

| Creek              | Date       | Station Miles | Rain Code | H <sub>2</sub> O Temp. (° F) | DO (mg/L) | DO %  | Barometric Pressure (mmHg) | Conductivity (µS/cm) | ORP (mV) | Total Hardness (mg/L) | Chlorine, Total (mg/L) | Chlorine, Free (mg/L) | Total Alkalinity (mg/L) | Ammonia (mg/L) | Turbidity (NTU) | Chlorine, Total Residual (mg/L) | Phenols (mg/L) |
|--------------------|------------|---------------|-----------|------------------------------|-----------|-------|----------------------------|----------------------|----------|-----------------------|------------------------|-----------------------|-------------------------|----------------|-----------------|---------------------------------|----------------|
| Cahaba River       | 10/2/2018  | CR280         | 1         | 77.4                         | 6.58      | 80.4  | 754.9                      | 242.5                | 494      | 250                   | 0                      | 0                     | 80                      | 0              | 4.96            | <0.2                            | 0.5            |
| Valley Creek       | 10/2/2018  | VC04.9s       | 1         | 67                           | 7.92      | 86.7  | 752.8                      | 415.9                | 376      | 250                   | 0                      | 0                     | 180                     | 0              | 4.46            | <0.2                            | 0.5            |
| Valley Creek       | 10/2/2018  | VC02.9        | 1         | 73.2                         | 8.61      | 100.6 | 752.3                      | 487.5                | 393      | 250                   | 0                      | 0                     | 180                     | 0              | 4.15            | <0.2                            | 0.5            |
| Valley Creek       | 10/2/2018  | VC0.7         | 1         | 75.3                         | 7.15      | 86.1  | 751.6                      | 487.5                | 424      | 250                   | 0                      | 0                     | 120                     | 0              | 4.33            | <0.2                            | 0.5            |
| Valley Creek       | 10/2/2018  | VC0.1s        | 1         | 76.6                         | 7.67      | 93.6  | 751.6                      | 513.3                | 430      | 250                   | 0                      | 0                     | 180                     | 0              | 13.3            | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC14.0       | 1         | 72.8                         | 7.5       | 88.4  | 751                        | 450.1                | 324      | 425                   | 0                      | 0                     | 120                     | 0.25           | 3.24            | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC13.0       | 1         | 73.7                         | 7.71      | 91.2  | 750.4                      | 445.7                | 362      | 250                   | 0                      | 0                     | 180                     | 0              | 3.39            | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC09.4       | 1         | 73                           | 7.59      | 88.8  | 749.9                      | 389.8                | 415      | 250                   | 0                      | 0                     | 120                     | 0              | 12.47           | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC08.1       | 1         | 73.2                         | 7.49      | 88.5  | 749.6                      | 387.4                | 426      | 250                   | 0                      | 0                     | 180                     | 0              | 3.77            | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC07.0       | 1         | 73.6                         | 7.88      | 93.8  | 749.1                      | 407.2                | 421      | 250                   | 0                      | 0                     | 120                     | 0              | 3.81            | <0.2                            | 0.5            |
| Cotton Mill Branch | 10/3/2018  | VIC7.0s       | 1         | 73.6                         | 8.07      | 95.8  | 748.8                      | 390                  | 428      | 250                   | 0                      | 0                     | 120                     | 0              | 2.4             | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC06.5       | 1         | 73.5                         | 8.89      | 106.2 | 748.8                      | 363.3                | 429      | 250                   | 0                      | 0                     | 180                     | 0              | 3.04            | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC05.6s      | 1         | 78.3                         | 6.63      | 83.2  | 748                        | 361                  | 431      | 250                   | 0                      | 0                     | 180                     | 0              | 15.46           | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC01.8       | 1         | 70.6                         | 8.46      | 97.5  | 746.6                      | 388.8                | 446      | 250                   | 0                      | 0                     | 120                     | 0              | 8.49            | <0.2                            | 0.5            |
| Village Creek      | 10/3/2018  | VIC01.6s      | 1         | 69.9                         | 8.54      | 97.5  | 746.3                      | 387.7                | 407      | 425                   | 0                      | 0                     | 180                     | 0              | 13.57           | <0.2                            | 0.5            |
| Five Mile Creek    | 10/4/2018  | FMC19.5       | 1         | 73.4                         | 7.56      | 89.5  | 753.8                      | 531.3                | 345      | 250                   | 0                      | 0                     | 120                     | 0              | 9.03            | <0.2                            | 0.5            |
| Five Mile Creek    | 10/4/2018  | FMC08.2       | 1         | 69.1                         | 8.89      | 100.9 | 749.7                      | 360.7                | 380      | 250                   | 0                      | 0                     | 120                     | 0              | 4.49            | <0.2                            | 0.5            |
| Five Mile Creek    | 10/4/2018  | FMC03.6       | 1         | 68.1                         | 8.4       | 94.4  | 746.1                      | 357.5                | 454      | 250                   | 0                      | 0                     | 180                     | 0              | 4.25            | <0.2                            | 0.5            |
| Shades Creek       | 10/4/2018  | SC05.5s       | 1         | 72.8                         | 7.56      | 89.2  | 746.4                      | 432.1                | 412      | 250                   | 0                      | 0                     | 120                     | 0              | 2.76            | <0.2                            | 0.5            |
| Shades Creek       | 10/4/2018  | SC05.5        | 1         | 72.7                         | 7.51      | 88.1  | 746.5                      | 361.2                | 480      | 250                   | 0                      | 0                     | 120                     | 0              | 4.62            | <0.2                            | 0.5            |
| Cahaba River       | 12/11/2018 | CR280         | 7         | 48.3                         | 11.05     | 96    | 758                        | 126.6                | 462      | 120                   | 0                      | 0                     | 80                      | 0              | 22              | <0.2                            | 0.5            |
| Valley Creek       | 12/11/2018 | VC04.9s       | 7         | 55.2                         | 9.19      | 87.3  | 757                        | 389.9                | 321      | 250                   | 0                      | 0                     | 180                     | 0              | 5.3             | <0.2                            | 0.5            |
| Valley Creek       | 12/11/2018 | VC02.9        | 7         | 54                           | 10.77     | 101.4 | 756.6                      | 424.3                | 358      | 250                   | 0                      | 0                     | 120                     | 0              | 6.22            | <0.2                            | 0.5            |
| Valley Creek       | 12/11/2018 | VC0.7         | 7         | 58.6                         | 9.36      | 92.9  | 755.8                      | 450.5                | 367      | 250                   | 0                      | 0                     | 120                     | 0              | 9.38            | <0.2                            | 0.5            |
| Valley Creek       | 12/11/2018 | VC0.1s        | 7         | 60.6                         | 9.02      | 93.1  | 755.6                      | 458.2                | 381      | 250                   | 0                      | 0                     | 120                     | 0              | 84.7            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC14.0       | 1         | 51.8                         | 10.15     | 92.9  | 753.3                      | 458.7                | 397      | 250                   | 0                      | 0                     | 120                     | 0              | 4.72            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC13.0       | 1         | 50.1                         | 10.16     | 91.2  | 752.8                      | 444.2                | 382      | 250                   | 0                      | 0                     | 120                     | 0.25           | 3.02            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC09.4       | 1         | 50.8                         | 10.57     | 95.4  | 752.4                      | 408.4                | 396      | 250                   | 0                      | 0                     | 120                     | 0              | 2.38            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC08.1       | 1         | 50.7                         | 10.7      | 95.1  | 751.9                      | 396.7                | 419      | 250                   | 0                      | 0                     | 120                     | 0              | 2.37            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC07.0       | 1         | 50.8                         | 11.43     | 103.7 | 751.1                      | 378.9                | 430      | 250                   | 0                      | 0                     | 180                     | 0              | 5.27            | <0.2                            | 0.5            |
| Cotton Mill Branch | 12/12/2018 | VIC7.0s       | 1         | 54.8                         | 10.25     | 98    | 750.8                      | 365.4                | 422      | 250                   | 0                      | 0                     | 120                     | 0              | 7.63            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC06.5       | 1         | 51.7                         | 12.1      | 111.1 | 750.9                      | 367.1                | 438      | 425                   | 0                      | 0                     | 180                     | 0              | 1.9             | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC05.6s      | 1         | 57.6                         | 10.53     | 104.2 | 748.8                      | 353.8                | 470      | 250                   | 0                      | 0                     | 120                     | 0              | 22.3            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC01.8       | 1         | 57                           | 10.59     | 104.9 | 747.1                      | 369.1                | 464      | 250                   | 0                      | 0                     | 120                     | 0              | 9.09            | <0.2                            | 0.5            |
| Village Creek      | 12/12/2018 | VIC01.6s      | 1         | 57.3                         | 10.69     | 105   | 746.8                      | 372.2                | 463      | 425                   | 0                      | 0                     | 180                     | 0              | 7.54            | <0.2                            | 0.5            |
| Five Mile Creek    | 12/13/2018 | FMC19.5       | 1         | 49.4                         | 10.66     | 93.3  | 753.5                      | 445.8                | 360      | 250                   | 0                      | 0                     | 180                     | 0              | 3               | <0.2                            | 0.5            |
| Five Mile Creek    | 12/13/2018 | FMC08.2       | 1         | 50.7                         | 11.21     | 102.1 | 749.4                      | 324.1                | 422      | 250                   | 0                      | 0                     | 120                     | 0              | 2.11            | <0.2                            | 0.5            |
| Five Mile Creek    | 12/13/2018 | FMC03.6       | 1         | 53                           | 10.16     | 95.4  | 745.1                      | 316.4                | 455      | 425                   | 0                      | 0                     | 180                     | 0              | 2.91            | <0.2                            | 0.5            |
| Shades Creek       | 12/13/2018 | SC05.5s       | 1         | 55.6                         | 9.57      | 92.7  | 744.7                      | 391.1                | 444      | 250                   | 0                      | 0                     | 120                     | 0              | 3.39            | <0.2                            | 0.5            |
| Shades Creek       | 12/13/2018 | SC05.5        | 1         | 49                           | 12.04     | 106.4 | 745.2                      | 262.3                | 458      | 250                   | 0                      | 0                     | 80                      | 0              | 5               | <0.2                            | 0.5            |
| Cahaba River       | 2/12/2019  | CR280         | 7         | 56.6                         | 9.19      | 90.6  | 745.8                      | 198.1                | 480.4    | 50                    | 0                      | 0                     | 40                      | 0              | 70.3            | <0.2                            | 0.5            |

| Creek              | Date       | Station Miles | Copper, Total (mg/L) | pH   | Detergents | Nitrate as N (mg/L) | Nitrite as N (mg/L) | Total Nitrogen (mg/L) | TKN (mg/L) | Total Phosp (as P) (mg/L) | TSS (mg/L) | BOD (mg/L) | E-Coli (cfu/100m L) | Coliform (cfu/100m L) | ZINC | TDS |
|--------------------|------------|---------------|----------------------|------|------------|---------------------|---------------------|-----------------------|------------|---------------------------|------------|------------|---------------------|-----------------------|------|-----|
| Cahaba River       | 10/2/2018  | CR280         | 0                    | 7.59 | <0.1       | 0.55                | <0.30               | 1.11                  | 0.6        | 0.026                     | <1.0       | N/A        | 219                 | >2419.6               |      |     |
| Valley Creek       | 10/2/2018  | VC04.9s       | 0                    | 7.52 | <0.1       | 1.28                | <0.30               | 1.28                  | <0.50      | 0.02                      | <1.0       | N/A        | 225                 | >2419.6               |      |     |
| Valley Creek       | 10/2/2018  | VC02.9        | 0                    | 8.04 | <0.1       | 2.63                | <0.30               | 2.63                  | <0.50      | 0.258                     | <1.0       | N/A        | 345                 | >2419.6               |      |     |
| Valley Creek       | 10/2/2018  | VC0.7         | 0                    | 7.93 | <0.1       | 3.13                | <0.30               | 3.88                  | 0.8        | 0.479                     | <1.0       | N/A        | 548                 | >2419.6               |      |     |
| Valley Creek       | 10/2/2018  | VC0.1s        | 0                    | 8.01 | <0.1       | 2.92                | <0.30               | 3.63                  | 0.7        | 0.456                     | 3.2        | N/A        | 649                 | >2419.6               |      |     |
| Village Creek      | 10/3/2018  | VIC14.0       | 0                    | 7.88 | <0.1       | 1.38                | <0.30               | 1.38                  | <0.50      | 0.03                      | 1.2        | N/A        | 121                 | >2419.6               | 8.7  |     |
| Village Creek      | 10/3/2018  | VIC13.0       | 0                    | 7.9  | <0.1       | 1.51                | <0.30               | 1.51                  | <0.50      | 0.023                     | 1.2        | N/A        | 47.3                | >2419.6               | 13.8 | 318 |
| Village Creek      | 10/3/2018  | VIC09.4       | 0                    | 7.92 | <0.1       | 0.68                | <0.30               | 0.68                  | <0.50      | 0.033                     | 1.2        | N/A        | 387                 | >2419.6               | 14.8 | 313 |
| Village Creek      | 10/3/2018  | VIC08.1       | 0                    | 8    | <0.1       | 0.7                 | <0.30               | 0.7                   | <0.50      | 0.03                      | 1.2        | N/A        | 261                 | >2419.6               | 5.93 | 258 |
| Village Creek      | 10/3/2018  | VIC07.0       | 0                    | 8.03 | <0.1       | 0.75                | <0.30               | 0.75                  | <0.50      | 0.03                      | 1.2        | N/A        | 261                 | >2419.6               | 11   | 265 |
| Cotton Mill Branch | 10/3/2018  | VIC7.0s       | 0                    | 8.11 | <0.1       | 0.86                | <0.30               | 0.86                  | <0.50      | 0.035                     | <1.0       | N/A        | 93.2                | >2419.6               | 5.39 | 273 |
| Village Creek      | 10/3/2018  | VIC06.5       | 0                    | 8.11 | <0.1       | 0.62                | <0.30               | 0.62                  | <0.50      | 0.021                     | <1.0       | N/A        | 461                 | >2419.6               | 5.36 | 235 |
| Village Creek      | 10/3/2018  | VIC05.6s      | 0                    | 8.18 | <0.1       | 0.66                | <0.30               | 0.66                  | 0.6        | 0.048                     | 2.4        | N/A        | 1990                | >2419.6               | 29.6 | 235 |
| Village Creek      | 10/3/2018  | VIC01.8       | 0                    | 7.78 | <0.1       | 0.95                | <0.30               | 0.95                  | <0.50      | 0.02                      | 6.8        | N/A        | 67                  | >2419.6               | <5.0 | 233 |
| Village Creek      | 10/3/2018  | VIC01.6s      | 0                    | 7.66 | <0.1       | 0.92                | <0.30               | 0.92                  | <0.50      | 0.021                     | 4          | N/A        | 63.3                | >2419.6               | <5.0 | 238 |
| Five Mile Creek    | 10/4/2018  | FMC19.5       | 0                    | 7.88 | <0.1       | 1                   | <0.30               | 1                     | <0.50      | 0.055                     | <1.0       | <1.0       | 93.3                | >2419.6               |      |     |
| Five Mile Creek    | 10/4/2018  | FMC08.2       | 0                    | 8    | <0.1       | 0.81                | <0.30               | 0.81                  | <0.50      | 0.019                     | <1.0       | <1.0       | 770                 | >2419.6               |      |     |
| Five Mile Creek    | 10/4/2018  | FMC03.6       | 0                    | 7.7  | <0.1       | 0.98                | <0.30               | 0.98                  | <0.50      | 0.026                     | <1.0       | <1.0       | 52                  | >2419.6               |      |     |
| Shades Creek       | 10/4/2018  | SC05.5s       | 0                    | 8.01 | <0.1       | 0.55                | <0.30               | 1.24                  | 0.7        | 0.086                     | <1.0       | <1.0       | 1990                | >2419.6               |      |     |
| Shades Creek       | 10/4/2018  | SC05.5        | 0                    | 7.95 | <0.1       | 0.44                | <0.30               | 0.94                  | 0.5        | 0.052                     | <1.0       | <1.0       | 980                 | >2419.6               |      |     |
| Cahaba River       | 12/11/2018 | CR280         | 0                    | 7.1  | <0.1       | 0.48                | <0.30               | 0.48                  | <0.50      | 0.027                     | 4          | 1.38       | 345                 | >2419.6               |      |     |
| Valley Creek       | 12/11/2018 | VC04.9s       | 0                    | 7.51 | <0.1       | 1.5                 | <0.30               | 1.5                   | <0.50      | 0.02                      | 1.2        | <1.0       | 326                 | >2419.6               |      |     |
| Valley Creek       | 12/11/2018 | VC02.9        | 0                    | 7.93 | <0.1       | 1.5                 | <0.30               | 1.5                   | <0.50      | 0.035                     | <1.0       | 1.14       | 147                 | >2419.6               |      |     |
| Valley Creek       | 12/11/2018 | VC0.7         | 0                    | 7.95 | <0.1       | 1.57                | <0.30               | 1.57                  | <0.50      | 0.051                     | <1.0       | <1.0       | 387                 | >2419.6               |      |     |
| Valley Creek       | 12/11/2018 | VC0.1s        | 0                    | 8.02 | <0.1       | 1.79                | <0.30               | 1.79                  | <0.50      | 0.057                     | 14.4       | 1.01       | 461                 | >2419.6               |      |     |
| Village Creek      | 12/12/2018 | VIC14.0       | 0                    | 7.93 | <0.1       | 1.38                | <0.30               | 1.38                  | <0.50      | 0.036                     | <1.0       | 1.36       | 126                 | >2419.6               | 11.4 | 293 |
| Village Creek      | 12/12/2018 | VIC13.0       | 0                    | 7.94 | <0.1       | 1.41                | <0.30               | 1.41                  | <0.50      | 0.028                     | <1.0       | 1.54       | 131                 | >2419.6               | 9.44 | 293 |
| Village Creek      | 12/12/2018 | VIC09.4       | 0                    | 7.99 | <0.1       | 1.07                | <0.30               | 1.07                  | <0.50      | 0.019                     | 1.2        | 1.35       | 249                 | >2419.6               | 14.6 | 268 |
| Village Creek      | 12/12/2018 | VIC08.1       | 0                    | 8.06 | <0.1       | 1.13                | <0.30               | 1.13                  | <0.50      | 0.02                      | 1.6        | 1.23       | 135                 | >2419.6               | 15.8 | 253 |
| Village Creek      | 12/12/2018 | VIC07.0       | 0                    | 8.1  | <0.1       | 1.15                | <0.30               | 1.15                  | <0.50      | 0.017                     | 2          | <1.0       | 461                 | >2419.6               | 11.5 | 240 |
| Cotton Mill Branch | 12/12/2018 | VIC7.0s       | 0                    | 8.11 | <0.1       | 1.52                | <0.30               | 1.52                  | <0.50      | 0.074                     | 2.8        | <1.0       | 980                 | >2419.6               | 28.9 | 240 |
| Village Creek      | 12/12/2018 | VIC06.5       | 0                    | 8.17 | <0.1       | 0.92                | <0.30               | 0.92                  | <0.50      | 0.02                      | 1.2        | <1.0       | 85.7                | >2419.6               | 16.1 | 233 |
| Village Creek      | 12/12/2018 | VIC05.6s      | 0                    | 8.29 | <0.1       | 1.27                | <0.30               | 1.27                  | <0.50      | 0.022                     | 4.4        | <1.0       | 98.3                | >2419.6               | 59.8 | 235 |
| Village Creek      | 12/12/2018 | VIC01.8       | 0                    | 8.01 | <0.1       | 1.1                 | <0.30               | 1.1                   | <0.50      | 0.019                     | <1.0       | <1.0       | 52.9                | >2419.6               | <5.0 | 223 |
| Village Creek      | 12/12/2018 | VIC01.6s      | 0                    | 7.97 | <0.1       | 1.12                | <0.30               | 1.12                  | <0.50      | 0.021                     | <1.0       | <1.0       | 61.3                | >2419.6               | <5.0 | 223 |
| Five Mile Creek    | 12/13/2018 | FMC19.5       | 0                    | 7.68 | <0.1       | 1.3                 | <0.30               | 1.3                   | <0.50      | 0.022                     | 1.6        | <1.0       | 517                 | >2419.6               |      |     |
| Five Mile Creek    | 12/13/2018 | FMC08.2       | 0                    | 8.19 | <0.1       | 0.95                | <0.30               | 0.95                  | <0.50      | 0.018                     | <1.0       | <1.0       | 41.4                | >2419.6               |      |     |
| Five Mile Creek    | 12/13/2018 | FMC03.6       | 0                    | 7.83 | <0.1       | 1.15                | <0.30               | 1.15                  | <0.50      | 0.018                     | <1.0       | <1.0       | 96                  | >2419.6               |      |     |
| Shades Creek       | 12/13/2018 | SC05.5s       | 0                    | 7.76 | <0.1       | 0.66                | <0.30               | 0.66                  | <0.50      | 0.025                     | 1.2        | <1.0       | 1050                | >2419.6               |      |     |
| Shades Creek       | 12/13/2018 | SC05.5        | 0                    | 7.85 | <0.1       | 0.46                | <0.30               | 0.46                  | <0.50      | 0.025                     | 1.2        | <1.0       | 236                 | >2419.6               |      |     |
| Cahaba River       | 2/12/2019  | CR280         | 0                    | 7.88 | <0.1       | 0.25                | <0.30               | 0.25                  | <0.50      | 0.022                     | 4          | 1.9        | >2419.6             | >2419.6               |      |     |

| Creek              | Date       | Station Miles | notes                      |
|--------------------|------------|---------------|----------------------------|
| Cahaba River       | 10/2/2018  | CR280         |                            |
| Valley Creek       | 10/2/2018  | VC04.9s       |                            |
| Valley Creek       | 10/2/2018  | VC02.9        |                            |
| Valley Creek       | 10/2/2018  | VC0.7         |                            |
| Valley Creek       | 10/2/2018  | VC0.1s        |                            |
| Village Creek      | 10/3/2018  | VIC14.0       |                            |
| Village Creek      | 10/3/2018  | VIC13.0       |                            |
| Village Creek      | 10/3/2018  | VIC09.4       |                            |
| Village Creek      | 10/3/2018  | VIC08.1       |                            |
| Village Creek      | 10/3/2018  | VIC07.0       |                            |
| Cotton Mill Branch | 10/3/2018  | VIC7.0s       |                            |
| Village Creek      | 10/3/2018  | VIC06.5       |                            |
| Village Creek      | 10/3/2018  | VIC05.6s      |                            |
| Village Creek      | 10/3/2018  | VIC01.8       |                            |
| Village Creek      | 10/3/2018  | VIC01.6s      |                            |
| Five Mile Creek    | 10/4/2018  | FMC19.5       |                            |
| Five Mile Creek    | 10/4/2018  | FMC08.2       |                            |
| Five Mile Creek    | 10/4/2018  | FMC03.6       |                            |
| Shades Creek       | 10/4/2018  | SC05.5s       |                            |
| Shades Creek       | 10/4/2018  | SC05.5        |                            |
| Cahaba River       | 12/11/2018 | CR280         |                            |
| Valley Creek       | 12/11/2018 | VC04.9s       |                            |
| Valley Creek       | 12/11/2018 | VC02.9        |                            |
| Valley Creek       | 12/11/2018 | VC0.7         |                            |
| Valley Creek       | 12/11/2018 | VC0.1s        | Illicit Discharge observed |
| Village Creek      | 12/12/2018 | VIC14.0       |                            |
| Village Creek      | 12/12/2018 | VIC13.0       |                            |
| Village Creek      | 12/12/2018 | VIC09.4       |                            |
| Village Creek      | 12/12/2018 | VIC08.1       |                            |
| Village Creek      | 12/12/2018 | VIC07.0       | Illicit Discharge observed |
| Cotton Mill Branch | 12/12/2018 | VIC7.0s       | Illicit Discharge observed |
| Village Creek      | 12/12/2018 | VIC06.5       |                            |
| Village Creek      | 12/12/2018 | VIC05.6s      |                            |
| Village Creek      | 12/12/2018 | VIC01.8       |                            |
| Village Creek      | 12/12/2018 | VIC01.6s      |                            |
| Five Mile Creek    | 12/13/2018 | FMC19.5       |                            |
| Five Mile Creek    | 12/13/2018 | FMC08.2       |                            |
| Five Mile Creek    | 12/13/2018 | FMC03.6       |                            |
| Shades Creek       | 12/13/2018 | SC05.5s       |                            |
| Shades Creek       | 12/13/2018 | SC05.5        |                            |
| Cahaba River       | 2/12/2019  | CR280         | Heavy Rain                 |

| Creek              | Date      | Station Miles | Rain Code | H <sub>2</sub> O Temp. (° F) | DO (mg/L) | DO %  | Barometric Pressure (mmHg) | Conductivity (µS/cm) | ORP (mV) | Total Hardness (mg/L) | Chlorine, Total (mg/L) | Chlorine, Free (mg/L) | Total Alkalinity (mg/L) | Ammonia (mg/L) | Turbidity (NTU) | Chlorine, Total Residual (mg/L) | Phenols (mg/L) |
|--------------------|-----------|---------------|-----------|------------------------------|-----------|-------|----------------------------|----------------------|----------|-----------------------|------------------------|-----------------------|-------------------------|----------------|-----------------|---------------------------------|----------------|
| Valley Creek       | 2/12/2019 | VC04.9s       | 7         | 62.74                        | 8.52      | 90.79 | 741.9                      | 369                  | 339.2    | 250                   | 0                      | 0                     | 120                     | 0              | 28              | <0.2                            | <0.5           |
| Valley Creek       | 2/12/2019 | VC02.9        | 7         | 62.2                         | 8.15      | 87.2  | 743.2                      | 178.5                | 426      | 25                    | 0                      | 0                     | 80                      | 0              | 165             | <0.2                            | <0.5           |
| Valley Creek       | 2/12/2019 | VC0.7         | 7         | 61.5                         | 9.8       | 101.1 | 742.4                      | 53.5                 | 411.8    | 25                    | 0                      | 0                     | 40                      | 0              | 387             | <0.2                            | 0.5            |
| Valley Creek       | 2/12/2019 | VC0.1s        | 7         | 60.2                         | 9.85      | 101.7 | 742.5                      | 35.6                 | 429.4    | 25                    | 0                      | 0                     | 40                      | 0.25           | 177             | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC14.0       | 7         | 53.6                         | 9.88      | 91.7  | 754.5                      | 337.7                | 360.8    | 250                   | 0                      | 0                     | 180                     | 0.25           | 10.22           | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC13.0       | 7         | 52.75                        | 9.92      | 92.3  | 753.9                      | 358.9                | 426.2    | 250                   | 0                      | 0                     | 120                     | 0.25           | 7.87            | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC09.4       | 7         | 52.6                         | 10.29     | 95.4  | 753.1                      | 350.2                | 451      | 250                   | 0                      | 0                     | 120                     | 0              | 6.55            | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC08.1       | 7         | 52.87                        | 11.18     | 104   | 752.8                      | 351                  | 464.3    | 250                   | 0                      | 0                     | 120                     | 0              | 7.06            | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC07.0       | 7         | 53.3                         | 10.7      | 100.7 | 752.4                      | 344.8                | 463.3    | 250                   | 0                      | 0                     | 120                     | 0.25           | 6.79            | <0.2                            | 0.5            |
| Cotton Mill Branch | 2/13/2019 | VIC7.0s       | 7         | 56.15                        | 10        | 97.1  | 752                        | 365.8                | 462.3    | 250                   | 0                      | 0                     | 120                     | 0              | 3.69            | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC06.5       | 7         | 54.3                         | 11.66     | 108.3 | 751.8                      | 260.9                | 459      | 250                   | 0                      | 0                     | 120                     | 0              | 4.18            | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC05.6s      | 7         | 58.1                         | 10.37     | 103   | 750                        | 352.1                | 451.9    | 250                   | 0                      | 0                     | 120                     | 0              | 7.41            | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC01.8       | 7         | 58.2                         | 9.76      | 97.5  | 749.5                      | 363.7                | 447.1    | 250                   | 0                      | 0                     | 120                     | 0              | 1.84            | <0.2                            | 0.5            |
| Village Creek      | 2/13/2019 | VIC01.6s      | 7         | 58.7                         | 9.89      | 99.4  | 749                        | 372.9                | 460.5    | 250                   | 0                      | 0                     | 120                     | 0.25           | 1.09            | <0.2                            | 0.5            |
| Five Mile Creek    | 2/14/2019 | FMC19.5       | 7         | 50.86                        | 10.99     | 99.5  | 751.1                      | 409.9                | 373.5    | 120                   | 0                      | 0                     | 80                      | 0              | 4.42            | <0.2                            | 0.5            |
| Five Mile Creek    | 2/14/2019 | FMC08.2       | 7         | 52.25                        | 11.7      | 110.2 | 746.6                      | 312.6                | 429      | 250                   | 0                      | 0                     | 180                     | 0              | 2.41            | <0.2                            | 0.5            |
| Five Mile Creek    | 2/14/2019 | FMC03.6       | 7         | 54.45                        | 11        | 106.2 | 743                        | 311.6                | 446.5    | 250                   | 0                      | 0                     | 120                     | 0              | 2.09            | <0.2                            | 0.5            |
| Shades Creek       | 2/14/2019 | SC05.5s       | 7         | 56                           | 9.45      | 92.7  | 742.9                      | 371.5                | 431.7    | 250                   | 0                      | 0                     | 180                     | 0              | 1.02            | <0.2                            | 0.5            |
| Shades Creek       | 2/14/2019 | SC05.5        | 7         | 50.4                         | 12.5      | 111.6 | 743.5                      | 190.7                | 461.7    | 120                   | 0                      | 0                     | 80                      | 0              | 5.9             | <0.2                            | 0.5            |
| Cahaba River       | 4/9/2019  | CR280         | 6         | 65.2                         | 8.3       | 91    | 743.3                      | 171.1                | 483.7    | 50                    | 0                      | 0                     | 80                      | 0              | 20.4            | <0.2                            | 0.5            |
| Valley Creek       | 4/9/2019  | VC04.9s       | 6         | 64.6                         | 7.9       | 86.7  | 741                        | 305.6                | 363.2    | 250                   | 0                      | 0                     | 180                     | 0.25           | 34.4            | <0.2                            | 0.5            |
| Valley Creek       | 4/9/2019  | VC02.9        | 6         | 66.2                         | 7.96      | 87.3  | 740.8                      | 215.3                | 392.6    | 50                    | 0                      | 0                     | 40                      | 0              | 237             | <0.2                            | 0.5            |
| Valley Creek       | 4/9/2019  | VC0.7         | 6         | 65.18                        | 9.06      | 99.6  | 740.3                      | 64.6                 | 455.8    | 25                    | 0                      | 0                     | 40                      | 0.25           | 141             | <0.2                            | 0.5            |
| Valley Creek       | 4/9/2019  | VC0.1s        | 6         | 65.1                         | 9         | 98.2  | 740.1                      | 93.6                 | 468.8    | 50                    | 0                      | 0                     | 40                      | 0              | 157             | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC14.0       | 7         | 66.4                         | 8.43      | 93.5  | 744                        | 377.4                | 395      | 250                   | 0                      | 0                     | 180                     | 0              | 3.35            | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC13.0       | 7         | 65.6                         | 7.87      | 87.49 | 743.3                      | 379.6                | 384      | 250                   | 0                      | 0                     | 180                     | 0              | 3.51            | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC09.4       | 7         | 64.6                         | 8.64      | 93.6  | 742.8                      | 368                  | 467.6    | 250                   | 0                      | 0                     | 120                     | 0.25           | 2.43            | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC08.1       | 7         | 65.6                         | 9.11      | 100.4 | 742.3                      | 373.5                | 480.5    | 250                   | 0                      | 0                     | 120                     | 0.25           | 2.89            | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC07.0       | 7         | 65.9                         | 9.14      | 100.3 | 741.8                      | 365.3                | 474.1    | 250                   | 0                      | 0                     | 180                     | 0              | 2.16            | <0.2                            | 0.5            |
| Cotton Mill Branch | 4/10/2019 | VIC7.0s       | 7         | 66.6                         | 8.91      | 98.8  | 741.2                      | 378.5                | 484.3    | 250                   | 0                      | 0                     | 180                     | 0.25           | 1.03            | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC06.5       | 7         | 68.1                         | 9.92      | 112.8 | 741.3                      | 354.3                | 465      | 250                   | 0                      | 0                     | 120                     | 0              | 1.6             | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC05.6s      | 7         | 71.1                         | 8.52      | 99.1  | 740.5                      | 367.7                | 477      | 250                   | 0                      | 0                     | 240                     | 0              | 2.18            | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC01.8       | 7         | 69.9                         | 9.15      | 105.3 | 739                        | 381.5                | 474      | 425                   | 0                      | 0                     | 240                     | 0              | 1.88            | <0.2                            | 0.5            |
| Village Creek      | 4/10/2019 | VIC01.6s      | 7         | 70.4                         | 9.1       | 106.3 | 738.7                      | 391.2                | 493.4    | 250                   | 0                      | 0                     | 240                     | 0              | 2.24            | <0.2                            | 0.5            |
| Five Mile Creek    | 4/11/2019 | FMC19.5       | 5         | 65.8                         | 8.43      | 92    | 745.8                      | 519.7                | 446      | 250                   | 0                      | 0                     | 180                     | 0.25           | 2.74            | <0.2                            | 0.5            |
| Five Mile Creek    | 4/11/2019 | FMC08.2       | 5         | 66.1                         | 9.46      | 103.5 | 742                        | 344.7                | 395.6    | 250                   | 0                      | 0                     | 180                     | 0              | 0.34            | <0.2                            | 0.5            |
| Five Mile Creek    | 4/11/2019 | FMC03.6       | 5         | 67.1                         | 9.13      | 101.9 | 738                        | 341.3                | 463.1    | 250                   | 0                      | 0                     | 180                     | 0              | 0.48            | <0.2                            | 0.5            |
| Shades Creek       | 4/11/2019 | SC05.5s       | 5         | 66.2                         | 8.92      | 98.5  | 738.1                      | 374.4                | 429      | 250                   | 0                      | 0                     | 180                     | 0              | 0.39            | <0.2                            | 0.5            |
| Shades Creek       | 4/11/2019 | SC05.5        | 5         | 65.6                         | 9.67      | 107.3 | 738.3                      | 268.1                | 490.9    | 250                   | 0                      | 0                     | 120                     | 0              | 8.02            | <0.2                            | 0.5            |
| Cahaba River       | 6/11/2019 | CR280         | 4         | 81                           | 6.68      | 83.2  | 750.5                      | 188                  | 403      | 250                   | 0                      | 0                     | 120                     | 0              | 13.8            | <0.2                            | 0.5            |
| Valley Creek       | 6/11/2019 | VC04.9s       | 4         | 65.5                         | 7.6       | 82.3  | 749.3                      | 404.7                | 368.6    | 250                   | 0                      | 0                     | 180                     | 0              | 3.08            | <0.2                            | 0.5            |

| Creek              | Date      | Station Miles | Copper, Total (mg/L) | pH   | Detergents | Nitrate as N (mg/L) | Nitrite as N (mg/L) | Total Nitrogen (mg/L) | TKN (mg/L) | Total Phosp (as P) (mg/L) | TSS (mg/L) | BOD (mg/L) | E-Coli (cfu/100m L) | Coliform (cfu/100m L) | ZINC | TDS |
|--------------------|-----------|---------------|----------------------|------|------------|---------------------|---------------------|-----------------------|------------|---------------------------|------------|------------|---------------------|-----------------------|------|-----|
| Valley Creek       | 2/12/2019 | VC04.9s       | 0                    | 7.45 | <0.1       | 1.08                | <0.30               | 1.08                  | <0.50      | 0.019                     | 5.6        | 1.47       | 727                 | >2419.6               |      |     |
| Valley Creek       | 2/12/2019 | VC02.9        | 0                    | 7.75 | <0.1       | <0.23               | <0.30               | <0.23                 | <0.50      | 0.041                     | 7.6        | 3.35       | >2419.6             | >2419.6               |      |     |
| Valley Creek       | 2/12/2019 | VC0.7         | 0                    | 9.3  | <0.1       | <0.23               | <0.30               | <0.23                 | <0.50      | 0.074                     | 27.6       | 3.62       | >2419.6             | >2419.6               |      |     |
| Valley Creek       | 2/12/2019 | VC0.1s        | 0                    | 8.5  | <0.1       | <0.23               | <0.30               | <0.23                 | <0.50      | 0.059                     | 11.2       | 1.69       | >2419.6             | >2419.6               |      |     |
| Village Creek      | 2/13/2019 | VIC14.0       | 0                    | 7.8  | <0.1       | 0.7                 | <0.30               | 0.7                   | <0.50      | 0.049                     | 5.6        | N/A        | 613                 | >2419.6               | 21.2 | 235 |
| Village Creek      | 2/13/2019 | VIC13.0       | 0                    | 7.96 | <0.1       | 0.73                | <0.30               | 0.73                  | <0.50      | 0.035                     | 5.2        | N/A        | 1050                | >2419.6               | 21.9 | 228 |
| Village Creek      | 2/13/2019 | VIC09.4       | 0                    | 8.03 | <0.1       | 0.74                | <0.30               | 0.74                  | <0.50      | 0.03                      | 2.4        | N/A        | 816                 | >2419.6               | 18.3 | 213 |
| Village Creek      | 2/13/2019 | VIC08.1       | 0                    | 8.15 | <0.1       | 0.79                | <0.30               | 0.79                  | <0.50      | 0.024                     | 2.4        | N/A        | 649                 | >2419.6               | 21   | 213 |
| Village Creek      | 2/13/2019 | VIC07.0       | 0                    | 8.21 | <0.1       | 0.81                | <0.30               | 0.81                  | <0.50      | 0.028                     | 1.6        | 4          | 1120                | >2419.6               | 17.2 | 218 |
| Cotton Mill Branch | 2/13/2019 | VIC7.0s       | 0                    | 8.19 | <0.1       | 1.02                | <0.30               | 1.02                  | <0.50      | 0.035                     | 1.6        | 3          | >2419.6             | >2419.6               | 10.1 | 233 |
| Village Creek      | 2/13/2019 | VIC06.5       | 0                    | 8.32 | <0.1       | 0.73                | <0.30               | 0.73                  | <0.50      | 0.033                     | 2          | 3          | 345                 | >2419.6               | 12.5 | 203 |
| Village Creek      | 2/13/2019 | VIC05.6s      | 0                    | 8.27 | <0.1       | 0.95                | <0.30               | 0.95                  | <0.50      | 0.032                     | 1.6        | 3          | 649                 | >2419.6               | 13   | 215 |
| Village Creek      | 2/13/2019 | VIC01.8       | 0                    | 7.97 | <0.1       | 1.1                 | <0.30               | 1.1                   | <0.50      | 0.015                     | 1.2        | 3          | 81.6                | >2419.6               | <5.0 | 210 |
| Village Creek      | 2/13/2019 | VIC01.6s      | 0                    | 8    | <0.1       | 1.11                | <0.30               | 1.11                  | <0.50      | 0.015                     | 1.2        | 3          | 47.1                | >2419.6               | <5.0 | 218 |
| Five Mile Creek    | 2/14/2019 | FMC19.5       | 0                    | 7.58 | <0.1       | 0.78                | <0.30               | 0.78                  | <0.50      | 0.016                     | 1.2        | 2          | 435                 | >2419.6               |      |     |
| Five Mile Creek    | 2/14/2019 | FMC08.2       | 0                    | 8.31 | <0.1       | 0.73                | <0.30               | 0.73                  | <0.50      | 0.013                     | <1.0       | 2          | 135                 | >2419.6               |      |     |
| Five Mile Creek    | 2/14/2019 | FMC03.6       | 0                    | 7.98 | <0.1       | 0.89                | <0.30               | 0.89                  | <0.50      | 0.016                     | <1.0       | 1          | 115                 | 1730                  |      |     |
| Shades Creek       | 2/14/2019 | SC05.5s       | 0                    | 7.8  | <0.1       | 0.51                | <0.30               | 0.51                  | <0.50      | 0.019                     | 1.2        | 2          | 225                 | >2419.6               |      |     |
| Shades Creek       | 2/14/2019 | SC05.5        | 0                    | 8.3  | <0.1       | 0.39                | <0.30               | 0.39                  | <0.50      | 0.018                     | 1.6        | 3          | 345                 | >2419.6               |      |     |
| Cahaba River       | 4/9/2019  | CR280         | 0                    | 7.52 | <0.1       | 0.27                | <0.30               | 0.27                  | <0.50      | 0.02                      | 1.6        | 1.92       | 547.5               | >2419.6               |      |     |
| Valley Creek       | 4/9/2019  | VC04.9s       | 0                    | 7.61 | <0.1       | 0.8                 | <0.30               | 1.39                  | 0.6        | 0.262                     | 2.4        | 2.34       | >2419.6             | >2419.6               |      |     |
| Valley Creek       | 4/9/2019  | VC02.9        | 0                    | 7.97 | <0.1       | 0.84                | <0.30               | 2.54                  | 1.7        | 0.113                     | 7.6        | 5.7        | >2419.6             | >2419.6               |      |     |
| Valley Creek       | 4/9/2019  | VC0.7         | 0                    | 8.05 | <0.1       | 0.32                | <0.30               | 1.24                  | 0.9        | 0.071                     | 9.6        | 3.86       | >2419.6             | >2419.6               |      |     |
| Valley Creek       | 4/9/2019  | VC0.1s        | 0                    | 7.94 | <0.1       | 0.67                | <0.30               | 1.41                  | 0.7        | 0.122                     | 8.4        | 3.83       | >2419.6             | >2419.6               |      |     |
| Village Creek      | 4/10/2019 | VIC14.0       | 0                    | 7.94 | <0.1       | 0.72                | <0.30               | 1.33                  | 0.6        | 0.021                     | <1.0       | 2.1        | 548                 | >2419.6               | 8.98 | 238 |
| Village Creek      | 4/10/2019 | VIC13.0       | 0                    | 7.87 | <0.1       | 0.68                | <0.30               | 1.48                  | 0.8        | 0.04                      | 1.2        | 2.09       | 365                 | >2419.6               | 15.9 | 230 |
| Village Creek      | 4/10/2019 | VIC09.4       | 0                    | 7.96 | <0.1       | 0.66                | <0.30               | 0.66                  | <0.50      | 0.03                      | 1.6        | 1.71       | 276                 | >2419.6               | 15.4 | 218 |
| Village Creek      | 4/10/2019 | VIC08.1       | 0                    | 8.08 | <0.1       | 0.66                | <0.30               | 1.27                  | 0.6        | 0.03                      | 1.2        | 1.94       | 210                 | >2419.6               | 12.4 | 223 |
| Village Creek      | 4/10/2019 | VIC07.0       | 0                    | 8.07 | <0.1       | 0.74                | <0.30               | 0.74                  | <0.50      | <0.01                     | 1.2        | 1.98       | 248                 | >2419.6               | 14.3 | 230 |
| Cotton Mill Branch | 4/10/2019 | VIC7.0s       | 0                    | 8.04 | <0.1       | 1.01                | <0.30               | 1.01                  | <0.50      | 0.041                     | <1.0       | 1.37       | 387                 | >2419.6               | 6.66 | 233 |
| Village Creek      | 4/10/2019 | VIC06.5       | 0                    | 8.14 | <0.1       | 0.59                | <0.30               | 0.59                  | <0.50      | 0.052                     | <1.0       | 1.84       | 105                 | >2419.6               | 9.39 | 218 |
| Village Creek      | 4/10/2019 | VIC05.6s      | 0                    | 8.11 | <0.1       | 0.77                | <0.30               | 0.77                  | <0.50      | 0.024                     | 1.2        | 2.13       | 111                 | >2419.6               | 6.37 | 235 |
| Village Creek      | 4/10/2019 | VIC01.8       | 0                    | 7.97 | <0.1       | 0.96                | <0.30               | 0.96                  | <0.50      | 0.03                      | <1.0       | 1.3        | 78                  | >2419.6               | 6.5  | 208 |
| Village Creek      | 4/10/2019 | VIC01.6s      | 0                    | 7.81 | <0.1       | 0.91                | <0.30               | 0.91                  | <0.50      | 0.022                     | 1.6        | 1.08       | 70.8                | >2419.6               | <5.0 | 223 |
| Five Mile Creek    | 4/11/2019 | FMC19.5       | 0                    | 7.88 | <0.1       | 1.47                | <0.30               | 1.47                  | <0.50      | 0.033                     | 2.8        | 2.19       | 81.6                | >2419.6               |      |     |
| Five Mile Creek    | 4/11/2019 | FMC08.2       | 0                    | 8.17 | <0.1       | 0.81                | <0.30               | 0.81                  | <0.50      | 0.043                     | <1.0       | 1.86       | 37.9                | >2419.6               |      |     |
| Five Mile Creek    | 4/11/2019 | FMC03.6       | 0                    | 8.03 | <0.1       | 0.93                | <0.30               | 0.93                  | <0.50      | 0.021                     | <1.0       | 1.34       | 45.5                | >2419.6               |      |     |
| Shades Creek       | 4/11/2019 | SC05.5s       | 0                    | 7.69 | <0.1       | 0.54                | <0.30               | 0.54                  | <0.50      | 0.022                     | 1.2        | 1.25       | 361                 | >2419.6               |      |     |
| Shades Creek       | 4/11/2019 | SC05.5        | 0                    | 8.08 | <0.1       | 0.58                | <0.30               | 0.58                  | <0.50      | 0.031                     | 2          | 1.71       | 248                 | >2419.6               |      |     |
| Cahaba River       | 6/11/2019 | CR280         | 0                    | 7.07 | <0.1       | 0.38                | <0.30               | 0.38                  | <0.05      | 0.026                     | 1.6        | 1.79       | 135                 | >2419.6               |      |     |
| Valley Creek       | 6/11/2019 | VC04.9s       | 0                    | 7.68 | <0.1       | 1.15                | <0.30               | 1.15                  | <0.05      | 0.048                     | 1.2        | <1.0       | 248                 | >2419.6               |      |     |

| Creek              | Date      | Station Miles | notes                         |
|--------------------|-----------|---------------|-------------------------------|
| Valley Creek       | 2/12/2019 | VC04.9s       | Heavy Rain                    |
| Valley Creek       | 2/12/2019 | VC02.9        | Heavy Rain                    |
| Valley Creek       | 2/12/2019 | VC0.7         | Heavy Rain                    |
| Valley Creek       | 2/12/2019 | VC0.1s        | Heavy Rain                    |
| Village Creek      | 2/13/2019 | VIC14.0       |                               |
| Village Creek      | 2/13/2019 | VIC13.0       |                               |
| Village Creek      | 2/13/2019 | VIC09.4       |                               |
| Village Creek      | 2/13/2019 | VIC08.1       |                               |
| Village Creek      | 2/13/2019 | VIC07.0       |                               |
| Cotton Mill Branch | 2/13/2019 | VIC7.0s       |                               |
| Village Creek      | 2/13/2019 | VIC06.5       |                               |
| Village Creek      | 2/13/2019 | VIC05.6s      |                               |
| Village Creek      | 2/13/2019 | VIC01.8       |                               |
| Village Creek      | 2/13/2019 | VIC01.6s      |                               |
| Five Mile Creek    | 2/14/2019 | FMC19.5       |                               |
| Five Mile Creek    | 2/14/2019 | FMC08.2       |                               |
| Five Mile Creek    | 2/14/2019 | FMC03.6       |                               |
| Shades Creek       | 2/14/2019 | SC05.5s       |                               |
| Shades Creek       | 2/14/2019 | SC05.5        |                               |
| Cahaba River       | 4/9/2019  | CR280         |                               |
| Valley Creek       | 4/9/2019  | VC04.9s       |                               |
| Valley Creek       | 4/9/2019  | VC02.9        | Heavy Rainfall high turbidity |
| Valley Creek       | 4/9/2019  | VC0.7         | Heavy Rainfall high turbidity |
| Valley Creek       | 4/9/2019  | VC0.1s        | Heavy Rainfall high turbidity |
| Village Creek      | 4/10/2019 | VIC14.0       |                               |
| Village Creek      | 4/10/2019 | VIC13.0       |                               |
| Village Creek      | 4/10/2019 | VIC09.4       |                               |
| Village Creek      | 4/10/2019 | VIC08.1       |                               |
| Village Creek      | 4/10/2019 | VIC07.0       |                               |
| Cotton Mill Branch | 4/10/2019 | VIC7.0s       |                               |
| Village Creek      | 4/10/2019 | VIC06.5       |                               |
| Village Creek      | 4/10/2019 | VIC05.6s      |                               |
| Village Creek      | 4/10/2019 | VIC01.8       |                               |
| Village Creek      | 4/10/2019 | VIC01.6s      |                               |
| Five Mile Creek    | 4/11/2019 | FMC19.5       |                               |
| Five Mile Creek    | 4/11/2019 | FMC08.2       |                               |
| Five Mile Creek    | 4/11/2019 | FMC03.6       |                               |
| Shades Creek       | 4/11/2019 | SC05.5s       |                               |
| Shades Creek       | 4/11/2019 | SC05.5        |                               |
| Cahaba River       | 6/11/2019 | CR280         |                               |
| Valley Creek       | 6/11/2019 | VC04.9s       |                               |

| Creek              | Date      | Station Miles | Rain Code | H <sub>2</sub> O Temp. (° F) | DO (mg/L) | DO %  | Barometric Pressure (mmHg) | Conductivity (µS/cm) | ORP (mV) | Total Hardness (mg/L) | Chlorine, Total (mg/L) | Chlorine, Free (mg/L) | Total Alkalinity (mg/L) | Ammonia (mg/L) | Turbidity (NTU) | Chlorine, Total Residual (mg/L) | Phenols (mg/L) |
|--------------------|-----------|---------------|-----------|------------------------------|-----------|-------|----------------------------|----------------------|----------|-----------------------|------------------------|-----------------------|-------------------------|----------------|-----------------|---------------------------------|----------------|
| Valley Creek       | 6/11/2019 | VC02.9        | 4         | 73.3                         | 9.4       | 111.3 | 748.7                      | 421.5                | 401.5    | 250                   | 0                      | 0                     | 120                     | 0              | 2.43            | <0.2                            | 0.5            |
| Valley Creek       | 6/11/2019 | VC0.7         | 4         | 73                           | 7.51      | 88.6  | 747.7                      | 436.4                | 420      | 425                   | 0                      | 0                     | 120                     | 0              | 2.46            | <0.2                            | 0.5            |
| Valley Creek       | 6/11/2019 | VC0.1s        | 4         | 74.7                         | 8.23      | 99.3  | 747.4                      | 498                  | 476.4    | 425                   | 0                      | 0                     | 120                     | 0              | 3.68            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC14.0       | 4         | 72.2                         | 8         | 94.1  | 745.7                      | 405.5                | 398.2    | 425                   | 0                      | 0                     | 180                     | 0.25           | 2.37            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC13.0       | 4         | 72.5                         | 7.62      | 89.6  | 745                        | 402.1                | 440.1    | 250                   | 0                      | 0                     | 180                     | 0              | 1.88            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC09.4       | 4         | 70.9                         | 7.47      | 86.8  | 744.2                      | 367.9                | 465.2    | 250                   | 0                      | 0                     | 120                     | 0.25           | 1.97            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC08.1       | 4         | 71                           | 7.15      | 83.1  | 743.7                      | 376                  | 503.6    | 425                   | 0                      | 0                     | 120                     | 0.25           | 2.21            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC07.0       | 4         | 71.6                         | 7.93      | 93.8  | 743.4                      | 365.6                | 488      | 425                   | 0                      | 0                     | 240                     | 0              | 1.47            | <0.2                            | 0.5            |
| Cotton Mill Branch | 6/12/2019 | VIC7.0s       | 4         | 72                           | 7.58      | 88.8  | 743.4                      | 384                  | 485      | 425                   | 0                      | 0                     | 240                     | 0              | 1.47            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC06.5       | 4         | 72.4                         | 8.86      | 101.6 | 743.3                      | 356                  | 495      | 120                   | 0                      | 0                     | 120                     | 0              | 3.35            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC05.6s      | 4         | 72.4                         | 7.26      | 85    | 742.8                      | 313.8                | 499.1    | 250                   | 0                      | 0                     | 180                     | 0              | 3.74            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC01.8       | 4         | 70.8                         | 8.84      | 102.6 | 741.5                      | 385.8                | 511      | 250                   | 0                      | 0                     | 240                     | 0.25           | 2.24            | <0.2                            | 0.5            |
| Village Creek      | 6/12/2019 | VIC01.6s      | 4         | 69.9                         | 8.66      | 99.9  | 741.1                      | 385.6                | 495      | 250                   | 0                      | 0                     | 180                     | 0              | 1.82            | <0.2                            | 0.5            |
| Five Mile Creek    | 6/13/2019 | FMC19.5       | 1         | 70                           | 7.53      | 86.2  | 750                        | 566.8                | 434      | 425                   | 0                      | 0                     | 180                     | 0              | 3.68            | <0.2                            | 0.5            |
| Five Mile Creek    | 6/13/2019 | FMC08.2       | 1         | 67.2                         | 9.05      | 100.5 | 746.5                      | 356                  | 466      | 425                   | 0                      | 0                     | 240                     | 0              | 0.43            | <0.2                            | 0.5            |
| Five Mile Creek    | 6/13/2019 | FMC03.6       | 1         | 69.1                         | 8.5       | 97.3  | 742.8                      | 345.6                | 505      | 250                   | 0                      | 0                     | 180                     | 0              | 0.15            | <0.2                            | 0.5            |
| Shades Creek       | 6/13/2019 | SC05.5s       | 1         | 70.8                         | 7.8       | 91.3  | 743.5                      | 418                  | 452.4    | 250                   | 0                      | 0                     | 180                     | 0.5            | 7.75            | <0.2                            | 0.5            |
| Shades Creek       | 6/13/2019 | SC05.5        | 1         | 71.5                         | 8.3       | 98.8  | 743.6                      | 319.4                | 501      | 120                   | 0                      | 0                     | 180                     | 0              | 2.68            | <0.2                            | 0.5            |
| Cahaba River       | 8/20/2019 | CR280         | 1         | 79.5                         | 5.74      | 72.6  | 751.5                      | 247.6                | 505      | 250                   | 0                      | 0                     | 180                     | 0              | 2.46            | <0.2                            | 0.5            |
| Valley Creek       | 8/20/2019 | VC04.9s       | 1         | 68.7                         | 6.89      | 77.75 | 749.2                      | 386.6                | 389      | 250                   | 0                      | 0                     | 180                     | 0.25           | 8.1             | <0.2                            | 0.5            |
| Valley Creek       | 8/20/2019 | VC02.9        | 1         | 78.6                         | 9.76      | 116.1 | 748.8                      | 116.5                | 444      | 250                   | 0                      | 0                     | 180                     | 0              | 3.8             | <0.2                            | 0.5            |
| Valley Creek       | 8/20/2019 | VC0.7         | 1         | 77.5                         | 7.35      | 92.1  | 748.4                      | 454.9                | 458      | 250                   | 0                      | 0                     | 120                     | 0              | 2.08            | <0.2                            | 0.5            |
| Valley Creek       | 8/20/2019 | VC0.1s        | 1         | 78.8                         | 6.7       | 84.9  | 748.4                      | 481.2                | 462.4    | 250                   | 0                      | 0                     | 180                     | 0.25           | 99              | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC14.0       | 1         | 77.1                         | 8.55      | 105.2 | 750.3                      | 313.4                | 390.8    | 250                   | 0                      | 0                     | 180                     | 0              | 22.2            | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC13.0       | 1         | 78.5                         | 8.29      | 103.3 | 749.5                      | 388                  | 426      | 250                   | 0                      | 0                     | 240                     | 0              | 30.5            | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC09.4       | 1         | 76.8                         | 7.06      | 86.4  | 749.1                      | 331                  | 478.9    | 250                   | 0                      | 0                     | 180                     | 0              | 5.25            | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC08.1       | 1         | 78.2                         | 7.35      | 91    | 748.7                      | 364.4                | 457      | 425                   | 0                      | 0                     | 240                     | 0              | 4.3             | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC07.0       | 1         | 77.9                         | 7.93      | 98.9  | 748.2                      | 365                  | 477      | 250                   | 0                      | 0                     | 240                     | 0.25           | 2.38            | <0.2                            | 0.5            |
| Cotton Mill Branch | 8/21/2019 | VIC7.0s       | 1         | 77.9                         | 7.55      | 94.1  | 747                        | 380                  | 465      | 250                   | 0                      | 0                     | 180                     | 0              | 1.81            | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC06.5       | 1         | 78.5                         | 8.62      | 107.8 | 748.1                      | 349                  | 459      | 250                   | 0                      | 0                     | 180                     | 0              | 2.17            | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC05.6s      | 1         | 78                           | 7.13      | 88.5  | 747.2                      | 333                  | 474      | 250                   | 0                      | 0                     | 180                     | 0              | 1.72            | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC01.8       | 1         | 75.3                         | 9.08      | 109.8 | 745.8                      | 396.5                | 498.7    | 250                   | 0                      | 0                     | 180                     | 0              | 2.97            | <0.2                            | 0.5            |
| Village Creek      | 8/21/2019 | VIC01.6s      | 1         | 73                           | 8.53      | 102.6 | 145.2                      | 398.7                | 517.9    | 250                   | 0                      | 0                     | 240                     | 0              | 2.38            | <0.2                            | 0.5            |
| Five Mile Creek    | 8/22/2019 | FMC19.5       | 1         | 77.3                         | 6.3       | 77.2  | 751.4                      | 266.6                | 255.8    | 120                   | 0                      | 0                     | 80                      | 0.25           | 28.8            | <0.2                            | 0.5            |
| Five Mile Creek    | 8/22/2019 | FMC08.2       | 1         | 73.5                         | 8.9       | 105.2 | 747.2                      | 360.6                | 415      | 250                   | 0                      | 0                     | 180                     | 0              | 2.56            | <0.2                            | 0.5            |
| Five Mile Creek    | 8/22/2019 | FMC03.6       | 1         | 70.6                         | 8.96      | 101.7 | 743.6                      | 354                  | 430      | 250                   | 0                      | 0                     | 180                     | 0.25           | 1.04            | <0.2                            | 0.5            |
| Shades Creek       | 8/22/2019 | SC05.5s       | 1         | 74.8                         | 5.59      | 67.5  | 743.9                      | 384.7                | 400      | 250                   | 0                      | 0                     | 180                     | 0              | 4.35            | <0.2                            | 0.5            |
| Shades Creek       | 8/22/2019 | SC05.5        | 1         | 78.8                         | 4.24      | 53.5  | 744.2                      | 194.2                | 445.4    | 120                   | 0                      | 0                     | 80                      | 0.25           | 9.21            | <0.2                            | 0.5            |

| Creek              | Date      | Station Miles | Copper, Total (mg/L) | pH   | Detergents | Nitrate as N (mg/L) | Nitrite as N (mg/L) | Total Nitrogen (mg/L) | TKN (mg/L) | Total Phosp (as P) (mg/L) | TSS (mg/L) | BOD (mg/L) | E-Coli (cfu/100m L) | Coliform (cfu/100m L) | ZINC | TDS |
|--------------------|-----------|---------------|----------------------|------|------------|---------------------|---------------------|-----------------------|------------|---------------------------|------------|------------|---------------------|-----------------------|------|-----|
| Valley Creek       | 6/11/2019 | VC02.9        | 0                    | 8.3  | <0.1       | 0.86                | <0.30               | 0.86                  | <0.05      | 0.058                     | 1.2        | <1.0       | 613                 | >2419.6               |      |     |
| Valley Creek       | 6/11/2019 | VC0.7         | 0                    | 8.19 | <0.1       | 1.08                | <0.30               | 1.08                  | <0.05      | 0.079                     | <1.0       | <1.0       | 921                 | >2419.6               |      |     |
| Valley Creek       | 6/11/2019 | VC0.1s        | 0                    | 8.11 | <0.1       | 1.11                | <0.30               | 1.11                  | <0.05      | 0.102                     | <1.0       | <1.0       | 1990                | >2419.6               |      |     |
| Village Creek      | 6/12/2019 | VIC14.0       | 0                    | 7.85 | <0.1       | 0.87                | <0.30               | 0.87                  | <0.05      | 0.027                     | 1.6        | <1.0       | 85.5                | >2419.6               | 10.3 | 238 |
| Village Creek      | 6/12/2019 | VIC13.0       | 0                    | 8.04 | <0.1       | 0.78                | <0.30               | 0.78                  | <0.05      | 0.035                     | <1.0       | <1.0       | 135                 | >2419.6               | 5.08 | 238 |
| Village Creek      | 6/12/2019 | VIC09.4       | 0                    | 7.93 | <0.1       | 0.65                | <0.30               | 0.65                  | <0.05      | 0.043                     | 1.2        | <1.0       | 248                 | >2419.6               | 8.93 | 218 |
| Village Creek      | 6/12/2019 | VIC08.1       | 0                    | 8.05 | <0.1       | 0.66                | <0.30               | 0.66                  | <0.05      | 0.033                     | 1.2        | <1.0       | 345                 | >2419.6               | 9.48 | 228 |
| Village Creek      | 6/12/2019 | VIC07.0       | 0                    | 8.12 | <0.1       | 0.75                | <0.30               | 0.75                  | <0.05      | 0.051                     | 1.6        | <1.0       | 435                 | >2419.6               | 41.7 | 235 |
| Cotton Mill Branch | 6/12/2019 | VIC7.0s       | 0                    | 8.18 | <0.1       | 1.03                | <0.30               | 1.03                  | <0.05      | 0.05                      | 1.2        | <1.0       | 272                 | >2419.6               | 34.5 | 245 |
| Village Creek      | 6/12/2019 | VIC06.5       | 0                    | 8.24 | <0.1       | 0.52                | <0.30               | 0.52                  | <0.05      | 0.022                     | 1.2        | 1.3        | 178                 | >2419.6               | 11.6 | 218 |
| Village Creek      | 6/12/2019 | VIC05.6s      | 0                    | 8.19 | <0.1       | 0.68                | <0.30               | 0.68                  | <0.05      | 0.029                     | 2          | 3.65       | 179                 | >2419.6               | 22.5 | 208 |
| Village Creek      | 6/12/2019 | VIC01.8       | 0                    | 8.09 | <0.1       | 1.01                | <0.30               | 1.01                  | <0.05      | <0.01                     | <1.0       | <1.0       | 114                 | >2419.6               | 26.9 | 225 |
| Village Creek      | 6/12/2019 | VIC01.6s      | 0                    | 8    | <0.1       | 1                   | <0.30               | 1                     | <0.05      | 0.049                     | <1.0       | <1.0       | 172                 | >2419.6               | <5.0 | 233 |
| Five Mile Creek    | 6/13/2019 | FMC19.5       | 0                    | 7.76 | <0.1       | 1.16                | <0.30               | 1.16                  | <0.05      | 0.107                     | <1.0       | <1.0       | 88.2                | >2419.6               |      |     |
| Five Mile Creek    | 6/13/2019 | FMC08.2       | 0                    | 8.17 | <0.1       | 0.87                | <0.30               | 0.87                  | <0.05      | 0.024                     | <1.0       | <1.0       | 66.3                | >2419.6               |      |     |
| Five Mile Creek    | 6/13/2019 | FMC03.6       | 0                    | 7.98 | <0.1       | 1.12                | <0.30               | 1.12                  | <0.05      | 0.029                     | <1.0       | <1.0       | 461                 | >2419.6               |      |     |
| Shades Creek       | 6/13/2019 | SC05.5s       | 0                    | 8.08 | <0.1       | 0.44                | <0.30               | 5.34                  | 4.9        | 0.421                     | 1.6        | <1.0       | >2419.6             | >2419.6               |      |     |
| Shades Creek       | 6/13/2019 | SC05.5        | 0                    | 8.07 | <0.1       | 0.67                | <0.30               | 0.67                  | <0.05      | 0.028                     | <1.0       | <1.0       | >2419.6             | >2419.6               |      |     |
| Cahaba River       | 8/20/2019 | CR280         | 0                    | 7.67 | <0.1       | 0.41                | <0.30               | 0.41                  | <0.5       | 0.038                     | 1.2        | 1.08       | 194                 | >2419.6               |      |     |
| Valley Creek       | 8/20/2019 | VC04.9s       | 0                    | 7.81 | <0.1       | 0.93                | <0.30               | 0.93                  | <0.5       | 0.041                     | <1.0       | 1.14       | >2419.6             | >2419.6               |      |     |
| Valley Creek       | 8/20/2019 | VC02.9        | 0                    | 8.37 | <0.1       | 0.65                | <0.30               | 0.65                  | <0.5       | 0.079                     | <1.0       | 4.02       | 488                 | >2419.6               |      |     |
| Valley Creek       | 8/20/2019 | VC0.7         | 0                    | 8.23 | <0.1       | 0.94                | <0.30               | 0.94                  | <0.5       | 0.098                     | <1.0       | 1.12       | >2419.6             | >2419.6               |      |     |
| Valley Creek       | 8/20/2019 | VC0.1s        | 0                    | 8.22 | <0.1       | 1.11                | <0.30               | 1.11                  | <0.5       | 0.146                     | <1.0       | <1.0       | >2419.6             | >2419.6               |      |     |
| Village Creek      | 8/21/2019 | VIC14.0       | 0                    | 8.12 | <0.1       | 0.49                | <0.30               | 0.49                  | <0.5       | 0.052                     | 9.6        | <1.0       | 37.9                | >2419.6               | 9.44 | 213 |
| Village Creek      | 8/21/2019 | VIC13.0       | 0                    | 8.2  | <0.1       | 0.6                 | <0.30               | 0.6                   | <0.5       | 0.041                     | 8.8        | 1          | 114                 | >2419.6               | 15.2 | 258 |
| Village Creek      | 8/21/2019 | VIC09.4       | 0                    | 8.02 | <0.1       | 0.46                | <0.30               | 0.46                  | <0.5       | 0.043                     | <1.0       | 1.11       | >2419.6             | >2419.6               | 49.4 | 210 |
| Village Creek      | 8/21/2019 | VIC08.1       | 0                    | 8.1  | <0.1       | 0.46                | <0.30               | 0.46                  | <0.5       | 0.058                     | <1.0       | <1.0       | 365                 | >2419.6               | 18.9 | 228 |
| Village Creek      | 8/21/2019 | VIC07.0       | 0                    | 8.16 | <0.1       | 0.5                 | <0.30               | 0.5                   | <0.5       | 0.131                     | <1.0       | <1.0       | 248                 | >2419.6               | 41.7 | 260 |
| Cotton Mill Branch | 8/21/2019 | VIC7.0s       | 0                    | 8.24 | <0.1       | 0.58                | <0.30               | 0.58                  | <0.5       | 0.111                     | <1.0       | 1.03       | 1730                | >2419.6               | 43.8 | 275 |
| Village Creek      | 8/21/2019 | VIC06.5       | 0                    | 8.28 | <0.1       | 0.39                | <0.30               | 0.39                  | <0.5       | 0.021                     | <1.0       | <1.0       | 613                 | >2419.6               | 15.7 | 230 |
| Village Creek      | 8/21/2019 | VIC05.6s      | 0                    | 8.04 | <0.1       | 0.67                | <0.30               | 0.67                  | <0.5       | 0.028                     | <1.0       | 1.3        | 70.8                | >2419.6               | 74.7 | 220 |
| Village Creek      | 8/21/2019 | VIC01.8       | 0                    | 8    | <0.1       | 0.82                | <0.30               | 0.82                  | <0.5       | 0.016                     | <1.0       | <1.0       | 65.7                | >2419.6               | 10.9 | 225 |
| Village Creek      | 8/21/2019 | VIC01.6s      | 0                    | 7.82 | <0.1       | 0.83                | <0.30               | 0.83                  | <0.5       | 0.021                     | 1.2        | <1.0       | 63.1                | >2419.6               | 13.6 | 225 |
| Five Mile Creek    | 8/22/2019 | FMC19.5       | 0                    | 7.71 | <0.1       | 1.11                | <0.30               | 1.11                  | <0.5       | 0.087                     | 2          | 2.86       | >2419.6             | >2419.6               |      |     |
| Five Mile Creek    | 8/22/2019 | FMC08.2       | 0                    | 8.2  | <0.1       | 0.76                | <0.30               | 0.76                  | <0.5       | 0.02                      | <1.0       | <1.0       | 119                 | >2419.6               |      |     |
| Five Mile Creek    | 8/22/2019 | FMC03.6       | 0                    | 7.94 | <0.1       | 0.89                | <0.30               | 0.89                  | <0.5       | 0.019                     | <1.0       | <1.0       | 58.3                | >2419.6               |      |     |
| Shades Creek       | 8/22/2019 | SC05.5s       | 0                    | 7.88 | <0.1       | 0.39                | <0.30               | 0.39                  | <0.5       | 0.042                     | 1.2        | 3.6        | 2420                | >2419.6               |      |     |
| Shades Creek       | 8/22/2019 | SC05.5        | 0                    | 7.76 | <0.1       | 0.27                | <0.30               | 0.27                  | <0.5       | 0.04                      | 2          | 2.38       | 1120                | >2419.6               |      |     |



| Creek              | Date      | Station Miles | notes   |
|--------------------|-----------|---------------|---|
| Valley Creek       | 6/11/2019 | VC02.9        |   |
| Valley Creek       | 6/11/2019 | VC0.7         |   |
| Valley Creek       | 6/11/2019 | VC0.1s        |   |
| Village Creek      | 6/12/2019 | VIC14.0       |   |
| Village Creek      | 6/12/2019 | VIC13.0       |   |
| Village Creek      | 6/12/2019 | VIC09.4       |   |
| Village Creek      | 6/12/2019 | VIC08.1       |   |
| Village Creek      | 6/12/2019 | VIC07.0       |   |
| Cotton Mill Branch | 6/12/2019 | VIC7.0s       |   |
| Village Creek      | 6/12/2019 | VIC06.5       |   |
| Village Creek      | 6/12/2019 | VIC05.6s      |   |
| Village Creek      | 6/12/2019 | VIC01.8       |   |
| Village Creek      | 6/12/2019 | VIC01.6s      |   |
| Five Mile Creek    | 6/13/2019 | FMC19.5       |   |
| Five Mile Creek    | 6/13/2019 | FMC08.2       |   |
| Five Mile Creek    | 6/13/2019 | FMC03.6       |   |
| Shades Creek       | 6/13/2019 | SC05.5s       | High Ecoli, Nitrogen, TKN levels  |
| Shades Creek       | 6/13/2019 | SC05.5        | High Ecoli Levels   |
| Cahaba River       | 8/20/2019 | CR280         |   |
| Valley Creek       | 8/20/2019 | VC04.9s       |   |
| Valley Creek       | 8/20/2019 | VC02.9        |   |
| Valley Creek       | 8/20/2019 | VC0.7         |   |
| Valley Creek       | 8/20/2019 | VC0.1s        | Illicit Discharge observed resulting in high turbidity.                 |
| Village Creek      | 8/21/2019 | VIC14.0       | Illicit Discharge observed up stream Ave W Gas line work                |
| Village Creek      | 8/21/2019 | VIC13.0       | Illicit Discharge observed up stream Ave W Gas line work                |
| Village Creek      | 8/21/2019 | VIC09.4       |   |
| Village Creek      | 8/21/2019 | VIC08.1       |   |
| Village Creek      | 8/21/2019 | VIC07.0       |   |
| Cotton Mill Branch | 8/21/2019 | VIC7.0s       |   |
| Village Creek      | 8/21/2019 | VIC06.5       |   |
| Village Creek      | 8/21/2019 | VIC05.6s      |   |
| Village Creek      | 8/21/2019 | VIC01.8       |   |
| Village Creek      | 8/21/2019 | VIC01.6s      |   |
| Five Mile Creek    | 8/22/2019 | FMC19.5       | Observed illicit Discharge sediment that was traced outside City Limits |
| Five Mile Creek    | 8/22/2019 | FMC08.2       |   |
| Five Mile Creek    | 8/22/2019 | FMC03.6       |   |
| Shades Creek       | 8/22/2019 | SC05.5s       |   |
| Shades Creek       | 8/22/2019 | SC05.5        |   |