

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
Groundwater Remedial Investigation Report
Garfield Avenue Group of Sites
PPG, Jersey City, New Jersey



| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | 1,2,4,5-TETRACHLOROBENZENE | 1,4-DIOXANE | 1-1'-BIPHENYL | 2,2'-OXYBIS(1-CHLOROPROPANE) | 2,3,4,6-TETRACHLOROPHENOL | 2,4,5-TRICHLOROPHENOL |
|----------------------------|-------------|----------|----------|----------------|---------|----------------------------|-------------|---------------|------------------------------|---------------------------|-----------------------|
| | | | | | CAS RN | 95-94-3 | 123-91-1 | 92-52-4 | 108-60-1 | 58-90-2 | 95-95-4 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.41 U | < 0.054 U | < 0.24 U | < 0.45 U | < 1.6 U | < 1.5 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.38 U | < 0.050 U | < 0.22 U | < 0.42 U | < 1.5 U | < 1.4 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.41 U | < 1.5 U | < 1.3 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.39 U | < 0.051 U | < 0.22 U | < 0.42 U | < 1.5 U | < 1.4 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.39 U | < 0.051 U | < 0.22 U | < 0.42 U | < 1.5 U | < 1.4 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.40 U | < 0.053 U | < 0.23 U | < 0.44 U | < 1.6 U | < 1.4 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.36 U | < 0.048 U | < 0.21 U | < 0.40 U | < 1.4 U | < 1.3 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.37 U | < 0.048 U | < 0.21 U | < 0.40 U | < 1.4 U | < 1.3 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.36 U | < 0.047 U | < 0.20 U | < 0.39 U | < 1.4 U | < 1.3 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.41 U | < 1.5 U | < 1.3 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.42 U | < 0.055 U | < 0.24 U | < 0.46 U | < 1.7 U | < 1.5 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.41 U | < 0.054 U | < 0.24 U | < 0.45 U | < 1.6 U | < 1.5 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.41 U | < 0.054 U | < 0.23 U | < 0.44 U | < 1.6 U | < 1.5 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.38 U | < 0.050 U | < 0.22 U | < 0.41 U | < 1.5 U | < 1.4 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.37 U | < 0.046 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | R | R |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.38 U | < 0.050 U | < 0.22 U | < 0.42 U | < 1.5 U | < 1.4 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.37 U | < 0.049 U | < 0.21 U | < 0.40 U | < 1.5 U | < 1.3 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.39 U | < 0.051 U | < 0.22 U | < 0.42 U | < 1.5 U | < 1.4 U |

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| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | 2,4,6-TRICHLOROPHENOL | 2,4-DICHLOROPHENOL | 2,4-DIMETHYLPHENOL | 2,4-DINITROPHENOL | 2,4-DINITROTOLUENE | 2,6-DINITROTOLUENE |
|----------------------------|-------------|----------|----------|----------------|---------|-----------------------|--------------------|--------------------|-------------------|--------------------|--------------------|
| | | | | | CAS RN | 88-06-2 | 120-83-2 | 105-67-9 | 51-28-5 | 121-14-2 | 606-20-2 |
| | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 1.0 U | < 1.4 U | < 2.7 U | < 1.7 U | < 0.61 U | < 0.53 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.95 U | < 1.3 U | < 2.5 U | < 1.6 U | < 0.57 U | < 0.49 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.93 U | < 1.3 U | < 2.5 U | < 1.6 U | < 0.56 U | < 0.48 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.97 U | < 1.3 U | < 2.6 U | < 1.6 U | < 0.58 U | < 0.50 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.97 U | < 1.3 U | < 2.6 U | < 1.6 U | < 0.58 U | < 0.50 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 1.0 U | < 1.4 U | < 2.7 U | < 1.7 U | < 0.60 U | < 0.52 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.91 U | < 1.2 U | < 2.4 U | < 1.5 U | < 0.54 U | < 0.47 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.91 U | < 1.3 U | < 2.4 U | < 1.5 U | < 0.55 U | < 0.47 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.89 U | < 1.2 U | < 2.3 U | < 1.5 U | < 0.53 U | < 0.46 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.93 U | < 1.3 U | < 2.5 U | < 1.6 U | < 0.56 U | < 0.48 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 1.0 U | < 1.4 U | < 2.8 U | < 1.8 U | < 0.63 U | < 0.54 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 1.0 U | < 1.4 U | < 2.7 U | < 1.7 U | < 0.61 U | < 0.53 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 1.0 U | < 1.4 U | < 2.7 U | < 1.7 U | < 0.61 U | < 0.52 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.94 U | < 1.3 U | < 2.5 U | < 1.6 U | < 0.56 U | < 0.49 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | R | R | R | R | < 0.55 U | < 0.48 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.95 U | < 1.3 U | < 2.5 U | < 1.6 U | < 0.57 U | < 0.49 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.92 U | < 1.3 U | < 2.4 U | < 1.6 U | < 0.55 U | < 0.48 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.96 U | < 1.3 U | < 2.5 U | < 1.6 U | < 0.58 U | < 0.50 U |

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| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | 2-CHLORONAPHTHALENE | 2-CHLOROPHENOL | 2-METHYLNAPHTHALENE | 2-METHYLPHENOL | 2-NITROANILINE | 2-NITROPHENOL | 3,3'-DICHLORO BENZIDINE |
|----------------------------|-------------|----------|----------|----------------|---------|---------------------|----------------|---------------------|----------------|----------------|---------------|-------------------------|
| | | | | | CAS RN | 91-58-7 | 95-57-8 | 91-57-6 | 95-48-7 | 88-74-4 | 88-75-5 | 91-94-1 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.26 U | < 0.91 U | < 0.23 U | < 0.99 U | < 0.31 U | < 1.1 U | < 0.56 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.24 U | < 0.85 U | < 0.22 U | < 0.92 U | < 0.29 U | < 0.99 U | < 0.52 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.24 U | < 0.83 U | < 0.21 U | < 0.90 U | < 0.28 U | < 0.97 U | < 0.51 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.25 U | < 0.86 U | < 0.22 U | < 0.93 U | < 0.29 U | < 1.0 U | < 0.53 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.25 U | < 0.86 U | < 0.22 U | < 0.93 U | < 0.29 U | < 1.0 U | < 0.53 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.26 U | < 0.89 U | < 0.23 U | < 0.97 U | < 0.30 U | < 1.0 U | < 0.55 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.23 U | < 0.80 U | < 0.21 U | < 0.87 U | < 0.27 U | < 0.94 U | < 0.50 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.23 U | < 0.81 U | < 0.21 U | < 0.88 U | < 0.27 U | < 0.95 U | < 0.50 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.23 U | < 0.79 U | < 0.20 U | < 0.85 U | < 0.27 U | < 0.92 U | < 0.49 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.24 U | < 0.83 U | < 0.21 U | < 0.90 U | < 0.28 U | < 0.97 U | < 0.51 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.27 U | < 0.93 U | < 0.24 U | < 1.0 U | < 0.31 U | < 1.1 U | < 0.58 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.26 U | < 0.91 U | < 0.23 U | < 0.99 U | < 0.31 U | < 1.1 U | < 0.56 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.26 U | < 0.90 U | < 0.23 U | < 0.98 U | < 0.30 U | < 1.1 U | < 0.56 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.24 U | < 0.84 U | < 0.21 U | < 0.91 U | < 0.28 U | < 0.98 U | < 0.52 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.24 U | R | < 0.21 U | R | < 0.28 U | R | < 0.51 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.24 U | < 0.85 U | < 0.22 U | < 0.92 U | < 0.29 U | < 0.99 U | < 0.52 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.24 U | < 0.82 U | < 0.21 U | < 0.89 U | < 0.28 U | < 0.96 U | < 0.51 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.25 U | < 0.85 U | < 0.22 U | < 0.93 U | < 0.29 U | < 1.0 U | < 0.53 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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Garfield Avenue Group of Sites
PPG, Jersey City, New Jersey



| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE | 3+4-METHYLPHENOL | 3-NITROANILINE | 4,6-DINITRO-2-METHYLPHENOL | 4-BROMOPHENYL PHENYL ETHER |
|----------------------------|-------------|----------|----------|----------------|---------|-------------------------------------|------------------|-----------------|----------------------------|----------------------------|
| | | | | | CAS RN | 78-59-1 ug/L | 106-44-5 ug/L | 99-09-2 ug/L | 534-52-1 ug/L | 101-55-3 ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.31 U | < 0.98 U | < 0.43 U | < 0.17 U | < 0.45 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.29 U | < 0.91 U | < 0.40 U | < 0.16 U | < 0.42 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.28 U | < 0.89 U | < 0.39 U | < 0.15 U | < 0.41 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.29 U | < 0.93 U | < 0.41 U | < 0.16 U | < 0.43 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.29 U | < 0.93 U | < 0.41 U | < 0.16 U | < 0.43 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.30 U | < 0.96 U | < 0.42 U | < 0.17 U | < 0.44 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.27 U | < 0.86 U | < 0.38 U | < 0.15 U | < 0.40 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.27 U | < 0.87 U | < 0.38 U | < 0.15 U | < 0.40 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.27 U | < 0.85 U | < 0.37 U | < 0.15 U | < 0.39 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.28 U | < 0.89 U | < 0.39 U | < 0.15 U | < 0.41 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.31 U | < 1.0 U | < 0.44 U | < 0.17 U | < 0.46 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.31 U | < 0.98 U | < 0.43 U | < 0.17 U | < 0.45 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.30 U | < 0.97 U | < 0.43 U | < 0.17 U | < 0.44 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.28 U | < 0.90 U | < 0.39 U | < 0.16 U | < 0.41 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.28 U | R | < 0.39 U | R | < 0.40 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.29 U | < 0.91 U | < 0.40 U | < 0.16 U | < 0.42 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.28 U | < 0.88 U | < 0.39 U | < 0.15 U | < 0.40 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.29 U | < 0.92 U | < 0.40 U | < 0.16 U | < 0.42 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
Groundwater Remedial Investigation Report
Garfield Avenue Group of Sites
PPG, Jersey City, New Jersey



| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | 4-CHLORO-3-METHYLPHENOL | 4-CHLOROPHENYL PHENYL ETHER | 4-NITROPHENOL | ACENAPHTHENE | ACENAPHTHYLENE | ACETOPHENONE | ANTHRACENE |
|----------------------------|-------------|----------|----------|----------------|---------|-------------------------|-----------------------------|---------------|--------------|----------------|--------------|------------|
| | | | | | CAS RN | 59-50-7 | 7005-72-3 | 100-02-7 | 83-32-9 | 208-96-8 | 98-86-2 | 120-12-7 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.99 U | < 0.41 U | < 1.3 U | < 0.21 U | < 0.15 U | < 0.23 U | < 0.23 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.92 U | < 0.38 U | < 1.2 U | < 0.20 U | < 0.14 U | < 0.21 U | < 0.22 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.90 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.94 U | < 0.39 U | < 1.2 U | < 0.20 U | < 0.14 U | < 0.22 U | < 0.22 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.94 U | < 0.39 U | < 1.2 U | < 0.20 U | < 0.14 U | < 0.22 U | < 0.22 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.97 U | < 0.40 U | < 1.3 U | < 0.21 U | < 0.15 U | < 0.23 U | < 0.23 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.87 U | < 0.36 U | < 1.1 U | < 0.19 U | < 0.13 U | < 0.20 U | < 0.21 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.88 U | < 0.36 U | < 1.1 U | < 0.19 U | < 0.13 U | < 0.21 U | < 0.21 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.86 U | < 0.35 U | < 1.1 U | < 0.18 U | < 0.13 U | < 0.20 U | < 0.20 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.90 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 1.0 U | < 0.42 U | < 1.3 U | < 0.22 U | < 0.15 U | < 0.24 U | < 0.24 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.99 U | < 0.41 U | < 1.3 U | < 0.21 U | < 0.15 U | < 0.23 U | < 0.23 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.98 U | < 0.40 U | < 1.3 U | < 0.21 U | < 0.15 U | < 0.23 U | < 0.23 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.91 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.22 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | R | < 0.37 U | R | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.92 U | < 0.38 U | < 1.2 U | < 0.20 U | < 0.14 U | < 0.21 U | < 0.22 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.89 U | < 0.37 U | < 1.2 U | < 0.19 U | < 0.14 U | < 0.21 U | < 0.21 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.93 U | < 0.38 U | < 1.2 U | < 0.20 U | < 0.14 U | < 0.22 U | < 0.22 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | ATRAZINE | BENZALDEHYDE | BENZO(A)ANTHRACENE | BENZO(A)PYRENE | BENZO(B)FLUORANTHENE | BENZO(G,H,I)PERYLENE | BENZO(K)FLUORANTHENE |
|----------------------------|-------------|----------|----------|----------------|---------|-----------|--------------|--------------------|----------------|----------------------|----------------------|----------------------|
| | | | | | CAS RN | 1912-24-9 | 100-52-7 | 56-55-3 | 50-32-8 | 205-99-2 | 191-24-2 | 207-08-9 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | < 0.22 U | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.50 U | < 0.32 U | < 0.025 U | < 0.037 U | < 0.048 U | < 0.38 U | < 0.037 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.46 U | < 0.30 U | < 0.024 U | < 0.034 U | < 0.045 U | < 0.35 U | < 0.034 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.034 U | < 0.044 U | < 0.34 U | < 0.033 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.47 U | < 0.30 U | < 0.024 U | < 0.035 U | < 0.046 U | < 0.36 U | < 0.035 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.47 U | < 0.30 U | < 0.024 U | < 0.035 U | < 0.046 U | < 0.36 U | < 0.035 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.49 U | < 0.31 U | < 0.025 U | < 0.036 U | < 0.047 U | < 0.37 U | < 0.036 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.44 U | < 0.28 U | < 0.022 U | < 0.033 U | < 0.043 U | < 0.33 U | < 0.032 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.44 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.43 U | < 0.28 U | < 0.022 U | < 0.032 U | < 0.042 U | < 0.33 U | < 0.032 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.034 U | < 0.044 U | < 0.34 U | < 0.033 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.51 U | < 0.33 U | < 0.026 U | < 0.038 U | < 0.049 U | < 0.39 U | < 0.038 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.50 U | < 0.32 U | < 0.025 U | < 0.037 U | < 0.048 U | < 0.38 U | < 0.037 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.49 U | < 0.32 U | < 0.025 U | < 0.037 U | < 0.048 U | < 0.37 U | < 0.036 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.46 U | < 0.29 U | < 0.023 U | < 0.034 U | < 0.044 U | < 0.35 U | < 0.034 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.45 U | < 0.29 U | < 0.022 U | < 0.032 U | < 0.041 U | < 0.34 U | < 0.032 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.46 U | < 0.30 U | < 0.024 U | < 0.034 U | < 0.045 U | < 0.35 U | < 0.034 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.45 U | < 0.29 U | < 0.023 U | < 0.033 U | < 0.043 U | < 0.34 U | < 0.033 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.47 U | < 0.30 U | < 0.024 U | < 0.035 U | < 0.045 U | < 0.36 U | < 0.034 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | BENZYL BUTYL PHTHALATE | BIS(-2-CHLOROETHOXY)METHANE | BIS(2-CHLOROETHYL)ETHER | BIS(2-ETHYLHEXYL)PHTHALATE | CAPROLACTAM | CARBAZOLE |
|----------------------------|-------------|----------|----------|----------------|---------|------------------------|-----------------------------|-------------------------|----------------------------|-------------|-----------|
| | | | | | CAS RN | 85-68-7 | 111-91-1 | 111-44-4 | 117-81-7 | 105-60-2 | 86-74-8 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.51 U | < 0.31 U | < 0.28 U | < 1.8 U | < 0.72 U | < 0.25 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.47 U | < 0.29 U | < 0.26 U | < 1.7 U | < 0.67 U | < 0.24 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.66 U | < 0.23 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.48 U | < 0.29 U | < 0.26 U | < 1.7 U | < 0.68 U | < 0.24 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | 4.2 | < 0.65 U | < 0.23 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.48 U | < 0.29 U | < 0.26 U | < 1.7 U | < 0.68 U | < 0.24 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.50 U | < 0.30 U | < 0.27 U | < 1.8 U | < 0.71 U | < 0.25 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.45 U | < 0.27 U | < 0.24 U | < 1.6 U | < 0.64 U | < 0.22 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.45 U | < 0.28 U | < 0.25 U | < 1.6 U | < 0.64 U | < 0.23 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.44 U | < 0.27 U | < 0.24 U | < 1.6 U | < 0.62 U | < 0.22 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.66 U | < 0.23 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.52 U | < 0.32 U | < 0.28 U | < 1.9 U | < 0.74 U | < 0.26 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.51 U | < 0.31 U | < 0.28 U | < 1.8 U | < 0.72 U | < 0.25 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.50 U | < 0.31 U | < 0.27 U | < 1.8 U | < 0.71 U | < 0.25 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.47 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.66 U | < 0.23 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.47 U | < 0.29 U | < 0.26 U | < 1.7 U | < 0.67 U | < 0.24 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.46 U | < 0.28 U | < 0.25 U | < 1.7 U | < 0.65 U | < 0.23 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.48 U | < 0.29 U | < 0.26 U | < 1.7 U | < 0.68 U | < 0.24 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | CHRYSENE | DIBENZO(A,H)ANTHRACENE | DIBENZOFURAN | DIETHYL PHTHALATE | DIMETHYL PHTHALATE | DI-N-BUTYLPHTHALATE | DI-N-OCTYL PHTHALATE |
|----------------------------|-------------|----------|----------|----------------|---------|----------|------------------------|--------------|-------------------|--------------------|---------------------|----------------------|
| | | | | | CAS RN | 218-01-9 | 53-70-3 | 132-64-9 | 84-66-2 | 131-11-3 | 84-74-2 | 117-84-0 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | 1.4 J | < 0.23 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.20 U | < 0.040 U | < 0.24 U | < 0.29 U | < 0.24 U | < 0.55 U | < 0.26 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.18 U | < 0.037 U | < 0.23 U | < 0.27 U | < 0.22 U | < 0.51 U | < 0.24 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.18 U | < 0.037 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.24 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.19 U | < 0.038 U | < 0.23 U | < 0.28 U | < 0.23 U | < 0.52 U | < 0.25 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | 1.0 J | < 0.23 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | 1.4 J | < 0.23 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | 0.56 J | < 0.22 U | < 0.50 U | 1.1 J |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.19 U | < 0.038 U | < 0.23 U | < 0.28 U | < 0.23 U | < 0.52 U | < 0.25 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.19 U | < 0.039 U | < 0.24 U | < 0.28 U | < 0.24 U | < 0.54 U | < 0.25 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.17 U | < 0.035 U | < 0.22 U | < 0.26 U | < 0.21 U | < 0.49 U | < 0.23 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.17 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.49 U | < 0.23 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.17 U | < 0.035 U | < 0.21 U | < 0.25 U | < 0.21 U | < 0.48 U | < 0.22 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.18 U | < 0.037 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.24 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.20 U | < 0.041 U | < 0.25 U | < 0.30 U | < 0.25 U | < 0.56 U | < 0.27 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.20 U | < 0.040 U | < 0.24 U | < 0.29 U | < 0.24 U | < 0.55 U | < 0.26 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.19 U | < 0.040 U | < 0.24 U | < 0.29 U | < 0.24 U | < 0.55 U | < 0.26 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.18 U | < 0.037 U | < 0.22 U | < 0.27 U | < 0.22 U | < 0.51 U | < 0.24 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.18 U | < 0.034 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.18 U | < 0.037 U | < 0.23 U | < 0.27 U | < 0.22 U | < 0.51 U | < 0.24 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.18 U | < 0.036 U | < 0.22 U | < 0.26 U | < 0.22 U | < 0.50 U | < 0.23 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.18 U | < 0.038 U | < 0.23 U | < 0.27 U | < 0.23 U | < 0.52 U | < 0.24 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | FLUORANTHENE | FLUORENE | HEXACHLORO-1,3-BUTADIENE | HEXACHLOROBENZENE | HEXACHLOROCYCLOPENTADIENE | HEXACHLOROETHANE |
|----------------------------|-------------|----------|----------|----------------|---------|--------------|----------|--------------------------|-------------------|---------------------------|------------------|
| | | | | | CAS RN | 206-44-0 | 86-73-7 | 87-68-3 | 118-74-1 | 77-47-4 | 67-72-1 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.19 U | < 0.19 U | < 0.020 U | < 0.012 U | < 3.1 U | < 0.43 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.18 U | < 0.18 U | < 0.018 U | < 0.011 U | < 2.9 U | < 0.40 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.18 U | < 0.18 U | < 0.019 U | < 0.012 U | < 2.9 U | < 0.41 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.18 U | < 0.18 U | < 0.019 U | < 0.012 U | < 2.9 U | < 0.41 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.18 U | < 0.19 U | < 0.019 U | < 0.012 U | < 3.0 U | < 0.42 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.17 U | < 0.17 U | < 0.017 U | < 0.011 U | < 2.7 U | < 0.38 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.16 U | < 0.16 U | < 0.017 U | < 0.011 U | < 2.7 U | < 0.37 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.19 U | < 0.19 U | < 0.020 U | < 0.013 U | < 3.2 U | < 0.44 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.19 U | < 0.19 U | < 0.020 U | < 0.012 U | < 3.1 U | < 0.43 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.19 U | < 0.19 U | < 0.020 U | < 0.012 U | < 3.1 U | < 0.43 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.40 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.17 U | < 0.17 U | < 0.017 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.18 U | < 0.18 U | < 0.018 U | < 0.011 U | < 2.9 U | < 0.40 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.17 U | < 0.17 U | < 0.018 U | < 0.011 U | < 2.8 U | < 0.39 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.18 U | < 0.18 U | < 0.019 U | < 0.012 U | < 2.9 U | < 0.41 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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PPG, Jersey City, New Jersey



| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | INDENO(1,2,3-CD)PYRENE | NAPHTHALENE | 1-METHYLNAPHTHALENE | NITROBENZENE | N-NITROSO-DI-N-PROPYLAMINE | N-NITROSODIPHENYLAMINE |
|----------------------------|-------------|----------|----------|----------------|---------|------------------------|-------------|---------------------|--------------|----------------------------|------------------------|
| | | | | | CAS RN | 193-39-5 | 91-20-3 | 90-12-0 | 98-95-3 | 621-64-7 | 86-30-6 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.042 U | < 0.26 U | - | < 0.71 U | < 0.53 U | < 0.25 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.039 U | < 0.24 U | - | < 0.66 U | < 0.50 U | < 0.23 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.038 U | < 0.23 U | - | < 0.65 U | < 0.49 U | < 0.22 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.040 U | < 0.24 U | - | < 0.68 U | < 0.51 U | < 0.23 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.040 U | < 0.24 U | - | < 0.68 U | < 0.51 U | < 0.23 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.041 U | < 0.25 U | < 0.29 U | < 0.70 U | < 0.52 U | < 0.24 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.038 U | < 0.23 U | < 0.26 U | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.038 U | < 0.23 U | < 0.26 U | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.038 U | < 0.23 U | < 0.26 U | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.037 U | < 0.23 U | < 0.26 U | < 0.63 U | < 0.47 U | < 0.22 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.038 U | < 0.23 U | < 0.26 U | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.037 U | < 0.22 U | < 0.25 U | < 0.62 U | < 0.46 U | < 0.21 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.038 U | < 0.23 U | < 0.27 U | < 0.65 U | < 0.49 U | < 0.22 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.043 U | < 0.26 U | < 0.30 U | < 0.73 U | < 0.55 U | < 0.25 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.038 U | < 0.23 U | < 0.26 U | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.038 U | < 0.23 U | < 0.26 U | < 0.64 U | < 0.48 U | < 0.22 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.042 U | < 0.26 U | < 0.29 U | < 0.71 U | < 0.53 U | < 0.25 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.042 U | < 0.25 U | < 0.29 U | < 0.71 U | < 0.53 U | < 0.24 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.039 U | < 0.24 U | < 0.27 U | < 0.66 U | < 0.49 U | < 0.23 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.036 U | < 0.23 U | < 0.26 U | < 0.64 U | < 0.48 U | < 0.22 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.039 U | < 0.24 U | - | < 0.66 U | < 0.50 U | < 0.23 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.038 U | < 0.23 U | - | < 0.64 U | < 0.48 U | < 0.22 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.040 U | < 0.24 U | - | < 0.67 U | < 0.50 U | < 0.23 U |

**Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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Garfield Avenue Group of Sites
PPG, Jersey City, New Jersey**

| Sample ID | Sample Type | Fraction | Lab SDG | Date Collected | Analyte | P-CHLOROANILINE | PENTACHLOROPHENOL | PHENANTHRENE | PHENOL | P-NITROANILINE | PYRENE |
|----------------------------|-------------|----------|----------|----------------|---------|-----------------|-------------------|--------------|----------|----------------|----------|
| | | | | | CAS RN | 106-47-8 | 87-86-5 | 85-01-8 | 108-95-2 | 100-01-6 | 129-00-0 |
| | | | | | Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 114-FB20170925 | EB | N | JC51736 | 9/25/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| 114-FB20170926 | EB | N | JC51809 | 9/26/2017 | | - | - | - | - | - | - |
| 114-FB20170926 | EB | N | JC51824 | 9/26/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| 114-FB20170927 | EB | N | JC51890 | 9/27/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| 114-FB20171016 | EB | N | JC53234 | 10/16/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| 114-FB20171102 | EB | N | JC54569A | 11/2/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20171212 | EB | N | JC57169 | 12/12/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20171213 | EB | N | JC57276 | 12/13/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20171215 | EB | N | JC57501A | 12/15/2017 | | < 0.38 U | < 0.14 U | < 0.19 U | < 0.44 U | < 0.49 U | < 0.24 U |
| FB-20171220 | EB | N | JC57752 | 12/20/2017 | | < 0.35 U | < 0.13 U | < 0.18 U | < 0.40 U | < 0.45 U | < 0.23 U |
| FB-20171221 | EB | N | JC57820 | 12/21/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.40 U | < 0.44 U | < 0.22 U |
| FB-20171222 | EB | N | JC57943A | 12/22/2017 | | < 0.36 U | < 0.14 U | < 0.18 U | < 0.41 U | < 0.46 U | < 0.23 U |
| FB-20171226 | EB | N | JC58028A | 12/26/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20171227 | EB | N | JC58073A | 12/27/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180111 | EB | N | JC58670 | 1/11/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180112 | EB | N | JC58745 | 1/12/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180116 | EB | N | JC58942 | 1/16/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180212 | EB | N | JC60652 | 2/12/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180312 | EB | N | JC62130 | 3/12/2018 | | < 0.36 U | < 0.14 U | < 0.18 U | < 0.41 U | < 0.46 U | < 0.23 U |
| FB-20180313 | EB | N | JC62228 | 3/13/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180418 | EB | N | JC64444 | 4/18/2018 | | < 0.37 U | < 0.14 U | < 0.19 U | < 0.43 U | < 0.48 U | < 0.24 U |
| FB-20180419 | EB | N | JC64571 | 4/19/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180420 | EB | N | JC64643 | 4/20/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180423 | EB | N | JC64763 | 4/23/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180424 | EB | N | JC64822 | 4/24/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180425 | EB | N | JC64901 | 4/25/2018 | | < 0.33 U | < 0.13 U | < 0.17 U | < 0.38 U | < 0.43 U | < 0.21 U |
| FB-20180426 | EB | N | JC64986 | 4/26/2018 | | < 0.34 U | < 0.13 U | < 0.17 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180427 | EB | N | JC65066 | 4/27/2018 | | < 0.33 U | < 0.12 U | < 0.17 U | < 0.38 U | < 0.42 U | < 0.21 U |
| FB-20180427-114-MW19C-POST | EB | N | JC65066 | 4/27/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.40 U | < 0.44 U | < 0.22 U |
| FB-20180427-114-MW19C-PRE | EB | N | JC65066 | 4/27/2018 | | < 0.39 U | < 0.15 U | < 0.20 U | < 0.45 U | < 0.50 U | < 0.25 U |
| FB-20180430 | EB | N | JC65178 | 4/30/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180501 | EB | N | JC65255 | 5/1/2018 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FB-20180501-114-MW19B-POST | EB | N | JC65255 | 5/1/2018 | | < 0.38 U | < 0.14 U | < 0.19 U | < 0.44 U | < 0.49 U | < 0.24 U |
| FB-20180501-114-MW19B-PRE | EB | N | JC65255 | 5/1/2018 | | < 0.37 U | < 0.14 U | < 0.19 U | < 0.43 U | < 0.48 U | < 0.24 U |
| FB-20180502 | EB | N | JC65325 | 5/2/2018 | | < 0.35 U | < 0.13 U | < 0.18 U | < 0.40 U | < 0.45 U | < 0.22 U |
| FB-20180531 | EB | N | JC67069 | 5/31/2018 | | < 0.34 U | < 0.12 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FIELD BLANK-20171219 | EB | N | JC57638 | 12/19/2017 | | < 0.34 U | R | < 0.18 U | R | < 0.44 U | < 0.22 U |
| FORREST-FB20171204 | EB | N | JC56504A | 12/4/2017 | | < 0.35 U | < 0.13 U | < 0.18 U | < 0.40 U | < 0.45 U | < 0.23 U |
| FORREST-FB20171206 | EB | N | JC56729A | 12/6/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FORREST-FB20171207 | EB | N | JC56859A | 12/7/2017 | | < 0.34 U | < 0.13 U | < 0.18 U | < 0.39 U | < 0.44 U | < 0.22 U |
| FORREST-FB-20171218 | EB | N | JC57565 | 12/18/2017 | | < 0.35 U | < 0.13 U | < 0.18 U | < 0.41 U | < 0.46 U | < 0.23 U |

Table 5-7
Analytical Results from Quality Assurance Samples - SVOCs
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NOTE:

1. A "-" indicates the sample was not tested for the analyte.

ABBREVIATIONS:

CAS RN - Chemical Abstracts Service Registry Number

EB - equipment blank/field blank

N - total/unfiltered

RL - reporting limit

SDG - sample delivery group

SVOC - semi-volatile organic compounds

ug/L - micrograms per liter

QUALIFIERS:

J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample. J+ or J - is used when the direction of bias can be determined.

R - The sample result was rejected due to serious deficiencies; the presence or absence of the analyte could not be confirmed.

U - Indicates the analyte was not detected in the sample above the sample RL.

UB - The analyte concentration is less than or equal to three (3) times the concentration in the associated method/preparation blank. The presence of the analyte in the sample is negated due to laboratory blank contamination.