

12/4/2017

Mr. Gustan Taylor
Arcadis U.S., Inc.
28550 Cabot Dr.
Suite 500
Novi MI 48377

Project Name: FORD LTP
Project #: MI001386.0001.00002
Workorder #: 1711413R1

Dear Mr. Gustan Taylor

The following report includes the data for the above referenced project for sample(s) received on 11/22/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1711413R1

Work Order Summary

CLIENT: Mr. Gustan Taylor
 Arcadis U.S., Inc.
 28550 Cabot Dr.
 Suite 500
 Novi, MI 48377

BILL TO: Accounts Payable
 Arcadis U.S., Inc.
 630 Plaza Drive
 Suite 600
 Highlands Ranch, CO 80129

PHONE: 248.994.2294

P.O. # MI001386.0001_AT_WA08

FAX:

PROJECT # MI001386.0001.00002 FORD LTP

DATE RECEIVED: 11/22/2017

CONTACT: Ausha Scott

DATE COMPLETED: 12/02/2017

DATE REISSUED: 12/04/2017

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------------|-------------|-------------------------------|---------------------------|
| 01A | SVMP-22-3(111717) | TO-15 | 5.3 "Hg | 15.3 psi |
| 02A | SVMP-23-3(111717) | TO-15 | 2.4 "Hg | 14.6 psi |
| 03A | SVMP-24-4(111717) | TO-15 | 2.4 "Hg | 15.2 psi |
| 04A | SVMP-19-3(111717) | TO-15 | 2.4 "Hg | 14.9 psi |
| 05A | SVMP-18-3(111717) | TO-15 | 2.2 "Hg | 14.8 psi |
| 06A | SVMP-1S-3.5(111717) | TO-15 | 1 "Hg | 15.1 psi |
| 07A | SVMP-1D-7(111717) | TO-15 | 4.9 "Hg | 15 psi |
| 08A | SVMP-2S-4.5(111717) | TO-15 | 3.5 "Hg | 15 psi |
| 09A | SVMP-2D-8.5(111717) | TO-15 | 4.1 "Hg | 15 psi |
| 10A | SVMP-3S-3.5(111717) | TO-15 | 0.6 "Hg | 14.7 psi |
| 11A | SVMP-3D-7(111717) | TO-15 | 2 "Hg | 15.2 psi |
| 12A | SVMP-21-2(112017) | TO-15 | 3.7 "Hg | 15.2 psi |
| 13A | SVMP-16-2(112017) | TO-15 | 2 "Hg | 15.3 psi |
| 14A | SVMP-4-3.5(112017) | TO-15 | 5.5 "Hg | 15.1 psi |
| 15A | SVMP-5-4.5(112017) | TO-15 | 3.7 "Hg | 15 psi |
| 16A | SVMP-6-4.5(112017) | TO-15 | 3.3 "Hg | 14.9 psi |
| 17A | SVMP-7-3.5(112017) | TO-15 | 4.5 "Hg | 15 psi |
| 18A | SVMP-8-3.5(112017) | TO-15 | 3.7 "Hg | 15.2 psi |
| 19A | SVMP-9-4(112017) | TO-15 | 3.3 "Hg | 15.1 psi |
| 20A | Lab Blank | TO-15 | NA | NA |
| 20B | Lab Blank | TO-15 | NA | NA |
| 21A | CCV | TO-15 | NA | NA |
| 21B | CCV | TO-15 | NA | NA |

Continued on next page

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| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|-------------|-------------------------------|---------------------------|
| 22A | LCS | TO-15 | NA | NA |
| 22AA | LCSD | TO-15 | NA | NA |
| 22B | LCS | TO-15 | NA | NA |
| 22BB | LCSD | TO-15 | NA | NA |

CERTIFIED BY: 

DATE: 12/04/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Arcadis U.S., Inc.
Workorder# 1711413R1

Nineteen 1 Liter Summa Canister samples were received on November 22, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for samples SVMP-3D-7(111717), SVMP-8- (112017) and SVMP-9- (112017) did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

The work order was reissued on December 4, 2017 to change identification of sample SVMP-8-3.5(112017) and SVMP-9-4(112017) per the revised Chain of Custody (COC) provided by the client.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVMP-22-3(111717)

Lab ID#: 1711413R1-01A
No Detections Were Found.

Client Sample ID: SVMP-23-3(111717)

Lab ID#: 1711413R1-02A
No Detections Were Found.

Client Sample ID: SVMP-24-4(111717)

Lab ID#: 1711413R1-03A
No Detections Were Found.

Client Sample ID: SVMP-19-3(111717)

Lab ID#: 1711413R1-04A
No Detections Were Found.

Client Sample ID: SVMP-18-3(111717)

Lab ID#: 1711413R1-05A
No Detections Were Found.

Client Sample ID: SVMP-1S-3.5(111717)

Lab ID#: 1711413R1-06A
No Detections Were Found.

Client Sample ID: SVMP-1D-7(111717)

Lab ID#: 1711413R1-07A
No Detections Were Found.

Client Sample ID: SVMP-2S-4.5(111717)

Lab ID#: 1711413R1-08A
No Detections Were Found.

Client Sample ID: SVMP-2D-8.5(111717)

Lab ID#: 1711413R1-09A

**Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: SVMP-2D-8.5(111717)

Lab ID#: 1711413R1-09A
No Detections Were Found.

Client Sample ID: SVMP-3S-3.5(111717)

Lab ID#: 1711413R1-10A
No Detections Were Found.

Client Sample ID: SVMP-3D-7(111717)

Lab ID#: 1711413R1-11A
No Detections Were Found.

Client Sample ID: SVMP-21-2(112017)

Lab ID#: 1711413R1-12A
No Detections Were Found.

Client Sample ID: SVMP-16-2(112017)

Lab ID#: 1711413R1-13A
No Detections Were Found.

Client Sample ID: SVMP-4-3.5(112017)

Lab ID#: 1711413R1-14A
No Detections Were Found.

Client Sample ID: SVMP-5-4.5(112017)

Lab ID#: 1711413R1-15A
No Detections Were Found.

Client Sample ID: SVMP-6-4.5(112017)

Lab ID#: 1711413R1-16A
No Detections Were Found.

Client Sample ID: SVMP-7-3.5(112017)

Lab ID#: 1711413R1-17A

**Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: SVMP-7-3.5(112017)

Lab ID#: 1711413R1-17A

No Detections Were Found.

Client Sample ID: SVMP-8-3.5(112017)

Lab ID#: 1711413R1-18A

No Detections Were Found.

Client Sample ID: SVMP-9-4(112017)

Lab ID#: 1711413R1-19A

No Detections Were Found.



Air Toxics

Client Sample ID: SVMP-22-3(111717)

Lab ID#: 1711413R1-01A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112722 | Date of Collection: | 11/17/17 11:24:00 A |
| Dil. Factor: | 2.48 | Date of Analysis: | 11/28/17 12:52 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 3.2 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.9 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.9 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.7 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.9 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 8.4 | Not Detected |
| 1,4-Dioxane | 5.0 | Not Detected | 18 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |



Air Toxics

Client Sample ID: SVMP-23-3(111717)

Lab ID#: 1711413R1-02A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112723 | Date of Collection: | 11/17/17 12:18:00 P |
| Dil. Factor: | 2.17 | Date of Analysis: | 11/28/17 01:21 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 5.8 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.4 | Not Detected |
| 1,4-Dioxane | 4.3 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |



Air Toxics

Client Sample ID: SVMP-24-4(111717)

Lab ID#: 1711413R1-03A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112724 | Date of Collection: | 11/17/17 1:37:00 PM |
| Dil. Factor: | 2.21 | Date of Analysis: | 11/28/17 01:57 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.4 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.4 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 5.9 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.4 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.5 | Not Detected |
| 1,4-Dioxane | 4.4 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |



Air Toxics

Client Sample ID: SVMP-19-3(111717)

Lab ID#: 1711413R1-04A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112725 | Date of Collection: | 11/17/17 3:03:00 PM |
| Dil. Factor: | 2.19 | Date of Analysis: | 11/28/17 02:29 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 5.9 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.4 | Not Detected |
| 1,4-Dioxane | 4.4 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: SVMP-18-3(111717)

Lab ID#: 1711413R1-05A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112726 | Date of Collection: | 11/17/17 4:00:00 PM |
| Dil. Factor: | 2.16 | Date of Analysis: | 11/28/17 03:02 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 5.8 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.3 | Not Detected |
| 1,4-Dioxane | 4.3 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



Air Toxics

Client Sample ID: SVMP-1S-3.5(111717)

Lab ID#: 1711413R1-06A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112727 | Date of Collection: | 11/17/17 10:15:00 A |
| Dil. Factor: | 2.10 | Date of Analysis: | 11/28/17 03:31 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.0 | Not Detected | 2.7 | Not Detected |
| 1,1-Dichloroethene | 1.0 | Not Detected | 4.2 | Not Detected |
| cis-1,2-Dichloroethene | 1.0 | Not Detected | 4.2 | Not Detected |
| Trichloroethene | 1.0 | Not Detected | 5.6 | Not Detected |
| trans-1,2-Dichloroethene | 1.0 | Not Detected | 4.2 | Not Detected |
| Tetrachloroethene | 1.0 | Not Detected | 7.1 | Not Detected |
| 1,4-Dioxane | 4.2 | Not Detected | 15 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 84 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



Air Toxics

Client Sample ID: SVMP-ID-7(111717)

Lab ID#: 1711413R1-07A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------|--|
| File Name: | 17112728 | Date of Collection: 11/17/17 11:15:00 A |
| Dil. Factor: | 2.41 | Date of Analysis: 11/28/17 04:00 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 3.1 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.8 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.8 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.5 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.8 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 8.2 | Not Detected |
| 1,4-Dioxane | 4.8 | Not Detected | 17 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



Air Toxics

Client Sample ID: SVMP-2S-4.5(111717)

Lab ID#: 1711413R1-08A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112806 | Date of Collection: | 11/17/17 12:10:00 P |
| Dil. Factor: | 2.29 | Date of Analysis: | 11/28/17 02:29 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.9 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 6.2 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.8 | Not Detected |
| 1,4-Dioxane | 4.6 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



Air Toxics

Client Sample ID: SVMP-2D-8.5(111717)

Lab ID#: 1711413R1-09A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112807 | Date of Collection: | 11/17/17 1:10:00 PM |
| Dil. Factor: | 2.34 | Date of Analysis: | 11/28/17 02:58 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.3 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 7.9 | Not Detected |
| 1,4-Dioxane | 4.7 | Not Detected | 17 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 97 | 70-130 |
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| 4-Bromofluorobenzene | 95 | 70-130 |



Air Toxics

Client Sample ID: SVMP-3S-3.5(111717)

Lab ID#: 1711413R1-10A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112808 | Date of Collection: | 11/17/17 3:50:00 PM |
| Dil. Factor: | 2.04 | Date of Analysis: | 11/28/17 03:26 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.0 | Not Detected | 2.6 | Not Detected |
| 1,1-Dichloroethene | 1.0 | Not Detected | 4.0 | Not Detected |
| cis-1,2-Dichloroethene | 1.0 | Not Detected | 4.0 | Not Detected |
| Trichloroethene | 1.0 | Not Detected | 5.5 | Not Detected |
| trans-1,2-Dichloroethene | 1.0 | Not Detected | 4.0 | Not Detected |
| Tetrachloroethene | 1.0 | Not Detected | 6.9 | Not Detected |
| 1,4-Dioxane | 4.1 | Not Detected | 15 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 98 | 70-130 |
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |



Air Toxics

Client Sample ID: SVMP-3D-7(111717)

Lab ID#: 1711413R1-11A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112809 | Date of Collection: | 11/17/17 4:40:00 PM |
| Dil. Factor: | 2.18 | Date of Analysis: | 11/28/17 03:56 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 5.8 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.4 | Not Detected |
| 1,4-Dioxane | 4.4 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



Air Toxics

Client Sample ID: SVMP-21-2(112017)

Lab ID#: 1711413R1-12A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112810 | Date of Collection: | 11/20/17 11:32:00 A |
| Dil. Factor: | 2.32 | Date of Analysis: | 11/28/17 04:26 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.2 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 7.9 | Not Detected |
| 1,4-Dioxane | 4.6 | Not Detected | 17 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Client Sample ID: SVMP-16-2(112017)

Lab ID#: 1711413R1-13A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------|--|
| File Name: | 17112811 | Date of Collection: 11/20/17 2:02:00 PM |
| Dil. Factor: | 2.19 | Date of Analysis: 11/28/17 05:02 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 5.9 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.3 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.4 | Not Detected |
| 1,4-Dioxane | 4.4 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| 4-Bromofluorobenzene | 90 | 70-130 |



Air Toxics

Client Sample ID: SVMP-4-3.5(112017)

Lab ID#: 1711413R1-14A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112812 | Date of Collection: | 11/20/17 10:55:00 A |
| Dil. Factor: | 2.48 | Date of Analysis: | 11/28/17 05:46 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 3.2 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.9 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.9 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.7 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.9 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 8.4 | Not Detected |
| 1,4-Dioxane | 5.0 | Not Detected | 18 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| 4-Bromofluorobenzene | 93 | 70-130 |



Air Toxics

Client Sample ID: SVMP-5-4.5(112017)

Lab ID#: 1711413R1-15A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112813 | Date of Collection: | 11/20/17 11:55:00 A |
| Dil. Factor: | 2.30 | Date of Analysis: | 11/28/17 06:17 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 2.9 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.2 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 7.8 | Not Detected |
| 1,4-Dioxane | 4.6 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| 4-Bromofluorobenzene | 88 | 70-130 |



Air Toxics

Client Sample ID: SVMP-6-4.5(112017)

Lab ID#: 1711413R1-16A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112814 | Date of Collection: | 11/20/17 1:05:00 PM |
| Dil. Factor: | 2.26 | Date of Analysis: | 11/28/17 06:51 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.9 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 6.1 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.7 | Not Detected |
| 1,4-Dioxane | 4.5 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| 4-Bromofluorobenzene | 92 | 70-130 |



Air Toxics

Client Sample ID: SVMP-7-3.5(112017)

Lab ID#: 1711413R1-17A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112815 | Date of Collection: | 11/20/17 2:20:00 PM |
| Dil. Factor: | 2.38 | Date of Analysis: | 11/28/17 09:11 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.7 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.7 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.4 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.7 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 8.1 | Not Detected |
| 1,4-Dioxane | 4.8 | Not Detected | 17 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| 4-Bromofluorobenzene | 91 | 70-130 |



Air Toxics

Client Sample ID: SVMP-8-3.5(112017)

Lab ID#: 1711413R1-18A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112816 | Date of Collection: | 11/20/17 3:20:00 PM |
| Dil. Factor: | 2.32 | Date of Analysis: | 11/28/17 09:40 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.2 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Trichloroethene | 1.2 | Not Detected | 6.2 | Not Detected |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.6 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 7.9 | Not Detected |
| 1,4-Dioxane | 4.6 | Not Detected | 17 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 101 | 70-130 |
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| 4-Bromofluorobenzene | 92 | 70-130 |



Air Toxics

Client Sample ID: SVMP-9-4(112017)

Lab ID#: 1711413R1-19A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 17112817 | Date of Collection: | 11/20/17 4:10:00 PM |
| Dil. Factor: | 2.28 | Date of Analysis: | 11/28/17 10:09 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.9 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 6.1 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Tetrachloroethene | 1.1 | Not Detected | 7.7 | Not Detected |
| 1,4-Dioxane | 4.6 | Not Detected | 16 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 101 | 70-130 |
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| 4-Bromofluorobenzene | 94 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1711413R1-20A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|-------------------|
| File Name: | 17112706 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/27/17 01:44 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.50 | Not Detected | 1.3 | Not Detected |
| 1,1-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| cis-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Trichloroethene | 0.50 | Not Detected | 2.7 | Not Detected |
| trans-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Tetrachloroethene | 0.50 | Not Detected | 3.4 | Not Detected |
| 1,4-Dioxane | 2.0 | Not Detected | 7.2 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1711413R1-20B

EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|----------|---------------------|-------------------|
| File Name: | 17112805 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/28/17 12:40 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.50 | Not Detected | 1.3 | Not Detected |
| 1,1-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| cis-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Trichloroethene | 0.50 | Not Detected | 2.7 | Not Detected |
| trans-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Tetrachloroethene | 0.50 | Not Detected | 3.4 | Not Detected |
| 1,4-Dioxane | 2.0 | Not Detected | 7.2 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| 4-Bromofluorobenzene | 93 | 70-130 |

Client Sample ID: CCV

Lab ID#: 1711413R1-21A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|-----------------|--|
| File Name: | 17112702 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/27/17 11:23 AM |

| Compound | %Recovery |
|--------------------------|------------------|
| Vinyl Chloride | 103 |
| 1,1-Dichloroethene | 100 |
| cis-1,2-Dichloroethene | 99 |
| Trichloroethene | 97 |
| trans-1,2-Dichloroethene | 100 |
| Tetrachloroethene | 98 |
| 1,4-Dioxane | 100 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| Toluene-d8 | 101 | 70-130 |
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Client Sample ID: CCV

Lab ID#: 1711413R1-21B

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|----------|-------------------------------------|
| File Name: | 17112802 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/28/17 11:16 AM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 111 |
| 1,1-Dichloroethene | 101 |
| cis-1,2-Dichloroethene | 103 |
| Trichloroethene | 96 |
| trans-1,2-Dichloroethene | 102 |
| Tetrachloroethene | 99 |
| 1,4-Dioxane | 98 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: LCS

Lab ID#: 1711413R1-22A

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|----------|-------------------------------------|
| File Name: | 17112703 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/27/17 11:50 AM |

| Compound | %Recovery | Method Limits |
|--------------------------|-----------|---------------|
| Vinyl Chloride | 95 | 70-130 |
| 1,1-Dichloroethene | 90 | 70-130 |
| cis-1,2-Dichloroethene | 99 | 70-130 |
| Trichloroethene | 84 | 70-130 |
| trans-1,2-Dichloroethene | 78 | 70-130 |
| Tetrachloroethene | 88 | 70-130 |
| 1,4-Dioxane | 88 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 101 | 70-130 |
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1711413R1-22AA

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|----------|-------------------------------------|
| File Name: | 17112704 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/27/17 12:17 PM |

| Compound | %Recovery | Method Limits |
|--------------------------|-----------|---------------|
| Vinyl Chloride | 96 | 70-130 |
| 1,1-Dichloroethene | 94 | 70-130 |
| cis-1,2-Dichloroethene | 106 | 70-130 |
| Trichloroethene | 89 | 70-130 |
| trans-1,2-Dichloroethene | 81 | 70-130 |
| Tetrachloroethene | 92 | 70-130 |
| 1,4-Dioxane | 92 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: LCS

Lab ID#: 1711413R1-22B

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|----------|-------------------------------------|
| File Name: | 17112803 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/28/17 11:43 AM |

| Compound | %Recovery | Method Limits |
|--------------------------|-----------|---------------|
| Vinyl Chloride | 102 | 70-130 |
| 1,1-Dichloroethene | 88 | 70-130 |
| cis-1,2-Dichloroethene | 97 | 70-130 |
| Trichloroethene | 87 | 70-130 |
| trans-1,2-Dichloroethene | 76 | 70-130 |
| Tetrachloroethene | 92 | 70-130 |
| 1,4-Dioxane | 88 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1711413R1-22BB

EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|----------|-------------------------------------|
| File Name: | 17112804 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/28/17 12:10 PM |

| Compound | %Recovery | Method Limits |
|--------------------------|-----------|---------------|
| Vinyl Chloride | 99 | 70-130 |
| 1,1-Dichloroethene | 87 | 70-130 |
| cis-1,2-Dichloroethene | 97 | 70-130 |
| Trichloroethene | 87 | 70-130 |
| trans-1,2-Dichloroethene | 76 | 70-130 |
| Tetrachloroethene | 90 | 70-130 |
| 1,4-Dioxane | 90 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |