.7 | 5.8 | 1.55 | | 10/18/19 20:19 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.48 | ug/m3 | 1.7 | 0.48 | 1.55 | | 10/18/19 20:19 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.38 | ug/m3 | 0.86 | 0.38 | 1.55 | | 10/18/19 20:19 | 79-00-5 | |
| Trichloroethene | <0.39 | ug/m3 | 0.85 | 0.39 | 1.55 | | 10/18/19 20:19 | 79-01-6 | |
| Trichlorofluoromethane | 1.7J | ug/m3 | 1.8 | 0.57 | 1.55 | | 10/18/19 20:19 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.87 | ug/m3 | 2.4 | 0.87 | 1.55 | | 10/18/19 20:19 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.8 | ug/m3 | 1.5 | 0.70 | 1.55 | | 10/18/19 20:19 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.62 | ug/m3 | 1.5 | 0.62 | 1.55 | | 10/18/19 20:19 | 108-67-8 | |
| Vinyl acetate | <0.42 | ug/m3 | 1.1 | 0.42 | 1.55 | | 10/18/19 20:19 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/m3 | 0.40 | 0.20 | 1.55 | | 10/18/19 20:19 | 75-01-4 | |
| m&p-Xylene | 4.5 | ug/m3 | 2.7 | 1.1 | 1.55 | | 10/18/19 20:19 | 179601-23-1 | |
| o-Xylene | 1.8 | ug/m3 | 1.4 | 0.53 | 1.55 | | 10/18/19 20:19 | 95-47-6 | |

Sample: VP-2 **Lab ID: 10495129002** Collected: 10/08/19 06:59 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 186 | ug/m3 | 3.7 | 1.9 | 1.55 | | 10/18/19 20:48 | 67-64-1 | |
| Benzene | <0.24 | ug/m3 | 0.50 | 0.24 | 1.55 | | 10/18/19 20:48 | 71-43-2 | |
| Benzyl chloride | <1.9 | ug/m3 | 4.1 | 1.9 | 1.55 | | 10/18/19 20:48 | 100-44-7 | |
| Bromodichloromethane | <0.57 | ug/m3 | 2.1 | 0.57 | 1.55 | | 10/18/19 20:48 | 75-27-4 | |
| Bromoform | <2.2 | ug/m3 | 8.1 | 2.2 | 1.55 | | 10/18/19 20:48 | 75-25-2 | |
| Bromomethane | <0.35 | ug/m3 | 1.2 | 0.35 | 1.55 | | 10/18/19 20:48 | 74-83-9 | |
| 1,3-Butadiene | <0.20 | ug/m3 | 0.70 | 0.20 | 1.55 | | 10/18/19 20:48 | 106-99-0 | |
| 2-Butanone (MEK) | 14.5 | ug/m3 | 4.6 | 0.57 | 1.55 | | 10/18/19 20:48 | 78-93-3 | |
| Carbon disulfide | <0.34 | ug/m3 | 0.98 | 0.34 | 1.55 | | 10/18/19 20:48 | 75-15-0 | |
| Carbon tetrachloride | <0.66 | ug/m3 | 2.0 | 0.66 | 1.55 | | 10/18/19 20:48 | 56-23-5 | |
| Chlorobenzene | <0.43 | ug/m3 | 1.5 | 0.43 | 1.55 | | 10/18/19 20:48 | 108-90-7 | |
| Chloroethane | <0.40 | ug/m3 | 0.83 | 0.40 | 1.55 | | 10/18/19 20:48 | 75-00-3 | |
| Chloroform | <0.30 | ug/m3 | 0.77 | 0.30 | 1.55 | | 10/18/19 20:48 | 67-66-3 | |
| Chloromethane | <0.24 | ug/m3 | 0.65 | 0.24 | 1.55 | | 10/18/19 20:48 | 74-87-3 | |
| Cyclohexane | <0.55 | ug/m3 | 2.7 | 0.55 | 1.55 | | 10/18/19 20:48 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.7 | 1.1 | 1.55 | | 10/18/19 20:48 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.57 | ug/m3 | 1.2 | 0.57 | 1.55 | | 10/18/19 20:48 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.77 | ug/m3 | 1.9 | 0.77 | 1.55 | | 10/18/19 20:48 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.90 | ug/m3 | 1.9 | 0.90 | 1.55 | | 10/18/19 20:48 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.6 | ug/m3 | 4.7 | 1.6 | 1.55 | | 10/18/19 20:48 | 106-46-7 | |
| Dichlorodifluoromethane | 2.9 | ug/m3 | 1.6 | 0.45 | 1.55 | | 10/18/19 20:48 | 75-71-8 | |
| 1,1-Dichloroethane | <0.35 | ug/m3 | 1.3 | 0.35 | 1.55 | | 10/18/19 20:48 | 75-34-3 | |
| 1,2-Dichloroethane | <0.23 | ug/m3 | 0.64 | 0.23 | 1.55 | | 10/18/19 20:48 | 107-06-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-2 **Lab ID: 10495129002** Collected: 10/08/19 06:59 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|--------------------------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | | |
| 1,1-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.55 | | 10/18/19 20:48 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.34 | ug/m3 | 1.2 | 0.34 | 1.55 | | 10/18/19 20:48 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.44 | ug/m3 | 1.2 | 0.44 | 1.55 | | 10/18/19 20:48 | 156-60-5 | |
| 1,2-Dichloropropane | <0.36 | ug/m3 | 1.5 | 0.36 | 1.55 | | 10/18/19 20:48 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.47 | ug/m3 | 1.4 | 0.47 | 1.55 | | 10/18/19 20:48 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.68 | ug/m3 | 1.4 | 0.68 | 1.55 | | 10/18/19 20:48 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.68 | ug/m3 | 2.2 | 0.68 | 1.55 | | 10/18/19 20:48 | 76-14-2 | |
| Ethanol | 302 | ug/m3 | 3.0 | 1.3 | 1.55 | | 10/18/19 20:48 | 64-17-5 | |
| Ethyl acetate | <0.29 | ug/m3 | 1.1 | 0.29 | 1.55 | | 10/18/19 20:48 | 141-78-6 | |
| Ethylbenzene | 0.66J | ug/m3 | 1.4 | 0.47 | 1.55 | | 10/18/19 20:48 | 100-41-4 | |
| 4-Ethyltoluene | <0.88 | ug/m3 | 3.9 | 0.88 | 1.55 | | 10/18/19 20:48 | 622-96-8 | |
| n-Heptane | 2.2 | ug/m3 | 1.3 | 0.59 | 1.55 | | 10/18/19 20:48 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <3.1 | ug/m3 | 8.4 | 3.1 | 1.55 | | 10/18/19 20:48 | 87-68-3 | |
| n-Hexane | 0.53J | ug/m3 | 1.1 | 0.48 | 1.55 | | 10/18/19 20:48 | 110-54-3 | |
| 2-Hexanone | 2.1J | ug/m3 | 6.4 | 1.2 | 1.55 | | 10/18/19 20:48 | 591-78-6 | |
| Methylene Chloride | 3.3J | ug/m3 | 5.5 | 1.9 | 1.55 | | 10/18/19 20:48 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | 13.4 | ug/m3 | 6.4 | 0.80 | 1.55 | | 10/18/19 20:48 | 108-10-1 | |
| Methyl-tert-butyl ether | <1.0 | ug/m3 | 5.7 | 1.0 | 1.55 | | 10/18/19 20:48 | 1634-04-4 | |
| Naphthalene | 2.2J | ug/m3 | 4.1 | 2.0 | 1.55 | | 10/18/19 20:48 | 91-20-3 | |
| 2-Propanol | 339 | ug/m3 | 3.9 | 1.1 | 1.55 | | 10/18/19 20:48 | 67-63-0 | |
| Propylene | <0.22 | ug/m3 | 0.54 | 0.22 | 1.55 | | 10/18/19 20:48 | 115-07-1 | |
| Styrene | <0.53 | ug/m3 | 1.3 | 0.53 | 1.55 | | 10/18/19 20:48 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.48 | ug/m3 | 1.1 | 0.48 | 1.55 | | 10/18/19 20:48 | 79-34-5 | |
| Tetrachloroethene | 8.6 | ug/m3 | 1.1 | 0.49 | 1.55 | | 10/18/19 20:48 | 127-18-4 | |
| Tetrahydrofuran | <0.40 | ug/m3 | 0.93 | 0.40 | 1.55 | | 10/18/19 20:48 | 109-99-9 | |
| Toluene | 1.5 | ug/m3 | 1.2 | 0.54 | 1.55 | | 10/18/19 20:48 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.8 | ug/m3 | 11.7 | 5.8 | 1.55 | | 10/18/19 20:48 | 120-82-1 | |
| 1,1,1-Trichloroethane | 7.7 | ug/m3 | 1.7 | 0.48 | 1.55 | | 10/18/19 20:48 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.38 | ug/m3 | 0.86 | 0.38 | 1.55 | | 10/18/19 20:48 | 79-00-5 | |
| Trichloroethene | 1.7 | ug/m3 | 0.85 | 0.39 | 1.55 | | 10/18/19 20:48 | 79-01-6 | |
| Trichlorofluoromethane | 2.1 | ug/m3 | 1.8 | 0.57 | 1.55 | | 10/18/19 20:48 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.87 | ug/m3 | 2.4 | 0.87 | 1.55 | | 10/18/19 20:48 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.2J | ug/m3 | 1.5 | 0.70 | 1.55 | | 10/18/19 20:48 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.62 | ug/m3 | 1.5 | 0.62 | 1.55 | | 10/18/19 20:48 | 108-67-8 | |
| Vinyl acetate | <0.42 | ug/m3 | 1.1 | 0.42 | 1.55 | | 10/18/19 20:48 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/m3 | 0.40 | 0.20 | 1.55 | | 10/18/19 20:48 | 75-01-4 | |
| m&p-Xylene | 3.0 | ug/m3 | 2.7 | 1.1 | 1.55 | | 10/18/19 20:48 | 179601-23-1 | |
| o-Xylene | 1.3J | ug/m3 | 1.4 | 0.53 | 1.55 | | 10/18/19 20:48 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-3 **Lab ID: 10495129003** Collected: 10/08/19 07:30 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|-----------------|--------------------------|------|------|------|----------|----------------|------------|------|
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | | |
| Acetone | 58.3 | ug/m3 | 3.6 | 1.8 | 1.49 | | 10/18/19 21:17 | 67-64-1 | |
| Benzene | 1.4 | ug/m3 | 0.48 | 0.23 | 1.49 | | 10/18/19 21:17 | 71-43-2 | |
| Benzyl chloride | <1.8 | ug/m3 | 3.9 | 1.8 | 1.49 | | 10/18/19 21:17 | 100-44-7 | |
| Bromodichloromethane | <0.55 | ug/m3 | 2.0 | 0.55 | 1.49 | | 10/18/19 21:17 | 75-27-4 | |
| Bromoform | <2.1 | ug/m3 | 7.8 | 2.1 | 1.49 | | 10/18/19 21:17 | 75-25-2 | |
| Bromomethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 21:17 | 74-83-9 | |
| 1,3-Butadiene | <0.19 | ug/m3 | 0.67 | 0.19 | 1.49 | | 10/18/19 21:17 | 106-99-0 | |
| 2-Butanone (MEK) | 2.2J | ug/m3 | 4.5 | 0.55 | 1.49 | | 10/18/19 21:17 | 78-93-3 | |
| Carbon disulfide | <0.33 | ug/m3 | 0.94 | 0.33 | 1.49 | | 10/18/19 21:17 | 75-15-0 | |
| Carbon tetrachloride | <0.64 | ug/m3 | 1.9 | 0.64 | 1.49 | | 10/18/19 21:17 | 56-23-5 | |
| Chlorobenzene | <0.41 | ug/m3 | 1.4 | 0.41 | 1.49 | | 10/18/19 21:17 | 108-90-7 | |
| Chloroethane | <0.39 | ug/m3 | 0.80 | 0.39 | 1.49 | | 10/18/19 21:17 | 75-00-3 | |
| Chloroform | <0.29 | ug/m3 | 0.74 | 0.29 | 1.49 | | 10/18/19 21:17 | 67-66-3 | |
| Chloromethane | <0.23 | ug/m3 | 0.63 | 0.23 | 1.49 | | 10/18/19 21:17 | 74-87-3 | |
| Cyclohexane | 3.3 | ug/m3 | 2.6 | 0.53 | 1.49 | | 10/18/19 21:17 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.6 | 1.1 | 1.49 | | 10/18/19 21:17 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.55 | ug/m3 | 1.2 | 0.55 | 1.49 | | 10/18/19 21:17 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.74 | ug/m3 | 1.8 | 0.74 | 1.49 | | 10/18/19 21:17 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.87 | ug/m3 | 1.8 | 0.87 | 1.49 | | 10/18/19 21:17 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.5 | ug/m3 | 4.6 | 1.5 | 1.49 | | 10/18/19 21:17 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.5 | 0.44 | 1.49 | | 10/18/19 21:17 | 75-71-8 | |
| 1,1-Dichloroethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 21:17 | 75-34-3 | |
| 1,2-Dichloroethane | <0.22 | ug/m3 | 0.61 | 0.22 | 1.49 | | 10/18/19 21:17 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/m3 | 1.2 | 0.41 | 1.49 | | 10/18/19 21:17 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.33 | ug/m3 | 1.2 | 0.33 | 1.49 | | 10/18/19 21:17 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.49 | | 10/18/19 21:17 | 156-60-5 | |
| 1,2-Dichloropropane | <0.34 | ug/m3 | 1.4 | 0.34 | 1.49 | | 10/18/19 21:17 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.45 | ug/m3 | 1.4 | 0.45 | 1.49 | | 10/18/19 21:17 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.66 | ug/m3 | 1.4 | 0.66 | 1.49 | | 10/18/19 21:17 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.65 | ug/m3 | 2.1 | 0.65 | 1.49 | | 10/18/19 21:17 | 76-14-2 | |
| Ethanol | 319 | ug/m3 | 2.9 | 1.2 | 1.49 | | 10/18/19 21:17 | 64-17-5 | |
| Ethyl acetate | <0.28 | ug/m3 | 1.1 | 0.28 | 1.49 | | 10/18/19 21:17 | 141-78-6 | |
| Ethylbenzene | 2.4 | ug/m3 | 1.3 | 0.45 | 1.49 | | 10/18/19 21:17 | 100-41-4 | |
| 4-Ethyltoluene | <0.85 | ug/m3 | 3.7 | 0.85 | 1.49 | | 10/18/19 21:17 | 622-96-8 | |
| n-Heptane | 6.9 | ug/m3 | 1.2 | 0.57 | 1.49 | | 10/18/19 21:17 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.9 | ug/m3 | 8.1 | 2.9 | 1.49 | | 10/18/19 21:17 | 87-68-3 | |
| n-Hexane | 4.2 | ug/m3 | 1.1 | 0.46 | 1.49 | | 10/18/19 21:17 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.2 | 1.1 | 1.49 | | 10/18/19 21:17 | 591-78-6 | |
| Methylene Chloride | 2.1J | ug/m3 | 5.3 | 1.8 | 1.49 | | 10/18/19 21:17 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.77 | ug/m3 | 6.2 | 0.77 | 1.49 | | 10/18/19 21:17 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.99 | ug/m3 | 5.5 | 0.99 | 1.49 | | 10/18/19 21:17 | 1634-04-4 | |
| Naphthalene | 2.2J | ug/m3 | 4.0 | 2.0 | 1.49 | | 10/18/19 21:17 | 91-20-3 | |
| 2-Propanol | 348 | ug/m3 | 3.7 | 1.0 | 1.49 | | 10/18/19 21:17 | 67-63-0 | |
| Propylene | <0.21 | ug/m3 | 0.52 | 0.21 | 1.49 | | 10/18/19 21:17 | 115-07-1 | |
| Styrene | <0.51 | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 21:17 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.46 | ug/m3 | 1.0 | 0.46 | 1.49 | | 10/18/19 21:17 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-3 **Lab ID: 10495129003** Collected: 10/08/19 07:30 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 12.1 | ug/m3 | 1.0 | 0.47 | 1.49 | | 10/18/19 21:17 | 127-18-4 | |
| Tetrahydrofuran | 0.70J | ug/m3 | 0.89 | 0.39 | 1.49 | | 10/18/19 21:17 | 109-99-9 | |
| Toluene | 6.3 | ug/m3 | 1.1 | 0.52 | 1.49 | | 10/18/19 21:17 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.5 | ug/m3 | 11.2 | 5.5 | 1.49 | | 10/18/19 21:17 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.46 | ug/m3 | 1.7 | 0.46 | 1.49 | | 10/18/19 21:17 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.36 | ug/m3 | 0.83 | 0.36 | 1.49 | | 10/18/19 21:17 | 79-00-5 | |
| Trichloroethene | <0.38 | ug/m3 | 0.81 | 0.38 | 1.49 | | 10/18/19 21:17 | 79-01-6 | |
| Trichlorofluoromethane | 1.7 | ug/m3 | 1.7 | 0.55 | 1.49 | | 10/18/19 21:17 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.84 | ug/m3 | 2.3 | 0.84 | 1.49 | | 10/18/19 21:17 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 2.5 | ug/m3 | 1.5 | 0.67 | 1.49 | | 10/18/19 21:17 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 1.2J | ug/m3 | 1.5 | 0.59 | 1.49 | | 10/18/19 21:17 | 108-67-8 | |
| Vinyl acetate | <0.40 | ug/m3 | 1.1 | 0.40 | 1.49 | | 10/18/19 21:17 | 108-05-4 | |
| Vinyl chloride | <0.19 | ug/m3 | 0.39 | 0.19 | 1.49 | | 10/18/19 21:17 | 75-01-4 | |
| m&p-Xylene | 6.5 | ug/m3 | 2.6 | 1.0 | 1.49 | | 10/18/19 21:17 | 179601-23-1 | |
| o-Xylene | 2.7 | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 21:17 | 95-47-6 | |

Sample: VP-4 **Lab ID: 10495129004** Collected: 10/08/19 08:17 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 43.0 | ug/m3 | 3.6 | 1.8 | 1.49 | | 10/18/19 21:46 | 67-64-1 | |
| Benzene | 1.7 | ug/m3 | 0.48 | 0.23 | 1.49 | | 10/18/19 21:46 | 71-43-2 | |
| Benzyl chloride | <1.8 | ug/m3 | 3.9 | 1.8 | 1.49 | | 10/18/19 21:46 | 100-44-7 | |
| Bromodichloromethane | <0.55 | ug/m3 | 2.0 | 0.55 | 1.49 | | 10/18/19 21:46 | 75-27-4 | |
| Bromoform | <2.1 | ug/m3 | 7.8 | 2.1 | 1.49 | | 10/18/19 21:46 | 75-25-2 | |
| Bromomethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 21:46 | 74-83-9 | |
| 1,3-Butadiene | <0.19 | ug/m3 | 0.67 | 0.19 | 1.49 | | 10/18/19 21:46 | 106-99-0 | |
| 2-Butanone (MEK) | 7.1 | ug/m3 | 4.5 | 0.55 | 1.49 | | 10/18/19 21:46 | 78-93-3 | |
| Carbon disulfide | <0.33 | ug/m3 | 0.94 | 0.33 | 1.49 | | 10/18/19 21:46 | 75-15-0 | |
| Carbon tetrachloride | <0.64 | ug/m3 | 1.9 | 0.64 | 1.49 | | 10/18/19 21:46 | 56-23-5 | |
| Chlorobenzene | <0.41 | ug/m3 | 1.4 | 0.41 | 1.49 | | 10/18/19 21:46 | 108-90-7 | |
| Chloroethane | <0.39 | ug/m3 | 0.80 | 0.39 | 1.49 | | 10/18/19 21:46 | 75-00-3 | |
| Chloroform | 0.34J | ug/m3 | 0.74 | 0.29 | 1.49 | | 10/18/19 21:46 | 67-66-3 | |
| Chloromethane | <0.23 | ug/m3 | 0.63 | 0.23 | 1.49 | | 10/18/19 21:46 | 74-87-3 | |
| Cyclohexane | 2.5J | ug/m3 | 2.6 | 0.53 | 1.49 | | 10/18/19 21:46 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.6 | 1.1 | 1.49 | | 10/18/19 21:46 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.55 | ug/m3 | 1.2 | 0.55 | 1.49 | | 10/18/19 21:46 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.74 | ug/m3 | 1.8 | 0.74 | 1.49 | | 10/18/19 21:46 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.87 | ug/m3 | 1.8 | 0.87 | 1.49 | | 10/18/19 21:46 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.5 | ug/m3 | 4.6 | 1.5 | 1.49 | | 10/18/19 21:46 | 106-46-7 | |
| Dichlorodifluoromethane | 2.5 | ug/m3 | 1.5 | 0.44 | 1.49 | | 10/18/19 21:46 | 75-71-8 | |
| 1,1-Dichloroethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 21:46 | 75-34-3 | |
| 1,2-Dichloroethane | <0.22 | ug/m3 | 0.61 | 0.22 | 1.49 | | 10/18/19 21:46 | 107-06-2 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-4 **Lab ID: 10495129004** Collected: 10/08/19 08:17 Received: 10/10/19 11:45 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 | | 10/18/19 21:46 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.33 | ug/m3 | 1.2 | 0.33 | 1.49 | | 10/18/19 21:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.49 | | 10/18/19 21:46 | 156-60-5 | |
| 1,2-Dichloropropane | <0.34 | ug/m3 | 1.4 | 0.34 | 1.49 | | 10/18/19 21:46 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.45 | ug/m3 | 1.4 | 0.45 | 1.49 | | 10/18/19 21:46 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.66 | ug/m3 | 1.4 | 0.66 | 1.49 | | 10/18/19 21:46 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.65 | ug/m3 | 2.1 | 0.65 | 1.49 | | 10/18/19 21:46 | 76-14-2 | |
| Ethanol | 267 | ug/m3 | 2.9 | 1.2 | 1.49 | | 10/18/19 21:46 | 64-17-5 | |
| Ethyl acetate | <0.28 | ug/m3 | 1.1 | 0.28 | 1.49 | | 10/18/19 21:46 | 141-78-6 | |
| Ethylbenzene | 2.1 | ug/m3 | 1.3 | 0.45 | 1.49 | | 10/18/19 21:46 | 100-41-4 | |
| 4-Ethyltoluene | 1.2J | ug/m3 | 3.7 | 0.85 | 1.49 | | 10/18/19 21:46 | 622-96-8 | |
| n-Heptane | 6.0 | ug/m3 | 1.2 | 0.57 | 1.49 | | 10/18/19 21:46 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.9 | ug/m3 | 8.1 | 2.9 | 1.49 | | 10/18/19 21:46 | 87-68-3 | |
| n-Hexane | 4.0 | ug/m3 | 1.1 | 0.46 | 1.49 | | 10/18/19 21:46 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.2 | 1.1 | 1.49 | | 10/18/19 21:46 | 591-78-6 | |
| Methylene Chloride | 2.6J | ug/m3 | 5.3 | 1.8 | 1.49 | | 10/18/19 21:46 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.77 | ug/m3 | 6.2 | 0.77 | 1.49 | | 10/18/19 21:46 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.99 | ug/m3 | 5.5 | 0.99 | 1.49 | | 10/18/19 21:46 | 1634-04-4 | |
| Naphthalene | 2.4J | ug/m3 | 4.0 | 2.0 | 1.49 | | 10/18/19 21:46 | 91-20-3 | |
| 2-Propanol | 343 | ug/m3 | 3.7 | 1.0 | 1.49 | | 10/18/19 21:46 | 67-63-0 | |
| Propylene | <0.21 | ug/m3 | 0.52 | 0.21 | 1.49 | | 10/18/19 21:46 | 115-07-1 | |
| Styrene | <0.51 | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 21:46 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.46 | ug/m3 | 1.0 | 0.46 | 1.49 | | 10/18/19 21:46 | 79-34-5 | |
| Tetrachloroethene | 9.6 | ug/m3 | 1.0 | 0.47 | 1.49 | | 10/18/19 21:46 | 127-18-4 | |
| Tetrahydrofuran | <0.39 | ug/m3 | 0.89 | 0.39 | 1.49 | | 10/18/19 21:46 | 109-99-9 | |
| Toluene | 4.6 | ug/m3 | 1.1 | 0.52 | 1.49 | | 10/18/19 21:46 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.5 | ug/m3 | 11.2 | 5.5 | 1.49 | | 10/18/19 21:46 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.46 | ug/m3 | 1.7 | 0.46 | 1.49 | | 10/18/19 21:46 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.36 | ug/m3 | 0.83 | 0.36 | 1.49 | | 10/18/19 21:46 | 79-00-5 | |
| Trichloroethene | 0.80J | ug/m3 | 0.81 | 0.38 | 1.49 | | 10/18/19 21:46 | 79-01-6 | |
| Trichlorofluoromethane | 1.3J | ug/m3 | 1.7 | 0.55 | 1.49 | | 10/18/19 21:46 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.84 | ug/m3 | 2.3 | 0.84 | 1.49 | | 10/18/19 21:46 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 2.3 | ug/m3 | 1.5 | 0.67 | 1.49 | | 10/18/19 21:46 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 1.1J | ug/m3 | 1.5 | 0.59 | 1.49 | | 10/18/19 21:46 | 108-67-8 | |
| Vinyl acetate | <0.40 | ug/m3 | 1.1 | 0.40 | 1.49 | | 10/18/19 21:46 | 108-05-4 | |
| Vinyl chloride | <0.19 | ug/m3 | 0.39 | 0.19 | 1.49 | | 10/18/19 21:46 | 75-01-4 | |
| m&p-Xylene | 5.2 | ug/m3 | 2.6 | 1.0 | 1.49 | | 10/18/19 21:46 | 179601-23-1 | |
| o-Xylene | 2.3 | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 21:46 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-5 **Lab ID: 10495129005** Collected: 10/08/19 08:45 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|-----------------|--------------------------|------|------|------|----------|----------------|------------|------|
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | | |
| Acetone | 29.6 | ug/m3 | 3.6 | 1.8 | 1.49 | | 10/18/19 22:15 | 67-64-1 | |
| Benzene | <0.23 | ug/m3 | 0.48 | 0.23 | 1.49 | | 10/18/19 22:15 | 71-43-2 | |
| Benzyl chloride | <1.8 | ug/m3 | 3.9 | 1.8 | 1.49 | | 10/18/19 22:15 | 100-44-7 | |
| Bromodichloromethane | <0.55 | ug/m3 | 2.0 | 0.55 | 1.49 | | 10/18/19 22:15 | 75-27-4 | |
| Bromoform | <2.1 | ug/m3 | 7.8 | 2.1 | 1.49 | | 10/18/19 22:15 | 75-25-2 | |
| Bromomethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 22:15 | 74-83-9 | |
| 1,3-Butadiene | <0.19 | ug/m3 | 0.67 | 0.19 | 1.49 | | 10/18/19 22:15 | 106-99-0 | |
| 2-Butanone (MEK) | 4.2J | ug/m3 | 4.5 | 0.55 | 1.49 | | 10/18/19 22:15 | 78-93-3 | |
| Carbon disulfide | 8.5 | ug/m3 | 0.94 | 0.33 | 1.49 | | 10/18/19 22:15 | 75-15-0 | |
| Carbon tetrachloride | <0.64 | ug/m3 | 1.9 | 0.64 | 1.49 | | 10/18/19 22:15 | 56-23-5 | |
| Chlorobenzene | <0.41 | ug/m3 | 1.4 | 0.41 | 1.49 | | 10/18/19 22:15 | 108-90-7 | |
| Chloroethane | 2.0 | ug/m3 | 0.80 | 0.39 | 1.49 | | 10/18/19 22:15 | 75-00-3 | |
| Chloroform | 0.72J | ug/m3 | 0.74 | 0.29 | 1.49 | | 10/18/19 22:15 | 67-66-3 | |
| Chloromethane | <0.23 | ug/m3 | 0.63 | 0.23 | 1.49 | | 10/18/19 22:15 | 74-87-3 | |
| Cyclohexane | <0.53 | ug/m3 | 2.6 | 0.53 | 1.49 | | 10/18/19 22:15 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.6 | 1.1 | 1.49 | | 10/18/19 22:15 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.55 | ug/m3 | 1.2 | 0.55 | 1.49 | | 10/18/19 22:15 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.74 | ug/m3 | 1.8 | 0.74 | 1.49 | | 10/18/19 22:15 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.87 | ug/m3 | 1.8 | 0.87 | 1.49 | | 10/18/19 22:15 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.5 | ug/m3 | 4.6 | 1.5 | 1.49 | | 10/18/19 22:15 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.5 | 0.44 | 1.49 | | 10/18/19 22:15 | 75-71-8 | |
| 1,1-Dichloroethane | 0.58J | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 22:15 | 75-34-3 | |
| 1,2-Dichloroethane | <0.22 | ug/m3 | 0.61 | 0.22 | 1.49 | | 10/18/19 22:15 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/m3 | 1.2 | 0.41 | 1.49 | | 10/18/19 22:15 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.33 | ug/m3 | 1.2 | 0.33 | 1.49 | | 10/18/19 22:15 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.49 | | 10/18/19 22:15 | 156-60-5 | |
| 1,2-Dichloropropane | <0.34 | ug/m3 | 1.4 | 0.34 | 1.49 | | 10/18/19 22:15 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.45 | ug/m3 | 1.4 | 0.45 | 1.49 | | 10/18/19 22:15 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.66 | ug/m3 | 1.4 | 0.66 | 1.49 | | 10/18/19 22:15 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.65 | ug/m3 | 2.1 | 0.65 | 1.49 | | 10/18/19 22:15 | 76-14-2 | |
| Ethanol | 93.1 | ug/m3 | 2.9 | 1.2 | 1.49 | | 10/18/19 22:15 | 64-17-5 | |
| Ethyl acetate | <0.28 | ug/m3 | 1.1 | 0.28 | 1.49 | | 10/18/19 22:15 | 141-78-6 | |
| Ethylbenzene | 0.83J | ug/m3 | 1.3 | 0.45 | 1.49 | | 10/18/19 22:15 | 100-41-4 | |
| 4-Ethyltoluene | <0.85 | ug/m3 | 3.7 | 0.85 | 1.49 | | 10/18/19 22:15 | 622-96-8 | |
| n-Heptane | 1.8 | ug/m3 | 1.2 | 0.57 | 1.49 | | 10/18/19 22:15 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.9 | ug/m3 | 8.1 | 2.9 | 1.49 | | 10/18/19 22:15 | 87-68-3 | |
| n-Hexane | 0.98J | ug/m3 | 1.1 | 0.46 | 1.49 | | 10/18/19 22:15 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.2 | 1.1 | 1.49 | | 10/18/19 22:15 | 591-78-6 | |
| Methylene Chloride | 2.9J | ug/m3 | 5.3 | 1.8 | 1.49 | | 10/18/19 22:15 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.77 | ug/m3 | 6.2 | 0.77 | 1.49 | | 10/18/19 22:15 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.99 | ug/m3 | 5.5 | 0.99 | 1.49 | | 10/18/19 22:15 | 1634-04-4 | |
| Naphthalene | 2.1J | ug/m3 | 4.0 | 2.0 | 1.49 | | 10/18/19 22:15 | 91-20-3 | |
| 2-Propanol | 35.5 | ug/m3 | 3.7 | 1.0 | 1.49 | | 10/18/19 22:15 | 67-63-0 | |
| Propylene | <0.21 | ug/m3 | 0.52 | 0.21 | 1.49 | | 10/18/19 22:15 | 115-07-1 | |
| Styrene | <0.51 | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 22:15 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.46 | ug/m3 | 1.0 | 0.46 | 1.49 | | 10/18/19 22:15 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-5 **Lab ID: 10495129005** Collected: 10/08/19 08:45 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 8.2 | ug/m3 | 1.0 | 0.47 | 1.49 | | 10/18/19 22:15 | 127-18-4 | |
| Tetrahydrofuran | <0.39 | ug/m3 | 0.89 | 0.39 | 1.49 | | 10/18/19 22:15 | 109-99-9 | |
| Toluene | 1.9 | ug/m3 | 1.1 | 0.52 | 1.49 | | 10/18/19 22:15 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.5 | ug/m3 | 11.2 | 5.5 | 1.49 | | 10/18/19 22:15 | 120-82-1 | |
| 1,1,1-Trichloroethane | 27.3 | ug/m3 | 1.7 | 0.46 | 1.49 | | 10/18/19 22:15 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.36 | ug/m3 | 0.83 | 0.36 | 1.49 | | 10/18/19 22:15 | 79-00-5 | |
| Trichloroethene | 3.1 | ug/m3 | 0.81 | 0.38 | 1.49 | | 10/18/19 22:15 | 79-01-6 | |
| Trichlorofluoromethane | 1.7J | ug/m3 | 1.7 | 0.55 | 1.49 | | 10/18/19 22:15 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.84 | ug/m3 | 2.3 | 0.84 | 1.49 | | 10/18/19 22:15 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.3J | ug/m3 | 1.5 | 0.67 | 1.49 | | 10/18/19 22:15 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.59 | ug/m3 | 1.5 | 0.59 | 1.49 | | 10/18/19 22:15 | 108-67-8 | |
| Vinyl acetate | <0.40 | ug/m3 | 1.1 | 0.40 | 1.49 | | 10/18/19 22:15 | 108-05-4 | |
| Vinyl chloride | <0.19 | ug/m3 | 0.39 | 0.19 | 1.49 | | 10/18/19 22:15 | 75-01-4 | |
| m&p-Xylene | 3.0 | ug/m3 | 2.6 | 1.0 | 1.49 | | 10/18/19 22:15 | 179601-23-1 | |
| o-Xylene | 1.3J | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 22:15 | 95-47-6 | |

Sample: VP-6 **Lab ID: 10495129006** Collected: 10/08/19 09:13 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 44.6 | ug/m3 | 3.6 | 1.8 | 1.49 | | 10/18/19 22:44 | 67-64-1 | |
| Benzene | 0.72 | ug/m3 | 0.48 | 0.23 | 1.49 | | 10/18/19 22:44 | 71-43-2 | |
| Benzyl chloride | <1.8 | ug/m3 | 3.9 | 1.8 | 1.49 | | 10/18/19 22:44 | 100-44-7 | |
| Bromodichloromethane | <0.55 | ug/m3 | 2.0 | 0.55 | 1.49 | | 10/18/19 22:44 | 75-27-4 | |
| Bromoform | <2.1 | ug/m3 | 7.8 | 2.1 | 1.49 | | 10/18/19 22:44 | 75-25-2 | |
| Bromomethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 22:44 | 74-83-9 | |
| 1,3-Butadiene | <0.19 | ug/m3 | 0.67 | 0.19 | 1.49 | | 10/18/19 22:44 | 106-99-0 | |
| 2-Butanone (MEK) | 2.9J | ug/m3 | 4.5 | 0.55 | 1.49 | | 10/18/19 22:44 | 78-93-3 | |
| Carbon disulfide | 0.44J | ug/m3 | 0.94 | 0.33 | 1.49 | | 10/18/19 22:44 | 75-15-0 | |
| Carbon tetrachloride | <0.64 | ug/m3 | 1.9 | 0.64 | 1.49 | | 10/18/19 22:44 | 56-23-5 | |
| Chlorobenzene | <0.41 | ug/m3 | 1.4 | 0.41 | 1.49 | | 10/18/19 22:44 | 108-90-7 | |
| Chloroethane | <0.39 | ug/m3 | 0.80 | 0.39 | 1.49 | | 10/18/19 22:44 | 75-00-3 | |
| Chloroform | 1.1 | ug/m3 | 0.74 | 0.29 | 1.49 | | 10/18/19 22:44 | 67-66-3 | |
| Chloromethane | <0.23 | ug/m3 | 0.63 | 0.23 | 1.49 | | 10/18/19 22:44 | 74-87-3 | |
| Cyclohexane | <0.53 | ug/m3 | 2.6 | 0.53 | 1.49 | | 10/18/19 22:44 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.6 | 1.1 | 1.49 | | 10/18/19 22:44 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.55 | ug/m3 | 1.2 | 0.55 | 1.49 | | 10/18/19 22:44 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.74 | ug/m3 | 1.8 | 0.74 | 1.49 | | 10/18/19 22:44 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.87 | ug/m3 | 1.8 | 0.87 | 1.49 | | 10/18/19 22:44 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.5 | ug/m3 | 4.6 | 1.5 | 1.49 | | 10/18/19 22:44 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.5 | 0.44 | 1.49 | | 10/18/19 22:44 | 75-71-8 | |
| 1,1-Dichloroethane | 3.1 | ug/m3 | 1.2 | 0.34 | 1.49 | | 10/18/19 22:44 | 75-34-3 | |
| 1,2-Dichloroethane | <0.22 | ug/m3 | 0.61 | 0.22 | 1.49 | | 10/18/19 22:44 | 107-06-2 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-6 **Lab ID: 10495129006** Collected: 10/08/19 09:13 Received: 10/10/19 11:45 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 | | 10/18/19 22:44 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.33 | ug/m3 | 1.2 | 0.33 | 1.49 | | 10/18/19 22:44 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.49 | | 10/18/19 22:44 | 156-60-5 | |
| 1,2-Dichloropropane | <0.34 | ug/m3 | 1.4 | 0.34 | 1.49 | | 10/18/19 22:44 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.45 | ug/m3 | 1.4 | 0.45 | 1.49 | | 10/18/19 22:44 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.66 | ug/m3 | 1.4 | 0.66 | 1.49 | | 10/18/19 22:44 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.65 | ug/m3 | 2.1 | 0.65 | 1.49 | | 10/18/19 22:44 | 76-14-2 | |
| Ethanol | 245 | ug/m3 | 2.9 | 1.2 | 1.49 | | 10/18/19 22:44 | 64-17-5 | |
| Ethyl acetate | <0.28 | ug/m3 | 1.1 | 0.28 | 1.49 | | 10/18/19 22:44 | 141-78-6 | |
| Ethylbenzene | 1.5 | ug/m3 | 1.3 | 0.45 | 1.49 | | 10/18/19 22:44 | 100-41-4 | |
| 4-Ethyltoluene | <0.85 | ug/m3 | 3.7 | 0.85 | 1.49 | | 10/18/19 22:44 | 622-96-8 | |
| n-Heptane | 2.8 | ug/m3 | 1.2 | 0.57 | 1.49 | | 10/18/19 22:44 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.9 | ug/m3 | 8.1 | 2.9 | 1.49 | | 10/18/19 22:44 | 87-68-3 | |
| n-Hexane | 2.1 | ug/m3 | 1.1 | 0.46 | 1.49 | | 10/18/19 22:44 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.2 | 1.1 | 1.49 | | 10/18/19 22:44 | 591-78-6 | |
| Methylene Chloride | 2.8J | ug/m3 | 5.3 | 1.8 | 1.49 | | 10/18/19 22:44 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.77 | ug/m3 | 6.2 | 0.77 | 1.49 | | 10/18/19 22:44 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.99 | ug/m3 | 5.5 | 0.99 | 1.49 | | 10/18/19 22:44 | 1634-04-4 | |
| Naphthalene | <2.0 | ug/m3 | 4.0 | 2.0 | 1.49 | | 10/18/19 22:44 | 91-20-3 | |
| 2-Propanol | 355 | ug/m3 | 3.7 | 1.0 | 1.49 | | 10/18/19 22:44 | 67-63-0 | |
| Propylene | <0.21 | ug/m3 | 0.52 | 0.21 | 1.49 | | 10/18/19 22:44 | 115-07-1 | |
| Styrene | <0.51 | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 22:44 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.46 | ug/m3 | 1.0 | 0.46 | 1.49 | | 10/18/19 22:44 | 79-34-5 | |
| Tetrachloroethene | 7.5 | ug/m3 | 1.0 | 0.47 | 1.49 | | 10/18/19 22:44 | 127-18-4 | |
| Tetrahydrofuran | <0.39 | ug/m3 | 0.89 | 0.39 | 1.49 | | 10/18/19 22:44 | 109-99-9 | |
| Toluene | 3.4 | ug/m3 | 1.1 | 0.52 | 1.49 | | 10/18/19 22:44 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.5 | ug/m3 | 11.2 | 5.5 | 1.49 | | 10/18/19 22:44 | 120-82-1 | |
| 1,1,1-Trichloroethane | 35.0 | ug/m3 | 1.7 | 0.46 | 1.49 | | 10/18/19 22:44 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.36 | ug/m3 | 0.83 | 0.36 | 1.49 | | 10/18/19 22:44 | 79-00-5 | |
| Trichloroethene | 16.2 | ug/m3 | 0.81 | 0.38 | 1.49 | | 10/18/19 22:44 | 79-01-6 | |
| Trichlorofluoromethane | <0.55 | ug/m3 | 1.7 | 0.55 | 1.49 | | 10/18/19 22:44 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.84 | ug/m3 | 2.3 | 0.84 | 1.49 | | 10/18/19 22:44 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.6 | ug/m3 | 1.5 | 0.67 | 1.49 | | 10/18/19 22:44 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 0.83J | ug/m3 | 1.5 | 0.59 | 1.49 | | 10/18/19 22:44 | 108-67-8 | |
| Vinyl acetate | <0.40 | ug/m3 | 1.1 | 0.40 | 1.49 | | 10/18/19 22:44 | 108-05-4 | |
| Vinyl chloride | <0.19 | ug/m3 | 0.39 | 0.19 | 1.49 | | 10/18/19 22:44 | 75-01-4 | |
| m&p-Xylene | 3.1 | ug/m3 | 2.6 | 1.0 | 1.49 | | 10/18/19 22:44 | 179601-23-1 | |
| o-Xylene | 1.3J | ug/m3 | 1.3 | 0.51 | 1.49 | | 10/18/19 22:44 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-7 **Lab ID:** 10495129007 Collected: 10/08/19 09:47 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|------------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 81.6 | ug/m3 | 3.7 | 1.8 | 1.52 | | 10/18/19 23:13 | 67-64-1 | |
| Benzene | 0.33J | ug/m3 | 0.49 | 0.23 | 1.52 | | 10/18/19 23:13 | 71-43-2 | |
| Benzyl chloride | <1.8 | ug/m3 | 4.0 | 1.8 | 1.52 | | 10/18/19 23:13 | 100-44-7 | |
| Bromodichloromethane | <0.56 | ug/m3 | 2.1 | 0.56 | 1.52 | | 10/18/19 23:13 | 75-27-4 | |
| Bromoform | <2.2 | ug/m3 | 8.0 | 2.2 | 1.52 | | 10/18/19 23:13 | 75-25-2 | |
| Bromomethane | <0.35 | ug/m3 | 1.2 | 0.35 | 1.52 | | 10/18/19 23:13 | 74-83-9 | |
| 1,3-Butadiene | <0.19 | ug/m3 | 0.68 | 0.19 | 1.52 | | 10/18/19 23:13 | 106-99-0 | |
| 2-Butanone (MEK) | 14.4 | ug/m3 | 4.6 | 0.56 | 1.52 | | 10/18/19 23:13 | 78-93-3 | |
| Carbon disulfide | <0.33 | ug/m3 | 0.96 | 0.33 | 1.52 | | 10/18/19 23:13 | 75-15-0 | |
| Carbon tetrachloride | <0.65 | ug/m3 | 1.9 | 0.65 | 1.52 | | 10/18/19 23:13 | 56-23-5 | |
| Chlorobenzene | <0.42 | ug/m3 | 1.4 | 0.42 | 1.52 | | 10/18/19 23:13 | 108-90-7 | |
| Chloroethane | <0.40 | ug/m3 | 0.81 | 0.40 | 1.52 | | 10/18/19 23:13 | 75-00-3 | |
| Chloroform | <0.30 | ug/m3 | 0.75 | 0.30 | 1.52 | | 10/18/19 23:13 | 67-66-3 | |
| Chloromethane | <0.24 | ug/m3 | 0.64 | 0.24 | 1.52 | | 10/18/19 23:13 | 74-87-3 | |
| Cyclohexane | <0.54 | ug/m3 | 2.7 | 0.54 | 1.52 | | 10/18/19 23:13 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.6 | 1.1 | 1.52 | | 10/18/19 23:13 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.56 | ug/m3 | 1.2 | 0.56 | 1.52 | | 10/18/19 23:13 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.76 | ug/m3 | 1.9 | 0.76 | 1.52 | | 10/18/19 23:13 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.88 | ug/m3 | 1.9 | 0.88 | 1.52 | | 10/18/19 23:13 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.5 | ug/m3 | 4.7 | 1.5 | 1.52 | | 10/18/19 23:13 | 106-46-7 | |
| Dichlorodifluoromethane | 2.8 | ug/m3 | 1.5 | 0.45 | 1.52 | | 10/18/19 23:13 | 75-71-8 | |
| 1,1-Dichloroethane | <0.34 | ug/m3 | 1.3 | 0.34 | 1.52 | | 10/18/19 23:13 | 75-34-3 | |
| 1,2-Dichloroethane | <0.23 | ug/m3 | 0.62 | 0.23 | 1.52 | | 10/18/19 23:13 | 107-06-2 | |
| 1,1-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.52 | | 10/18/19 23:13 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.33 | ug/m3 | 1.2 | 0.33 | 1.52 | | 10/18/19 23:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.43 | ug/m3 | 1.2 | 0.43 | 1.52 | | 10/18/19 23:13 | 156-60-5 | |
| 1,2-Dichloropropane | <0.35 | ug/m3 | 1.4 | 0.35 | 1.52 | | 10/18/19 23:13 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.46 | ug/m3 | 1.4 | 0.46 | 1.52 | | 10/18/19 23:13 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.67 | ug/m3 | 1.4 | 0.67 | 1.52 | | 10/18/19 23:13 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.66 | ug/m3 | 2.2 | 0.66 | 1.52 | | 10/18/19 23:13 | 76-14-2 | |
| Ethanol | 96.1 | ug/m3 | 2.9 | 1.2 | 1.52 | | 10/18/19 23:13 | 64-17-5 | |
| Ethyl acetate | <0.29 | ug/m3 | 1.1 | 0.29 | 1.52 | | 10/18/19 23:13 | 141-78-6 | |
| Ethylbenzene | 0.66J | ug/m3 | 1.3 | 0.46 | 1.52 | | 10/18/19 23:13 | 100-41-4 | |
| 4-Ethyltoluene | <0.87 | ug/m3 | 3.8 | 0.87 | 1.52 | | 10/18/19 23:13 | 622-96-8 | |
| n-Heptane | <0.58 | ug/m3 | 1.3 | 0.58 | 1.52 | | 10/18/19 23:13 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <3.0 | ug/m3 | 8.2 | 3.0 | 1.52 | | 10/18/19 23:13 | 87-68-3 | |
| n-Hexane | 1.6 | ug/m3 | 1.1 | 0.47 | 1.52 | | 10/18/19 23:13 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.3 | 1.1 | 1.52 | | 10/18/19 23:13 | 591-78-6 | |
| Methylene Chloride | 5.7 | ug/m3 | 5.4 | 1.8 | 1.52 | | 10/18/19 23:13 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.79 | ug/m3 | 6.3 | 0.79 | 1.52 | | 10/18/19 23:13 | 108-10-1 | |
| Methyl-tert-butyl ether | <1.0 | ug/m3 | 5.6 | 1.0 | 1.52 | | 10/18/19 23:13 | 1634-04-4 | |
| Naphthalene | <2.0 | ug/m3 | 4.0 | 2.0 | 1.52 | | 10/18/19 23:13 | 91-20-3 | |
| 2-Propanol | 59.9 | ug/m3 | 3.8 | 1.1 | 1.52 | | 10/18/19 23:13 | 67-63-0 | |
| Propylene | <0.21 | ug/m3 | 0.53 | 0.21 | 1.52 | | 10/18/19 23:13 | 115-07-1 | |
| Styrene | <0.52 | ug/m3 | 1.3 | 0.52 | 1.52 | | 10/18/19 23:13 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.47 | ug/m3 | 1.1 | 0.47 | 1.52 | | 10/18/19 23:13 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-7 Lab ID: **10495129007** Collected: 10/08/19 09:47 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 4.4 | ug/m3 | 1.0 | 0.48 | 1.52 | | 10/18/19 23:13 | 127-18-4 | |
| Tetrahydrofuran | <0.40 | ug/m3 | 0.91 | 0.40 | 1.52 | | 10/18/19 23:13 | 109-99-9 | |
| Toluene | 1.7 | ug/m3 | 1.2 | 0.53 | 1.52 | | 10/18/19 23:13 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.7 | ug/m3 | 11.5 | 5.7 | 1.52 | | 10/18/19 23:13 | 120-82-1 | |
| 1,1,1-Trichloroethane | 0.60J | ug/m3 | 1.7 | 0.47 | 1.52 | | 10/18/19 23:13 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.37 | ug/m3 | 0.84 | 0.37 | 1.52 | | 10/18/19 23:13 | 79-00-5 | |
| Trichloroethene | 0.96 | ug/m3 | 0.83 | 0.38 | 1.52 | | 10/18/19 23:13 | 79-01-6 | |
| Trichlorofluoromethane | 1.6J | ug/m3 | 1.7 | 0.56 | 1.52 | | 10/18/19 23:13 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.86 | ug/m3 | 2.4 | 0.86 | 1.52 | | 10/18/19 23:13 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.0J | ug/m3 | 1.5 | 0.69 | 1.52 | | 10/18/19 23:13 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.61 | ug/m3 | 1.5 | 0.61 | 1.52 | | 10/18/19 23:13 | 108-67-8 | |
| Vinyl acetate | <0.41 | ug/m3 | 1.1 | 0.41 | 1.52 | | 10/18/19 23:13 | 108-05-4 | |
| Vinyl chloride | <0.19 | ug/m3 | 0.40 | 0.19 | 1.52 | | 10/18/19 23:13 | 75-01-4 | |
| m&p-Xylene | 2.0J | ug/m3 | 2.7 | 1.1 | 1.52 | | 10/18/19 23:13 | 179601-23-1 | |
| o-Xylene | 0.83J | ug/m3 | 1.3 | 0.52 | 1.52 | | 10/18/19 23:13 | 95-47-6 | |

Sample: VP-8 Lab ID: **10495129008** Collected: 10/08/19 10:12 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 97.5 | ug/m3 | 3.4 | 1.7 | 1.41 | | 10/18/19 23:42 | 67-64-1 | |
| Benzene | 1.9 | ug/m3 | 0.46 | 0.22 | 1.41 | | 10/18/19 23:42 | 71-43-2 | |
| Benzyl chloride | <1.7 | ug/m3 | 3.7 | 1.7 | 1.41 | | 10/18/19 23:42 | 100-44-7 | |
| Bromodichloromethane | <0.52 | ug/m3 | 1.9 | 0.52 | 1.41 | | 10/18/19 23:42 | 75-27-4 | |
| Bromoform | <2.0 | ug/m3 | 7.4 | 2.0 | 1.41 | | 10/18/19 23:42 | 75-25-2 | |
| Bromomethane | <0.32 | ug/m3 | 1.1 | 0.32 | 1.41 | | 10/18/19 23:42 | 74-83-9 | |
| 1,3-Butadiene | <0.18 | ug/m3 | 0.63 | 0.18 | 1.41 | | 10/18/19 23:42 | 106-99-0 | |
| 2-Butanone (MEK) | 5.0 | ug/m3 | 4.2 | 0.52 | 1.41 | | 10/18/19 23:42 | 78-93-3 | |
| Carbon disulfide | <0.31 | ug/m3 | 0.89 | 0.31 | 1.41 | | 10/18/19 23:42 | 75-15-0 | |
| Carbon tetrachloride | <0.60 | ug/m3 | 1.8 | 0.60 | 1.41 | | 10/18/19 23:42 | 56-23-5 | |
| Chlorobenzene | <0.39 | ug/m3 | 1.3 | 0.39 | 1.41 | | 10/18/19 23:42 | 108-90-7 | |
| Chloroethane | <0.37 | ug/m3 | 0.76 | 0.37 | 1.41 | | 10/18/19 23:42 | 75-00-3 | |
| Chloroform | 1.2 | ug/m3 | 0.70 | 0.28 | 1.41 | | 10/18/19 23:42 | 67-66-3 | |
| Chloromethane | <0.22 | ug/m3 | 0.59 | 0.22 | 1.41 | | 10/18/19 23:42 | 74-87-3 | |
| Cyclohexane | 3.2 | ug/m3 | 2.5 | 0.50 | 1.41 | | 10/18/19 23:42 | 110-82-7 | |
| Dibromochloromethane | <1.0 | ug/m3 | 2.4 | 1.0 | 1.41 | | 10/18/19 23:42 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.52 | ug/m3 | 1.1 | 0.52 | 1.41 | | 10/18/19 23:42 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.70 | ug/m3 | 1.7 | 0.70 | 1.41 | | 10/18/19 23:42 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.82 | ug/m3 | 1.7 | 0.82 | 1.41 | | 10/18/19 23:42 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.4 | ug/m3 | 4.3 | 1.4 | 1.41 | | 10/18/19 23:42 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.4 | 0.41 | 1.41 | | 10/18/19 23:42 | 75-71-8 | |
| 1,1-Dichloroethane | 10.7 | ug/m3 | 1.2 | 0.32 | 1.41 | | 10/18/19 23:42 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/m3 | 0.58 | 0.21 | 1.41 | | 10/18/19 23:42 | 107-06-2 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-8 **Lab ID: 10495129008** Collected: 10/08/19 10:12 Received: 10/10/19 11:45 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 | 1.1 | 0.39 | 1.41 | | 10/18/19 23:42 | 75-35-4 | |
| cis-1,2-Dichloroethene | 9.0 | ug/m3 | 1.1 | 0.31 | 1.41 | | 10/18/19 23:42 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.40 | ug/m3 | 1.1 | 0.40 | 1.41 | | 10/18/19 23:42 | 156-60-5 | |
| 1,2-Dichloropropane | <0.32 | ug/m3 | 1.3 | 0.32 | 1.41 | | 10/18/19 23:42 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.43 | ug/m3 | 1.3 | 0.43 | 1.41 | | 10/18/19 23:42 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.62 | ug/m3 | 1.3 | 0.62 | 1.41 | | 10/18/19 23:42 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.62 | ug/m3 | 2.0 | 0.62 | 1.41 | | 10/18/19 23:42 | 76-14-2 | |
| Ethanol | 225 | ug/m3 | 2.7 | 1.1 | 1.41 | | 10/18/19 23:42 | 64-17-5 | |
| Ethyl acetate | <0.27 | ug/m3 | 1.0 | 0.27 | 1.41 | | 10/18/19 23:42 | 141-78-6 | |
| Ethylbenzene | 3.1 | ug/m3 | 1.2 | 0.43 | 1.41 | | 10/18/19 23:42 | 100-41-4 | |
| 4-Ethyltoluene | 1.3J | ug/m3 | 3.5 | 0.80 | 1.41 | | 10/18/19 23:42 | 622-96-8 | |
| n-Heptane | 5.0 | ug/m3 | 1.2 | 0.54 | 1.41 | | 10/18/19 23:42 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.8 | ug/m3 | 7.6 | 2.8 | 1.41 | | 10/18/19 23:42 | 87-68-3 | |
| n-Hexane | 4.6 | ug/m3 | 1.0 | 0.44 | 1.41 | | 10/18/19 23:42 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 5.9 | 1.1 | 1.41 | | 10/18/19 23:42 | 591-78-6 | |
| Methylene Chloride | 2.3J | ug/m3 | 5.0 | 1.7 | 1.41 | | 10/18/19 23:42 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.73 | ug/m3 | 5.9 | 0.73 | 1.41 | | 10/18/19 23:42 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.93 | ug/m3 | 5.2 | 0.93 | 1.41 | | 10/18/19 23:42 | 1634-04-4 | |
| Naphthalene | 2.1J | ug/m3 | 3.8 | 1.8 | 1.41 | | 10/18/19 23:42 | 91-20-3 | |
| 2-Propanol | 63.9 | ug/m3 | 3.5 | 0.98 | 1.41 | | 10/18/19 23:42 | 67-63-0 | |
| Propylene | <0.20 | ug/m3 | 0.49 | 0.20 | 1.41 | | 10/18/19 23:42 | 115-07-1 | |
| Styrene | <0.49 | ug/m3 | 1.2 | 0.49 | 1.41 | | 10/18/19 23:42 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.44 | ug/m3 | 0.98 | 0.44 | 1.41 | | 10/18/19 23:42 | 79-34-5 | |
| Tetrachloroethene | 17.8 | ug/m3 | 0.97 | 0.44 | 1.41 | | 10/18/19 23:42 | 127-18-4 | |
| Tetrahydrofuran | <0.37 | ug/m3 | 0.85 | 0.37 | 1.41 | | 10/18/19 23:42 | 109-99-9 | |
| Toluene | 6.8 | ug/m3 | 1.1 | 0.49 | 1.41 | | 10/18/19 23:42 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.2 | ug/m3 | 10.6 | 5.2 | 1.41 | | 10/18/19 23:42 | 120-82-1 | |
| 1,1,1-Trichloroethane | 175 | ug/m3 | 1.6 | 0.44 | 1.41 | | 10/18/19 23:42 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.34 | ug/m3 | 0.78 | 0.34 | 1.41 | | 10/18/19 23:42 | 79-00-5 | |
| Trichloroethene | 58.8 | ug/m3 | 0.77 | 0.36 | 1.41 | | 10/18/19 23:42 | 79-01-6 | |
| Trichlorofluoromethane | 1.9 | ug/m3 | 1.6 | 0.52 | 1.41 | | 10/18/19 23:42 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | 0.82J | ug/m3 | 2.2 | 0.80 | 1.41 | | 10/18/19 23:42 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 3.3 | ug/m3 | 1.4 | 0.64 | 1.41 | | 10/18/19 23:42 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 1.4 | ug/m3 | 1.4 | 0.56 | 1.41 | | 10/18/19 23:42 | 108-67-8 | |
| Vinyl acetate | <0.38 | ug/m3 | 1.0 | 0.38 | 1.41 | | 10/18/19 23:42 | 108-05-4 | |
| Vinyl chloride | <0.18 | ug/m3 | 0.37 | 0.18 | 1.41 | | 10/18/19 23:42 | 75-01-4 | |
| m&p-Xylene | 5.3 | ug/m3 | 2.5 | 0.99 | 1.41 | | 10/18/19 23:42 | 179601-23-1 | |
| o-Xylene | 2.3 | ug/m3 | 1.2 | 0.49 | 1.41 | | 10/18/19 23:42 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-9 **Lab ID: 10495129009** Collected: 10/08/19 10:36 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|------|------|------|----------|----------------|------------|------|
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 65.8 | ug/m3 | 3.5 | 1.7 | 1.44 | | 10/19/19 00:11 | 67-64-1 | |
| Benzene | 1.4 | ug/m3 | 0.47 | 0.22 | 1.44 | | 10/19/19 00:11 | 71-43-2 | |
| Benzyl chloride | <1.7 | ug/m3 | 3.8 | 1.7 | 1.44 | | 10/19/19 00:11 | 100-44-7 | |
| Bromodichloromethane | <0.53 | ug/m3 | 2.0 | 0.53 | 1.44 | | 10/19/19 00:11 | 75-27-4 | |
| Bromoform | <2.0 | ug/m3 | 7.6 | 2.0 | 1.44 | | 10/19/19 00:11 | 75-25-2 | |
| Bromomethane | <0.33 | ug/m3 | 1.1 | 0.33 | 1.44 | | 10/19/19 00:11 | 74-83-9 | |
| 1,3-Butadiene | <0.18 | ug/m3 | 0.65 | 0.18 | 1.44 | | 10/19/19 00:11 | 106-99-0 | |
| 2-Butanone (MEK) | 2.8J | ug/m3 | 4.3 | 0.53 | 1.44 | | 10/19/19 00:11 | 78-93-3 | |
| Carbon disulfide | <0.32 | ug/m3 | 0.91 | 0.32 | 1.44 | | 10/19/19 00:11 | 75-15-0 | |
| Carbon tetrachloride | <0.62 | ug/m3 | 1.8 | 0.62 | 1.44 | | 10/19/19 00:11 | 56-23-5 | |
| Chlorobenzene | <0.40 | ug/m3 | 1.3 | 0.40 | 1.44 | | 10/19/19 00:11 | 108-90-7 | |
| Chloroethane | <0.37 | ug/m3 | 0.77 | 0.37 | 1.44 | | 10/19/19 00:11 | 75-00-3 | |
| Chloroform | <0.28 | ug/m3 | 0.71 | 0.28 | 1.44 | | 10/19/19 00:11 | 67-66-3 | |
| Chloromethane | 1.1 | ug/m3 | 0.60 | 0.22 | 1.44 | | 10/19/19 00:11 | 74-87-3 | |
| Cyclohexane | 2.9 | ug/m3 | 2.5 | 0.51 | 1.44 | | 10/19/19 00:11 | 110-82-7 | |
| Dibromochloromethane | <1.0 | ug/m3 | 2.5 | 1.0 | 1.44 | | 10/19/19 00:11 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.53 | ug/m3 | 1.1 | 0.53 | 1.44 | | 10/19/19 00:11 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.72 | ug/m3 | 1.8 | 0.72 | 1.44 | | 10/19/19 00:11 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.84 | ug/m3 | 1.8 | 0.84 | 1.44 | | 10/19/19 00:11 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.4 | ug/m3 | 4.4 | 1.4 | 1.44 | | 10/19/19 00:11 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.5 | 0.42 | 1.44 | | 10/19/19 00:11 | 75-71-8 | |
| 1,1-Dichloroethane | <0.32 | ug/m3 | 1.2 | 0.32 | 1.44 | | 10/19/19 00:11 | 75-34-3 | |
| 1,2-Dichloroethane | <0.22 | ug/m3 | 0.59 | 0.22 | 1.44 | | 10/19/19 00:11 | 107-06-2 | |
| 1,1-Dichloroethene | <0.39 | ug/m3 | 1.2 | 0.39 | 1.44 | | 10/19/19 00:11 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.32 | ug/m3 | 1.2 | 0.32 | 1.44 | | 10/19/19 00:11 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.41 | ug/m3 | 1.2 | 0.41 | 1.44 | | 10/19/19 00:11 | 156-60-5 | |
| 1,2-Dichloropropane | <0.33 | ug/m3 | 1.4 | 0.33 | 1.44 | | 10/19/19 00:11 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.44 | ug/m3 | 1.3 | 0.44 | 1.44 | | 10/19/19 00:11 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.63 | ug/m3 | 1.3 | 0.63 | 1.44 | | 10/19/19 00:11 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.63 | ug/m3 | 2.0 | 0.63 | 1.44 | | 10/19/19 00:11 | 76-14-2 | |
| Ethanol | 81.5 | ug/m3 | 2.8 | 1.2 | 1.44 | | 10/19/19 00:11 | 64-17-5 | |
| Ethyl acetate | <0.27 | ug/m3 | 1.1 | 0.27 | 1.44 | | 10/19/19 00:11 | 141-78-6 | |
| Ethylbenzene | 1.4 | ug/m3 | 1.3 | 0.44 | 1.44 | | 10/19/19 00:11 | 100-41-4 | |
| 4-Ethyltoluene | <0.82 | ug/m3 | 3.6 | 0.82 | 1.44 | | 10/19/19 00:11 | 622-96-8 | |
| n-Heptane | 3.6 | ug/m3 | 1.2 | 0.55 | 1.44 | | 10/19/19 00:11 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.8 | ug/m3 | 7.8 | 2.8 | 1.44 | | 10/19/19 00:11 | 87-68-3 | |
| n-Hexane | 4.1 | ug/m3 | 1.0 | 0.45 | 1.44 | | 10/19/19 00:11 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.0 | 1.1 | 1.44 | | 10/19/19 00:11 | 591-78-6 | |
| Methylene Chloride | 2.3J | ug/m3 | 5.1 | 1.7 | 1.44 | | 10/19/19 00:11 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.75 | ug/m3 | 6.0 | 0.75 | 1.44 | | 10/19/19 00:11 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.95 | ug/m3 | 5.3 | 0.95 | 1.44 | | 10/19/19 00:11 | 1634-04-4 | |
| Naphthalene | 2.0J | ug/m3 | 3.8 | 1.9 | 1.44 | | 10/19/19 00:11 | 91-20-3 | |
| 2-Propanol | 51.4 | ug/m3 | 3.6 | 1.0 | 1.44 | | 10/19/19 00:11 | 67-63-0 | |
| Propylene | <0.20 | ug/m3 | 0.50 | 0.20 | 1.44 | | 10/19/19 00:11 | 115-07-1 | |
| Styrene | <0.50 | ug/m3 | 1.2 | 0.50 | 1.44 | | 10/19/19 00:11 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.44 | ug/m3 | 1.0 | 0.44 | 1.44 | | 10/19/19 00:11 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

Sample: VP-9 **Lab ID: 10495129009** Collected: 10/08/19 10:36 Received: 10/10/19 11:45 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------|-------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 7.5 | ug/m3 | 0.99 | 0.45 | 1.44 | | 10/19/19 00:11 | 127-18-4 | |
| Tetrahydrofuran | <0.38 | ug/m3 | 0.86 | 0.38 | 1.44 | | 10/19/19 00:11 | 109-99-9 | |
| Toluene | 4.0 | ug/m3 | 1.1 | 0.51 | 1.44 | | 10/19/19 00:11 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.4 | ug/m3 | 10.9 | 5.4 | 1.44 | | 10/19/19 00:11 | 120-82-1 | |
| 1,1,1-Trichloroethane | 1.4J | ug/m3 | 1.6 | 0.44 | 1.44 | | 10/19/19 00:11 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.35 | ug/m3 | 0.80 | 0.35 | 1.44 | | 10/19/19 00:11 | 79-00-5 | |
| Trichloroethene | 4.9 | ug/m3 | 0.79 | 0.36 | 1.44 | | 10/19/19 00:11 | 79-01-6 | |
| Trichlorofluoromethane | 1.7 | ug/m3 | 1.6 | 0.53 | 1.44 | | 10/19/19 00:11 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.81 | ug/m3 | 2.2 | 0.81 | 1.44 | | 10/19/19 00:11 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.7 | ug/m3 | 1.4 | 0.65 | 1.44 | | 10/19/19 00:11 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 0.90J | ug/m3 | 1.4 | 0.57 | 1.44 | | 10/19/19 00:11 | 108-67-8 | |
| Vinyl acetate | <0.39 | ug/m3 | 1.0 | 0.39 | 1.44 | | 10/19/19 00:11 | 108-05-4 | |
| Vinyl chloride | <0.18 | ug/m3 | 0.37 | 0.18 | 1.44 | | 10/19/19 00:11 | 75-01-4 | |
| m&p-Xylene | 3.3 | ug/m3 | 2.5 | 1.0 | 1.44 | | 10/19/19 00:11 | 179601-23-1 | |
| o-Xylene | 1.3 | ug/m3 | 1.3 | 0.50 | 1.44 | | 10/19/19 00:11 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18883 MPS-Vaughan Manufac
Pace Project No.: 10495129

QC Batch: 639354 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10495129001, 10495129002, 10495129003, 10495129004, 10495129005, 10495129006, 10495129007, 10495129008, 10495129009

METHOD BLANK: 3445192 Matrix: Air
Associated Lab Samples: 10495129001, 10495129002, 10495129003, 10495129004, 10495129005, 10495129006, 10495129007, 10495129008, 10495129009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | <0.31 | 1.1 | 10/18/19 13:36 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.31 | 0.70 | 10/18/19 13:36 | |
| 1,1,2-Trichloroethane | ug/m3 | <0.24 | 0.56 | 10/18/19 13:36 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | <0.56 | 1.6 | 10/18/19 13:36 | |
| 1,1-Dichloroethane | ug/m3 | <0.22 | 0.82 | 10/18/19 13:36 | |
| 1,1-Dichloroethene | ug/m3 | <0.27 | 0.81 | 10/18/19 13:36 | |
| 1,2,4-Trichlorobenzene | ug/m3 | <3.7 | 7.5 | 10/18/19 13:36 | |
| 1,2,4-Trimethylbenzene | ug/m3 | <0.45 | 1.0 | 10/18/19 13:36 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.37 | 0.78 | 10/18/19 13:36 | |
| 1,2-Dichlorobenzene | ug/m3 | <0.50 | 1.2 | 10/18/19 13:36 | |
| 1,2-Dichloroethane | ug/m3 | <0.15 | 0.41 | 10/18/19 13:36 | |
| 1,2-Dichloropropane | ug/m3 | <0.23 | 0.94 | 10/18/19 13:36 | |
| 1,3,5-Trimethylbenzene | ug/m3 | <0.40 | 1.0 | 10/18/19 13:36 | |
| 1,3-Butadiene | ug/m3 | <0.13 | 0.45 | 10/18/19 13:36 | |
| 1,3-Dichlorobenzene | ug/m3 | <0.58 | 1.2 | 10/18/19 13:36 | |
| 1,4-Dichlorobenzene | ug/m3 | <1.0 | 3.1 | 10/18/19 13:36 | |
| 2-Butanone (MEK) | ug/m3 | <0.37 | 3.0 | 10/18/19 13:36 | |
| 2-Hexanone | ug/m3 | <0.74 | 4.2 | 10/18/19 13:36 | |
| 2-Propanol | ug/m3 | <0.70 | 2.5 | 10/18/19 13:36 | |
| 4-Ethyltoluene | ug/m3 | <0.57 | 2.5 | 10/18/19 13:36 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | <0.52 | 4.2 | 10/18/19 13:36 | |
| Acetone | ug/m3 | <1.2 | 2.4 | 10/18/19 13:36 | |
| Benzene | ug/m3 | <0.15 | 0.32 | 10/18/19 13:36 | |
| Benzyl chloride | ug/m3 | <1.2 | 2.6 | 10/18/19 13:36 | |
| Bromodichloromethane | ug/m3 | <0.37 | 1.4 | 10/18/19 13:36 | |
| Bromoform | ug/m3 | <1.4 | 5.2 | 10/18/19 13:36 | |
| Bromomethane | ug/m3 | <0.23 | 0.79 | 10/18/19 13:36 | |
| Carbon disulfide | ug/m3 | <0.22 | 0.63 | 10/18/19 13:36 | |
| Carbon tetrachloride | ug/m3 | <0.43 | 1.3 | 10/18/19 13:36 | |
| Chlorobenzene | ug/m3 | <0.28 | 0.94 | 10/18/19 13:36 | |
| Chloroethane | ug/m3 | <0.26 | 0.54 | 10/18/19 13:36 | |
| Chloroform | ug/m3 | <0.20 | 0.50 | 10/18/19 13:36 | |
| Chloromethane | ug/m3 | <0.16 | 0.42 | 10/18/19 13:36 | |
| cis-1,2-Dichloroethene | ug/m3 | <0.22 | 0.81 | 10/18/19 13:36 | |
| cis-1,3-Dichloropropene | ug/m3 | <0.30 | 0.92 | 10/18/19 13:36 | |
| Cyclohexane | ug/m3 | <0.35 | 1.8 | 10/18/19 13:36 | |
| Dibromochloromethane | ug/m3 | <0.72 | 1.7 | 10/18/19 13:36 | |
| Dichlorodifluoromethane | ug/m3 | <0.29 | 1.0 | 10/18/19 13:36 | |
| Dichlorotetrafluoroethane | ug/m3 | <0.44 | 1.4 | 10/18/19 13:36 | |
| Ethanol | ug/m3 | <0.81 | 1.9 | 10/18/19 13:36 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18883 MPS-Vaughan Manufac
Pace Project No.: 10495129

METHOD BLANK: 3445192

Matrix: Air

Associated Lab Samples: 10495129001, 10495129002, 10495129003, 10495129004, 10495129005, 10495129006, 10495129007, 10495129008, 10495129009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethyl acetate | ug/m3 | <0.19 | 0.73 | 10/18/19 13:36 | |
| Ethylbenzene | ug/m3 | <0.30 | 0.88 | 10/18/19 13:36 | |
| Hexachloro-1,3-butadiene | ug/m3 | <2.0 | 5.4 | 10/18/19 13:36 | |
| m&p-Xylene | ug/m3 | <0.70 | 1.8 | 10/18/19 13:36 | |
| Methyl-tert-butyl ether | ug/m3 | <0.66 | 3.7 | 10/18/19 13:36 | |
| Methylene Chloride | ug/m3 | <1.2 | 3.5 | 10/18/19 13:36 | |
| n-Heptane | ug/m3 | <0.38 | 0.83 | 10/18/19 13:36 | |
| n-Hexane | ug/m3 | <0.31 | 0.72 | 10/18/19 13:36 | |
| Naphthalene | ug/m3 | <1.3 | 2.7 | 10/18/19 13:36 | |
| o-Xylene | ug/m3 | <0.34 | 0.88 | 10/18/19 13:36 | |
| Propylene | ug/m3 | <0.14 | 0.35 | 10/18/19 13:36 | |
| Styrene | ug/m3 | <0.34 | 0.87 | 10/18/19 13:36 | |
| Tetrachloroethene | ug/m3 | <0.31 | 0.69 | 10/18/19 13:36 | |
| Tetrahydrofuran | ug/m3 | <0.26 | 0.60 | 10/18/19 13:36 | |
| Toluene | ug/m3 | <0.35 | 0.77 | 10/18/19 13:36 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.28 | 0.81 | 10/18/19 13:36 | |
| trans-1,3-Dichloropropene | ug/m3 | <0.44 | 0.92 | 10/18/19 13:36 | |
| Trichloroethene | ug/m3 | <0.25 | 0.55 | 10/18/19 13:36 | |
| Trichlorofluoromethane | ug/m3 | <0.37 | 1.1 | 10/18/19 13:36 | |
| Vinyl acetate | ug/m3 | <0.27 | 0.72 | 10/18/19 13:36 | |
| Vinyl chloride | ug/m3 | <0.13 | 0.26 | 10/18/19 13:36 | |

LABORATORY CONTROL SAMPLE: 3445193

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 56.6 | 57.8 | 102 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 69.8 | 64.3 | 92 | 70-132 | |
| 1,1,2-Trichloroethane | ug/m3 | 58.2 | 55.3 | 95 | 70-130 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 84.9 | 65.0 | 77 | 70-130 | |
| 1,1-Dichloroethane | ug/m3 | 42.4 | 40.2 | 95 | 70-130 | |
| 1,1-Dichloroethene | ug/m3 | 43.5 | 37.2 | 86 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/m3 | 74.7 | 64.8 | 87 | 56-130 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 53 | 51.1 | 96 | 70-134 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | 83.6 | 84.7 | 101 | 70-130 | |
| 1,2-Dichlorobenzene | ug/m3 | 59.9 | 64.4 | 108 | 70-132 | |
| 1,2-Dichloroethane | ug/m3 | 42.8 | 43.9 | 103 | 70-130 | |
| 1,2-Dichloropropane | ug/m3 | 48.4 | 47.7 | 99 | 70-130 | |
| 1,3,5-Trimethylbenzene | ug/m3 | 53.5 | 50.8 | 95 | 70-132 | |
| 1,3-Butadiene | ug/m3 | 22.5 | 22.0 | 98 | 65-130 | |
| 1,3-Dichlorobenzene | ug/m3 | 65.4 | 61.4 | 94 | 70-137 | |
| 1,4-Dichlorobenzene | ug/m3 | 65.4 | 66.8 | 102 | 70-134 | |
| 2-Butanone (MEK) | ug/m3 | 32.4 | 30.4 | 94 | 70-130 | |
| 2-Hexanone | ug/m3 | 42.9 | 41.5 | 97 | 70-135 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

LABORATORY CONTROL SAMPLE: 3445193

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Propanol | ug/m3 | 26.5 | 32.8 | 124 | 68-130 | |
| 4-Ethyltoluene | ug/m3 | 52 | 50.2 | 97 | 70-138 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | 42 | 44.7 | 106 | 70-131 | |
| Acetone | ug/m3 | 26.6 | 27.2 | 103 | 67-130 | |
| Benzene | ug/m3 | 34.4 | 32.8 | 95 | 70-130 | |
| Benzyl chloride | ug/m3 | 56.3 | 49.7 | 88 | 70-130 | |
| Bromodichloromethane | ug/m3 | 69.5 | 68.6 | 99 | 70-130 | |
| Bromoform | ug/m3 | 97.7 | 71.4 | 73 | 70-132 | |
| Bromomethane | ug/m3 | 40.6 | 39.2 | 96 | 69-130 | |
| Carbon disulfide | ug/m3 | 32.9 | 31.1 | 95 | 56-137 | |
| Carbon tetrachloride | ug/m3 | 65.9 | 61.3 | 93 | 66-131 | |
| Chlorobenzene | ug/m3 | 49.6 | 46.6 | 94 | 70-130 | |
| Chloroethane | ug/m3 | 26.8 | 27.8 | 104 | 70-130 | |
| Chloroform | ug/m3 | 52.6 | 50.9 | 97 | 70-130 | |
| Chloromethane | ug/m3 | 22.2 | 19.9 | 90 | 66-130 | |
| cis-1,2-Dichloroethene | ug/m3 | 41.9 | 39.3 | 94 | 70-130 | |
| cis-1,3-Dichloropropene | ug/m3 | 48 | 45.0 | 94 | 70-133 | |
| Cyclohexane | ug/m3 | 35.3 | 36.6 | 104 | 68-132 | |
| Dibromochloromethane | ug/m3 | 90 | 78.4 | 87 | 70-130 | |
| Dichlorodifluoromethane | ug/m3 | 52.8 | 47.5 | 90 | 70-130 | |
| Dichlorotetrafluoroethane | ug/m3 | 74.6 | 70.4 | 94 | 70-130 | |
| Ethanol | ug/m3 | 21.1 | 27.9 | 132 | 68-133 | |
| Ethyl acetate | ug/m3 | 38.8 | 34.0 | 88 | 69-130 | |
| Ethylbenzene | ug/m3 | 45.5 | 50.2 | 111 | 67-131 | |
| Hexachloro-1,3-butadiene | ug/m3 | 108 | 107 | 99 | 66-137 | |
| m&p-Xylene | ug/m3 | 45.9 | 56.0 | 122 | 70-132 | |
| Methyl-tert-butyl ether | ug/m3 | 37.4 | 37.7 | 101 | 70-130 | |
| Methylene Chloride | ug/m3 | 38.1 | 46.6 | 122 | 65-130 | |
| n-Heptane | ug/m3 | 43.7 | 42.3 | 97 | 65-130 | |
| n-Hexane | ug/m3 | 37.6 | 32.8 | 87 | 66-130 | |
| Naphthalene | ug/m3 | 52.7 | 38.5 | 73 | 56-130 | |
| o-Xylene | ug/m3 | 44.1 | 46.8 | 106 | 70-130 | |
| Propylene | ug/m3 | 19.2 | 15.6 | 81 | 67-130 | |
| Styrene | ug/m3 | 44.2 | 43.0 | 97 | 69-136 | |
| Tetrachloroethene | ug/m3 | 70.3 | 72.2 | 103 | 70-130 | |
| Tetrahydrofuran | ug/m3 | 30.3 | 34.2 | 113 | 68-131 | |
| Toluene | ug/m3 | 39.4 | 40.3 | 102 | 70-130 | |
| trans-1,2-Dichloroethene | ug/m3 | 41.5 | 38.5 | 93 | 70-130 | |
| trans-1,3-Dichloropropene | ug/m3 | 44.8 | 47.5 | 106 | 70-134 | |
| Trichloroethene | ug/m3 | 56.3 | 63.8 | 113 | 70-130 | |
| Trichlorofluoromethane | ug/m3 | 58.8 | 58.0 | 98 | 65-130 | |
| Vinyl acetate | ug/m3 | 35.1 | 22.6 | 64 | 61-133 | |
| Vinyl chloride | ug/m3 | 28.1 | 27.9 | 100 | 70-130 | |

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QUALITY CONTROL DATA

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

SAMPLE DUPLICATE: 3445967

| Parameter | Units | 10494193011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 3.8 | 3.7 | 4 | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | <0.52 | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | <0.41 | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 4.9 | 4.8 | 3 | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | 0.64J | | 25 | |
| 1,1-Dichloroethene | ug/m3 | ND | <0.46 | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | <6.2 | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | 0.89J | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | <0.61 | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | <0.84 | | 25 | |
| 1,2-Dichloroethane | ug/m3 | ND | <0.25 | | 25 | |
| 1,2-Dichloropropane | ug/m3 | ND | <0.39 | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | <0.67 | | 25 | |
| 1,3-Butadiene | ug/m3 | ND | <0.22 | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | <0.98 | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | <1.7 | | 25 | |
| 2-Butanone (MEK) | ug/m3 | 9.4 | 9.7 | 3 | 25 | |
| 2-Hexanone | ug/m3 | ND | <1.3 | | 25 | |
| 2-Propanol | ug/m3 | 75.2 | 76.2 | 1 | 25 | |
| 4-Ethyltoluene | ug/m3 | ND | <0.96 | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | 1.3J | | 25 | |
| Acetone | ug/m3 | 40.8 | 41.7 | 2 | 25 | |
| Benzene | ug/m3 | ND | 0.44J | | 25 | |
| Benzyl chloride | ug/m3 | ND | <2.0 | | 25 | |
| Bromodichloromethane | ug/m3 | ND | 1.3J | | 25 | |
| Bromoform | ug/m3 | ND | <2.4 | | 25 | |
| Bromomethane | ug/m3 | ND | <0.38 | | 25 | |
| Carbon disulfide | ug/m3 | ND | 0.49J | | 25 | |
| Carbon tetrachloride | ug/m3 | ND | <0.72 | | 25 | |
| Chlorobenzene | ug/m3 | ND | <0.46 | | 25 | |
| Chloroethane | ug/m3 | ND | <0.44 | | 25 | |
| Chloroform | ug/m3 | 90.2 | 90.4 | 0 | 25 | |
| Chloromethane | ug/m3 | 1.2 | 1.2 | 0 | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.89J | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | <0.51 | | 25 | |
| Cyclohexane | ug/m3 | ND | 2.1J | | 25 | |
| Dibromochloromethane | ug/m3 | ND | <1.2 | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 8.1 | 8.1 | 0 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | <0.73 | | 25 | |
| Ethanol | ug/m3 | 35.2 | 36.9 | 5 | 25 | |
| Ethyl acetate | ug/m3 | 13.0 | 13.2 | 1 | 25 | |
| Ethylbenzene | ug/m3 | ND | 1.3J | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | <3.3 | | 25 | |
| m&p-Xylene | ug/m3 | 3.9 | 4.1 | 5 | 25 | |
| Methyl-tert-butyl ether | ug/m3 | ND | <1.1 | | 25 | |
| Methylene Chloride | ug/m3 | 158 | 122 | 26 | 25 | R1 |
| n-Heptane | ug/m3 | 3.8 | 4.1 | 7 | 25 | |

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QUALITY CONTROL DATA

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

SAMPLE DUPLICATE: 3445967

| Parameter | Units | 10494193011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| n-Hexane | ug/m3 | 5.1 | 5.1 | 0 | 25 | |
| Naphthalene | ug/m3 | ND | <2.2 | | 25 | |
| o-Xylene | ug/m3 | 1.6 | 1.7 | 3 | 25 | |
| Propylene | ug/m3 | ND | <0.24 | | 25 | |
| Styrene | ug/m3 | ND | 1.4J | | 25 | |
| Tetrachloroethene | ug/m3 | 53.1 | 53.0 | 0 | 25 | |
| Tetrahydrofuran | ug/m3 | ND | <0.44 | | 25 | |
| Toluene | ug/m3 | 28.2 | 28.4 | 1 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | <0.48 | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | <0.74 | | 25 | |
| Trichloroethene | ug/m3 | 41.2 | 40.7 | 1 | 25 | |
| Trichlorofluoromethane | ug/m3 | 2.9 | 3.1 | 8 | 25 | |
| Vinyl acetate | ug/m3 | ND | <0.45 | | 25 | |
| Vinyl chloride | ug/m3 | ND | <0.21 | | 25 | |

SAMPLE DUPLICATE: 3445968

| Parameter | Units | 10494193008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | 1.6J | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | <0.52 | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | <0.41 | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | <0.95 | | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | <0.38 | | 25 | |
| 1,1-Dichloroethene | ug/m3 | ND | <0.46 | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | <6.2 | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | <0.76 | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | <0.61 | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | <0.84 | | 25 | |
| 1,2-Dichloroethane | ug/m3 | ND | <0.25 | | 25 | |
| 1,2-Dichloropropane | ug/m3 | ND | <0.39 | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | <0.67 | | 25 | |
| 1,3-Butadiene | ug/m3 | ND | <0.22 | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | <0.98 | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | <1.7 | | 25 | |
| 2-Butanone (MEK) | ug/m3 | 22.2 | 22.6 | 2 | 25 | |
| 2-Hexanone | ug/m3 | ND | <1.3 | | 25 | |
| 2-Propanol | ug/m3 | 287 | 279 | 3 | 25 | |
| 4-Ethyltoluene | ug/m3 | ND | <0.96 | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | <0.87 | | 25 | |
| Acetone | ug/m3 | 34.6 | 33.8 | 2 | 25 | |
| Benzene | ug/m3 | ND | <0.26 | | 25 | |
| Benzyl chloride | ug/m3 | ND | <2.0 | | 25 | |
| Bromodichloromethane | ug/m3 | ND | <0.61 | | 25 | |
| Bromoform | ug/m3 | ND | <2.4 | | 25 | |
| Bromomethane | ug/m3 | ND | <0.38 | | 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: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

SAMPLE DUPLICATE: 3445968

| Parameter | Units | 10494193008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Carbon disulfide | ug/m3 | ND | <0.37 | | 25 | |
| Carbon tetrachloride | ug/m3 | ND | <0.72 | | 25 | |
| Chlorobenzene | ug/m3 | ND | <0.46 | | 25 | |
| Chloroethane | ug/m3 | ND | <0.44 | | 25 | |
| Chloroform | ug/m3 | 7.9 | 8.0 | 2 | 25 | |
| Chloromethane | ug/m3 | ND | 0.66J | | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | <0.37 | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | <0.51 | | 25 | |
| Cyclohexane | ug/m3 | ND | 2.5J | | 25 | |
| Dibromochloromethane | ug/m3 | ND | <1.2 | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 2.6 | 2.6 | 1 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | <0.73 | | 25 | |
| Ethanol | ug/m3 | 121 | 115 | 5 | 25 | |
| Ethyl acetate | ug/m3 | 2.7 | 2.7 | 1 | 25 | |
| Ethylbenzene | ug/m3 | ND | 0.52J | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | <3.3 | | 25 | |
| m&p-Xylene | ug/m3 | ND | 2.2J | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | ND | <1.1 | | 25 | |
| Methylene Chloride | ug/m3 | 261 | 209 | 22 | 25 | |
| n-Heptane | ug/m3 | ND | <0.64 | | 25 | |
| n-Hexane | ug/m3 | ND | 1.1J | | 25 | |
| Naphthalene | ug/m3 | ND | <2.2 | | 25 | |
| o-Xylene | ug/m3 | ND | 0.71J | | 25 | |
| Propylene | ug/m3 | ND | <0.24 | | 25 | |
| Styrene | ug/m3 | ND | <0.58 | | 25 | |
| Tetrachloroethene | ug/m3 | 4.0 | 4.2 | 6 | 25 | |
| Tetrahydrofuran | ug/m3 | ND | <0.44 | | 25 | |
| Toluene | ug/m3 | 10.4 | 10.4 | 0 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | <0.48 | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | <0.74 | | 25 | |
| Trichloroethene | ug/m3 | 9.2 | 9.3 | 2 | 25 | |
| Trichlorofluoromethane | ug/m3 | ND | 1.8J | | 25 | |
| Vinyl acetate | ug/m3 | ND | <0.45 | | 25 | |
| Vinyl chloride | ug/m3 | ND | <0.21 | | 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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QUALIFIERS

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18883 MPS-Vaughan Manufac

Pace Project No.: 10495129

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 10495129001 | VP-1 | TO-15 | 639354 | | |
| 10495129002 | VP-2 | TO-15 | 639354 | | |
| 10495129003 | VP-3 | TO-15 | 639354 | | |
| 10495129004 | VP-4 | TO-15 | 639354 | | |
| 10495129005 | VP-5 | TO-15 | 639354 | | |
| 10495129006 | VP-6 | TO-15 | 639354 | | |
| 10495129007 | VP-7 | TO-15 | 639354 | | |
| 10495129008 | VP-8 | TO-15 | 639354 | | |
| 10495129009 | VP-9 | TO-15 | 639354 | | |

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / A

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

WO#: 10495129



45756

Page: 1 of 1

| | | |
|--|---|--|
| Section A Required Client Information: | Section B Required Project Information: | Section C Invoice Information: |
| Company: THE SIGMA GROUP, INC | Report To: smeeer@thesigmagroup.com | Attention: Stephen Meier |
| Address: 1300 W CANAL STREET MILWAUKEE WI 53233 | Copy To: epencake@thesigmagroup.com | Company Name: The Sigma Group, Inc |
| Email To: smeeer@thesigmagroup.com | Purchase Order No.: | Address: 1300 W Canal Street, Milwaukee, WI |
| Phone: 414 643 4200 Fax: 414 643 4210 | Project Name: MPS - Vaughan Manufacturing | Pace Quote Reference: |
| Requested Due Date/TAT: | Project Number: 18883 | Pace Project Manager/Sales Rep. |
| | | Pace Profile #: 18109 |

| | |
|---|--|
| Program | |
| <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act | <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other State |
| Location of Sampling by State: WI | Reporting Units ug/m ³ <input checked="" type="checkbox"/> mg/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other <input type="checkbox"/> |
| Report Level: <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other <input type="checkbox"/> | |

| ITEM # | 'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE | Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10 | MEDIA CODE | PID Reading (Client only) | COLLECTED | | | | Canister Pressure (Initial Field - in Hg) | Canister Pressure (Final Field - in Hg) | Summa Can Number | Flow Control Number | Method: | | | | | | | | Pace Lab ID |
|--------|---|---|------------|---------------------------|-----------------|------|----------------------|-------|--|--|------------------------|---------------------------|--------------------|-----------|-----------------|-------|----------------------|-----------------------|------------------------------|-----|-------------|
| | | | | | COMPOSITE START | | COMPOSITE - END/GRAB | | | | | | 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 | | |
| | | | | | DATE | TIME | DATE | TIME | | | | | | | | | | | | | |
| 1 | VP-1 | 6LC | | | 10/8 | 5:30 | 10/8 | 6:07 | -30 | -4 | 0690 | 0921 | | | | | | | | 001 | |
| 2 | VP-2 | 6LC | | | 10/8 | 6:19 | 10/8 | 6:59 | -27 | -4 | 3483 | 0714 | | | | | | | | 002 | |
| 3 | VP-3 | 6LC | | | 10/8 | 6:53 | 10/8 | 7:30 | -29 | -4 | 1474 | 0953 | | | | | | | | 003 | |
| 4 | VP-4 | 6LC | | | 10/8 | 7:40 | 10/8 | 8:17 | -30 | -4 | 0567 | 2853 | | | | | | | | 004 | |
| 5 | VP-5 | 6LC | | | 10/8 | 8:08 | 10/8 | 8:45 | -29 | -2.5 | 1858 | 2837 | | | | | | | | 005 | |
| 6 | VP-6 | 6LC | | | 10/8 | 8:35 | 10/8 | 9:13 | -29.5 | -3.5 | 0146 | 2855 | | | | | | | | 006 | |
| 7 | VP-7 | 6LC | | | 10/8 | 9:09 | 10/8 | 9:47 | -29 | -3 | 1530 | 1586 | | | | | | | | 007 | |
| 8 | VP-8 | 6LC | | | 10/8 | 9:30 | 10/8 | 10:12 | -29 | -1 | 3533 | 1648 | | | | | | | | 008 | |
| 9 | VP-9 | 6LC | | | 10/8 | 9:56 | 10/8 | 10:36 | -29 | -2.5 | 0578 | 1901 | | | | | | | | 009 | |

| | | | | | | | | | | |
|-----------|-------------------------------|----------|----------|---------------------------|----------|-------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Comments: | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
| | <i>WJ SPK</i> | 10/09/19 | 10:45 AM | <i>WJ SPK Pace</i> | 10/10/19 | 11:45 | - | <input checked="" type="checkbox"/> Y | <input checked="" type="checkbox"/> Y | <input checked="" type="checkbox"/> Y |

| | | | | | |
|--|---|------------|-----------------|-----------------------|----------------|
| SAMPLER NAME AND SIGNATURE | | Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact |
| PRINT Name of SAMPLER: EDWARD PENCAK | | | | | |
| SIGNATURE of SAMPLER: <i>WJ SPK</i> | DATE Signed (MM / DD / YY) 10/09/19 | | | | |

ORIGINAL

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Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.18

Document Revised: 31Jan2019
Page 1 of 1
Issuing Authority:

WO# : 10495129

PM: KNH

Due Date: 10/17/19

CLIENT: SIGMA ENV

Air Sample Condition Upon Receipt

Client Name:
The Sigma Group

Project #:

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

Tracking Number: 1083 0280 6391/2754/6390

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

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

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

Thermometer Used: G87A9170600254
 G87A9155100842

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

Date & Initials of Person Examining Contents: WD 10/10/19

Type of ice Received Blue Wet None

Comments:

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

Samples Received: _____ Pressure Gauge # 10AIR34 10AIR35 10AIR26

| Canisters | | | | | Canisters | | | | |
|---------------|--------|-----------------|------------------|----------------|---------------|--------|-----------------|------------------|----------------|
| Sample Number | Can ID | Flow Controller | Initial Pressure | Final Pressure | Sample Number | Can ID | Flow Controller | Initial Pressure | Final Pressure |
| VP-1 | 0690 | 0921 | -4 | +5 | VP-9 | 0578 | 1901 | -2 | +5 |
| VP-2 | 3483 | 0719 | -4 | " | | | | | |
| VP-3 | 1474 | 0953 | -3 | " | | | | | |
| VP-4 | 0567 | 2853 | -3 | " | | | | | |
| VP-5 | 1586 | 2837 | -3 | " | | | | | |
| VP-6 | 0146 | 2855 | -3.5 | " | | | | | |
| VP-7 | 1530 | 1586 | -3.5 | " | | | | | |
| VP-8 | 3533 | 1648 | -1.5 | " | | | | | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Kirsten Hooper

Date: 10/11/2019

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

