

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

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December 14, 2021

Jeremy Porter, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Mr Porter:

Included are the results from the testing of material submitted on December 3, 2021 from the Spic n Span 060172, F&BI 112057 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Aspect Data  
ASP1214R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 3, 2021 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Spic n Span 060172, F&BI 112057 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Aspect Consulting, LLC</u> |
|----------------------|-------------------------------|
| 112057 -01           | VGAC-INF-3-120221             |
| 112057 -02           | VGAC-EFF-3-120221             |

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method MA-APH

|                   |                   |             |                        |
|-------------------|-------------------|-------------|------------------------|
| Client Sample ID: | VGAC-INF-3-120221 | Client:     | Aspect Consulting, LLC |
| Date Received:    | 12/03/21          | Project:    | Spic n Span 060172     |
| Date Collected:   | 12/02/21          | Lab ID:     | 112057-01 1/16         |
| Date Analyzed:    | 12/08/21          | Data File:  | 120729.D               |
| Matrix:           | Air               | Instrument: | GCMS7                  |
| Units:            | ug/m3             | Operator:   | bat                    |

|                      | %         | Lower  | Upper  |
|----------------------|-----------|--------|--------|
| Surrogates:          | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 105       | 70     | 130    |

| Compounds:            | Concentration<br>ug/m3 |
|-----------------------|------------------------|
| APH EC5-8 aliphatics  | 4,000                  |
| APH EC9-12 aliphatics | 13,000                 |
| APH EC9-10 aromatics  | 480                    |

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method MA-APH

|                   |                   |             |                        |
|-------------------|-------------------|-------------|------------------------|
| Client Sample ID: | VGAC-EFF-3-120221 | Client:     | Aspect Consulting, LLC |
| Date Received:    | 12/03/21          | Project:    | Spic n Span 060172     |
| Date Collected:   | 12/02/21          | Lab ID:     | 112057-02 1/8.5        |
| Date Analyzed:    | 12/08/21          | Data File:  | 120727.D               |
| Matrix:           | Air               | Instrument: | GCMS7                  |
| Units:            | ug/m3             | Operator:   | bat                    |

|                      | %         | Lower  | Upper  |
|----------------------|-----------|--------|--------|
| Surrogates:          | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 78        | 70     | 130    |

| Compounds:            | Concentration<br>ug/m3 |
|-----------------------|------------------------|
| APH EC5-8 aliphatics  | <640                   |
| APH EC9-12 aliphatics | <210                   |
| APH EC9-10 aromatics  | <210                   |

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method MA-APH

|                   |                |             |                        |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank   | Client:     | Aspect Consulting, LLC |
| Date Received:    | Not Applicable | Project:    | Spic n Span 060172     |
| Date Collected:   | Not Applicable | Lab ID:     | 01-2772 MB             |
| Date Analyzed:    | 12/07/21       | Data File:  | 120711.D               |
| Matrix:           | Air            | Instrument: | GCMS7                  |
| Units:            | ug/m3          | Operator:   | bat                    |

|                      | %         | Lower  | Upper  |
|----------------------|-----------|--------|--------|
| Surrogates:          | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 76        | 70     | 130    |

| Compounds:            | Concentration<br>ug/m3 |
|-----------------------|------------------------|
| APH EC5-8 aliphatics  | <75                    |
| APH EC9-12 aliphatics | <25                    |
| APH EC9-10 aromatics  | <25                    |

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

|                                     |                                |
|-------------------------------------|--------------------------------|
| Client Sample ID: VGAC-INF-3-120221 | Client: Aspect Consulting, LLC |
| Date Received: 12/03/21             | Project: Spic n Span 060172    |
| Date Collected: 12/02/21            | Lab ID: 112057-01 1/16         |
| Date Analyzed: 12/08/21             | Data File: 120729.D            |
| Matrix: Air                         | Instrument: GCMS7              |
| Units: ug/m3                        | Operator: bat                  |

|                      |           |        |        |
|----------------------|-----------|--------|--------|
|                      | %         | Lower  | Upper  |
| Surrogates:          | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 114       | 70     | 130    |

| Compounds:                  | Concentration<br>ug/m3 | ppbv     | Compounds:                | Concentration<br>ug/m3 | ppbv  |
|-----------------------------|------------------------|----------|---------------------------|------------------------|-------|
| Propene                     | 66                     | 38       | 1,2-Dichloropropane       | <3.7                   | <0.8  |
| Dichlorodifluoromethane     | <7.9                   | <1.6     | 1,4-Dioxane               | <5.8                   | <1.6  |
| Chloromethane               | <59                    | <29      | 2,2,4-Trimethylpentane    | <75                    | <16   |
| F-114                       | <11                    | <1.6     | Methyl methacrylate       | <66                    | <16   |
| Vinyl chloride              | <4.1                   | <1.6     | Heptane                   | <66                    | <16   |
| 1,3-Butadiene               | <0.71                  | <0.32    | Bromodichloromethane      | <1.1                   | <0.16 |
| Butane                      | <76                    | <32      | Trichloroethene           | 120                    | 23    |
| Bromomethane                | <37                    | <9.6     | cis-1,3-Dichloropropene   | <7.3                   | <1.6  |
| Chloroethane                | <42                    | <16      | 4-Methyl-2-pentanone      | <66                    | <16   |
| Vinyl bromide               | <7                     | <1.6     | trans-1,3-Dichloropropene | <7.3                   | <1.6  |
| Ethanol                     | 170                    | 90       | Toluene                   | <300                   | <80   |
| Acrolein                    | 19                     | 8.3      | 1,1,2-Trichloroethane     | <0.87                  | <0.16 |
| Pentane                     | <47                    | <16      | 2-Hexanone                | <66                    | <16   |
| Trichlorofluoromethane      | <36                    | <6.4     | Tetrachloroethene         | 830                    | 120   |
| Acetone                     | 4,400 ve               | 1,800 ve | Dibromochloromethane      | <1.4                   | <0.16 |
| 2-Propanol                  | <140                   | <56      | 1,2-Dibromoethane (EDB)   | <1.2                   | <0.16 |
| 1,1-Dichloroethene          | <6.3                   | <1.6     | Chlorobenzene             | <7.4                   | <1.6  |
| trans-1,2-Dichloroethene    | <6.3                   | <1.6     | Ethylbenzene              | 12                     | 2.8   |
| Methylene chloride          | <560                   | <160     | 1,1,2,2-Tetrachloroethane | <2.2                   | <0.32 |
| t-Butyl alcohol (TBA)       | <190                   | <64      | Nonane                    | <84                    | <16   |
| 3-Chloropropene             | <25                    | <8       | Isopropylbenzene          | <39                    | <8    |
| CFC-113                     | <12                    | <1.6     | 2-Chlorotoluene           | <83                    | <16   |
| Carbon disulfide            | <100                   | <32      | Propylbenzene             | <39                    | <8    |
| Methyl t-butyl ether (MTBE) | <29                    | <8       | 4-Ethyltoluene            | <39                    | <8    |
| Vinyl acetate               | <110                   | <32      | m,p-Xylene                | 33                     | 7.7   |
| 1,1-Dichloroethane          | <6.5                   | <1.6     | o-Xylene                  | 11                     | 2.6   |
| cis-1,2-Dichloroethene      | 75                     | 19       | Styrene                   | <14                    | <3.2  |
| Hexane                      | <56                    | <16      | Bromoform                 | <33                    | <3.2  |
| Chloroform                  | 7.8                    | 1.6      | Benzyl chloride           | <0.83                  | <0.16 |
| Ethyl acetate               | <120                   | <32      | 1,3,5-Trimethylbenzene    | <39                    | <8    |
| Tetrahydrofuran             | 20                     | 6.9      | 1,2,4-Trimethylbenzene    | <39                    | <8    |
| 2-Butanone (MEK)            | 610 ve                 | 210 ve   | 1,3-Dichlorobenzene       | <9.6                   | <1.6  |
| 1,2-Dichloroethane (EDC)    | 3.4                    | 0.85     | 1,4-Dichlorobenzene       | <3.7                   | <0.61 |
| 1,1,1-Trichloroethane       | <8.7                   | <1.6     | 1,2-Dichlorobenzene       | <9.6                   | <1.6  |
| Carbon tetrachloride        | <5                     | <0.8     | 1,2,4-Trichlorobenzene    | <12                    | <1.6  |
| Benzene                     | 32                     | 10       | Naphthalene               | 85                     | 16    |
| Cyclohexane                 | <110                   | <32      | Hexachlorobutadiene       | <3.4                   | <0.32 |

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

|                                     |                                |
|-------------------------------------|--------------------------------|
| Client Sample ID: VGAC-EFF-3-120221 | Client: Aspect Consulting, LLC |
| Date Received: 12/03/21             | Project: Spic n Span 060172    |
| Date Collected: 12/02/21            | Lab ID: 112057-02 1/8.5        |
| Date Analyzed: 12/08/21             | Data File: 120727.D            |
| Matrix: Air                         | Instrument: GCMS7              |
| Units: ug/m3                        | Operator: bat                  |

|                      |           |        |        |
|----------------------|-----------|--------|--------|
|                      | %         | Lower  | Upper  |
| Surrogates:          | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 85        | 70     | 130    |

| Compounds:                  | Concentration<br>ug/m3 | ppbv   | Compounds:                | Concentration<br>ug/m3 | ppbv   |
|-----------------------------|------------------------|--------|---------------------------|------------------------|--------|
| Propene                     | 46                     | 27     | 1,2-Dichloropropane       | <2                     | <0.42  |
| Dichlorodifluoromethane     | <4.2                   | <0.85  | 1,4-Dioxane               | <3.1                   | <0.85  |
| Chloromethane               | <32                    | <15    | 2,2,4-Trimethylpentane    | <40                    | <8.5   |
| F-114                       | <5.9                   | <0.85  | Methyl methacrylate       | <35                    | <8.5   |
| Vinyl chloride              | <2.2                   | <0.85  | Heptane                   | <35                    | <8.5   |
| 1,3-Butadiene               | <0.38                  | <0.17  | Bromodichloromethane      | <0.57                  | <0.085 |
| Butane                      | 92                     | 39     | Trichloroethene           | <0.91                  | <0.17  |
| Bromomethane                | <20                    | <5.1   | cis-1,3-Dichloropropene   | <3.9                   | <0.85  |
| Chloroethane                | <22                    | <8.5   | 4-Methyl-2-pentanone      | <35                    | <8.5   |
| Vinyl bromide               | <3.7                   | <0.85  | trans-1,3-Dichloropropene | <3.9                   | <0.85  |
| Ethanol                     | 120                    | 61     | Toluene                   | <160                   | <42    |
| Acrolein                    | <0.97                  | <0.42  | 1,1,2-Trichloroethane     | <0.46                  | <0.085 |
| Pentane                     | <25                    | <8.5   | 2-Hexanone                | <35                    | <8.5   |
| Trichlorofluoromethane      | <19                    | <3.4   | Tetrachloroethene         | <58                    | <8.5   |
| Acetone                     | 2,300 ve               | 980 ve | Dibromochloromethane      | <0.72                  | <0.085 |
| 2-Propanol                  | <73                    | <30    | 1,2-Dibromoethane (EDB)   | <0.65                  | <0.085 |
| 1,1-Dichloroethene          | <3.4                   | <0.85  | Chlorobenzene             | <3.9                   | <0.85  |
| trans-1,2-Dichloroethene    | <3.4                   | <0.85  | Ethylbenzene              | <3.7                   | <0.85  |
| Methylene chloride          | <300                   | <85    | 1,1,2,2-Tetrachloroethane | <1.2                   | <0.17  |
| t-Butyl alcohol (TBA)       | <100                   | <34    | Nonane                    | <45                    | <8.5   |
| 3-Chloropropene             | <13                    | <4.2   | Isopropylbenzene          | <21                    | <4.2   |
| CFC-113                     | <6.5                   | <0.85  | 2-Chlorotoluene           | <44                    | <8.5   |
| Carbon disulfide            | 85                     | 27     | Propylbenzene             | <21                    | <4.2   |
| Methyl t-butyl ether (MTBE) | <15                    | <4.2   | 4-Ethyltoluene            | <21                    | <4.2   |
| Vinyl acetate               | <60                    | <17    | m,p-Xylene                | 12                     | 2.7    |
| 1,1-Dichloroethane          | <3.4                   | <0.85  | o-Xylene                  | 3.9                    | 0.89   |
| cis-1,2-Dichloroethene      | <3.4                   | <0.85  | Styrene                   | <7.2                   | <1.7   |
| Hexane                      | <30                    | <8.5   | Bromoform                 | <18                    | <1.7   |
| Chloroform                  | <0.42                  | <0.085 | Benzyl chloride           | <0.44                  | <0.085 |
| Ethyl acetate               | <61                    | <17    | 1,3,5-Trimethylbenzene    | <21                    | <4.2   |
| Tetrahydrofuran             | 21                     | 7.0    | 1,2,4-Trimethylbenzene    | <21                    | <4.2   |
| 2-Butanone (MEK)            | <25                    | <8.5   | 1,3-Dichlorobenzene       | <5.1                   | <0.85  |
| 1,2-Dichloroethane (EDC)    | <0.34                  | <0.085 | 1,4-Dichlorobenzene       | <1.9                   | <0.32  |
| 1,1,1-Trichloroethane       | <4.6                   | <0.85  | 1,2-Dichlorobenzene       | <5.1                   | <0.85  |
| Carbon tetrachloride        | <2.7                   | <0.42  | 1,2,4-Trichlorobenzene    | <6.3                   | <0.85  |
| Benzene                     | <2.7                   | <0.85  | Naphthalene               | <2.2                   | <0.42  |
| Cyclohexane                 | <59                    | <17    | Hexachlorobutadiene       | <1.8                   | <0.17  |

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

|                   |                |             |                        |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank   | Client:     | Aspect Consulting, LLC |
| Date Received:    | Not Applicable | Project:    | Spic n Span 060172     |
| Date Collected:   | Not Applicable | Lab ID:     | 01-2772 MB             |
| Date Analyzed:    | 12/07/21       | Data File:  | 120711.D               |
| Matrix:           | Air            | Instrument: | GCMS7                  |
| Units:            | ug/m3          | Operator:   | bat                    |

|                      |           |        |        |
|----------------------|-----------|--------|--------|
|                      | %         | Lower  | Upper  |
| Surrogates:          | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 82        | 70     | 130    |

| Compounds:                  | Concentration<br>ug/m3 | ppbv  | Compounds:                | Concentration<br>ug/m3 | ppbv   |
|-----------------------------|------------------------|-------|---------------------------|------------------------|--------|
| Propene                     | <1.2                   | <0.7  | 1,2-Dichloropropane       | <0.23                  | <0.05  |
| Dichlorodifluoromethane     | <0.49                  | <0.1  | 1,4-Dioxane               | <0.36                  | <0.1   |
| Chloromethane               | <3.7                   | <1.8  | 2,2,4-Trimethylpentane    | <4.7                   | <1     |
| F-114                       | <0.7                   | <0.1  | Methyl methacrylate       | <4.1                   | <1     |
| Vinyl chloride              | <0.26                  | <0.1  | Heptane                   | <4.1                   | <1     |
| 1,3-Butadiene               | <0.044                 | <0.02 | Bromodichloromethane      | <0.067                 | <0.01  |
| Butane                      | <4.8                   | <2    | Trichloroethene           | <0.11                  | <0.02  |
| Bromomethane                | <2.3                   | <0.6  | cis-1,3-Dichloropropene   | <0.45                  | <0.1   |
| Chloroethane                | <2.6                   | <1    | 4-Methyl-2-pentanone      | <4.1                   | <1     |
| Vinyl bromide               | <0.44                  | <0.1  | trans-1,3-Dichloropropene | <0.45                  | <0.1   |
| Ethanol                     | <7.5                   | <4    | Toluene                   | <19                    | <5     |
| Acrolein                    | <0.11                  | <0.05 | 1,1,2-Trichloroethane     | <0.055                 | <0.01  |
| Pentane                     | <3                     | <1    | 2-Hexanone                | <4.1                   | <1     |
| Trichlorofluoromethane      | <2.2                   | <0.4  | Tetrachloroethene         | <6.8                   | <1     |
| Acetone                     | <4.8                   | <2    | Dibromochloromethane      | <0.085                 | <0.01  |
| 2-Propanol                  | <8.6                   | <3.5  | 1,2-Dibromoethane (EDB)   | <0.077                 | <0.01  |
| 1,1-Dichloroethene          | <0.4                   | <0.1  | Chlorobenzene             | <0.46                  | <0.1   |
| trans-1,2-Dichloroethene    | <0.4                   | <0.1  | Ethylbenzene              | <0.43                  | <0.1   |
| Methylene chloride          | <35                    | <10   | 1,1,2,2-Tetrachloroethane | <0.14                  | <0.02  |
| t-Butyl alcohol (TBA)       | <12                    | <4    | Nonane                    | <5.2                   | <1     |
| 3-Chloropropene             | <1.6                   | <0.5  | Isopropylbenzene          | <2.5                   | <0.5   |
| CFC-113                     | <0.77                  | <0.1  | 2-Chlorotoluene           | <5.2                   | <1     |
| Carbon disulfide            | <6.2                   | <2    | Propylbenzene             | <2.5                   | <0.5   |
| Methyl t-butyl ether (MTBE) | <1.8                   | <0.5  | 4-Ethyltoluene            | <2.5                   | <0.5   |
| Vinyl acetate               | <7                     | <2    | m,p-Xylene                | <0.87                  | <0.2   |
| 1,1-Dichloroethane          | <0.4                   | <0.1  | o-Xylene                  | <0.43                  | <0.1   |
| cis-1,2-Dichloroethene      | <0.4                   | <0.1  | Styrene                   | <0.85                  | <0.2   |
| Hexane                      | <3.5                   | <1    | Bromoform                 | <2.1                   | <0.2   |
| Chloroform                  | <0.049                 | <0.01 | Benzyl chloride           | <0.052                 | <0.01  |
| Ethyl acetate               | <7.2                   | <2    | 1,3,5-Trimethylbenzene    | <2.5                   | <0.5   |
| Tetrahydrofuran             | <0.59                  | <0.2  | 1,2,4-Trimethylbenzene    | <2.5                   | <0.5   |
| 2-Butanone (MEK)            | <2.9                   | <1    | 1,3-Dichlorobenzene       | <0.6                   | <0.1   |
| 1,2-Dichloroethane (EDC)    | <0.04                  | <0.01 | 1,4-Dichlorobenzene       | <0.23                  | <0.038 |
| 1,1,1-Trichloroethane       | <0.55                  | <0.1  | 1,2-Dichlorobenzene       | <0.6                   | <0.1   |
| Carbon tetrachloride        | <0.31                  | <0.05 | 1,2,4-Trichlorobenzene    | <0.74                  | <0.1   |
| Benzene                     | <0.32                  | <0.1  | Naphthalene               | <0.26                  | <0.05  |
| Cyclohexane                 | <6.9                   | <2    | Hexachlorobutadiene       | <0.21                  | <0.02  |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 112057-02 1/8.5 (Duplicate)

| Analyte               | Reporting<br>Units | Sample<br>Result | Duplicate<br>Result | RPD<br>(Limit 30) |
|-----------------------|--------------------|------------------|---------------------|-------------------|
| APH EC5-8 aliphatics  | ug/m3              | <640             | <640                | nm                |
| APH EC9-12 aliphatics | ug/m3              | <210             | <210                | nm                |
| APH EC9-10 aromatics  | ug/m3              | <210             | <210                | nm                |

Laboratory Code: Laboratory Control Sample

| Analyte               | Reporting<br>Units | Spike<br>Level | Percent<br>Recovery<br>LCS | Acceptance<br>Criteria |
|-----------------------|--------------------|----------------|----------------------------|------------------------|
| APH EC5-8 aliphatics  | ug/m3              | 67             | 87                         | 70-130                 |
| APH EC9-12 aliphatics | ug/m3              | 67             | 97                         | 70-130                 |
| APH EC9-10 aromatics  | ug/m3              | 67             | 86                         | 70-130                 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112057-02 1/8.5 (Duplicate)

| Analyte                     | Reporting<br>Units | Sample<br>Result | Duplicate<br>Result | RPD<br>(Limit 30) |
|-----------------------------|--------------------|------------------|---------------------|-------------------|
| Propene                     | ug/m3              | 46               | 47                  | 2                 |
| Dichlorodifluoromethane     | ug/m3              | <4.2             | <4.2                | nm                |
| Chloromethane               | ug/m3              | <32              | <32                 | nm                |
| F-114                       | ug/m3              | <5.9             | <5.9                | nm                |
| Vinyl chloride              | ug/m3              | <2.2             | <2.2                | nm                |
| 1,3-Butadiene               | ug/m3              | <0.38            | <0.38               | nm                |
| Butane                      | ug/m3              | 92               | 87                  | 6                 |
| Bromomethane                | ug/m3              | <20              | <20                 | nm                |
| Chloroethane                | ug/m3              | <22              | <22                 | nm                |
| Vinyl bromide               | ug/m3              | <3.7             | <3.7                | nm                |
| Ethanol                     | ug/m3              | 120              | 130                 | 8                 |
| Acrolein                    | ug/m3              | <0.97            | <0.97               | nm                |
| Pentane                     | ug/m3              | <25              | <25                 | nm                |
| Trichlorofluoromethane      | ug/m3              | <19              | <19                 | nm                |
| Acetone                     | ug/m3              | 2,300            | 2,200               | 4                 |
| 2-Propanol                  | ug/m3              | <73              | <73                 | nm                |
| 1,1-Dichloroethene          | ug/m3              | <3.4             | <3.4                | nm                |
| trans-1,2-Dichloroethene    | ug/m3              | <3.4             | <3.4                | nm                |
| Methylene chloride          | ug/m3              | <300             | <300                | nm                |
| t-Butyl alcohol (TBA)       | ug/m3              | <100             | <100                | nm                |
| 3-Chloropropene             | ug/m3              | <13              | <13                 | nm                |
| CFC-113                     | ug/m3              | <6.5             | <6.5                | nm                |
| Carbon disulfide            | ug/m3              | 85               | 83                  | 2                 |
| Methyl t-butyl ether (MTBE) | ug/m3              | <15              | <15                 | nm                |
| Vinyl acetate               | ug/m3              | <60              | <60                 | nm                |
| 1,1-Dichloroethane          | ug/m3              | <3.4             | <3.4                | nm                |
| cis-1,2-Dichloroethene      | ug/m3              | <3.4             | <3.4                | nm                |
| Hexane                      | ug/m3              | <30              | <30                 | nm                |
| Chloroform                  | ug/m3              | <0.42            | <0.42               | nm                |
| Ethyl acetate               | ug/m3              | <61              | <61                 | nm                |
| Tetrahydrofuran             | ug/m3              | 21               | 21                  | 0                 |
| 2-Butanone (MEK)            | ug/m3              | <25              | <25                 | nm                |
| 1,2-Dichloroethane (EDC)    | ug/m3              | <0.34            | <0.34               | nm                |
| 1,1,1-Trichloroethane       | ug/m3              | <4.6             | <4.6                | nm                |
| Carbon tetrachloride        | ug/m3              | <2.7             | <2.7                | nm                |
| Benzene                     | ug/m3              | <2.7             | <2.7                | nm                |
| Cyclohexane                 | ug/m3              | <59              | <59                 | nm                |
| 1,2-Dichloropropane         | ug/m3              | <2               | <2                  | nm                |
| 1,4-Dioxane                 | ug/m3              | <3.1             | <3.1                | nm                |
| 2,2,4-Trimethylpentane      | ug/m3              | <40              | <40                 | nm                |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112057-02 1/8.5 (Duplicate) (continued)

| Analyte                   | Reporting<br>Units | Sample<br>Result | Duplicate<br>Result | RPD<br>(Limit 30) |
|---------------------------|--------------------|------------------|---------------------|-------------------|
| Methyl methacrylate       | ug/m3              | <35              | <35                 | nm                |
| Heptane                   | ug/m3              | <35              | <35                 | nm                |
| Bromodichloromethane      | ug/m3              | <0.57            | <0.57               | nm                |
| Trichloroethene           | ug/m3              | <0.91            | <0.91               | nm                |
| cis-1,3-Dichloropropene   | ug/m3              | <3.9             | <3.9                | nm                |
| 4-Methyl-2-pentanone      | ug/m3              | <35              | <35                 | nm                |
| trans-1,3-Dichloropropene | ug/m3              | <3.9             | <3.9                | nm                |
| Toluene                   | ug/m3              | <160             | <160                | nm                |
| 1,1,2-Trichloroethane     | ug/m3              | <0.46            | <0.46               | nm                |
| 2-Hexanone                | ug/m3              | <35              | <35                 | nm                |
| Tetrachloroethene         | ug/m3              | <58              | <58                 | nm                |
| Dibromochloromethane      | ug/m3              | <0.72            | <0.72               | nm                |
| 1,2-Dibromoethane (EDB)   | ug/m3              | <0.65            | <0.65               | nm                |
| Chlorobenzene             | ug/m3              | <3.9             | <3.9                | nm                |
| Ethylbenzene              | ug/m3              | <3.7             | <3.7                | nm                |
| 1,1,2,2-Tetrachloroethane | ug/m3              | <1.2             | <1.2                | nm                |
| Nonane                    | ug/m3              | <45              | <45                 | nm                |
| Isopropylbenzene          | ug/m3              | <21              | <21                 | nm                |
| 2-Chlorotoluene           | ug/m3              | <44              | <44                 | nm                |
| Propylbenzene             | ug/m3              | <21              | <21                 | nm                |
| 4-Ethyltoluene            | ug/m3              | <21              | <21                 | nm                |
| m,p-Xylene                | ug/m3              | 12               | 11                  | 9                 |
| o-Xylene                  | ug/m3              | 3.9              | 3.8                 | 3                 |
| Styrene                   | ug/m3              | <7.2             | <7.2                | nm                |
| Bromoform                 | ug/m3              | <18              | <18                 | nm                |
| Benzyl chloride           | ug/m3              | <0.44            | <0.44               | nm                |
| 1,3,5-Trimethylbenzene    | ug/m3              | <21              | <21                 | nm                |
| 1,2,4-Trimethylbenzene    | ug/m3              | <21              | <21                 | nm                |
| 1,3-Dichlorobenzene       | ug/m3              | <5.1             | <5.1                | nm                |
| 1,4-Dichlorobenzene       | ug/m3              | <1.9             | <1.9                | nm                |
| 1,2-Dichlorobenzene       | ug/m3              | <5.1             | <5.1                | nm                |
| 1,2,4-Trichlorobenzene    | ug/m3              | <6.3             | <6.3                | nm                |
| Naphthalene               | ug/m3              | <2.2             | <2.2                | nm                |
| Hexachlorobutadiene       | ug/m3              | <1.8             | <1.8                | nm                |

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ENVIRONMENTAL CHEMISTS

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Date Received: 12/03/21

Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

| Analyte                     | Reporting<br>Units | Spike<br>Level | Percent<br>Recovery<br>LCS | Acceptance<br>Criteria |
|-----------------------------|--------------------|----------------|----------------------------|------------------------|
| Propene                     | ug/m3              | 23             | 78                         | 70-130                 |
| Dichlorodifluoromethane     | ug/m3              | 67             | 97                         | 70-130                 |
| Chloromethane               | ug/m3              | 28             | 97                         | 70-130                 |
| F-114                       | ug/m3              | 94             | 99                         | 70-130                 |
| Vinyl chloride              | ug/m3              | 35             | 91                         | 70-130                 |
| 1,3-Butadiene               | ug/m3              | 30             | 85                         | 70-130                 |
| Butane                      | ug/m3              | 32             | 87                         | 70-130                 |
| Bromomethane                | ug/m3              | 52             | 94                         | 70-130                 |
| Chloroethane                | ug/m3              | 36             | 95                         | 70-130                 |
| Vinyl bromide               | ug/m3              | 59             | 96                         | 70-130                 |
| Ethanol                     | ug/m3              | 25             | 71                         | 70-130                 |
| Acrolein                    | ug/m3              | 31             | 83                         | 70-130                 |
| Pentane                     | ug/m3              | 40             | 78                         | 70-130                 |
| Trichlorofluoromethane      | ug/m3              | 76             | 103                        | 70-130                 |
| Acetone                     | ug/m3              | 32             | 94                         | 70-130                 |
| 2-Propanol                  | ug/m3              | 33             | 86                         | 70-130                 |
| 1,1-Dichloroethene          | ug/m3              | 54             | 97                         | 70-130                 |
| trans-1,2-Dichloroethene    | ug/m3              | 54             | 95                         | 70-130                 |
| Methylene chloride          | ug/m3              | 94             | 94                         | 70-130                 |
| t-Butyl alcohol (TBA)       | ug/m3              | 41             | 90                         | 70-130                 |
| 3-Chloropropene             | ug/m3              | 42             | 82                         | 70-130                 |
| CFC-113                     | ug/m3              | 100            | 102                        | 70-130                 |
| Carbon disulfide            | ug/m3              | 42             | 86                         | 70-130                 |
| Methyl t-butyl ether (MTBE) | ug/m3              | 49             | 85                         | 70-130                 |
| Vinyl acetate               | ug/m3              | 48             | 78                         | 70-130                 |
| 1,1-Dichloroethane          | ug/m3              | 55             | 94                         | 70-130                 |
| cis-1,2-Dichloroethene      | ug/m3              | 54             | 96                         | 70-130                 |
| Hexane                      | ug/m3              | 48             | 83                         | 70-130                 |
| Chloroform                  | ug/m3              | 66             | 99                         | 70-130                 |
| Ethyl acetate               | ug/m3              | 49             | 88                         | 70-130                 |
| Tetrahydrofuran             | ug/m3              | 40             | 83                         | 70-130                 |
| 2-Butanone (MEK)            | ug/m3              | 40             | 97                         | 70-130                 |
| 1,2-Dichloroethane (EDC)    | ug/m3              | 55             | 93                         | 70-130                 |
| 1,1,1-Trichloroethane       | ug/m3              | 74             | 99                         | 70-130                 |
| Carbon tetrachloride        | ug/m3              | 85             | 102                        | 70-130                 |
| Benzene                     | ug/m3              | 43             | 92                         | 70-130                 |
| Cyclohexane                 | ug/m3              | 46             | 76                         | 70-130                 |
| 1,2-Dichloropropane         | ug/m3              | 62             | 94                         | 70-130                 |
| 1,4-Dioxane                 | ug/m3              | 49             | 97                         | 70-130                 |
| 2,2,4-Trimethylpentane      | ug/m3              | 63             | 93                         | 70-130                 |

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ENVIRONMENTAL CHEMISTS

Date of Report: 12/14/21

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Project: Spic n Span 060172, F&BI 112057

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

| Analyte                   | Reporting<br>Units | Spike<br>Level | Percent         | Acceptance<br>Criteria |
|---------------------------|--------------------|----------------|-----------------|------------------------|
|                           |                    |                | Recovery<br>LCS |                        |
| Methyl methacrylate       | ug/m3              | 55             | 93              | 70-130                 |
| Heptane                   | ug/m3              | 55             | 87              | 70-130                 |
| Bromodichloromethane      | ug/m3              | 90             | 101             | 70-130                 |
| Trichloroethene           | ug/m3              | 73             | 97              | 70-130                 |
| cis-1,3-Dichloropropene   | ug/m3              | 61             | 98              | 70-130                 |
| 4-Methyl-2-pentanone      | ug/m3              | 55             | 96              | 70-130                 |
| trans-1,3-Dichloropropene | ug/m3              | 61             | 102             | 70-130                 |
| Toluene                   | ug/m3              | 51             | 103             | 70-130                 |
| 1,1,2-Trichloroethane     | ug/m3              | 74             | 102             | 70-130                 |
| 2-Hexanone                | ug/m3              | 55             | 88              | 70-130                 |
| Tetrachloroethene         | ug/m3              | 92             | 111             | 70-130                 |
| Dibromochloromethane      | ug/m3              | 120            | 113             | 70-130                 |
| 1,2-Dibromoethane (EDB)   | ug/m3              | 100            | 100             | 70-130                 |
| Chlorobenzene             | ug/m3              | 62             | 107             | 70-130                 |
| Ethylbenzene              | ug/m3              | 59             | 93              | 70-130                 |
| 1,1,2,2-Tetrachloroethane | ug/m3              | 93             | 99              | 70-130                 |
| Nonane                    | ug/m3              | 71             | 77              | 70-130                 |
| Isopropylbenzene          | ug/m3              | 66             | 97              | 70-130                 |
| 2-Chlorotoluene           | ug/m3              | 70             | 100             | 70-130                 |
| Propylbenzene             | ug/m3              | 66             | 92              | 70-130                 |
| 4-Ethyltoluene            | ug/m3              | 66             | 94              | 70-130                 |
| m,p-Xylene                | ug/m3              | 120            | 97              | 70-130                 |
| o-Xylene                  | ug/m3              | 59             | 100             | 70-130                 |
| Styrene                   | ug/m3              | 58             | 95              | 70-130                 |
| Bromoform                 | ug/m3              | 140            | 109             | 70-130                 |
| Benzyl chloride           | ug/m3              | 70             | 103             | 70-130                 |
| 1,3,5-Trimethylbenzene    | ug/m3              | 66             | 92              | 70-130                 |
| 1,2,4-Trimethylbenzene    | ug/m3              | 66             | 88              | 70-130                 |
| 1,3-Dichlorobenzene       | ug/m3              | 81             | 109             | 70-130                 |
| 1,4-Dichlorobenzene       | ug/m3              | 81             | 96              | 70-130                 |
| 1,2-Dichlorobenzene       | ug/m3              | 81             | 103             | 70-130                 |
| 1,2,4-Trichlorobenzene    | ug/m3              | 100            | 85              | 70-130                 |
| Naphthalene               | ug/m3              | 71             | 82              | 70-130                 |
| Hexachlorobutadiene       | ug/m3              | 140            | 101             | 70-130                 |

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

