# Appendix E. Quality Assurance and Quality Control Results

**Table 1. Results from Collocated Sampling and Replicate Analysis**

| Chemical | Ezra Prentice Playgrnd Primary Sample 5/21/2014 (ppb) | Laboratory Replicate of Ezra Prentice Playgrnd Sample 5/21/2014 (ppb) | Relative Percent Difference | | Collocated Sample Paired with Ezra Prentice Playgrnd Sample 5/21/2014 (ppb) | Relative Percent Difference | | Gansevoort & Franklin Streets Primary Sample 6/2/2014 (ppb) | Laboratory Replicate of Gansevoort & Franklin Streets Sample 6/2/2014 (ppb) | Relative Percent Difference | | Method Detection Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.0050 | 0.0050 | 0 | | 0.0050 | 0 | | 0.0040 | 0.0040 | 0 | | 0.0047 |
| 1,1,2,2-Tetrachloroethane | nd | nd | | | nd | | | nd | nd | | | 0.0030 |
| 1,1,2-Trichloroethane | nd | nd | | | nd | | | nd | nd | | | 0.012 |
| 1,1-Dichloroethane | nd | 0.0020 | nc | | 0.0020 | | | 0.0020 | 0.0020 | 0 | | 0.0048 |
| 1,1-Dichloroethylene | nd | nd | | | nd | | | nd | nd | | | 0.0055 |
| 1,2,4-Trichlorobenzene | 0.0020 | 0.0020 | 0 | | 0.0010 | 17 | | 0.019 | 0.013 | 9.4 | | 0.0096 |
| 1,2,4-Trimethylbenzene | 0.028 | 0.030 | -1.7 | | 0.031 | -2.5 | | 0.045 | 0.045 | 0 | | 0.0047 |
| 1,2-Dibromoethane | nd | nd | | | nd | | | 0.0010 | nd | nc | | 0.0068 |
| 1,2-Dichlorobenzene | nd | nd | | | nd | | | 0.0010 | nd | nc | | 0.0050 |
| 1,2-Dichloroethane | 0.016 | 0.017 | -1.5 | | 0.018 | -2.9 | | 0.014 | 0.016 | -3.3 | | 0.0049 |
| 1,2-Dichloropropane | 0.0030 | 0.0050 | -13 | | 0.0040 | -7.1 | | 0.0030 | 0.0030 | 0 | | 0.0078 |
| 1,3,5-Trimethylbenzene | 0.0060 | 0.0060 | 0 | | 0.0070 | -3.8 | | 0.012 | 0.012 | 0 | | 0.0056 |
| 1,3-Butadiene | 0.0080 | 0.0090 | -2.9 | | 0.0090 | -2.9 | | 0.014 | 0.014 | 0 | | 0.0058 |
| 1,3-Dichlorobenzene | nd | nd | | | nd | | | nd | nd | | | 0.0071 |
| 1,4-Dichlorobenzene | 0.0020 | 0.0020 | 0 | | 0.0020 | 0 | | 0.0030 | 0.0020 | 10 | | 0.0049 |
| *α*Chlorotoluene | 0.0010 | 0.0020 | -17 | | 0.0030 | -25 | | nd | nd | | | 0.0048 |
| Benzene | 0.17 | 0.17 | -0.60 | | 0.17 | -0.9 | | 0.14 | 0.143 | -0.90 | | 0.0048 |
| Bromodichloromethane | 0.0080 | 0.0080 | 0 | | 0.0090 | -2.9 | | nd | nd | | | 0.0085 |
| Bromomethane | 0.0080 | 0.0080 | 0 | | 0.0080 | 0 | | 0.0070 | 0.0080 | -3.3 | | 0.0037 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | 0.0020 | 0.0020 | 0 | | 0.0020 | 0 | | 0.0030 | 0.0030 | 0 | | |
| Carbon tetrachloride | 0.081 | 0.082 | -0.30 | | 0.083 | -0.60 | | 0.078 | 0.077 | 0.30 | | 0.0069 |
| Chlorobenzene | 0.0010 | 0.0010 | 0 | | 0.0010 | 0 | | 0.0010 | 0.0010 | 0 | | 0.0054 |
| Chloroethane | nd | nd | | | nd | | | nd | nd | | | 0.0092 |
| Chloroform | 0.028 | 0.030 | -1.7 | | 0.03 | -1.7 | | 0.025 | 0.025 | 0 | | 0.0056 |
| Chloromethane | 0.60 | 0.62 | -0.90 | | 0.62 | -0.90 | | 0.46 | 0.468 | -0.60 | | 0.0084 |
| *cis*-1,3-Dichloropropylene | nd | nd | | | nd | | | nd | nd | | | 0.0084 |
| Dichlorodifluoromethane | 0.58 | 0.55 | 1.3 | | 0.59 | -0.60 | | 0.49 | 0.51 | -1.2 | | 0.0032 |
| Dichloromethane | 0.081 | 0.081 | 0 | | 0.083 | -0.60 | | 0.066 | 0.067 | -0.40 | | 0.0075 |
| Dichlorotetrafluoroethane | 0.019 | 0.017 | 2.8 | | 0.020 | -1.3 | | 0.017 | 0.019 | -2.8 | | 0.0063 |
| Ethylbenzene | 0.046 | 0.046 | 0 | | 0.051 | -2.6 | | 0.053 | 0.055 | -0.90 | | 0.0072 |
| Hexachloro-1,3-Butadiene | nd | nd | | | nd | | | nd | nd | | | 0.019 |
| *m,p*-Xylene | 0.13 | 0.13 | -0.40 | | 0.15 | -2.3 | | 0.15 | 0.15 | -0.70 | | 0.010 |
| Methyl-*tert*-butyl-ether | 0.0010 | 0.0010 | 0 | | 0.0010 | 0 | | 0.0010 | 0.0010 | 0 | | 0.0054 |
| *o*-Xylene | 0.052 | 0.053 | -0.50 | | 0.056 | -1.9 | | 0.049 | 0.049 | 0 | | 0.0056 |
| Styrene | 0.0020 | 0.0020 | 0 | | 0.0020 | 0 | | 0.0060 | 0.0050 | 4.5 | | 0.0033 |
| Tetrachloroethylene | 0.0090 | 0.0090 | 0 | | 0.0090 | 0 | | 0.036 | 0.037 | -0.70 | | 0.0040 |
| Toluene | 0.45 | 0.45 | -0.30 | | 0.46 | -0.60 | | 0.37 | 0.37 | -0.30 | | 0.0061 |
| *trans*-1,2-Dichloroethylene | 0.0010 | 0.0010 | 0 | | 0.0010 | 0 | | nd | nd | | | 0.0059 |
| *trans*-1,3-Dichloropropylene | nd | nd | | | nd | | | nd | nd | | | 0.0068 |
| Trichloroethylene | 0.0030 | 0.0030 | 0 | | 0.0030 | 0 | | 0.0010 | 0.0010 | 0 | | 0.0050 |
| Trichlorofluoromethane | 0.29 | 0.29 | -0.60 | | 0.29 | -0.40 | | 0.22 | 0.22 | -0.20 | | 0.0041 |
| Trichlorotrifluoroethane | 0.065 | 0.066 | -0.40 | | 0.066 | -0.40 | | 0.063 | 0.064 | -0.40 | | 0.0069 |
| Vinyl chloride | 0.0060 | 0.0070 | -3.8 | | nd | | | 0.0050 | 0.0050 | 0 | | 0.0050 |

nd = not detected
nc = relative percent difference not calculated because the sample result is less than five times the method detection limit