

## LAB CHRONICLE

|                 |              |                   |                                        |
|-----------------|--------------|-------------------|----------------------------------------|
| <b>OrderID:</b> | Q1913        | <b>OrderDate:</b> | 4/29/2025 2:15:00 PM                   |
| <b>Client:</b>  | AECOM        | <b>Project:</b>   | Meeker Ave Plumes Superfund Site RI FS |
| <b>Contact:</b> | Amit Haryani | <b>Location:</b>  | L21                                    |

| LabID             | ClientID                | Matrix      | Test     | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-------------------|-------------------------|-------------|----------|--------|-----------------|-----------|-----------|-----------------|
| <b>Q1913-01</b>   | <b>WC-12-S-202504</b>   | <b>TCLP</b> | TCLP VOA | 8260D  | <b>04/29/25</b> |           | 04/30/25  | <b>04/29/25</b> |
| <b>Q1913-02</b>   | <b>WC-12-A-202504</b>   | <b>TCLP</b> | TCLP VOA | 8260D  | <b>04/29/25</b> |           | 04/30/25  | <b>04/29/25</b> |
| <b>Q1913-03</b>   | <b>WC-13-S-202504</b>   | <b>TCLP</b> | TCLP VOA | 8260D  | <b>04/29/25</b> |           | 04/30/25  | <b>04/29/25</b> |
| <b>Q1913-04</b>   | <b>WC-13-A-202504</b>   | <b>TCLP</b> | TCLP VOA | 8260D  | <b>04/29/25</b> |           | 04/30/25  | <b>04/29/25</b> |
| <b>Q1913-04RE</b> | <b>WC-13-A-202504RE</b> | <b>TCLP</b> | TCLP VOA | 8260D  | <b>04/29/25</b> |           | 05/02/25  | <b>04/29/25</b> |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q1913  
**Client:** AECOM

| Sample ID         | Client ID               | Matrix | Parameter                   | Concentration | C | MDL   | RDL  | Units |
|-------------------|-------------------------|--------|-----------------------------|---------------|---|-------|------|-------|
| <b>Client ID:</b> | <b>WC-12-A-202504</b>   |        |                             |               |   |       |      |       |
| Q1913-02          | WC-12-A-202504          | TCLP   | Chloroform                  | 13.6          |   | 0.25  | 5.00 | ug/L  |
| Q1913-02          | WC-12-A-202504          | TCLP   | Trichloroethene             | 1.20          | J | 0.090 | 5.00 | ug/L  |
|                   |                         |        | <b>Total Voc :</b>          | <b>14.8</b>   |   |       |      |       |
|                   |                         |        | <b>Total Concentration:</b> | <b>14.8</b>   |   |       |      |       |
| <b>Client ID:</b> | <b>WC-13-S-202504</b>   |        |                             |               |   |       |      |       |
| Q1913-03          | WC-13-S-202504          | TCLP   | 2-Butanone                  | 7.60          | J | 0.98  | 25.0 | ug/L  |
| Q1913-03          | WC-13-S-202504          | TCLP   | Benzene                     | 1.30          | J | 0.15  | 5.00 | ug/L  |
|                   |                         |        | <b>Total Voc :</b>          | <b>8.90</b>   |   |       |      |       |
|                   |                         |        | <b>Total Concentration:</b> | <b>8.90</b>   |   |       |      |       |
| <b>Client ID:</b> | <b>WC-13-A-202504RE</b> |        |                             |               |   |       |      |       |
| Q1913-04RE        | WC-13-A-202504R         | TCLP   | Benzene                     | 0.95          | J | 0.15  | 5.00 | ug/L  |
|                   |                         |        | <b>Total Voc :</b>          | <b>0.95</b>   |   |       |      |       |
|                   |                         |        | <b>Total Concentration:</b> | <b>0.95</b>   |   |       |      |       |



# SAMPLE DATA

## Report of Analysis

|                    |                                        |                 |          |
|--------------------|----------------------------------------|-----------------|----------|
| Client:            | AECOM                                  | Date Collected: | 04/29/25 |
| Project:           | Meeker Ave Plumes Superfund Site RI FS | Date Received:  | 04/29/25 |
| Client Sample ID:  | WC-12-S-202504                         | SDG No.:        | Q1913    |
| Lab Sample ID:     | Q1913-01                               | Matrix:         | TCLP     |
| Analytical Method: | SW8260                                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 5 Units: mL                            | Final Vol:      | 5000 uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | TCLP VOA |
| GC Column:         | DB-624UI ID : 0.18                     | Level :         | LOW      |
| Prep Method :      | SW5035                                 |                 |          |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046006.D        | 1         |           | 04/30/25 18:24 | VX043025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26     | 5.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 0.98   | U         | 0.98     | 25.0       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 67-66-3                   | Chloroform             | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 71-43-2                   | Benzene                | 0.15   | U         | 0.15     | 5.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 0.22   | U         | 0.22     | 5.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 0.090  | U         | 0.090    | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 0.12   | U         | 0.12     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 54.9   |           | 74 - 125 | 110%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 51.5   |           | 75 - 124 | 103%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 51.0   |           | 86 - 113 | 102%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 53.7   |           | 77 - 121 | 107%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 59900  | 5.55      |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 120000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 114000 | 10.055    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 49900  | 12.018    |          |            |         |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                        |                 |          |
|--------------------|----------------------------------------|-----------------|----------|
| Client:            | AECOM                                  | Date Collected: | 04/29/25 |
| Project:           | Meeker Ave Plumes Superfund Site RI FS | Date Received:  | 04/29/25 |
| Client Sample ID:  | WC-12-A-202504                         | SDG No.:        | Q1913    |
| Lab Sample ID:     | Q1913-02                               | Matrix:         | TCLP     |
| Analytical Method: | SW8260                                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 5 Units: mL                            | Final Vol:      | 5000 uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | TCLP VOA |
| GC Column:         | DB-624UI ID : 0.18                     | Level :         | LOW      |
| Prep Method :      | SW5035                                 |                 |          |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046009.D        | 1         |           | 04/30/25 19:34 | VX043025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26     | 5.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 0.98   | U         | 0.98     | 25.0       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 67-66-3                   | Chloroform             | 13.6   |           | 0.25     | 5.00       | ug/L    |
| 71-43-2                   | Benzene                | 0.15   | U         | 0.15     | 5.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 0.22   | U         | 0.22     | 5.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 1.20   | J         | 0.090    | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 0.12   | U         | 0.12     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 53.5   |           | 74 - 125 | 107%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 51.0   |           | 75 - 124 | 102%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 50.5   |           | 86 - 113 | 101%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 54.0   |           | 77 - 121 | 108%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 66900  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 133000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 123000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 55200  | 12.018    |          |            |         |

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## Report of Analysis

|                    |                                        |                 |          |
|--------------------|----------------------------------------|-----------------|----------|
| Client:            | AECOM                                  | Date Collected: | 04/29/25 |
| Project:           | Meeker Ave Plumes Superfund Site RI FS | Date Received:  | 04/29/25 |
| Client Sample ID:  | WC-13-S-202504                         | SDG No.:        | Q1913    |
| Lab Sample ID:     | Q1913-03                               | Matrix:         | TCLP     |
| Analytical Method: | SW8260                                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 5 Units: mL                            | Final Vol:      | 5000 uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | TCLP VOA |
| GC Column:         | DB-624UI ID : 0.18                     | Level :         | LOW      |
| Prep Method :      | SW5035                                 |                 |          |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046007.D        | 1         |           | 04/30/25 18:47 | VX043025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26     | 5.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 7.60   | J         | 0.98     | 25.0       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 67-66-3                   | Chloroform             | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 71-43-2                   | Benzene                | 1.30   | J         | 0.15     | 5.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 0.22   | U         | 0.22     | 5.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 0.090  | U         | 0.090    | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 0.12   | U         | 0.12     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 53.2   |           | 74 - 125 | 106%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 50.8   |           | 75 - 124 | 102%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 49.7   |           | 86 - 113 | 99%        | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 54.4   |           | 77 - 121 | 109%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 60600  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 119000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 110000 | 10.055    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 50000  | 12.018    |          |            |         |

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## Report of Analysis

|                    |                                        |                 |          |
|--------------------|----------------------------------------|-----------------|----------|
| Client:            | AECOM                                  | Date Collected: | 04/29/25 |
| Project:           | Meeker Ave Plumes Superfund Site RI FS | Date Received:  | 04/29/25 |
| Client Sample ID:  | WC-13-A-202504                         | SDG No.:        | Q1913    |
| Lab Sample ID:     | Q1913-04                               | Matrix:         | TCLP     |
| Analytical Method: | SW8260                                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 5 Units: mL                            | Final Vol:      | 5000 uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | TCLP VOA |
| GC Column:         | DB-624UI ID : 0.18                     | Level :         | LOW      |
| Prep Method :      | SW5035                                 |                 |          |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046008.D        | 1         |           | 04/30/25 19:10 | VX043025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26     | 5.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 0.98   | U         | 0.98     | 25.0       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 67-66-3                   | Chloroform             | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 71-43-2                   | Benzene                | 0.15   | U         | 0.15     | 5.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 0.22   | U         | 0.22     | 5.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 0.090  | U         | 0.090    | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 0.12   | U         | 0.12     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 50.7   |           | 74 - 125 | 101%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 34.5   | *         | 75 - 124 | 69%        | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 50.1   |           | 86 - 113 | 100%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 56.7   |           | 77 - 121 | 113%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 65500  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 124000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 116000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 55700  | 12.018    |          |            |         |

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## Report of Analysis

|                    |                                        |                 |          |
|--------------------|----------------------------------------|-----------------|----------|
| Client:            | AECOM                                  | Date Collected: | 04/29/25 |
| Project:           | Meeker Ave Plumes Superfund Site RI FS | Date Received:  | 04/29/25 |
| Client Sample ID:  | WC-13-A-202504RE                       | SDG No.:        | Q1913    |
| Lab Sample ID:     | Q1913-04RE                             | Matrix:         | TCLP     |
| Analytical Method: | SW8260                                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 5 Units: mL                            | Final Vol:      | 5000 uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | TCLP VOA |
| GC Column:         | DB-624UI ID : 0.18                     | Level :         | LOW      |
| Prep Method :      | SW5035                                 |                 |          |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046018.D        | 1         |           | 05/02/25 11:31 | VX050225      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26     | 5.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 0.98   | U         | 0.98     | 25.0       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 67-66-3                   | Chloroform             | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 71-43-2                   | Benzene                | 0.95   | J         | 0.15     | 5.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 0.22   | U         | 0.22     | 5.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 0.090  | U         | 0.090    | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 0.12   | U         | 0.12     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 51.2   |           | 74 - 125 | 102%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 36.3   | *         | 75 - 124 | 73%        | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 50.1   |           | 86 - 113 | 100%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 53.2   |           | 77 - 121 | 106%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 65400  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 124000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 113000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 47500  | 12.018    |          |            |         |

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# QC SUMMARY

## Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8260D

| Lab Sample ID | Client ID        | Parameter             | Spike | Result | RecoveryQual | Limits |      |
|---------------|------------------|-----------------------|-------|--------|--------------|--------|------|
|               |                  |                       |       |        |              | Low    | High |
| Q1913-01      | WC-12-S-202504   | 1,2-Dichloroethane-d4 | 50    | 54.9   | 110          | 74     | 125  |
|               |                  | Dibromofluoromethane  | 50    | 51.5   | 103          | 75     | 124  |
|               |                  | Toluene-d8            | 50    | 51.0   | 102          | 86     | 113  |
|               |                  | 4-Bromofluorobenzene  | 50    | 53.7   | 107          | 77     | 121  |
| Q1913-02      | WC-12-A-202504   | 1,2-Dichloroethane-d4 | 50    | 53.5   | 107          | 74     | 125  |
|               |                  | Dibromofluoromethane  | 50    | 51.0   | 102          | 75     | 124  |
|               |                  | Toluene-d8            | 50    | 50.5   | 101          | 86     | 113  |
|               |                  | 4-Bromofluorobenzene  | 50    | 54.0   | 108          | 77     | 121  |
| Q1913-03      | WC-13-S-202504   | 1,2-Dichloroethane-d4 | 50    | 53.2   | 106          | 74     | 125  |
|               |                  | Dibromofluoromethane  | 50    | 50.8   | 102          | 75     | 124  |
|               |                  | Toluene-d8            | 50    | 49.7   | 99           | 86     | 113  |
|               |                  | 4-Bromofluorobenzene  | 50    | 54.4   | 109          | 77     | 121  |
| Q1913-04      | WC-13-A-202504   | 1,2-Dichloroethane-d4 | 50    | 50.7   | 101          | 74     | 125  |
|               |                  | Dibromofluoromethane  | 50    | 34.5   | 69 *         | 75     | 124  |
|               |                  | Toluene-d8            | 50    | 50.1   | 100          | 86     | 113  |
|               |                  | 4-Bromofluorobenzene  | 50    | 56.7   | 113          | 77     | 121  |
| Q1913-04RE    | WC-13-A-202504RE | 1,2-Dichloroethane-d4 | 50    | 51.2   | 102          | 74     | 125  |
|               |                  | Dibromofluoromethane  | 50    | 36.3   | 73 *         | 75     | 124  |
|               |                  | Toluene-d8            | 50    | 50.1   | 100          | 86     | 113  |
|               |                  | 4-Bromofluorobenzene  | 50    | 53.2   | 106          | 77     | 121  |
| VX0502WBL01   | VX0502WBL01      | 1,2-Dichloroethane-d4 | 50    | 53.0   | 106          | 74     | 125  |
|               |                  | Dibromofluoromethane  | 50    | 51.9   | 104          | 75     | 124  |
|               |                  | Toluene-d8            | 50    | 51.0   | 102          | 86     | 113  |
|               |                  | 4-Bromofluorobenzene  | 50    | 53.1   | 106          | 77     | 121  |
| VX0502WBS01   | VX0502WBS01      | 1,2-Dichloroethane-d4 | 50    | 46.8   | 94           | 74     | 125  |
|               |                  | Dibromofluoromethane  | 50    | 48.0   | 96           | 75     | 124  |
|               |                  | Toluene-d8            | 50    | 44.4   | 89           | 86     | 113  |
|               |                  | 4-Bromofluorobenzene  | 50    | 46.9   | 94           | 77     | 121  |

## Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8260-Low

| Lab Sample ID | Client ID    | Parameter             | Spike | Result | RecoveryQual | Limits |      |
|---------------|--------------|-----------------------|-------|--------|--------------|--------|------|
|               |              |                       |       |        |              | Low    | High |
| VX0430WBL01   | VX0430WBL01  | 1,2-Dichloroethane-d4 | 50    | 56.3   | 113          | 74     | 125  |
|               |              | Dibromofluoromethane  | 50    | 52.5   | 105          | 75     | 124  |
|               |              | Toluene-d8            | 50    | 50.4   | 101          | 86     | 113  |
|               |              | 4-Bromofluorobenzene  | 50    | 51.9   | 104          | 77     | 121  |
| VX0430WBS01   | VX0430WBS01  | 1,2-Dichloroethane-d4 | 50    | 54.6   | 109          | 74     | 125  |
|               |              | Dibromofluoromethane  | 50    | 56.5   | 113          | 75     | 124  |
|               |              | Toluene-d8            | 50    | 52.1   | 104          | 86     | 113  |
|               |              | 4-Bromofluorobenzene  | 50    | 55.7   | 111          | 77     | 121  |
| VX0430WBSD0   | VX0430WBSD01 | 1,2-Dichloroethane-d4 | 50    | 54.3   | 109          | 74     | 125  |
|               |              | Dibromofluoromethane  | 50    | 56.5   | 113          | 75     | 124  |
|               |              | Toluene-d8            | 50    | 52.0   | 104          | 86     | 113  |
|               |              | 4-Bromofluorobenzene  | 50    | 56.5   | 113          | 77     | 121  |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1913

**Client:** AECOM

**Analytical Method:** SW8260-Low

**Datafile :** VX045988.D

| Lab Sample ID | Parameter            | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits | RPD |
|---------------|----------------------|-------|--------|------|-----|-----|------|-----|--------|-----|
|               |                      |       |        |      |     |     |      |     | High   |     |
| VX0430WBS01   | Vinyl chloride       | 20    | 17.3   | ug/L | 86  |     |      | 65  | 117    |     |
|               | 1,1-Dichloroethene   | 20    | 18.5   | ug/L | 93  |     |      | 74  | 110    |     |
|               | 2-Butanone           | 100   | 110    | ug/L | 110 |     |      | 65  | 122    |     |
|               | Carbon Tetrachloride | 20    | 21.8   | ug/L | 109 |     |      | 77  | 113    |     |
|               | Chloroform           | 20    | 21.6   | ug/L | 108 |     |      | 79  | 113    |     |
|               | Benzene              | 20    | 20.2   | ug/L | 101 |     |      | 82  | 109    |     |
|               | 1,2-Dichloroethane   | 20    | 22.8   | ug/L | 114 |     |      | 80  | 115    |     |
|               | Trichloroethene      | 20    | 19.9   | ug/L | 100 |     |      | 77  | 113    |     |
|               | Tetrachloroethene    | 20    | 19.0   | ug/L | 95  |     |      | 67  | 123    |     |
|               | Chlorobenzene        | 20    | 21.3   | ug/L | 106 |     |      | 82  | 109    |     |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1913

**Client:** AECOM

**Analytical Method:** SW8260-Low

**Datafile :** VX045989.D

| Lab Sample ID | Parameter            | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits | RPD |
|---------------|----------------------|-------|--------|------|-----|-----|------|-----|--------|-----|
|               |                      |       |        |      |     |     |      |     | High   |     |
| VX0430WBSD01  | Vinyl chloride       | 20    | 16.6   | ug/L | 83  | 4   |      | 65  | 117    | 20  |
|               | 1,1-Dichloroethene   | 20    | 18.5   | ug/L | 93  | 0   |      | 74  | 110    | 20  |
|               | 2-Butanone           | 100   | 120    | ug/L | 120 | 9   |      | 65  | 122    | 20  |
|               | Carbon Tetrachloride | 20    | 21.8   | ug/L | 109 | 0   |      | 77  | 113    | 20  |
|               | Chloroform           | 20    | 21.0   | ug/L | 105 | 3   |      | 79  | 113    | 20  |
|               | Benzene              | 20    | 20.1   | ug/L | 101 | 0   |      | 82  | 109    | 20  |
|               | 1,2-Dichloroethane   | 20    | 22.6   | ug/L | 113 | 1   |      | 80  | 115    | 20  |
|               | Trichloroethene      | 20    | 20.2   | ug/L | 101 | 1   |      | 77  | 113    | 20  |
|               | Tetrachloroethene    | 20    | 20.1   | ug/L | 101 | 6   |      | 67  | 123    | 20  |
|               | Chlorobenzene        | 20    | 20.8   | ug/L | 104 | 2   |      | 82  | 109    | 20  |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1913

**Client:** AECOM

**Analytical Method:** SW8260D

**Datafile :** VX046016.D

| Lab Sample ID | Parameter            | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits | RPD |
|---------------|----------------------|-------|--------|------|-----|-----|------|-----|--------|-----|
|               |                      |       |        |      |     |     |      |     | High   |     |
| VX0502WBS01   | Vinyl chloride       | 20    | 15.3   | ug/L | 77  |     |      | 65  | 117    |     |
|               | 1,1-Dichloroethene   | 20    | 16.6   | ug/L | 83  |     |      | 74  | 110    |     |
|               | 2-Butanone           | 100   | 96.6   | ug/L | 97  |     |      | 65  | 122    |     |
|               | Carbon Tetrachloride | 20    | 19.2   | ug/L | 96  |     |      | 77  | 113    |     |
|               | Chloroform           | 20    | 19.5   | ug/L | 98  |     |      | 79  | 113    |     |
|               | Benzene              | 20    | 18.1   | ug/L | 91  |     |      | 82  | 109    |     |
|               | 1,2-Dichloroethane   | 20    | 19.7   | ug/L | 99  |     |      | 80  | 115    |     |
|               | Trichloroethene      | 20    | 17.9   | ug/L | 90  |     |      | 77  | 113    |     |
|               | Tetrachloroethene    | 20    | 18.6   | ug/L | 93  |     |      | 67  | 123    |     |
|               | Chlorobenzene        | 20    | 19.2   | ug/L | 96  |     |      | 82  | 109    |     |

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0430WBL01

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM Case No.: Q1913

SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX045987.D

Lab Sample ID: VX0430WBL01

Date Analyzed: 04/30/2025

Time Analyzed: 10:55

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| VX0430WBS01       | VX0430WBS01      | VX045988.D     | 04/30/2025       |
| VX0430WBSD01      | VX0430WBSD01     | VX045989.D     | 04/30/2025       |
| WC-12-S-202504    | Q1913-01         | VX046006.D     | 04/30/2025       |
| WC-13-S-202504    | Q1913-03         | VX046007.D     | 04/30/2025       |
| WC-13-A-202504    | Q1913-04         | VX046008.D     | 04/30/2025       |
| WC-12-A-202504    | Q1913-02         | VX046009.D     | 04/30/2025       |

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0502WBL01

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM Case No.: Q1913

SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX046015.D

Lab Sample ID: VX0502WBL01

Date Analyzed: 05/02/2025

Time Analyzed: 10:19

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| VX0502WBS01       | VX0502WBS01      | VX046016.D     | 05/02/2025       |
| WC-13-A-202504RE  | Q1913-04RE       | VX046018.D     | 05/02/2025       |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02  
Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913  
Lab File ID: VX045524.D BFB Injection Date: 04/01/2025  
Instrument ID: MSVOA\_X BFB Injection Time: 16:15  
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 23.6                 |
| 75  | 30.0 - 60.0% of mass 95            | 58.2                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.3                  |
| 173 | Less than 2.0% of mass 174         | 0.8 ( 1.2 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 66.8                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.2 ( 7.8 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 65.3 ( 97.8 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.4 ( 6.8 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDIC001         | VSTDIC001        | VX045525.D     | 04/01/2025       | 17:06            |
| VSTDIC005         | VSTDIC005        | VX045526.D     | 04/01/2025       | 17:29            |
| VSTDIC020         | VSTDIC020        | VX045527.D     | 04/01/2025       | 17:52            |
| VSTDIC050         | VSTDIC050        | VX045528.D     | 04/01/2025       | 18:15            |
| VSTDIC100         | VSTDIC100        | VX045529.D     | 04/01/2025       | 18:38            |
| VSTDIC150         | VSTDIC150        | VX045530.D     | 04/01/2025       | 19:02            |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02  
Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913  
Lab File ID: VX045984.D BFB Injection Date: 04/30/2025  
Instrument ID: MSVOA\_X BFB Injection Time: 09:32  
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.5                 |
| 75  | 30.0 - 60.0% of mass 95            | 57.2                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.5                  |
| 173 | Less than 2.0% of mass 174         | 1 ( 1.4 ) 1          |
| 174 | 50.0 - 100.0% of mass 95           | 69.5                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.3 ( 7.7 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 67.1 ( 96.5 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.5 ( 6.6 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDCCC050        | VSTDCCC050       | VX045985.D     | 04/30/2025       | 10:01            |
| VX0430WBL01       | VX0430WBL01      | VX045987.D     | 04/30/2025       | 10:55            |
| VX0430WBS01       | VX0430WBS01      | VX045988.D     | 04/30/2025       | 11:19            |
| VX0430WBSD01      | VX0430WBSD01     | VX045989.D     | 04/30/2025       | 11:46            |
| WC-12-S-202504    | Q1913-01         | VX046006.D     | 04/30/2025       | 18:24            |
| WC-13-S-202504    | Q1913-03         | VX046007.D     | 04/30/2025       | 18:47            |
| WC-13-A-202504    | Q1913-04         | VX046008.D     | 04/30/2025       | 19:10            |
| WC-12-A-202504    | Q1913-02         | VX046009.D     | 04/30/2025       | 19:34            |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02  
Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913  
Lab File ID: VX046012.D BFB Injection Date: 05/02/2025  
Instrument ID: MSVOA\_X BFB Injection Time: 08:56  
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 23.4                 |
| 75  | 30.0 - 60.0% of mass 95            | 57.6                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |
| 173 | Less than 2.0% of mass 174         | 0.6 ( 0.8 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 68.5                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.2 ( 7.6 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 65.7 ( 95.8 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.3 ( 6.6 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDCCC050        | VSTDCCC050       | VX046013.D     | 05/02/2025       | 09:26            |
| VX0502WBL01       | VX0502WBL01      | VX046015.D     | 05/02/2025       | 10:19            |
| VX0502WBS01       | VX0502WBS01      | VX046016.D     | 05/02/2025       | 10:42            |
| WC-13-A-202504RE  | Q1913-04RE       | VX046018.D     | 05/02/2025       | 11:31            |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02  
 Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913  
 Lab File ID: VX045985.D Date Analyzed: 04/30/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 10:01  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                | IS1<br>AREA # | RT #  | IS2<br>AREA # | RT # | IS3<br>AREA # | RT #   |
|----------------|---------------|-------|---------------|------|---------------|--------|
| 12 HOUR STD    | 83019         | 5.55  | 141256        | 6.75 | 122754        | 10.05  |
| UPPER LIMIT    | 166038        | 6.049 | 282512        | 7.25 | 245508        | 10.549 |
| LOWER LIMIT    | 41509.5       | 5.049 | 70628         | 6.25 | 61377         | 9.549  |
| EPA SAMPLE NO. |               |       |               |      |               |        |
| WC-12-S-202504 | 59864         | 5.55  | 119812        | 6.76 | 114218        | 10.06  |
| WC-12-A-202504 | 66850         | 5.54  | 132618        | 6.76 | 122930        | 10.05  |
| WC-13-S-202504 | 60625         | 5.54  | 119343        | 6.76 | 109935        | 10.06  |
| WC-13-A-202504 | 65498         | 5.54  | 124153        | 6.76 | 116068        | 10.05  |
| VX0430WBL01    | 62274         | 5.54  | 125239        | 6.76 | 116463        | 10.05  |
| VX0430WBS01    | 79591         | 5.54  | 138531        | 6.76 | 123154        | 10.05  |
| VX0430WBSD01   | 77091         | 5.54  | 132529        | 6.76 | 119517        | 10.05  |

IS1 = Pentafluorobenzene  
 IS2 = 1,4-Difluorobenzene  
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = -50% of internal standard area  
 RT UPPER LIMIT = +0.50 minutes of internal standard RT  
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02  
 Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913  
 Lab File ID: VX045985.D Date Analyzed: 04/30/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 10:01  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                | IS4<br>AREA # | RT #   |  |  |  |  |
|----------------|---------------|--------|--|--|--|--|
| 12 HOUR STD    | 60558         | 12.018 |  |  |  |  |
| UPPER LIMIT    | 121116        | 12.518 |  |  |  |  |
| LOWER LIMIT    | 30279         | 11.518 |  |  |  |  |
| EPA SAMPLE NO. |               |        |  |  |  |  |
| WC-12-S-202504 | 49878         | 12.02  |  |  |  |  |
| WC-12-A-202504 | 55161         | 12.02  |  |  |  |  |
| WC-13-S-202504 | 50027         | 12.02  |  |  |  |  |
| WC-13-A-202504 | 55748         | 12.02  |  |  |  |  |
| VX0430WBL01    | 49781         | 12.02  |  |  |  |  |
| VX0430WBS01    | 58135         | 12.02  |  |  |  |  |
| VX0430WBSD01   | 57970         | 12.02  |  |  |  |  |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = -50% of internal standard area  
 RT UPPER LIMIT = +0.50 minutes of internal standard RT  
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02  
Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913  
Lab File ID: VX046013.D Date Analyzed: 05/02/2025  
Instrument ID: MSVOA\_X Time Analyzed: 09:26  
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                  | IS1<br>AREA # | RT #  | IS2<br>AREA # | RT #  | IS3<br>AREA # | RT #   |
|------------------|---------------|-------|---------------|-------|---------------|--------|
| 12 HOUR STD      | 88170         | 5.54  | 150204        | 6.75  | 131792        | 10.05  |
| UPPER LIMIT      | 176340        | 6.044 | 300408        | 7.251 | 263584        | 10.549 |
| LOWER LIMIT      | 44085         | 5.044 | 75102         | 6.251 | 65896         | 9.549  |
| EPA SAMPLE NO.   |               |       |               |       |               |        |
| WC-13-A-202504RE | 65405         | 5.54  | 123884        | 6.76  | 113310        | 10.05  |
| VX0502WBL01      | 66865         | 5.54  | 129422        | 6.76  | 121808        | 10.05  |
| VX0502WBS01      | 77025         | 5.55  | 135229        | 6.76  | 118203        | 10.05  |

IS1 = Pentafluorobenzene  
IS2 = 1,4-Difluorobenzene  
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area  
AREA LOWER LIMIT = -50% of internal standard area  
RT UPPER LIMIT = +0.50 minutes of internal standard RT  
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
\* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02  
 Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913  
 Lab File ID: VX046013.D Date Analyzed: 05/02/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 09:26  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                  | IS4<br>AREA # | RT #   |  |  |  |  |
|------------------|---------------|--------|--|--|--|--|
| 12 HOUR STD      | 63914         | 12.018 |  |  |  |  |
| UPPER LIMIT      | 127828        | 12.518 |  |  |  |  |
| LOWER LIMIT      | 31957         | 11.518 |  |  |  |  |
| EPA SAMPLE NO.   |               |        |  |  |  |  |
| WC-13-A-202504RE | 47494         | 12.02  |  |  |  |  |
| VX0502WBL01      | 52200         | 12.02  |  |  |  |  |
| VX0502WBS01      | 56323         | 12.02  |  |  |  |  |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = -50% of internal standard area  
 RT UPPER LIMIT = +0.50 minutes of internal standard RT  
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.



# QC SAMPLE DATA

## Report of Analysis

|                    |                                        |           |                 |          |    |
|--------------------|----------------------------------------|-----------|-----------------|----------|----|
| Client:            | AECOM                                  |           | Date Collected: |          |    |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |           | Date Received:  |          |    |
| Client Sample ID:  | VX0430WBL01                            |           | SDG No.:        | Q1913    |    |
| Lab Sample ID:     | VX0430WBL01                            |           | Matrix:         | TCLP     |    |
| Analytical Method: | SW8260                                 |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000     | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | TCLP VOA |    |
| GC Column:         | DB-624UI                               | ID : 0.18 | Level :         | LOW      |    |
| Prep Method :      |                                        |           |                 |          |    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX045987.D        | 1         |           | 04/30/25 10:55 | VX043025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26     | 1.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 0.23   | U         | 0.23     | 1.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 0.98   | U         | 0.98     | 5.00       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 0.25   | U         | 0.25     | 1.00       | ug/L    |
| 67-66-3                   | Chloroform             | 0.25   | U         | 0.25     | 1.00       | ug/L    |
| 71-43-2                   | Benzene                | 0.15   | U         | 0.15     | 1.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 0.22   | U         | 0.22     | 1.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 0.090  | U         | 0.090    | 1.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23     | 1.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 0.12   | U         | 0.12     | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 56.3   |           | 74 - 125 | 113%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 52.5   |           | 75 - 124 | 105%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 50.4   |           | 86 - 113 | 101%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 51.9   |           | 77 - 121 | 104%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 62300  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 125000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 116000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 49800  | 12.018    |          |            |         |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                        |           |                 |          |    |
|--------------------|----------------------------------------|-----------|-----------------|----------|----|
| Client:            | AECOM                                  |           | Date Collected: |          |    |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |           | Date Received:  |          |    |
| Client Sample ID:  | VX0502WBL01                            |           | SDG No.:        | Q1913    |    |
| Lab Sample ID:     | VX0502WBL01                            |           | Matrix:         | TCLP     |    |
| Analytical Method: | SW8260                                 |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000     | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | TCLP VOA |    |
| GC Column:         | DB-624UI                               | ID : 0.18 | Level :         | LOW      |    |
| Prep Method :      |                                        |           |                 |          |    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046015.D        | 1         |           | 05/02/25 10:19 | VX050225      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26     | 5.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 0.98   | U         | 0.98     | 25.0       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 67-66-3                   | Chloroform             | 0.25   | U         | 0.25     | 5.00       | ug/L    |
| 71-43-2                   | Benzene                | 0.15   | U         | 0.15     | 5.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 0.22   | U         | 0.22     | 5.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 0.090  | U         | 0.090    | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 0.12   | U         | 0.12     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 53.0   |           | 74 - 125 | 106%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 51.9   |           | 75 - 124 | 104%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 51.0   |           | 86 - 113 | 102%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 53.1   |           | 77 - 121 | 106%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 66900  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 129000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 122000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 52200  | 12.018    |          |            |         |

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\* = Values outside of QC limits

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A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                        |           |                 |          |    |
|--------------------|----------------------------------------|-----------|-----------------|----------|----|
| Client:            | AECOM                                  |           | Date Collected: |          |    |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |           | Date Received:  |          |    |
| Client Sample ID:  | VX0430WBS01                            |           | SDG No.:        | Q1913    |    |
| Lab Sample ID:     | VX0430WBS01                            |           | Matrix:         | TCLP     |    |
| Analytical Method: | SW8260                                 |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000     | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | TCLP VOA |    |
| GC Column:         | DB-624UI                               | ID : 0.18 | Level :         | LOW      |    |
| Prep Method :      |                                        |           |                 |          |    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX045988.D        | 1         |           | 04/30/25 11:19 | VX043025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 17.3   |           | 0.26     | 1.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 18.5   |           | 0.23     | 1.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 110    |           | 0.98     | 5.00       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 21.8   |           | 0.25     | 1.00       | ug/L    |
| 67-66-3                   | Chloroform             | 21.6   |           | 0.25     | 1.00       | ug/L    |
| 71-43-2                   | Benzene                | 20.2   |           | 0.15     | 1.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 22.8   |           | 0.22     | 1.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 19.9   |           | 0.090    | 1.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 19.0   |           | 0.23     | 1.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 21.3   |           | 0.12     | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 54.6   |           | 74 - 125 | 109%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 56.5   |           | 75 - 124 | 113%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 52.1   |           | 86 - 113 | 104%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 55.7   |           | 77 - 121 | 111%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 79600  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 139000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 123000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 58100  | 12.018    |          |            |         |

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## Report of Analysis

|                    |                                        |           |                 |          |    |
|--------------------|----------------------------------------|-----------|-----------------|----------|----|
| Client:            | AECOM                                  |           | Date Collected: |          |    |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |           | Date Received:  |          |    |
| Client Sample ID:  | VX0502WBS01                            |           | SDG No.:        | Q1913    |    |
| Lab Sample ID:     | VX0502WBS01                            |           | Matrix:         | TCLP     |    |
| Analytical Method: | SW8260                                 |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000     | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | TCLP VOA |    |
| GC Column:         | DB-624UI                               | ID : 0.18 | Level :         | LOW      |    |
| Prep Method :      |                                        |           |                 |          |    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046016.D        | 1         |           | 05/02/25 10:42 | VX050225      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 15.3   |           | 0.26     | 5.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 16.6   |           | 0.23     | 5.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 96.6   |           | 0.98     | 25.0       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 19.2   |           | 0.25     | 5.00       | ug/L    |
| 67-66-3                   | Chloroform             | 19.5   |           | 0.25     | 5.00       | ug/L    |
| 71-43-2                   | Benzene                | 18.1   |           | 0.15     | 5.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 19.7   |           | 0.22     | 5.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 17.9   |           | 0.090    | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 18.6   |           | 0.23     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 19.2   |           | 0.12     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 46.8   |           | 74 - 125 | 94%        | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 48.0   |           | 75 - 124 | 96%        | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 44.3   |           | 86 - 113 | 89%        | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 46.9   |           | 77 - 121 | 94%        | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 77000  | 5.55      |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 135000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 118000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 56300  | 12.018    |          |            |         |

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## Report of Analysis

|                    |                                        |           |                 |          |    |
|--------------------|----------------------------------------|-----------|-----------------|----------|----|
| Client:            | AECOM                                  |           | Date Collected: |          |    |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |           | Date Received:  |          |    |
| Client Sample ID:  | VX0430WBSD01                           |           | SDG No.:        | Q1913    |    |
| Lab Sample ID:     | VX0430WBSD01                           |           | Matrix:         | TCLP     |    |
| Analytical Method: | SW8260                                 |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000     | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | TCLP VOA |    |
| GC Column:         | DB-624UI                               | ID : 0.18 | Level :         | LOW      |    |
| Prep Method :      |                                        |           |                 |          |    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX045989.D        | 1         |           | 04/30/25 11:46 | VX043025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |          |            |         |
| 75-01-4                   | Vinyl Chloride         | 16.6   |           | 0.26     | 1.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 18.5   |           | 0.23     | 1.00       | ug/L    |
| 78-93-3                   | 2-Butanone             | 120    |           | 0.98     | 5.00       | ug/L    |
| 56-23-5                   | Carbon Tetrachloride   | 21.8   |           | 0.25     | 1.00       | ug/L    |
| 67-66-3                   | Chloroform             | 21.0   |           | 0.25     | 1.00       | ug/L    |
| 71-43-2                   | Benzene                | 20.1   |           | 0.15     | 1.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 22.6   |           | 0.22     | 1.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 20.2   |           | 0.090    | 1.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 20.1   |           | 0.23     | 1.00       | ug/L    |
| 108-90-7                  | Chlorobenzene          | 20.8   |           | 0.12     | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 54.3   |           | 74 - 125 | 109%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 56.5   |           | 75 - 124 | 113%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 52.0   |           | 86 - 113 | 104%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 56.5   |           | 77 - 121 | 113%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |         |
| 363-72-4                  | Pentafluorobenzene     | 77100  | 5.544     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 133000 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 120000 | 10.049    |          |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 58000  | 12.018    |          |            |         |

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



# CALIBRATION SUMMARY

### VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO02  
 Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913  
 Instrument ID: MSVOA\_X Calibration Date(s): 04/01/2025 04/01/2025  
 Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02  
 GC Column: DB-624UI ID: 0.18 (mm)

| LAB FILE ID:          |        | RRF001 = VX045525.D |        | RRF005 = VX045526.D |        | RRF020 = VX045527.D |       |       |  |
|-----------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|--|
|                       |        | RRF050 = VX045528.D |        | RRF100 = VX045529.D |        | RRF150 = VX045530.D |       |       |  |
| COMPOUND              | RRF001 | RRF005              | RRF020 | RRF050              | RRF100 | RRF150              | RRF   | % RSD |  |
| Vinyl Chloride        | 0.671  | 0.662               | 0.701  | 0.716               | 0.738  | 0.730               | 0.703 | 4.4   |  |
| 1,1-Dichloroethene    | 0.563  | 0.588               | 0.612  | 0.604               | 0.618  | 0.616               | 0.600 | 3.5   |  |
| 2-Butanone            | 0.474  | 0.537               | 0.582  | 0.586               | 0.571  | 0.548               | 0.550 | 7.5   |  |
| Carbon Tetrachloride  | 0.450  | 0.497               | 0.521  | 0.536               | 0.545  | 0.556               | 0.518 | 7.5   |  |
| Chloroform            | 1.244  | 1.309               | 1.348  | 1.315               | 1.309  | 1.309               | 1.306 | 2.6   |  |
| Benzene               | 1.414  | 1.416               | 1.519  | 1.481               | 1.483  | 1.465               | 1.463 | 2.8   |  |
| 1,2-Dichloroethane    | 0.533  | 0.585               | 0.649  | 0.622               | 0.620  | 0.617               | 0.604 | 6.7   |  |
| Trichloroethene       | 0.349  | 0.322               | 0.356  | 0.351               | 0.351  | 0.356               | 0.348 | 3.7   |  |
| Tetrachloroethene     | 0.346  | 0.373               | 0.371  | 0.347               | 0.333  | 0.347               | 0.353 | 4.5   |  |
| Chlorobenzene         | 0.951  | 1.054               | 1.123  | 1.084               | 1.086  | 1.112               | 1.068 | 5.8   |  |
| 1,2-Dichloroethane-d4 |        | 0.962               | 0.900  | 0.868               | 0.904  | 0.937               | 0.914 | 3.9   |  |
| Dibromofluoromethane  |        | 0.372               | 0.342  | 0.345               | 0.353  | 0.362               | 0.355 | 3.5   |  |
| Toluene-d8            |        | 1.257               | 1.233  | 1.214               | 1.230  | 1.257               | 1.238 | 1.5   |  |
| 4-Bromofluorobenzene  |        | 0.413               | 0.448  | 0.453               | 0.481  | 0.460               | 0.451 | 5.5   |  |

\* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.  
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: MSVOA\_X Calibration Date/Time: 04/30/2025 10:01

Lab File ID: VX045985.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND              | RRF   | RRF050 | MIN<br>RRF | %D    | MAX%D |
|-----------------------|-------|--------|------------|-------|-------|
| Vinyl Chloride        | 0.703 | 0.712  |            | 1.28  | 20    |
| 1,1-Dichloroethene    | 0.600 | 0.646  |            | 7.67  | 20    |
| 2-Butanone            | 0.550 | 0.628  |            | 14.18 | 20    |
| Carbon Tetrachloride  | 0.518 | 0.632  |            | 22.01 | 20    |
| Chloroform            | 1.306 | 1.474  |            | 12.86 | 20    |
| Benzene               | 1.463 | 1.629  |            | 11.35 | 20    |
| 1,2-Dichloroethane    | 0.604 | 0.716  |            | 18.54 | 20    |
| Trichloroethene       | 0.348 | 0.381  |            | 9.48  | 20    |
| Tetrachloroethene     | 0.353 | 0.398  |            | 12.75 | 20    |
| Chlorobenzene         | 1.068 | 1.246  | 0.3        | 16.67 | 20    |
| 1,2-Dichloroethane-d4 | 0.914 | 0.976  |            | 6.78  | 20    |
| Dibromofluoromethane  | 0.355 | 0.405  |            | 14.09 | 20    |
| Toluene-d8            | 1.238 | 1.287  |            | 3.96  | 20    |
| 4-Bromofluorobenzene  | 0.451 | 0.514  |            | 13.97 | 20    |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: MSVOA\_X Calibration Date/Time: 05/02/2025 09:26

Lab File ID: VX046013.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND              | RRF   | RRF050 | MIN<br>RRF | %D    | MAX%D |
|-----------------------|-------|--------|------------|-------|-------|
| Vinyl Chloride        | 0.703 | 0.648  |            | -7.82 | 20    |
| 1,1-Dichloroethene    | 0.600 | 0.589  |            | -1.83 | 20    |
| 2-Butanone            | 0.550 | 0.591  |            | 7.45  | 20    |
| Carbon Tetrachloride  | 0.518 | 0.593  |            | 14.48 | 20    |
| Chloroform            | 1.306 | 1.370  |            | 4.9   | 20    |
| Benzene               | 1.463 | 1.528  |            | 4.44  | 20    |
| 1,2-Dichloroethane    | 0.604 | 0.665  |            | 10.1  | 20    |
| Trichloroethene       | 0.348 | 0.368  |            | 5.75  | 20    |
| Tetrachloroethene     | 0.353 | 0.396  |            | 12.18 | 20    |
| Chlorobenzene         | 1.068 | 1.172  | 0.3        | 9.74  | 20    |
| 1,2-Dichloroethane-d4 | 0.914 | 0.908  |            | -0.66 | 20    |
| Dibromofluoromethane  | 0.355 | 0.375  |            | 5.63  | 20    |
| Toluene-d8            | 1.238 | 1.201  |            | -2.99 | 20    |
| 4-Bromofluorobenzene  | 0.451 | 0.502  |            | 11.31 | 20    |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.