TABLE 2.4-4
WATER SAMPLE ANALYSIS SUMMARY OF FIELD DUPLICATE SAMPLES FOR SELECT VOCS
FYNOP, 1425 EDEN ROAD, YORK, PA 17402

| | COD-SW-15 | COD-SW-15 | | COD-SW-15 | COD-SW-15 | | COD-SW-15 | COD-SW-15 | |
|---|---|---|---|---|---|---|---|---|---|
| | 7/15/14 | 7/15/14 | | 3/10/15 | 3/10/15 | | 6/15/15 | 6/15/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-34870 | 180-34870 | RPD | 180-41935 | 180-41935 | RPD | 180-45088 | 180-45088 | RPD |
| 1,1,1-Trichloroethane | 0.35 | 0.32 | 9.0% | 0.41 | 0.48 | 15.7% | 0.47 | 0.53 | 12.0% |
| 1,1-Dichloroethane | 0 | 0 | NA | 0.16 | 0.15 | 6.5% | 0 | 0 | NA |
| 1,1-Dichloroethene | 0 | 0 | NA | 0.51 | 0.37 | 31.8% | 0.5 | 0.49 | 2.0% |
| cis-1,2-Dichloroethene | 7.9 | 7.3 | 7.9% | 10 | 9.3 | 7.3% | 11 | 11 | 0.0% |
| Tetrachloroethene | 5.5 | 4.7 | 15.7% | 4.7 | 4.7 | 0.0% | 6.2 | 6.1 | 1.6% |
| Trichloroethene | 5.8 | 5.6 | 3.5% | 8.6 | 7.7 | 11.0% | 9.3 | 9.5 | 2.1% |

| | COD-SW-15 | COD-SW-15 | | COD-SW-15 | COD-SW-15 | | COD-SW-15 | COD-SW-15 | |
|---|---|---|---|---|---|---|---|---|---|
| | 7/15/15 | 7/15/15 | | 8/14/15 | 8/14/15 | | 9/15/15 | 9/15/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-45946 | 180-45946 | RPD | 180-46875 | 180-46875 | RPD | 180-47781 | 180-47781 | RPD |
| 1,1,1-Trichloroethane | 0.36 | 0.37 | 2.7% | 0.52 | 0.55 | 5.6% | 0.57 | 0.59 | 3.4% |
| 1,1-Dichloroethane | 0 | 0.14 | NA | 0.18 | 0.21 | 15.4% | 0.26 | 0.25 | 3.9% |
| 1,1-Dichloroethene | 0.48 | 0.53 | 9.9% | 0.63 | 0.65 | 3.1% | 0.77 | 0.65 | 16.9% |
| cis-1,2-Dichloroethene | 9.6 | 9.7 | 1.0% | 12 | 12 | 0.0% | 15 | 15 | 0.0% |
| Tetrachloroethene | 5.4 | 5.7 | 5.4% | 7.8 | 7.7 | 1.3% | 9.2 | 8.9 | 3.3% |
| Trichloroethene | 8.4 | 8.8 | 4.7% | 12 | 11 | 8.7% | 17 | 17 | 0.0% |

| | COD-SW-17 | COD-SW-17 | | COD-SW-17 | COD-SW-17 | | COD-SW-17 | COD-SW-17 | |
|---|---|---|---|---|---|---|---|---|---|
| | 1/17/14 | 1/17/14 | | 3/4/14 | 3/4/14 | | 8/25/14 | 8/25/14 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-29094 | 180-29094 | RPD | 180-30352 | 180-30352 | RPD | 180-36095 | 180-36095 | RPD |
| 1,1,1-Trichloroethane | 6.7 | 3.1 | 73.5% | 25 | 28 | 11.3% | 6.5 | 8.4 | 25.5% |
| 1,1-Dichloroethane | 0.61 | 0 | NA | 0 | 2.5 | NA | 0 | 1.6 | NA |
| 1,1-Dichloroethene | 0 | 0 | NA | 0 | 4.4 | NA | 1.7 | 1.8 | 5.7% |
| cis-1,2-Dichloroethene | 10 | 5.5 | 58.1% | 59 | 55 | 7.0% | 24 | 30 | 22.2% |
| Tetrachloroethene | 100 | 49 | 68.5% | 390 | 340 | 13.7% | 86 | 93 | 7.8% |
| Trichloroethene | 30 | 15 | 66.7% | 110 | 93 | 16.7% | 27 | 34 | 23.0% |

| | COD-SW-17 | COD-SW-17 | | COD-SW-17 | COD-SW-17 | | COD-SW-17 | COD-SW-17 | |
|---|---|---|---|---|---|---|---|---|---|
| | 9/22/14 | 9/22/14 | | 11/3/14 | 11/3/14 | | 11/20/14 | 11/20/14 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-36898 | 180-36898 | RPD | 180-38443 | 180-38443 | RPD | 180-39150 | 180-39150 | RPD |
| 1,1,1-Trichloroethane | 17 | 23 | 30.0% | 15 | 17 | 12.5% | 16 | 18 | 11.8% |
| 1,1-Dichloroethane | 2.8 | 2.5 | 11.3% | 1.8 | 1.9 | 5.4% | 0 | 2.2 | NA |
| 1,1-Dichloroethene | 3 | 3.3 | 9.5% | 2.5 | 3.3 | 27.6% | 0 | 4 | NA |
| cis-1,2-Dichloroethene | 43 | 46 | 6.7% | 39 | 36 | 8.0% | 47 | 39 | 18.6% |
| Tetrachloroethene | 260 | 240 | 8.0% | 190 | 180 | 5.4% | 220 | 200 | 9.5% |
| Trichloroethene | 69 | 70 | 1.4% | 77 | 67 | 13.9% | 95 | 82 | 14.7% |

| | COD-SW-17 | COD-SW-17 | | COD-SW-17 | COD-SW-17 | | COD-SW-17 | COD-SW-17 | |
|---|---|---|---|---|---|---|---|---|---|
| | 12/3/14 | 12/3/14 | | 12/22/14 | 12/22/14 | | 5/20/15 | 5/20/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-39461 | 180-39461 | RPD | 180-40076 | 180-40076 | RPD | 180-44321 | 180-44321 | RPD |
| 1,1,1-Trichloroethane | 27 | 30 | 10.5% | 26 | 19 | 31.1% | 0 | 0 | NA |
| 1,1-Dichloroethane | 2.7 | 2.9 | 7.1% | 0 | 0 | NA | 0 | 0 | NA |
| 1,1-Dichloroethene | 5.5 | 5.4 | 1.8% | 6.1 | 0 | NA | 0 | 0 | NA |
| cis-1,2-Dichloroethene | 61 | 50 | 19.8% | 53 | 47 | 12.0% | 0.98 | 1.4 | 35.3% |
| Tetrachloroethene | 330 | 260 | 23.7% | 360 | 260 | 32.3% | 1.4 | 1.6 | 13.3% |
| Trichloroethene | 120 | 100 | 18.2% | 130 | 93 | 33.2% | 0.94 | 1.1 | 15.7% |

| | CW-18 | CW-18 | | CW-18 | CW-18 | | CW-18 | CW-18 | |
|---|---|---|---|---|---|---|---|---|---|
| | 6/5/14 | 6/5/14 | | 7/8/14 | 7/8/14 | | 2/26/15 | 2/26/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-33551 | 180-33551 | RPD | 180-34653 | 180-34653 | RPD | 180-41569 | 180-41569 | RPD |
| 1,1,1-Trichloroethane | 0.33 | 0.45 | 30.8% | 1 | 0.53 | 61.4% | 0 | 0 | NA |
| 1,1-Dichloroethane | 0 | 1 | NA | 1.3 | 0.88 | 38.5% | 1.8 | 1.7 | 5.7% |
| 1,1-Dichloroethene | 1.2 | 1.8 | 40.0% | 1.8 | 1.4 | 25.0% | 0.99 | 0.95 | 4.1% |
| cis-1,2-Dichloroethene | 36 | 42 | 15.4% | 52 | 55 | 5.6% | 30 | 29 | 3.4% |
| Tetrachloroethene | 0.75 | 0.82 | 8.9% | 0 | 1.7 | NA | 0.45 | 0.51 | 12.5% |
| Trichloroethene | 10 | 12 | 18.2% | 27 | 27 | 0.0% | 7.4 | 7.4 | 0.0% |

**Key:**

| | |
|---|---|
| 45.0% | Pink highlighted cells indicate a 30% exceedence of the RPD. |
| NA | RPD cannot be calculated or is not meaningful because one or both results are non-detect. |
| 35.0% | One result is less than five times the reporting level for VOCs (1 ug/L x 5 = 5 ug/L) and the results are within three times the reporting level (3 ug/L) of each other. Therefore, the RPD is acceptable per Table A-4 of the QAPP. |

TABLE 2.4-4
WATER SAMPLE ANALYSIS SUMMARY OF FIELD DUPLICATE SAMPLES FOR SELECT VOCS
FYNOP, 1425 EDEN ROAD, YORK, PA 17402

| Analyte | CW-7A 10/6/15 180-48564 | CW-7A 10/6/15 Dup 180-48564 | RPD | MW-100D 4/21/14 180-31954 | MW-100D 4/21/14 Dup 180-31954 | RPD | MW-100D 5/19/14 180-32966 | MW-100D 5/19/14 Dup 180-32966 | RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0 | 0 | NA | 2.2 | 2.1 | 4.7% | 1.5 | 1.7 | 12.5% |
| 1,1-Dichloroethane | 0 | 0 | NA | 0.89 | 0.94 | 5.5% | 0.85 | 1 | 16.2% |
| 1,1-Dichloroethene | 0 | 0 | NA | 3.2 | 3.2 | 0.0% | 2.5 | 2.9 | 14.8% |
| cis-1,2-Dichloroethene | 2 | 2 | 0.0% | 42 | 41 | 2.4% | 34 | 37 | 8.5% |
| Tetrachloroethene | 8.6 | 9.2 | 6.7% | 84 | 72 | 15.4% | 42 | 48 | 13.3% |
| Trichloroethene | 130 | 120 | 8.0% | 110 | 92 | 17.8% | 52 | 68 | 26.7% |

| Analyte | MW-100D 10/6/14 180-37353 | MW-100D 10/6/14 Dup 180-37353 | RPD | MW-100I 8/5/14 180-35469 | MW-100I 8/5/14 Dup 180-35469 | RPD | MW-100I 9/8/14 180-36462 | MW-100I 9/8/14 Dup 180-36462 | RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.82 | 0.92 | 11.5% | 0.99 | 0.82 | 18.8% | 0.88 | 0.76 | 14.6% |
| 1,1-Dichloroethane | 0.66 | 0 | NA | 0.48 | 0.44 | 8.7% | 0.4 | 0.37 | 7.8% |
| 1,1-Dichloroethene | 1.6 | 1.6 | 0.0% | 1.4 | 1.3 | 7.4% | 1.1 | 1 | 9.5% |
| cis-1,2-Dichloroethene | 24 | 26 | 8.0% | 19 | 20 | 5.1% | 18 | 17 | 5.7% |
| Tetrachloroethene | 32 | 34 | 6.1% | 24 | 23 | 4.3% | 19 | 18 | 5.4% |
| Trichloroethene | 41 | 38 | 7.6% | 36 | 35 | 2.8% | 31 | 24 | 25.5% |

| Analyte | MW-100I 10/28/14 180-38183 | MW-100I 10/28/14 Dup 180-38183 | RPD | MW-100I 3/24/15 180-42353 | MW-100I 3/24/15 Dup 180-42353 | RPD | MW-100S 7/1/14 180-34457 | MW-100S 7/1/14 Dup 180-34457 | RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | 1.6 | 46.2% | 1.4 | 1.4 | 0.0% | 2.2 | 2.4 | 8.7% |
| 1,1-Dichloroethane | 0.42 | 0.35 | 18.2% | 0.61 | 0.59 | 3.3% | 0 | 0.94 | NA |
| 1,1-Dichloroethene | 1.3 | 0 | NA | 1.4 | 1.6 | 13.3% | 2.4 | 2.6 | 8.0% |
| cis-1,2-Dichloroethene | 21 | 9.1 | 79.1% | 22 | 22 | 0.0% | 32 | 33 | 3.1% |
| Tetrachloroethene | 20 | 10 | 66.7% | 22 | 23 | 4.4% | 62 | 41 | 40.8% |
| Trichloroethene | 29 | 9 | 105.3% | 33 | 34 | 3.0% | 77 | 49 | 44.4% |

| Analyte | MW-101D 10/13/14 180-37661 | MW-101D 10/13/14 Dup 180-37661 | RPD | MW-102S 10/21/14 180-37952 | MW-102S 10/21/14 Dup 180-37952 | RPD | MW-103D 10/17/14 180-37869 | MW-103D 10/17/14 Dup 180-37869 | RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0 | 0 | NA | 9.5 | 11 | 14.6% | 0 | 0 | NA |
| 1,1-Dichloroethane | 0.34 | 0.31 | 9.2% | 0.92 | 1 | 8.3% | 0 | 0 | NA |
| 1,1-Dichloroethene | 0 | 0 | NA | 8.9 | 9.8 | 9.6% | 0 | 0 | NA |
| cis-1,2-Dichloroethene | 16 | 16 | 0.0% | 4 | 4.5 | 11.8% | 6.3 | 5.5 | 13.6% |
| Tetrachloroethene | 2.5 | 2.4 | 4.1% | 13 | 14 | 7.4% | 11 | 9.8 | 11.5% |
| Trichloroethene | 6.8 | 6.9 | 1.5% | 28 | 30 | 6.9% | 69 | 71 | 2.9% |

| Analyte | MW-108S 9/13/13 180-25129 | MW-108S 9/13/13 Dup 180-25129 | RPD | MW-110 10/1/15 180-48353 | MW-110 10/1/15 Dup 180-48353 | RPD | MW-114 8/7/14 180-35572 | MW-114 8/7/14 Dup 180-35572 | RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0 | 0 | NA | 0 | 0 | NA | 0 | 0 | NA |
| 1,1-Dichloroethane | 0 | 0 | NA | 0 | 0 | NA | 6.4 | 6 | 6.5% |
| 1,1-Dichloroethene | 0 | 0 | NA | 0 | 0 | NA | 4.8 | 4.6 | 4.3% |
| cis-1,2-Dichloroethene | 0 | 0 | NA | 0 | 0 | NA | 1200 | 1500 | 22.2% |
| Tetrachloroethene | 0 | 0 | NA | 80 | 60 | 28.6% | 5.4 | 5.5 | 1.8% |
| Trichloroethene | 0 | 0 | NA | 1.3 | 1.4 | 7.4% | 56 | 56 | 0.0% |

| Analyte | MW-12 5/31/13 180-21771 | MW-12 5/31/13 Dup 180-21771 | RPD | MW-128 7/6/12 180-12206 | MW-128 7/6/12 Dup 180-12206 | RPD | MW-128 10/15/14 180-37774 | MW-128 10/15/14 Dup 180-37774 | RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0 | 0 | NA | 0 | 0 | NA | 1.8 | 1.6 | 11.8% |
| 1,1-Dichloroethane | 0 | 0 | NA | 0 | 0 | NA | 0 | 0.55 | NA |
| 1,1-Dichloroethene | 0 | 0 | NA | 14 | 12 | 15.4% | 2 | 1.7 | 16.2% |
| cis-1,2-Dichloroethene | 47 | 25 | 61.1% | 210 | 240 | 13.3% | 75 | 75 | 0.0% |
| Tetrachloroethene | 1.9 | 1.4 | 30.3% | 11 | 15 | 30.8% | 3.7 | 4.2 | 12.7% |
| Trichloroethene | 63 | 57 | 10.0% | 420 | 450 | 6.9% | 36 | 34 | 5.7% |

**Key:**

| | |
|---|---|
| 45.0% | Pink highlighted cells indicate a 30% exceedence of the RPD. |
| NA | RPD cannot be calculated or is not meaningful because one or both results are non-detect. |
| 35.0% | One result is less than five times the reporting level for VOCs (1 ug/L x 5 = 5 ug/L) and the results are within three times the reporting level (3 ug/L) of each other. Therefore, the RPD is acceptable per Table A-4 of the QAPP. |

TABLE 2.4-4
WATER SAMPLE ANALYSIS SUMMARY OF FIELD DUPLICATE SAMPLES FOR SELECT VOCS
FYNOP, 1425 EDEN ROAD, YORK, PA 17402

| | MW-136A (372.5-373) | MW-136A (372.5-373) | | MW-137A (295_5-296) | MW-137A (295_5-296) | | MW-137A (343-343_5) | MW-137A (343-343_5) | |
|---|---|---|---|---|---|---|---|---|---|
| | 8/14/14 | 8/14/14 | | 11/7/13 | 11/7/13 | | 9/25/13 | 9/25/13 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-35839 | 180-35839 | RPD | 180-27020 | 180-27020 | RPD | 180-25546 | 180-25546 | RPD |
| 1,1,1-Trichloroethane | 40 | 60 | 40.0% | 0 | 0 | NA | 0 | 0 | NA |
| 1,1-Dichloroethane | 0 | 18 | NA | 0 | 0 | NA | 1.4 | 2.7 | 63.4% |
| 1,1-Dichloroethene | 31 | 29 | 6.7% | 16 | 0 | NA | 0 | 0 | NA |
| cis-1,2-Dichloroethene | 1600 | 2300 | 35.9% | 920 | 880 | 4.4% | 74 | 120 | 47.4% |
| Tetrachloroethene | 3400 | 5000 | 38.1% | 14 | 0 | NA | 0.94 | 0.97 | 3.1% |
| Trichloroethene | 19000 | 16000 | 17.1% | 380 | 310 | 20.3% | 26 | 36 | 32.3% |

| | MW-137A (420-420.5) | MW-137A (420-420_5) | | MW-142S | MW-142S | | MW-145A | MW-145A | |
|---|---|---|---|---|---|---|---|---|---|
| | 9/4/13 | 9/4/13 | | 11/12/12 | 11/12/12 | | 5/18/15 | 5/18/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-24770 | 180-24770 | RPD | 180-16312 | 180-16312 | RPD | 180-44203 | 180-44203 | RPD |
| 1,1,1-Trichloroethane | 0 | 0 | NA | 0 | 0 | NA | 0.58 | 0.61 | 5.0% |
| 1,1-Dichloroethane | 6.9 | 6.1 | 12.3% | 0 | 0 | NA | 0 | 0.24 | NA |
| 1,1-Dichloroethene | 0 | 0 | NA | 0 | 0 | NA | 0.48 | 0.68 | 34.5% |
| cis-1,2-Dichloroethene | 310 | 300 | 3.3% | 0.75 | 0.82 | 8.9% | 10 | 10 | 0.0% |
| Tetrachloroethene | 0 | 0 | NA | 0 | 0 | NA | 9.2 | 9.5 | 3.2% |
| Trichloroethene | 16 | 16 | 0.0% | 0.26 | 0.28 | 7.4% | 13 | 13 | 0.0% |

| | MW-147A | MW-147A | | MW-147A | MW-147A | | MW-16D | MW-16D | |
|---|---|---|---|---|---|---|---|---|---|
| | 9/17/13 | 9/17/13 | | 1/23/14 | 1/23/14 | | 9/10/13 | 9/10/13 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-25207 | 180-25207 | RPD | 180-29231 | 180-29231 | RPD | 180-24957 | 180-24957 | RPD |
| 1,1,1-Trichloroethane | 0 | 0 | NA | 0 | 0 | NA | 0 | 0 | NA |
| 1,1-Dichloroethane | 0 | 0 | NA | 0 | 0 | NA | 0 | 0 | NA |
| 1,1-Dichloroethene | 0 | 0 | NA | 0.39 | 0.35 | 10.8% | 0 | 0 | NA |
| cis-1,2-Dichloroethene | 1.6 | 1.7 | 6.1% | 11 | 10 | 9.5% | 7.8 | 6.8 | 13.7% |
| Tetrachloroethene | 3.2 | 3.8 | 17.1% | 4.2 | 4.1 | 2.4% | 0 | 0 | NA |
| Trichloroethene | 4.7 | 5.2 | 10.1% | 9 | 9.3 | 3.3% | 16 | 19 | 17.1% |

| | MW-32S | MW-32S | | MW-37S | MW-37S | | MW-37S | MW-37S | |
|---|---|---|---|---|---|---|---|---|---|
| | 9/21/15 | 9/21/15 | | 2/19/14 | 2/19/14 | | 6/2/14 | 6/2/14 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-47984 | 180-47984 | RPD | 180-29980 | 180-29980 | RPD | 180-33401 | 180-33401 | RPD |
| 1,1,1-Trichloroethane | 220 | 230 | 4.4% | 21 | 25 | 17.4% | 7.6 | 7.8 | 2.6% |
| 1,1-Dichloroethane | 55 | 55 | 0.0% | 5.7 | 6.1 | 6.8% | 0 | 0 | NA |
| 1,1-Dichloroethene | 41 | 39 | 5.0% | 3.6 | 5.4 | 40.0% | 1.2 | 1.3 | 8.0% |
| cis-1,2-Dichloroethene | 240 | 250 | 4.1% | 110 | 140 | 24.0% | 190 | 190 | 0.0% |
| Tetrachloroethene | 120 | 130 | 8.0% | 170 | 170 | 0.0% | 200 | 190 | 5.1% |
| Trichloroethene | 210 | 220 | 4.7% | 67 | 75 | 11.3% | 34 | 34 | 0.0% |

| | MW-37S | MW-37S | | MW-39D | MW-39D | | MW-43D | MW-43D | |
|---|---|---|---|---|---|---|---|---|---|
| | 1/13/15 | 1/13/15 | | 9/9/14 | 9/9/14 | | 9/5/13 | 9/5/13 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-40434 | 180-40434 | RPD | 180-36521 | 180-36521 | RPD | 180-24825 | 180-24825 | RPD |
| 1,1,1-Trichloroethane | 24 | 18 | 28.6% | 6.2 | 7.1 | 13.5% | 0 | 0 | NA |
| 1,1-Dichloroethane | 4.9 | 4.4 | 10.8% | 1.5 | 1.5 | 0.0% | 0 | 0 | NA |
| 1,1-Dichloroethene | 4.6 | 4.2 | 9.1% | 3.2 | 3.2 | 0.0% | 0 | 0 | NA |
| cis-1,2-Dichloroethene | 100 | 93 | 7.3% | 85 | 81 | 4.8% | 9 | 7.3 | 20.9% |
| Tetrachloroethene | 260 | 270 | 3.8% | 56 | 55 | 1.8% | 5.5 | 5.1 | 7.5% |
| Trichloroethene | 70 | 57 | 20.5% | 100 | 100 | 0.0% | 140 | 98 | 35.3% |

| | MW-51D | MW-51D | | MW-82 | MW-82 | | MW-93S | MW-93S | |
|---|---|---|---|---|---|---|---|---|---|
| | 3/21/14 | 3/21/14 | | 10/23/14 | 10/23/14 | | 2/23/15 | 2/23/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-30887 | 180-30887 | RPD | 180-38054 | 180-38054 | RPD | 180-41453 | 180-41453 | RPD |
| 1,1,1-Trichloroethane | 0 | 1.2 | NA | 0 | 0 | NA | 3.2 | 3.4 | 6.1% |
| 1,1-Dichloroethane | 0 | 2.2 | NA | 0.58 | 0 | NA | 0.9 | 0.98 | 8.5% |
| 1,1-Dichloroethene | 2.5 | 6.7 | 91.3% | 0.41 | 0.39 | 5.0% | 0.85 | 0.89 | 4.6% |
| cis-1,2-Dichloroethene | 59 | 88 | 39.5% | 22 | 21 | 4.7% | 85 | 88 | 3.5% |
| Tetrachloroethene | 7.9 | 12 | 41.2% | 1.9 | 1.7 | 11.1% | 52 | 51 | 1.9% |
| Trichloroethene | 76 | 120 | 44.9% | 7.3 | 7.3 | 0.0% | 34 | 35 | 2.9% |

**Key:**

| | |
|---|---|
| 45.0% | Pink highlighted cells indicate a 30% exceedence of the RPD. |
| NA | RPD cannot be calculated or is not meaningful because one or both results are non-detect. |
| 35.0% | One result is less than five times the reporting level for VOCs (1 ug/L x 5 = 5 ug/L) and the results are within three times the reporting level (3 ug/L) of each other. Therefore, the RPD is acceptable per Table A-4 of the QAPP. |

TABLE 2.4-4
WATER SAMPLE ANALYSIS SUMMARY OF FIELD DUPLICATE SAMPLES FOR SELECT VOCS
FYNOP, 1425 EDEN ROAD, YORK, PA 17402

| | MW-93S | MW-93S | | MW-95 | MW-95 | | MW-97 | MW-97 | |
|---|---|---|---|---|---|---|---|---|---|
| | 9/25/15 | 9/25/15 | | 3/18/14 | 3/18/14 | | 4/21/15 | 4/21/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-48181 | 180-48181 | RPD | 180-30762 | 180-30762 | RPD | 180-43305 | 180-43305 | RPD |
| 1,1,1-Trichloroethane | 6.8 | 6 | 12.5% | 0 | 0 | NA | 15 | 14 | 6.9% |
| 1,1-Dichloroethane | 1.1 | 1.1 | 0.0% | 0 | 0 | NA | 0 | 6.8 | NA |
| 1,1-Dichloroethene | 0.95 | 0.77 | 20.9% | 0 | 0 | NA | 10 | 7.9 | 23.5% |
| cis-1,2-Dichloroethene | 23 | 22 | 4.4% | 0.77 | 0.87 | 12.2% | 340 | 330 | 3.0% |
| Tetrachloroethene | 90 | 82 | 9.3% | 0.5 | 0.58 | 14.8% | 88 | 77 | 13.3% |
| Trichloroethene | 31 | 31 | 0.0% | 0.62 | 0.7 | 12.1% | 520 | 490 | 5.9% |

| | MW-98I | MW-98I | | MW-98S | MW-98S | | MW-98S | MW-98S | |
|---|---|---|---|---|---|---|---|---|---|
| | 1/15/15 | 1/15/15 | | 5/7/14 | 5/7/14 | | 3/26/15 | 3/26/15 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-40505 | 180-40505 | RPD | 180-32564 | 180-32564 | RPD | 180-42445 | 180-42445 | RPD |
| 1,1,1-Trichloroethane | 7.2 | 7.3 | 1.4% | 0 | 0 | NA | 1.8 | 2.7 | 40.0% |
| 1,1-Dichloroethane | 0.84 | 0.88 | 4.7% | 0 | 0 | NA | 0.27 | 0.42 | 43.5% |
| 1,1-Dichloroethene | 2.1 | 2.3 | 9.1% | 0 | 0 | NA | 0.59 | 0.92 | 43.7% |
| cis-1,2-Dichloroethene | 31 | 31 | 0.0% | 0.74 | 1.6 | 73.5% | 9.1 | 11 | 18.9% |
| Tetrachloroethene | 31 | 32 | 3.2% | 0.7 | 2 | 96.3% | 12 | 13 | 8.0% |
| Trichloroethene | 31 | 31 | 0.0% | 0.7 | 1.9 | 92.3% | 10 | 11 | 9.5% |

| | MW-98S | MW-98S | | MW-99S | MW-99S | | MW-99S | MW-99S | |
|---|---|---|---|---|---|---|---|---|---|
| | 4/20/15 | 4/20/15 | | 5/6/14 | 5/6/14 | | 6/30/14 | 6/30/14 | |
| | | Dup | | | Dup | | | Dup | |
| Analyte | 180-43257 | 180-43257 | RPD | 180-32508 | 180-32508 | RPD | 180-34453 | 180-34453 | RPD |
| 1,1,1-Trichloroethane | 1.2 | 1.1 | 8.7% | 6 | 3.5 | 52.6% | 4.1 | 3.2 | 24.7% |
| 1,1-Dichloroethane | 0.25 | 0.29 | 14.8% | 1.3 | 1.3 | 0.0% | 1.3 | 0 | NA |
| 1,1-Dichloroethene | 0.59 | 0.54 | 8.8% | 2.7 | 2.8 | 3.6% | 2 | 1.4 | 35.3% |
| cis-1,2-Dichloroethene | 8.6 | 8.2 | 4.8% | 34 | 29 | 15.9% | 28 | 26 | 7.4% |
| Tetrachloroethene | 9.4 | 9 | 4.3% | 29 | 25 | 14.8% | 24 | 19 | 23.3% |
| Trichloroethene | 8.2 | 7.9 | 3.7% | 45 | 39 | 14.3% | 38 | 34 | 11.1% |

| | MW-99S | MW-99S | | MW-99S | MW-99S | |
|---|---|---|---|---|---|---|
| | 10/7/14 | 10/7/14 | | 10/30/14 | 10/30/14 | |
| | | Dup | | | Dup | |
| Analyte | 180-37397 | 180-37397 | RPD | 180-38318 | 180-38318 | RPD |
| 1,1,1-Trichloroethane | 6 | 4.4 | 30.8% | 5.8 | 5.8 | 0.0% |
| 1,1-Dichloroethane | 1.7 | 1.5 | 12.5% | 1.8 | 1.8 | 0.0% |
| 1,1-Dichloroethene | 2.4 | 2.2 | 8.7% | 2.7 | 2.7 | 0.0% |
| cis-1,2-Dichloroethene | 35 | 31 | 12.1% | 35 | 35 | 0.0% |
| Tetrachloroethene | 22 | 20 | 9.5% | 24 | 24 | 0.0% |
| Trichloroethene | 36 | 29 | 21.5% | 31 | 32 | 3.2% |

**Key:**

| | |
|---|---|
| 45.0% | Pink highlighted cells indicate a 30% exceedence of the RPD. |
| NA | RPD cannot be calculated or is not meaningful because one or both results are non-detect. |
| 35.0% | One result is less than five times the reporting level for VOCs (1 ug/L x 5 = 5 ug/L) and the results are within three times the reporting level (3 ug/L) of each other. Therefore, the RPD is acceptable per Table A-4 of the QAPP. |