section2\_sitespecificData

NYSDEC SMAS : Keleigh Reynolds

4/24/2020

Section II provides a summary of results from each sampling location. Data provided includes waterbody class and WI/PWL number along with a summary of general chemistry, in situ chemistry results, BAP scores and instantaneous discharge. Water chemistry results are summarized by number of records reported after quality assurance (Appendix III), exceedances of water quality standards and a statistical summary that includes mean, median, minimum, and maximum concentrations. Specific exceedances of water quality standards are also specified. Complete, quality assured raw chemistry data results accompanied by all applicable standards are available in Attachment I. BAP scores are provided and include a statistical summary of results for each site that includes mean, impairment threshold, minimum, maximum, standard deviation and standard error. Instantaneous stream discharge (cubic feet/second) is reported for dates when conditions allowed safe, wadeable access to streams (RAS QAPP (17-19); SOP #210-19).

### 13-WALK-60.1 | Waterbody Class: C | PWL\_ID: 1306-0017

Chemistry Measurements: 13-WALK-60.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 15 | 130.053 | 144.00 | 39.875 | 184.00 | 57.20 |
| Aluminum | ug/l | 15 | 419.333 | 363.00 | 176.994 | 796.00 | 180.00 |
| Arsenic | ug/l | 15 | 1.531 | 1.50 | 0.369 | 2.10 | 0.86 |
| Cadmium | ug/l | 15 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 10 | 39040.000 | 42900.00 | 14543.513 | 60100.00 | 19300.00 |
| Chloride | mg/l | 15 | 74.013 | 82.90 | 23.907 | 115.00 | 31.90 |
| Chlorophyll A | ug/l | 15 | 7.444 | 5.03 | 8.319 | 34.20 | 1.31 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 621.200 | 623.00 | 42.068 | 680.00 | 562.00 |
| Copper | ug/l | 15 | 2.507 | 2.40 | 0.473 | 3.20 | 1.80 |
| Hardness (As Caco3) | mg/l | 15 | 170.827 | 190.00 | 57.432 | 252.00 | 71.40 |
| Iron | ug/l | 15 | 1027.067 | 923.00 | 336.452 | 1760.00 | 516.00 |
| Lead | ug/l | 15 | 1.153 | 1.10 | 0.348 | 1.90 | 0.58 |
| Magnesium | ug/l | 14 | 14394.286 | 15600.00 | 5901.432 | 24800.00 | 5250.00 |
| Nickel | ug/l | 15 | 2.060 | 1.90 | 0.567 | 3.30 | 1.40 |
| Nitrate+Nitrite | mg/l | 15 | 0.933 | 0.86 | 0.571 | 2.25 | 0.19 |
| Nitrogen | mg/l | 10 | 1.613 | 1.40 | 0.658 | 2.86 | 0.93 |
| Ammonia | mg/l | 15 | 0.051 | 0.05 | 0.024 | 0.09 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.725 | 0.69 | 0.153 | 1.07 | 0.55 |
| Nitrate | mg/l | 15 | 0.925 | 0.86 | 0.564 | 2.24 | 0.19 |
| Nitrite | mg/l | 15 | 0.016 | 0.01 | 0.008 | NA | NA |
| pH | pH units | 5 | 7.740 | 7.78 | 0.090 | 7.81 | 7.60 |
| pH | pH units | 5 | 7.740 | 7.78 | 0.090 | 7.81 | 7.60 |
| Total Phosphorus | mg/l | 15 | 0.081 | 0.08 | 0.027 | 0.13 | 0.05 |
| Silver | ug/l | 15 | 0.050 | 0.05 | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 280.600 | 311.50 | 66.487 | 340.00 | 150.00 |
| Turbidity | ntu | 15 | 22.455 | 16.60 | 28.419 | 121.00 | 3.22 |
| Zinc | ug/l | 15 | 16.460 | 15.90 | 4.569 | 27.70 | 11.20 |

In-Situ Measurements: 13-WALK-60.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 4 | 0.745 | 0.860 | 0.307 | 0.96 | 0.30 |
| Chlorophyll A (Probe-ug/l) | ug/L | 4 | 3.175 | 3.775 | 1.252 | 3.85 | 1.30 |
| Conductance | uS/cm | 13 | 357.446 | 439.200 | 277.568 | 743.00 | 27.10 |
| Dissolved Oxygen | mg/L | 13 | 8.258 | 7.930 | 2.821 | 12.29 | 4.39 |
| Phycocyanin (Probe- RFU) | RFU | 4 | 0.000 | 0.010 | 0.059 | 0.06 | -0.08 |
| Phycocyanin (Probe- ug/l) | ug/L | 4 | 0.018 | 0.035 | 0.046 | 0.05 | -0.05 |
| Percent Saturation (DO) | % | 11 | 81.400 | 80.100 | 13.976 | 98.60 | 50.00 |
| pH | std units | 13 | 7.478 | 7.500 | 0.316 | 8.00 | 7.07 |
| pH | std units | 13 | 7.478 | 7.500 | 0.316 | 8.00 | 7.07 |
| Salinity | ppt | 11 | 0.155 | 0.120 | 0.142 | 0.37 | 0.01 |
| Temperature | deg C | 13 | 15.469 | 19.100 | 8.937 | 26.00 | 3.40 |

Water Quality Standard Exceedances: 13-WALK-60.1

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | Dissolved Oxygen | mg/l | >=5 | 4.40 |
| 2019 | Dissolved Oxygen | mg/l | >=5 | 4.39 |

Numeric Nutrient Criteria: 13-WALK-60.1

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 15 | 0.081 | 5 | 0.05 | 0.13 | 0.08 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-60.1

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/16/2018 | 5.23 | 0.45 | 4 |
| 8/24/2017 | 4.70 | 0.17 | 2 |

### 13-POCH-2.6 | Waterbody Class: C | PWL\_ID: 1306-0078

Chemistry Measurements: 13-POCH-2.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.475 | 0.456 | 0.174 | 0.693 | 0.295 |
| Nitrogen | mg/l | 4 | 1.105 | 1.020 | 0.320 | 1.550 | 0.830 |
| Ammonia | mg/l | 4 | 0.045 | 0.039 | 0.028 | 0.080 | 0.022 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.633 | 0.570 | 0.148 | 0.850 | 0.540 |
| Nitrate | mg/l | 4 | 0.467 | 0.448 | 0.165 | 0.676 | 0.295 |
| Nitrite | mg/l | 4 | 0.016 | 0.016 | 0.001 | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.120 | 0.120 | 0.033 | 0.154 | 0.087 |
| Turbidity | ntu | 4 | 5.543 | 5.730 | 3.010 | 8.670 | 2.040 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-POCH-2.6

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.12 | 0 | 0.087 | 0.154 | 0.12 | Aquatic Chronic |

### 13-POCH-1.8 | Waterbody Class: C | PWL\_ID: 1306-0078

Chemistry Measurements: 13-POCH-1.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 9 | 127.378 | 115.000 | 41.947 | 196.00 | 74.00 |
| Aluminum | ug/l | 9 | 303.778 | 296.000 | 134.674 | 533.00 | 143.00 |
| Arsenic | ug/l | 9 | 1.321 | 1.300 | 0.348 | 2.00 | 0.69 |
| Cadmium | ug/l | 9 | 0.090 | 0.090 | NA | NA | NA |
| Calcium | ug/l | 9 | 39255.556 | 33800.000 | 12821.380 | 59400.00 | 23800.00 |
| Chloride | mg/l | 9 | 66.167 | 66.900 | 22.007 | 96.80 | 30.50 |
| Chlorophyll A | ug/l | 9 | 3.597 | 2.020 | 3.695 | 12.90 | 1.45 |
| Copper | ug/l | 9 | 2.522 | 2.600 | 0.642 | 3.50 | 1.60 |
| Hardness (As Caco3) | mg/l | 9 | 159.733 | 138.000 | 54.050 | 246.00 | 97.60 |
| Iron | ug/l | 9 | 835.889 | 742.000 | 413.674 | 1640.00 | 304.00 |
| Lead | ug/l | 9 | 1.203 | 1.095 | 0.359 | NA | NA |
| Magnesium | ug/l | 8 | 14066.250 | 12900.000 | 4911.616 | 23800.00 | 9230.00 |
| Nickel | ug/l | 9 | 1.303 | 1.300 | 0.269 | 1.80 | 0.93 |
| Nitrate+Nitrite | mg/l | 9 | 0.484 | 0.480 | 0.177 | 0.80 | 0.27 |
| Nitrogen | mg/l | 9 | 1.114 | 1.150 | 0.298 | 1.52 | 0.65 |
| Ammonia | mg/l | 9 | 0.050 | 0.050 | 0.023 | 0.09 | 0.02 |
| Total Kjeldahl Nitrogen | mg/l | 9 | 0.681 | 0.610 | 0.201 | 1.10 | 0.46 |
| Nitrate | mg/l | 9 | 0.479 | 0.480 | 0.174 | 0.79 | 0.27 |
| Nitrite | mg/l | 9 | 0.010 | 0.010 | 0.000 | NA | NA |
| Total Phosphorus | mg/l | 9 | 0.128 | 0.120 | 0.027 | 0.17 | 0.09 |
| Silver | ug/l | 9 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 4 | 246.000 | 245.500 | 59.008 | 318.00 | 175.00 |
| Turbidity | ntu | 9 | 11.999 | 13.400 | 3.953 | 17.80 | 6.23 |
| Zinc | ug/l | 9 | 6.175 | 5.550 | 3.061 | NA | NA |

In-Situ Measurements: 13-POCH-1.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 5 | 0.634 | 0.49 | 0.355 | 1.25 | 0.36 |
| Chlorophyll A (Probe-ug/l) | ug/L | 5 | 2.470 | 1.90 | 1.395 | 4.90 | 1.40 |
| Conductance | uS/cm | 11 | 441.927 | 406.80 | 180.822 | 752.00 | 174.40 |
| Dissolved Oxygen | mg/L | 11 | 6.405 | 6.15 | 2.248 | 9.31 | 2.40 |
| Phycocyanin (Probe- RFU) | RFU | 5 | 0.100 | 0.02 | 0.175 | 0.40 | -0.04 |
| Phycocyanin (Probe- ug/l) | ug/L | 5 | 0.114 | 0.07 | 0.166 | 0.40 | 0.00 |
| Percent Saturation (DO) | % | 11 | 71.009 | 70.10 | 23.028 | 107.60 | 28.00 |
| pH | std units | 11 | 7.765 | 7.75 | 0.431 | 8.90 | 7.30 |
| pH | std units | 11 | 7.765 | 7.75 | 0.431 | 8.90 | 7.30 |
| Salinity | ppt | 11 | 0.213 | 0.19 | 0.091 | 0.37 | 0.08 |
| Temperature | deg C | 11 | 21.091 | 22.10 | 4.348 | 26.70 | 11.60 |

Water Quality Standard Exceedances: 13-POCH-1.8

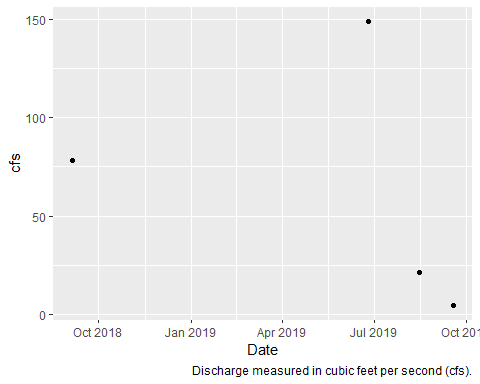
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 2.4 |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 3.6 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2018 | pH | ph\_units | <=8.5 | 8.9 |
| 2019 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2019 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2019 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2019 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2019 | Dissolved Oxygen | mg/l | >=4 | 2.4 |
| 2019 | Dissolved Oxygen | mg/l | >=4 | 2.4 |

Numeric Nutrient Criteria: 13-POCH-1.8

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 9 | 0.128 | 0 | 0.09 | 0.17 | 0.12 | Aquatic Chronic |

Biological Assessment Score Summary: 13-POCH-1.8

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/28/2018 | 5.50 | 0.48 | 4 |
| 8/8/2019 | 5.14 | 0.79 | 4 |



### 13-RUTG-9.3 | Waterbody Class: C | PWL\_ID: 1306-0006

Chemistry Measurements: 13-RUTG-9.3

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.605 | 0.611 | 0.427 | 1.050 | 0.145 |
| Nitrogen | mg/l | 4 | 1.150 | 1.150 | 0.322 | 1.490 | 0.810 |
| Ammonia | mg/l | 4 | 0.037 | 0.045 | 0.018 | 0.048 | 0.010 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.547 | 0.470 | 0.176 | 0.810 | 0.440 |
| Nitrate | mg/l | 4 | 0.597 | 0.606 | 0.418 | 1.030 | 0.145 |
| Nitrite | mg/l | 4 | 0.014 | 0.014 | 0.005 | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.055 | 0.049 | 0.020 | 0.083 | 0.036 |
| Turbidity | ntu | 4 | 6.562 | 6.035 | 5.132 | 12.300 | 1.880 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-RUTG-9.3

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.055 | 0 | 0.036 | 0.083 | 0.049 | Aquatic Chronic |

### 13-RUTG-1.5 | Waterbody Class: C | PWL\_ID: 1306-0006

Chemistry Measurements: 13-RUTG-1.5

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 79.900 | 80.200 | 31.479 | 130.00 | 46.40 |
| Aluminum | ug/l | 10 | 385.380 | 146.500 | 473.672 | 1270.00 | 26.00 |
| Arsenic | ug/l | 10 | 0.839 | 0.865 | 0.192 | 1.10 | 0.47 |
| Cadmium | ug/l | 10 | 0.100 | 0.100 | NA | NA | NA |
| Calcium | ug/l | 10 | 34580.000 | 34750.000 | 14528.883 | 58200.00 | 16700.00 |
| Chloride | mg/l | 10 | 57.400 | 57.400 | 17.235 | 84.70 | 28.50 |
| Chlorophyll A | ug/l | 10 | 2.483 | 1.110 | 2.582 | 7.53 | 0.77 |
| Copper | ug/l | 10 | 1.968 | 1.550 | 1.076 | 4.00 | 0.93 |
| Hardness (As Caco3) | mg/l | 10 | 108.100 | 108.450 | 43.699 | 180.00 | 54.00 |
| Iron | ug/l | 10 | 896.790 | 601.500 | 896.689 | 2560.00 | 94.90 |
| Lead | ug/l | 10 | 1.195 | 0.830 | 0.929 | NA | NA |
| Magnesium | ug/l | 9 | 5174.444 | 4620.000 | 1879.735 | 8410.00 | 3000.00 |
| Nickel | ug/l | 10 | 1.521 | 1.350 | 0.634 | 2.70 | 0.81 |
| Nitrate+Nitrite | mg/l | 10 | 0.348 | 0.400 | 0.188 | 0.58 | 0.00 |
| Nitrogen | mg/l | 10 | 0.951 | 1.015 | 0.310 | 1.36 | 0.40 |
| Ammonia | mg/l | 10 | 0.020 | 0.020 | 0.008 | NA | NA |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.637 | 0.630 | 0.238 | 1.00 | 0.37 |
| Nitrate | mg/l | 10 | 0.386 | 0.430 | 0.150 | NA | NA |
| Nitrite | mg/l | 10 | 0.010 | 0.010 | NA | NA | NA |
| Total Phosphorus | mg/l | 10 | 0.090 | 0.075 | 0.046 | 0.17 | 0.04 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 194.200 | 168.000 | 59.579 | 263.00 | 134.00 |
| Turbidity | ntu | 10 | 9.822 | 6.755 | 9.135 | 30.90 | 1.47 |
| Zinc | ug/l | 10 | 8.560 | 7.400 | 4.943 | NA | NA |

In-Situ Measurements: 13-RUTG-1.5

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 5 | 1.816 | 0.61 | 3.018 | 7.20 | 0.19 |
| Chlorophyll A (Probe-ug/l) | ug/L | 5 | 1.968 | 2.29 | 0.896 | 2.80 | 0.80 |
| Conductance | uS/cm | 13 | 535.731 | 452.70 | 241.474 | 1126.00 | 306.90 |
| Dissolved Oxygen | mg/L | 13 | 9.246 | 8.98 | 1.370 | 12.40 | 7.80 |
| Phycocyanin (Probe- RFU) | RFU | 5 | 0.034 | 0.00 | 0.076 | 0.12 | -0.05 |
| Phycocyanin (Probe- ug/l) | ug/L | 5 | 0.056 | 0.01 | 0.073 | 0.15 | 0.00 |
| Percent Saturation (DO) | % | 13 | 101.900 | 94.00 | 19.464 | 147.00 | 80.20 |
| pH | std units | 12 | 7.907 | 7.89 | 0.272 | 8.46 | 7.42 |
| pH | std units | 12 | 7.907 | 7.89 | 0.272 | 8.46 | 7.42 |
| Salinity | ppt | 12 | 0.278 | 0.25 | 0.118 | 0.56 | 0.15 |
| Temperature | deg C | 13 | 20.159 | 20.80 | 3.966 | 25.20 | 10.60 |

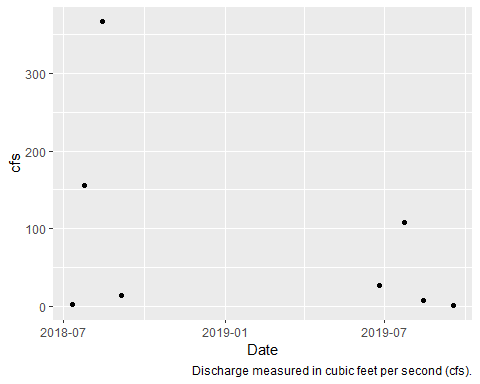
There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-RUTG-1.5

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.09 | 0 | 0.04 | 0.17 | 0.075 | Aquatic Chronic |

Biological Assessment Score Summary: 13-RUTG-1.5

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/28/2018 | 6.10 | 0.55 | 4 |
| 8/8/2019 | 6.87 | 0.50 | 4 |



### 13-QKER-0.9 | Waterbody Class: C | PWL\_ID: 1306-0025

Chemistry Measurements: 13-QKER-0.9

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 142.620 | 144.000 | 37.762 | 182.00 | 78.80 |
| Aluminum | ug/l | 10 | 373.700 | 395.500 | 176.590 | 681.00 | 138.00 |
| Arsenic | ug/l | 10 | 2.640 | 2.300 | 1.326 | 6.00 | 1.30 |
| Cadmium | ug/l | 10 | 1.525 | 1.525 | 1.945 | NA | NA |
| Calcium | ug/l | 5 | 46940.000 | 46400.000 | 8058.722 | 57900.00 | 35300.00 |
| Chloride | mg/l | 10 | 72.090 | 81.950 | 21.966 | 91.10 | 31.80 |
| Chlorophyll A | ug/l | 10 | 9.610 | 5.685 | 11.573 | 40.90 | 2.33 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 668.000 | 693.000 | 70.926 | 727.00 | 548.00 |
| Copper | ug/l | 10 | 6.250 | 5.250 | 3.259 | 14.20 | 3.40 |
| Hardness (As Caco3) | mg/l | 10 | 194.700 | 194.000 | 36.948 | 242.00 | 126.00 |
| Iron | ug/l | 10 | 802.800 | 856.500 | 341.463 | 1310.00 | 368.00 |
| Lead | ug/l | 10 | 0.996 | 0.945 | 0.409 | 1.90 | 0.49 |
| Magnesium | ug/l | 10 | 15157.000 | 15000.000 | 3484.193 | 19600.00 | 9270.00 |
| Nickel | ug/l | 10 | 2.490 | 2.600 | 0.784 | 3.60 | 1.20 |
| Nitrate+Nitrite | mg/l | 10 | 2.044 | 1.440 | 1.884 | 7.28 | 0.94 |
| Nitrogen | mg/l | 5 | 4.248 | 2.990 | 3.345 | 10.10 | 1.67 |
| Ammonia | mg/l | 10 | 0.102 | 0.110 | 0.048 | 0.16 | 0.03 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 1.468 | 1.350 | 0.802 | 2.81 | 0.73 |
| Nitrate | mg/l | 10 | 2.005 | 1.390 | 1.883 | 7.24 | 0.91 |
| Nitrite | mg/l | 10 | 0.040 | 0.040 | 0.012 | 0.06 | 0.02 |
| pH | pH units | 5 | 7.798 | 7.820 | 0.144 | 8.00 | 7.60 |
| pH | pH units | 5 | 7.798 | 7.820 | 0.144 | 8.00 | 7.60 |
| Total Phosphorus | mg/l | 10 | 0.531 | 0.580 | 0.150 | 0.76 | 0.28 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 329.000 | 335.000 | 48.231 | 386.00 | 232.00 |
| Turbidity | ntu | 10 | 12.298 | 10.825 | 6.896 | 26.10 | 4.45 |
| Zinc | ug/l | 10 | 9.100 | 7.150 | 7.027 | 27.10 | 2.70 |

In-Situ Measurements: 13-QKER-0.9

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 11 | 497.518 | 460.00 | 281.949 | 1197.00 | 189.30 |
| Dissolved Oxygen | mg/L | 11 | 7.304 | 7.70 | 3.962 | 14.00 | 0.40 |
| Percent Saturation (DO) | % | 8 | 94.675 | 101.00 | 56.778 | 182.00 | 5.00 |
| pH | std units | 11 | 7.795 | 7.60 | 0.481 | 8.60 | 7.20 |
| pH | std units | 11 | 7.795 | 7.60 | 0.481 | 8.60 | 7.20 |
| Salinity | ppt | 5 | 0.248 | 0.16 | 0.252 | 0.69 | 0.09 |
| Temperature | deg C | 11 | 21.330 | 21.20 | 4.122 | 28.40 | 14.90 |

Water Quality Standard Exceedances: 13-QKER-0.9

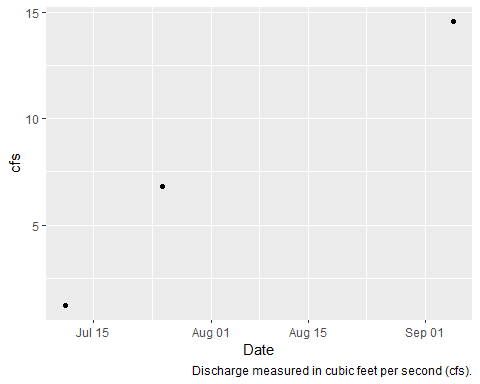
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | Dissolved Oxygen | mg/l | >=4 | 0.4 |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 0.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 0.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 0.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 0.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 0.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 0.4 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 0.4 |
| 2018 | pH | ph\_units | <=8.5 | 8.6 |

Numeric Nutrient Criteria: 13-QKER-0.9

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.531 | 5 | 0.28 | 0.76 | 0.58 | Aquatic Chronic |

Biological Assessment Score Summary: 13-QKER-0.9

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/2/2017 | 2.39 | 0.52 | 4 |



### 13-RIOG-0.7 | Waterbody Class: C | PWL\_ID: 1306-0061

Chemistry Measurements: 13-RIOG-0.7

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 5 | 90.240 | 99.20 | 30.742 | 120.00 | 44.00 |
| Aluminum | ug/l | 5 | 899.180 | 216.00 | 1416.571 | 3400.00 | 55.90 |
| Arsenic | ug/l | 5 | 1.658 | 1.70 | 0.563 | 2.40 | 0.89 |
| Cadmium | ug/l | 5 | 0.170 | 0.17 | 0.042 | NA | NA |
| Calcium | ug/l | 5 | 50720.000 | 44800.00 | 17460.441 | 71700.00 | 34500.00 |
| Chloride | mg/l | 5 | 169.600 | 136.00 | 75.119 | 270.00 | 86.00 |
| Chlorophyll A | ug/l | 5 | 4.562 | 3.33 | 4.304 | 11.00 | 0.72 |
| Copper | ug/l | 5 | 12.700 | 9.40 | 7.797 | 24.20 | 4.60 |
| Hardness (As Caco3) | mg/l | 5 | 167.800 | 148.00 | 56.879 | 238.00 | 113.00 |
| Iron | ug/l | 5 | 1987.600 | 498.00 | 2590.373 | 6410.00 | 392.00 |
| Lead | ug/l | 5 | 10.844 | 2.70 | 16.647 | 40.00 | 0.82 |
| Magnesium | ug/l | 5 | 9950.000 | 8710.00 | 3228.088 | 14300.00 | 6590.00 |
| Nickel | ug/l | 5 | 3.220 | 2.60 | 2.010 | 6.60 | 1.40 |
| Nitrate+Nitrite | mg/l | 5 | 8.612 | 3.32 | 9.831 | 23.40 | 0.93 |
| Nitrogen | mg/l | 5 | 9.832 | 5.98 | 9.568 | 24.20 | 1.69 |
| Ammonia | mg/l | 5 | 0.050 | 0.04 | 0.023 | 0.08 | 0.03 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 1.224 | 0.84 | 0.813 | 2.66 | 0.76 |
| Nitrate | mg/l | 5 | 8.580 | 3.30 | 9.804 | 23.30 | 0.91 |
| Nitrite | mg/l | 5 | 0.028 | 0.02 | 0.013 | 0.05 | 0.02 |
| Total Phosphorus | mg/l | 5 | 1.210 | 1.00 | 0.975 | 2.67 | 0.25 |
| Silver | ug/l | 5 | 0.133 | 0.06 | 0.136 | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 491.800 | 401.00 | 197.420 | 767.00 | 287.00 |
| Turbidity | ntu | 5 | 25.270 | 9.43 | 42.497 | 101.00 | 2.30 |
| Zinc | ug/l | 5 | 41.380 | 33.10 | 40.972 | 112.00 | 10.90 |

In-Situ Measurements: 13-RIOG-0.7

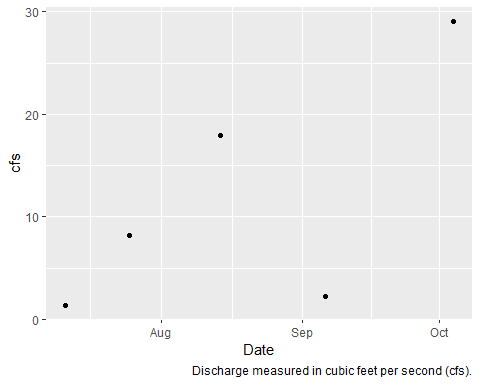
| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 6 | 972.783 | 990.50 | 310.712 | 1402.00 | 469.70 |
| Dissolved Oxygen | mg/L | 6 | 7.808 | 7.88 | 1.103 | 9.09 | 6.65 |
| Percent Saturation (DO) | % | 6 | 90.750 | 85.10 | 13.518 | 108.20 | 79.50 |
| pH | std units | 6 | 7.490 | 7.44 | 0.138 | 7.73 | 7.36 |
| pH | std units | 6 | 7.490 | 7.44 | 0.138 | 7.73 | 7.36 |
| Salinity | ppt | 6 | 0.482 | 0.49 | 0.158 | 0.70 | 0.23 |
| Temperature | deg C | 6 | 22.033 | 23.45 | 3.088 | 24.70 | 16.30 |

Water Quality Standard Exceedances: 13-RIOG-0.7

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 624 |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 767 |

Numeric Nutrient Criteria: 13-RIOG-0.7

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 5 | 1.21 | 0 | 0.25 | 2.67 | 1 | Aquatic Chronic |



### 13-RIOG\_T1-0.8 | Waterbody Class: C | PWL\_ID: 1306-0061

Chemistry Measurements: 13-RIOG\_T1-0.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.431 | 0.399 | 0.091 | 0.563 | 0.363 |
| Nitrogen | mg/l | 4 | 1.138 | 1.075 | 0.236 | 1.450 | 0.950 |
| Ammonia | mg/l | 4 | 0.060 | 0.038 | 0.052 | 0.138 | 0.027 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.705 | 0.610 | 0.246 | 1.070 | 0.530 |
| Nitrate | mg/l | 4 | 0.428 | 0.392 | 0.094 | 0.563 | 0.363 |
| Nitrite | mg/l | 4 | 0.014 | 0.014 | NA | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.127 | 0.134 | 0.049 | 0.174 | 0.068 |
| Turbidity | ntu | 4 | 4.772 | 2.680 | 5.201 | 12.500 | 1.230 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-RIOG\_T1-0.8

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.127 | 0 | 0.068 | 0.174 | 0.134 | Aquatic Chronic |

### 13-WCHEE-0.6 | Waterbody Class: C | PWL\_ID: 1306-0061

Chemistry Measurements: 13-WCHEE-0.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 115.940 | 107.500 | 30.139 | 175.00 | 87.60 |
| Aluminum | ug/l | 10 | 650.200 | 618.500 | 320.549 | 1150.00 | 219.00 |
| Arsenic | ug/l | 10 | 1.636 | 1.700 | 0.530 | 2.60 | 0.85 |
| Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 5 | 51080.000 | 46600.000 | 18581.631 | 72200.00 | 29100.00 |
| Chloride | mg/l | 10 | 185.310 | 207.000 | 78.539 | 260.00 | 33.80 |
| Chlorophyll A | ug/l | 10 | 4.433 | 2.380 | 4.534 | 12.30 | 0.88 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 1151.200 | 1170.000 | 142.363 | 1290.00 | 926.00 |
| Copper | ug/l | 10 | 7.860 | 7.450 | 2.851 | 13.80 | 4.10 |
| Hardness (As Caco3) | mg/l | 10 | 198.170 | 215.000 | 55.112 | 270.00 | 96.70 |
| Iron | ug/l | 10 | 1288.500 | 1200.000 | 643.257 | 2400.00 | 459.00 |
| Lead | ug/l | 10 | 4.580 | 4.200 | 2.488 | 9.70 | 1.50 |
| Magnesium | ug/l | 10 | 11084.000 | 12250.000 | 2961.877 | 14200.00 | 5850.00 |
| Nickel | ug/l | 10 | 3.560 | 3.450 | 1.242 | 5.40 | 1.40 |
| Nitrate+Nitrite | mg/l | 10 | 6.837 | 2.445 | 7.043 | 19.00 | 0.64 |
| Nitrogen | mg/l | 5 | 8.364 | 3.680 | 8.367 | 19.90 | 1.35 |
| Ammonia | mg/l | 10 | 0.098 | 0.075 | 0.074 | 0.28 | 0.03 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.972 | 1.000 | 0.170 | 1.18 | 0.71 |
| Nitrate | mg/l | 10 | 6.781 | 2.315 | 7.048 | 19.00 | 0.61 |
| Nitrite | mg/l | 10 | 0.056 | 0.035 | 0.070 | 0.25 | 0.01 |
| pH | pH units | 5 | 7.752 | 7.720 | 0.321 | 8.28 | 7.41 |
| pH | pH units | 5 | 7.752 | 7.720 | 0.321 | 8.28 | 7.41 |
| Total Phosphorus | mg/l | 10 | 1.709 | 1.970 | 1.002 | 2.88 | 0.24 |
| Silver | ug/l | 10 | 0.082 | 0.085 | 0.017 | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 544.000 | 608.500 | 146.339 | 713.00 | 250.00 |
| Turbidity | ntu | 10 | 28.201 | 22.500 | 21.228 | 62.50 | 3.50 |
| Zinc | ug/l | 10 | 34.320 | 33.550 | 17.627 | 72.80 | 9.90 |

In-Situ Measurements: 13-WCHEE-0.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 7 | 676.700 | 777.000 | 246.206 | 1038.00 | 365.20 |
| Dissolved Oxygen | mg/L | 7 | 6.210 | 6.300 | 0.622 | 6.97 | 5.50 |
| Percent Saturation (DO) | % | 7 | 74.200 | 69.000 | 10.730 | 91.10 | 64.00 |
| pH | std units | 7 | 7.664 | 7.400 | 0.521 | 8.60 | 7.21 |
| pH | std units | 7 | 7.664 | 7.400 | 0.521 | 8.60 | 7.21 |
| Salinity | ppt | 6 | 0.298 | 0.315 | 0.104 | 0.40 | 0.17 |
| Temperature | deg C | 7 | 23.700 | 23.800 | 3.753 | 28.50 | 16.90 |

Water Quality Standard Exceedances: 13-WCHEE-0.6

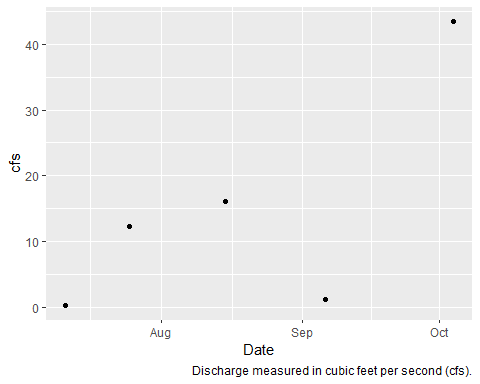
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | Total Dissolved Solids | mg/l | <=500 | 661.0 |
| 2017 | Total Dissolved Solids | mg/l | <=500 | 599.0 |
| 2017 | Total Dissolved Solids | mg/l | <=500 | 646.0 |
| 2017 | Total Dissolved Solids | mg/l | <=500 | 642.0 |
| 2018 | pH | ph\_units | <=8.5 | 8.6 |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 713.0 |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 618.0 |

Numeric Nutrient Criteria: 13-WCHEE-0.6

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 1.709 | 10 | 0.24 | 2.88 | 1.97 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WCHEE-0.6

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/2/2017 | 3.46 | 0.39 | 4 |
| 8/28/2018 | 3.21 | 1.07 | 4 |



### 13-WALK-46.6 | Waterbody Class: C | PWL\_ID: 1306-0017

Chemistry Measurements: 13-WALK-46.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 130.300 | 144.500 | 38.224 | 168.00 | 74.80 |
| Aluminum | ug/l | 10 | 512.500 | 318.500 | 397.177 | 1200.00 | 158.00 |
| Arsenic | ug/l | 10 | 1.436 | 1.650 | 0.664 | 2.30 | 0.59 |
| Cadmium | ug/l | 10 | 0.105 | 0.105 | 0.049 | NA | NA |
| Calcium | ug/l | 5 | 40100.000 | 35300.000 | 12322.135 | 54700.00 | 28100.00 |
| Chloride | mg/l | 10 | 73.780 | 79.650 | 23.965 | 96.90 | 31.50 |
| Chlorophyll A | ug/l | 10 | 7.554 | 4.465 | 8.945 | 31.40 | 2.31 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 655.200 | 683.000 | 89.161 | 732.00 | 509.00 |
| Copper | ug/l | 10 | 3.520 | 2.700 | 1.508 | 5.90 | 2.00 |
| Hardness (As Caco3) | mg/l | 10 | 180.200 | 197.500 | 50.055 | 240.00 | 101.00 |
| Iron | ug/l | 10 | 1148.300 | 792.000 | 855.883 | 2740.00 | 426.00 |
| Lead | ug/l | 10 | 1.102 | 0.750 | 0.798 | 2.70 | 0.45 |
| Magnesium | ug/l | 10 | 14167.000 | 15500.000 | 4472.978 | 18700.00 | 7450.00 |
| Nickel | ug/l | 10 | 2.700 | 2.550 | 0.570 | 3.60 | 2.10 |
| Nitrate+Nitrite | mg/l | 10 | 1.242 | 1.030 | 1.038 | 4.11 | 0.52 |
| Nitrogen | mg/l | 5 | 2.496 | 1.970 | 1.463 | 4.96 | 1.41 |
| Ammonia | mg/l | 10 | 0.048 | 0.050 | 0.015 | 0.07 | 0.03 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.974 | 0.860 | 0.278 | 1.43 | 0.71 |
| Nitrate | mg/l | 10 | 1.230 | 1.010 | 1.038 | 4.10 | 0.51 |
| Nitrite | mg/l | 10 | 0.015 | 0.010 | 0.008 | NA | NA |
| pH | pH units | 5 | 7.858 | 7.870 | 0.100 | 7.94 | 7.69 |
| pH | pH units | 5 | 7.858 | 7.870 | 0.100 | 7.94 | 7.69 |
| Total Phosphorus | mg/l | 10 | 0.150 | 0.120 | 0.076 | 0.30 | 0.08 |
| Silver | ug/l | 10 | 0.100 | 0.100 | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 309.300 | 344.000 | 69.493 | 379.00 | 190.00 |
| Turbidity | ntu | 10 | 18.595 | 12.850 | 15.088 | 51.80 | 4.62 |
| Zinc | ug/l | 10 | 11.630 | 6.750 | 7.933 | 25.80 | 5.40 |

In-Situ Measurements: 13-WALK-46.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 8 | 413.411 | 396.650 | 137.159 | 627.00 | 278.39 |
| Dissolved Oxygen | mg/L | 8 | 7.867 | 7.550 | 1.264 | 10.30 | 6.34 |
| Percent Saturation (DO) | % | 7 | 88.786 | 85.000 | 14.029 | 118.00 | 74.50 |
| pH | std units | 8 | 7.713 | 7.725 | 0.209 | 8.03 | 7.36 |
| pH | std units | 8 | 7.713 | 7.725 | 0.209 | 8.03 | 7.36 |
| Salinity | ppt | 6 | 0.183 | 0.150 | 0.070 | 0.31 | 0.13 |
| Temperature | deg C | 8 | 21.087 | 22.400 | 3.306 | 24.20 | 15.30 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-WALK-46.6

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.15 | 5 | 0.08 | 0.3 | 0.12 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-46.6

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/2/2017 | 4.12 | 0.23 | 4 |

### 13-MONH-4.1 | Waterbody Class: C | PWL\_ID: 1306-0074

Chemistry Measurements: 13-MONH-4.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 5 | 113.160 | 120.00 | 34.726 | 150.00 | 70.80 |
| Aluminum | ug/l | 5 | 205.300 | 157.00 | 186.277 | 463.00 | 25.10 |
| Arsenic | ug/l | 5 | 1.224 | 1.20 | 0.209 | 1.50 | 0.92 |
| Cadmium | ug/l | 5 | 0.600 | 0.60 | NA | NA | NA |
| Calcium | ug/l | 5 | 54080.000 | 52800.00 | 21686.332 | 79200.00 | 32400.00 |
| Chloride | mg/l | 5 | 140.860 | 98.40 | 108.208 | 292.00 | 32.60 |
| Chlorophyll A | ug/l | 5 | 2.068 | 1.94 | 1.026 | 3.67 | 1.07 |
| Copper | ug/l | 5 | 5.580 | 5.30 | 1.431 | 7.90 | 4.00 |
| Hardness (As Caco3) | mg/l | 5 | 167.200 | 162.00 | 67.563 | 247.00 | 100.00 |
| Iron | ug/l | 5 | 517.400 | 422.00 | 311.520 | 848.00 | 220.00 |
| Lead | ug/l | 5 | 1.940 | 0.98 | 1.663 | 3.90 | 0.58 |
| Magnesium | ug/l | 5 | 7814.000 | 7310.00 | 3278.106 | 12000.00 | 4680.00 |
| Nickel | ug/l | 5 | 1.712 | 1.90 | 0.576 | 2.40 | 0.96 |
| Nitrate+Nitrite | mg/l | 5 | 0.716 | 0.62 | 0.343 | 1.31 | 0.43 |
| Nitrogen | mg/l | 5 | 1.372 | 1.16 | 0.424 | 2.11 | 1.08 |
| Ammonia | mg/l | 5 | 0.086 | 0.08 | 0.069 | 0.19 | 0.02 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.654 | 0.72 | 0.167 | 0.80 | 0.42 |
| Nitrate | mg/l | 5 | 0.664 | 0.62 | 0.250 | 1.08 | 0.42 |
| Nitrite | mg/l | 5 | 0.093 | 0.02 | 0.127 | NA | NA |
| Total Phosphorus | mg/l | 5 | 0.088 | 0.08 | 0.045 | 0.16 | 0.05 |
| Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 443.600 | 416.00 | 188.410 | 700.00 | 252.00 |
| Turbidity | ntu | 5 | 8.464 | 5.21 | 7.991 | 19.60 | 1.47 |
| Zinc | ug/l | 5 | 13.400 | 9.10 | 10.842 | 29.20 | 3.10 |

In-Situ Measurements: 13-MONH-4.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 9 | 1005.222 | 1112.00 | 387.433 | 1430.00 | 310.00 |
| Dissolved Oxygen | mg/L | 9 | 8.703 | 8.30 | 1.436 | 11.90 | 7.30 |
| Percent Saturation (DO) | % | 7 | 91.957 | 89.00 | 7.006 | 105.00 | 86.00 |
| pH | std units | 8 | 7.808 | 7.86 | 0.372 | 8.50 | 7.32 |
| pH | std units | 8 | 7.808 | 7.86 | 0.372 | 8.50 | 7.32 |
| Salinity | ppt | 7 | 0.576 | 0.61 | 0.141 | 0.72 | 0.36 |
| Temperature | deg C | 9 | 20.222 | 19.40 | 2.046 | 23.50 | 17.40 |

Water Quality Standard Exceedances: 13-MONH-4.1

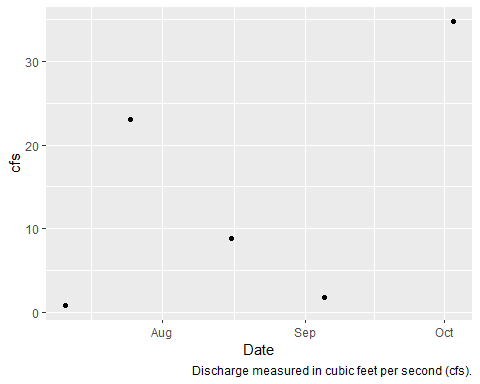
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 563 |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 700 |

Numeric Nutrient Criteria: 13-MONH-4.1

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 5 | 0.088 | 5 | 0.05 | 0.16 | 0.08 | Aquatic Chronic |

Biological Assessment Score Summary: 13-MONH-4.1

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 7/26/2017 | 4.41 | NA | 1 |
| 8/27/2018 | 3.83 | 0.51 | 4 |



### 13-MONH-0.4 | Waterbody Class: C | PWL\_ID: 1306-0074

Chemistry Measurements: 13-MONH-0.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 133.780 | 132.500 | 24.026 | 172.00 | 94.80 |
| Aluminum | ug/l | 10 | 237.856 | 172.000 | 332.070 | NA | NA |
| Arsenic | ug/l | 10 | 1.323 | 1.200 | 0.579 | NA | NA |
| Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 5 | 61320.000 | 50500.000 | 22331.301 | 85800.00 | 37000.00 |
| Chloride | mg/l | 10 | 188.070 | 189.000 | 68.746 | 298.00 | 75.70 |
| Chlorophyll A | ug/l | 10 | 3.914 | 2.555 | 3.641 | 11.30 | 0.83 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 999.000 | 984.000 | 146.871 | 1190.00 | 838.00 |
| Copper | ug/l | 10 | 3.910 | 3.600 | 1.271 | 7.20 | 2.70 |
| Hardness (As Caco3) | mg/l | 10 | 208.900 | 216.500 | 57.206 | 268.00 | 115.00 |
| Iron | ug/l | 10 | 580.600 | 413.000 | 707.371 | 2510.00 | 116.00 |
| Lead | ug/l | 10 | 2.118 | 1.200 | 2.468 | NA | NA |
| Magnesium | ug/l | 10 | 9457.000 | 9090.000 | 2521.622 | 13000.00 | 5540.00 |
| Nickel | ug/l | 10 | 2.410 | 2.300 | 0.780 | 3.50 | 1.40 |
| Nitrate+Nitrite | mg/l | 10 | 0.287 | 0.270 | 0.091 | 0.44 | 0.16 |
| Nitrogen | mg/l | 5 | 0.952 | 0.930 | 0.104 | 1.08 | 0.82 |
| Ammonia | mg/l | 10 | 0.020 | 0.020 | 0.007 | 0.03 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.612 | 0.560 | 0.136 | 0.80 | 0.46 |
| Nitrate | mg/l | 10 | 0.287 | 0.270 | 0.091 | 0.44 | 0.16 |
| Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| pH | pH units | 5 | 8.082 | 8.010 | 0.248 | 8.46 | 7.82 |
| pH | pH units | 5 | 8.082 | 8.010 | 0.248 | 8.46 | 7.82 |
| Total Phosphorus | mg/l | 10 | 0.089 | 0.085 | 0.025 | 0.15 | 0.06 |
| Silver | ug/l | 10 | 0.075 | 0.075 | 0.035 | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 493.200 | 485.000 | 134.831 | 699.00 | 270.00 |
| Turbidity | ntu | 10 | 6.678 | 2.770 | 9.771 | 33.20 | 1.16 |
| Zinc | ug/l | 10 | 6.978 | 5.100 | 5.722 | NA | NA |

In-Situ Measurements: 13-MONH-0.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 9 | 733.110 | 727.000 | 257.542 | 1073.00 | 400.00 |
| Dissolved Oxygen | mg/L | 9 | 8.056 | 8.100 | 0.918 | 9.30 | 6.70 |
| Percent Saturation (DO) | % | 6 | 89.333 | 92.000 | 9.564 | 97.00 | 71.00 |
| pH | std units | 8 | 7.697 | 7.665 | 0.448 | 8.30 | 6.90 |
| pH | std units | 8 | 7.697 | 7.665 | 0.448 | 8.30 | 6.90 |
| Salinity | ppt | 5 | 0.324 | 0.280 | 0.104 | 0.44 | 0.22 |
| Temperature | deg C | 9 | 19.822 | 20.500 | 3.205 | 23.70 | 15.40 |

Water Quality Standard Exceedances: 13-MONH-0.4

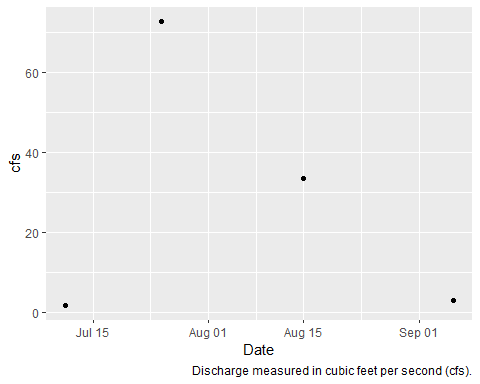
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | Total Dissolved Solids | mg/l | <=500 | 564 |
| 2017 | Total Dissolved Solids | mg/l | <=500 | 644 |
| 2017 | Total Dissolved Solids | mg/l | <=500 | 525 |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 592 |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 699 |

Numeric Nutrient Criteria: 13-MONH-0.4

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.089 | 0 | 0.06 | 0.15 | 0.085 | Aquatic Chronic |

Biological Assessment Score Summary: 13-MONH-0.4

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/2/2017 | 5.78 | 0.31 | 4 |
| 8/27/2018 | 5.35 | 0.52 | 4 |



### 13-LGUN-6.0 | Waterbody Class: B | PWL\_ID: 1306-0059

Chemistry Measurements: 13-LGUN-6.0

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 5 | 46.080 | 46.80 | 7.769 | 53.60 | 35.60 |
| Aluminum | ug/l | 5 | 168.840 | 98.10 | 136.337 | 368.00 | 49.20 |
| Arsenic | ug/l | 5 | 0.802 | 0.86 | 0.180 | 1.00 | 0.54 |
| Cadmium | ug/l | 5 | 0.570 | 0.57 | NA | NA | NA |
| Calcium | ug/l | 5 | 19000.000 | 19200.00 | 2623.928 | 21400.00 | 14700.00 |
| Chloride | mg/l | 5 | 34.080 | 33.80 | 7.440 | 42.20 | 23.00 |
| Chlorophyll A | ug/l | 5 | 3.114 | 2.23 | 2.410 | 6.95 | 0.78 |
| Copper | ug/l | 5 | 16.600 | 14.30 | 7.799 | 29.10 | 8.40 |
| Hardness (As Caco3) | mg/l | 5 | 61.120 | 62.50 | 8.037 | 68.00 | 48.00 |
| Iron | ug/l | 5 | 640.000 | 587.00 | 388.574 | 1200.00 | 234.00 |
| Lead | ug/l | 5 | 0.676 | 0.78 | 0.368 | 1.00 | 0.16 |
| Magnesium | ug/l | 5 | 3318.000 | 3510.00 | 372.048 | 3660.00 | 2760.00 |
| Nickel | ug/l | 5 | 1.188 | 1.30 | 0.392 | 1.60 | 0.54 |
| Nitrate+Nitrite | mg/l | 5 | 0.102 | 0.08 | 0.062 | 0.19 | 0.04 |
| Nitrogen | mg/l | 5 | 0.622 | 0.65 | 0.074 | 0.69 | 0.52 |
| Ammonia | mg/l | 5 | 0.020 | 0.02 | 0.010 | 0.03 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.518 | 0.49 | 0.064 | 0.63 | 0.48 |
| Nitrate | mg/l | 5 | 0.102 | 0.08 | 0.062 | 0.19 | 0.04 |
| Nitrite | mg/l | 5 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 5 | 0.044 | 0.05 | 0.015 | 0.06 | 0.02 |
| Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 137.000 | 138.00 | 11.292 | 149.00 | 125.00 |
| Turbidity | ntu | 5 | 5.280 | 3.91 | 4.484 | 13.20 | 2.24 |
| Zinc | ug/l | 5 | 5.250 | 5.30 | 0.998 | NA | NA |

In-Situ Measurements: 13-LGUN-6.0

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 4 | 3577.350 | 350.200 | 6534.781 | 13379.00 | 230.00 |
| Dissolved Oxygen | mg/L | 4 | 7.753 | 7.705 | 0.903 | 8.90 | 6.70 |
| Percent Saturation (DO) | % | 4 | 92.750 | 92.500 | 10.874 | 104.00 | 82.00 |
| pH | std units | 4 | 7.852 | 7.860 | 0.314 | 8.19 | 7.50 |
| pH | std units | 4 | 7.852 | 7.860 | 0.314 | 8.19 | 7.50 |
| Salinity | ppt | 4 | 2.042 | 0.165 | 3.792 | 7.73 | 0.11 |
| Temperature | deg C | 4 | 23.700 | 23.100 | 3.294 | 27.70 | 20.90 |

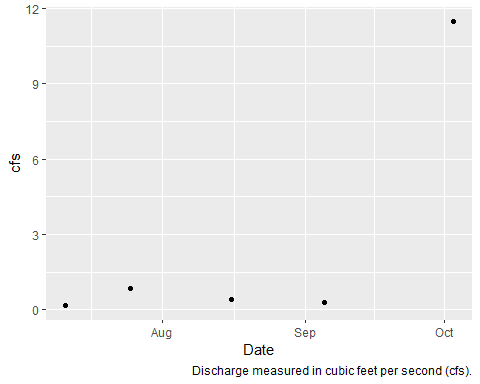
There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-LGUN-6.0

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 5 | 0.044 | 4 | 0.02 | 0.06 | 0.05 | Aquatic Chronic |

Biological Assessment Score Summary: 13-LGUN-6.0

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 3.09 | 1.13 | 4 |



### 13-GUNK-40.3 | Waterbody Class: A | PWL\_ID: 1306-0048

Chemistry Measurements: 13-GUNK-40.3

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 5 | 46.880 | 40.80 | 14.674 | 64.40 | 33.20 |
| Aluminum | ug/l | 5 | 268.980 | 317.00 | 172.457 | 508.00 | 89.90 |
| Arsenic | ug/l | 5 | 0.886 | 0.90 | 0.173 | 1.10 | 0.63 |
| Cadmium | ug/l | 5 | 0.550 | 0.55 | NA | NA | NA |
| Calcium | ug/l | 5 | 20340.000 | 18700.00 | 7100.915 | 27700.00 | 12200.00 |
| Chloride | mg/l | 5 | 51.400 | 46.80 | 20.275 | 80.10 | 28.70 |
| Chlorophyll A | ug/l | 5 | 2.132 | 1.63 | 1.795 | 5.25 | 0.89 |
| Copper | ug/l | 5 | 3.360 | 3.00 | 1.218 | 4.70 | 2.20 |
| Hardness (As Caco3) | mg/l | 5 | 66.860 | 62.00 | 22.887 | 91.30 | 40.90 |
| Iron | ug/l | 5 | 704.000 | 663.00 | 411.792 | 1340.00 | 206.00 |
| Lead | ug/l | 5 | 0.678 | 0.72 | 0.331 | 1.10 | 0.29 |
| Magnesium | ug/l | 5 | 3894.000 | 3690.00 | 1258.424 | 5340.00 | 2500.00 |
| Nickel | ug/l | 5 | 1.152 | 1.20 | 0.218 | 1.40 | 0.88 |
| Nitrate+Nitrite | mg/l | 5 | 0.128 | 0.07 | 0.147 | 0.39 | 0.05 |
| Nitrogen | mg/l | 5 | 0.782 | 0.71 | 0.187 | 1.09 | 0.63 |
| Ammonia | mg/l | 5 | 0.024 | 0.02 | 0.011 | 0.04 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.656 | 0.61 | 0.226 | 1.03 | 0.43 |
| Nitrate | mg/l | 5 | 0.128 | 0.07 | 0.147 | 0.39 | 0.05 |
| Nitrite | mg/l | 5 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 5 | 0.070 | 0.06 | 0.020 | 0.10 | 0.05 |
| Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 174.400 | 169.00 | 40.759 | 226.00 | 124.00 |
| Turbidity | ntu | 5 | 10.964 | 9.21 | 7.329 | 19.20 | 3.75 |
| Zinc | ug/l | 5 | 4.475 | 4.35 | 1.410 | NA | NA |

In-Situ Measurements: 13-GUNK-40.3

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 6 | 637.950 | 582.600 | 342.001 | 1083.00 | 299.00 |
| Dissolved Oxygen | mg/L | 6 | 7.358 | 7.580 | 1.084 | 8.50 | 5.30 |
| Percent Saturation (DO) | % | 6 | 86.167 | 89.750 | 12.794 | 101.00 | 65.00 |
| pH | std units | 6 | 7.627 | 7.635 | 0.488 | 8.39 | 7.03 |
| pH | std units | 6 | 7.627 | 7.635 | 0.488 | 8.39 | 7.03 |
| Salinity | ppt | 6 | 0.310 | 0.280 | 0.172 | 0.54 | 0.14 |
| Temperature | deg C | 6 | 22.467 | 23.200 | 2.575 | 25.30 | 17.80 |

Water Quality Standard Exceedances: 13-GUNK-40.3

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Iron | ug/l | <=300 | 663 |
| 2018 | Iron | ug/l | <=300 | 1340 |
| 2018 | Iron | ug/l | <=300 | 754 |
| 2018 | Iron | ug/l | <=300 | 557 |

Numeric Nutrient Criteria: 13-GUNK-40.3

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 5 | 0.07 | 5 | 0.05 | 0.1 | 0.06 | Aquatic Chronic |
| Total Phosphorus | 5 | 0.07 | 5 | 0.05 | 0.1 | 0.06 | Health-Water Supply |

Biological Assessment Score Summary: 13-GUNK-40.3

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 4.54 | 0.58 | 4 |

### 13-GUNK-37.7 | Waterbody Class: B | PWL\_ID: 1306-0047

Chemistry Measurements: 13-GUNK-37.7

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 5 | 71.400 | 4.52e+01 | 62.090 | 181.00 | 35.20 |
| Aluminum | ug/l | 5 | 225.200 | 1.25e+02 | 153.030 | 419.00 | 97.00 |
| Arsenic | ug/l | 5 | 2.370 | 1.40e+00 | 2.783 | 7.30 | 0.60 |
| Cadmium | ug/l | 5 | 0.345 | 3.45e-01 | 0.361 | NA | NA |
| Calcium | ug/l | 5 | 25860.000 | 1.78e+04 | 20853.129 | 62700.00 | 12100.00 |
| Chloride | mg/l | 5 | 84.120 | 4.15e+01 | 107.029 | 275.00 | 23.90 |
| Chlorophyll A | ug/l | 5 | 12.300 | 5.78e+00 | 15.596 | 38.60 | 1.19 |
| Copper | ug/l | 5 | 4.000 | 2.90e+00 | 2.273 | 7.80 | 2.30 |
| Hardness (As Caco3) | mg/l | 5 | 82.840 | 5.81e+01 | 64.630 | 197.00 | 40.30 |
| Iron | ug/l | 5 | 1997.200 | 7.76e+02 | 2547.162 | 6520.00 | 593.00 |
| Lead | ug/l | 5 | 0.994 | 6.50e-01 | 0.739 | 2.20 | 0.45 |
| Magnesium | ug/l | 5 | 4446.000 | 3.31e+03 | 3111.018 | 9940.00 | 2430.00 |
| Nickel | ug/l | 5 | 1.532 | 1.30e+00 | 0.842 | 3.00 | 0.96 |
| Nitrate+Nitrite | mg/l | 5 | 0.112 | 1.30e-01 | 0.069 | 0.20 | 0.02 |
| Nitrogen | mg/l | 5 | 2.176 | 8.10e-01 | 2.967 | 7.47 | 0.69 |
| Ammonia | mg/l | 5 | 0.046 | 6.00e-02 | 0.024 | 0.07 | 0.02 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 2.068 | 7.40e-01 | 3.020 | 7.46 | 0.56 |
| Nitrate | mg/l | 5 | 0.110 | 1.30e-01 | 0.066 | 0.19 | 0.02 |
| Nitrite | mg/l | 5 | 0.010 | 1.00e-02 | NA | NA | NA |
| Total Phosphorus | mg/l | 5 | 0.246 | 1.00e-01 | 0.322 | 0.82 | 0.07 |
| Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 254.800 | 1.57e+02 | 249.929 | 700.00 | 109.00 |
| Turbidity | ntu | 5 | 22.460 | 6.81e+00 | 35.618 | 86.10 | 3.95 |
| Zinc | ug/l | 5 | 5.920 | 4.00e+00 | 4.833 | 14.30 | 2.70 |

In-Situ Measurements: 13-GUNK-37.7

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 6 | 1668.750 | 976.500 | 2323.719 | 6314.00 | 206.50 |
| Dissolved Oxygen | mg/L | 6 | 8.288 | 8.915 | 1.579 | 9.80 | 6.20 |
| Percent Saturation (DO) | % | 6 | 96.917 | 99.100 | 14.656 | 111.70 | 80.00 |
| pH | std units | 6 | 7.352 | 7.460 | 0.439 | 7.77 | 6.56 |
| pH | std units | 6 | 7.352 | 7.460 | 0.439 | 7.77 | 6.56 |
| Salinity | ppt | 6 | 0.875 | 0.480 | 1.278 | 3.44 | 0.10 |
| Temperature | deg C | 6 | 22.750 | 23.650 | 4.075 | 27.10 | 16.60 |

Water Quality Standard Exceedances: 13-GUNK-37.7

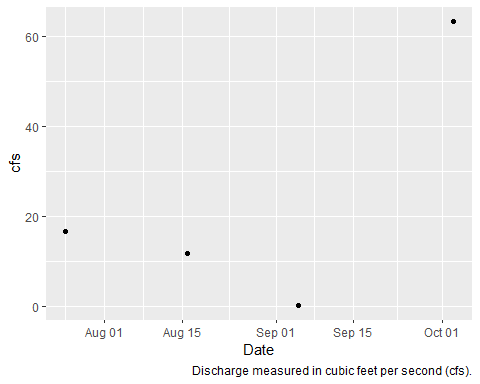
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 700 |

Numeric Nutrient Criteria: 13-GUNK-37.7

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 5 | 0.246 | 5 | 0.07 | 0.82 | 0.1 | Aquatic Chronic |

Biological Assessment Score Summary: 13-GUNK-37.7

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 2.44 | 0.47 | 4 |



### 13-GUNK\_T35-0.2 | Waterbody Class: B | PWL\_ID: 1306-0047

Chemistry Measurements: 13-GUNK\_T35-0.2

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 5 | 60.960 | 56.80 | 28.614 | 98.80 | 34.00 |
| Aluminum | ug/l | 5 | 490.800 | 263.00 | 652.975 | 1640.00 | 85.70 |
| Arsenic | ug/l | 5 | 1.100 | 0.85 | 0.680 | 2.30 | 0.62 |
| Cadmium | ug/l | 5 | 0.320 | 0.32 | 0.339 | NA | NA |
| Calcium | ug/l | 5 | 23660.000 | 19900.00 | 11370.268 | 40000.00 | 11300.00 |
| Chloride | mg/l | 5 | 51.680 | 34.90 | 36.447 | 111.00 | 18.20 |
| Chlorophyll A | ug/l | 5 | 40.636 | 3.13 | 85.752 | 194.00 | 0.45 |
| Copper | ug/l | 5 | 3.160 | 2.40 | 1.674 | 5.90 | 1.90 |
| Hardness (As Caco3) | mg/l | 5 | 77.000 | 64.50 | 36.725 | 130.00 | 37.40 |
| Iron | ug/l | 5 | 1130.800 | 606.00 | 1287.770 | 3430.00 | 454.00 |
| Lead | ug/l | 5 | 1.286 | 0.73 | 1.494 | 3.90 | 0.32 |
| Magnesium | ug/l | 5 | 4348.000 | 3580.00 | 2030.374 | 7330.00 | 2250.00 |
| Nickel | ug/l | 5 | 1.768 | 1.30 | 1.312 | 4.10 | 0.94 |
| Nitrate+Nitrite | mg/l | 5 | 0.232 | 0.23 | 0.029 | 0.28 | 0.21 |
| Nitrogen | mg/l | 5 | 0.910 | 0.80 | 0.195 | 1.20 | 0.74 |
| Ammonia | mg/l | 5 | 0.048 | 0.03 | 0.052 | 0.14 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.678 | 0.58 | 0.196 | 0.97 | 0.52 |
| Nitrate | mg/l | 5 | 0.230 | 0.22 | 0.029 | 0.28 | 0.21 |
| Nitrite | mg/l | 5 | 0.010 | 0.01 | NA | NA | NA |
| Total Phosphorus | mg/l | 5 | 0.106 | 0.09 | 0.049 | 0.19 | 0.06 |
| Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 186.400 | 150.00 | 84.465 | 319.00 | 103.00 |
| Turbidity | ntu | 5 | 19.000 | 5.20 | 31.304 | 74.90 | 3.08 |
| Zinc | ug/l | 5 | 8.040 | 4.50 | 8.290 | 22.40 | 2.50 |

In-Situ Measurements: 13-GUNK\_T35-0.2

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 6 | 550.732 | 614.00 | 210.762 | 790.00 | 284.39 |
| Dissolved Oxygen | mg/L | 6 | 8.977 | 7.19 | 3.084 | 13.10 | 6.78 |
| Percent Saturation (DO) | % | 6 | 107.583 | 84.50 | 42.342 | 163.00 | 74.50 |
| pH | std units | 6 | 7.800 | 7.85 | 0.408 | 8.30 | 7.30 |
| pH | std units | 6 | 7.800 | 7.85 | 0.408 | 8.30 | 7.30 |
| Salinity | ppt | 5 | 0.242 | 0.29 | 0.095 | 0.34 | 0.14 |
| Temperature | deg C | 6 | 23.600 | 24.80 | 3.706 | 26.80 | 17.30 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-GUNK\_T35-0.2

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 5 | 0.106 | 5 | 0.06 | 0.19 | 0.09 | Aquatic Chronic |

Biological Assessment Score Summary: 13-GUNK\_T35-0.2

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 4.68 | 1.02 | 4 |

### 13-MASO-2.8 | Waterbody Class: B | PWL\_ID: 1306-0072

Chemistry Measurements: 13-MASO-2.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.231 | 0.228 | 0.124 | 0.381 | 0.088 |
| Nitrogen | mg/l | 4 | 0.950 | 0.940 | 0.110 | 1.090 | 0.830 |
| Ammonia | mg/l | 4 | 0.021 | 0.016 | 0.015 | 0.043 | 0.009 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.723 | 0.695 | 0.142 | 0.910 | 0.590 |
| Nitrate | mg/l | 4 | 0.231 | 0.228 | 0.124 | 0.381 | 0.089 |
| Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.098 | 0.068 | 0.074 | 0.208 | 0.050 |
| Turbidity | ntu | 4 | 4.570 | 2.415 | 4.836 | 11.800 | 1.650 |

In-Situ Measurements: 13-MASO-2.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 1 | 605.00 | 605.00 | NA | 605.00 | 605.00 |
| Dissolved Oxygen | mg/L | 1 | 7.50 | 7.50 | NA | 7.50 | 7.50 |
| pH | std units | 1 | 7.36 | 7.36 | NA | 7.36 | 7.36 |
| pH | std units | 1 | 7.36 | 7.36 | NA | 7.36 | 7.36 |
| Temperature | deg C | 1 | 18.30 | 18.30 | NA | 18.30 | 18.30 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-MASO-2.8

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.098 | 0 | 0.05 | 0.208 | 0.068 | Aquatic Chronic |

### 13-MASO-0.2 | Waterbody Class: B | PWL\_ID: 1306-0072

Chemistry Measurements: 13-MASO-0.2

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 5 | 110.880 | 116.00 | 38.645 | 149.00 | 59.20 |
| Aluminum | ug/l | 5 | 350.400 | 163.00 | 365.552 | 983.00 | 116.00 |
| Arsenic | ug/l | 5 | 1.462 | 1.50 | 0.425 | 2.00 | 0.91 |
| Cadmium | ug/l | 5 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 5 | 55320.000 | 47400.00 | 19394.252 | 80300.00 | 32600.00 |
| Chloride | mg/l | 5 | 140.480 | 116.00 | 84.155 | 269.00 | 56.70 |
| Chlorophyll A | ug/l | 5 | 20.920 | 17.30 | 21.801 | 55.60 | 1.84 |
| Copper | ug/l | 5 | 3.280 | 3.30 | 0.991 | 4.70 | 2.30 |
| Hardness (As Caco3) | mg/l | 5 | 169.600 | 141.00 | 61.893 | 251.00 | 102.00 |
| Iron | ug/l | 5 | 1053.200 | 826.00 | 687.932 | 2120.00 | 453.00 |
| Lead | ug/l | 5 | 1.372 | 0.86 | 1.258 | 3.50 | 0.50 |
| Magnesium | ug/l | 5 | 7610.000 | 6130.00 | 3456.682 | 12300.00 | 4510.00 |
| Nickel | ug/l | 5 | 1.980 | 2.00 | 0.482 | 2.60 | 1.30 |
| Nitrate+Nitrite | mg/l | 5 | 0.226 | 0.20 | 0.110 | 0.40 | 0.11 |
| Nitrogen | mg/l | 5 | 0.936 | 0.93 | 0.214 | 1.22 | 0.72 |
| Ammonia | mg/l | 5 | 0.014 | 0.01 | 0.005 | 0.02 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.708 | 0.67 | 0.229 | 1.10 | 0.54 |
| Nitrate | mg/l | 5 | 0.226 | 0.20 | 0.110 | 0.40 | 0.11 |
| Nitrite | mg/l | 5 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 5 | 0.066 | 0.07 | 0.005 | 0.07 | 0.06 |
| Silver | ug/l | 5 | 0.110 | 0.11 | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 391.600 | 324.00 | 159.890 | 621.00 | 225.00 |
| Turbidity | ntu | 5 | 13.806 | 8.22 | 16.024 | 41.60 | 2.08 |
| Zinc | ug/l | 5 | 9.920 | 8.50 | 7.737 | 22.80 | 3.20 |

In-Situ Measurements: 13-MASO-0.2

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 6 | 748.365 | 577.145 | 457.313 | 1605.00 | 411.60 |
| Dissolved Oxygen | mg/L | 6 | 7.958 | 8.200 | 2.033 | 10.10 | 4.95 |
| Percent Saturation (DO) | % | 6 | 85.983 | 92.900 | 18.976 | 105.00 | 58.10 |
| pH | std units | 6 | 7.318 | 7.395 | 0.531 | 7.97 | 6.60 |
| pH | std units | 6 | 7.318 | 7.395 | 0.531 | 7.97 | 6.60 |
| Salinity | ppt | 6 | 0.370 | 0.280 | 0.234 | 0.81 | 0.20 |
| Temperature | deg C | 6 | 18.717 | 17.600 | 3.701 | 24.00 | 14.60 |

Water Quality Standard Exceedances: 13-MASO-0.2

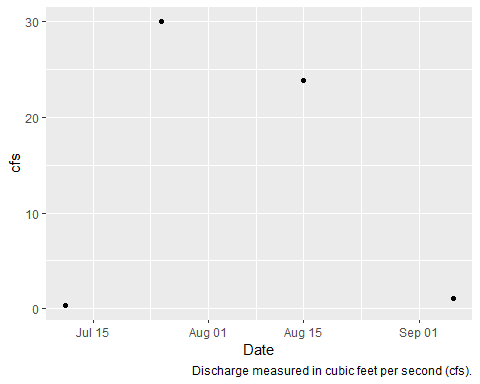
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 4.95 |
| 2018 | Total Dissolved Solids | mg/l | <=500 | 621.00 |

Numeric Nutrient Criteria: 13-MASO-0.2

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 5 | 0.066 | 0 | 0.06 | 0.07 | 0.07 | Aquatic Chronic |

Biological Assessment Score Summary: 13-MASO-0.2

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 5.6 | 0.83 | 4 |



### 13-WALK-44.4 | Waterbody Class: B | PWL\_ID: 1306-0038

Chemistry Measurements: 13-WALK-44.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 114.120 | 113.500 | 37.499 | 166.00 | 65.20 |
| Aluminum | ug/l | 10 | 583.900 | 349.000 | 564.773 | 1660.00 | 104.00 |
| Arsenic | ug/l | 10 | 1.880 | 1.750 | 0.494 | 2.80 | 1.30 |
| Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 10 | 43250.000 | 39950.000 | 13098.028 | 64200.00 | 28300.00 |
| Chloride | mg/l | 10 | 71.520 | 67.800 | 29.029 | 110.00 | 33.60 |
| Chlorophyll A | ug/l | 10 | 5.621 | 2.995 | 6.571 | 22.00 | 1.28 |
| Copper | ug/l | 10 | 4.820 | 4.550 | 1.275 | 6.90 | 2.70 |
| Hardness (As Caco3) | mg/l | 10 | 160.800 | 153.500 | 51.281 | 241.00 | 101.00 |
| Iron | ug/l | 10 | 1323.500 | 1012.500 | 1132.113 | 3040.00 | 208.00 |
| Lead | ug/l | 10 | 1.721 | 1.500 | 1.003 | NA | NA |
| Magnesium | ug/l | 9 | 12398.889 | 12900.000 | 4705.487 | 19500.00 | 7240.00 |
| Nickel | ug/l | 10 | 2.420 | 2.150 | 0.962 | 4.10 | 1.20 |
| Nitrate+Nitrite | mg/l | 10 | 1.716 | 1.350 | 1.216 | 4.76 | 0.60 |
| Nitrogen | mg/l | 10 | 2.522 | 2.450 | 1.163 | 5.48 | 1.34 |
| Ammonia | mg/l | 10 | 0.053 | 0.040 | 0.032 | NA | NA |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.868 | 0.760 | 0.322 | 1.60 | 0.56 |
| Nitrate | mg/l | 10 | 1.701 | 1.330 | 1.214 | 4.74 | 0.59 |
| Nitrite | mg/l | 10 | 0.018 | 0.020 | 0.007 | NA | NA |
| Total Phosphorus | mg/l | 10 | 0.246 | 0.235 | 0.088 | 0.45 | 0.14 |
| Silver | ug/l | 10 | 0.160 | 0.160 | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 282.200 | 247.000 | 84.236 | 404.00 | 195.00 |
| Turbidity | ntu | 10 | 24.687 | 11.250 | 21.085 | 63.30 | 8.22 |
| Zinc | ug/l | 10 | 12.850 | 11.200 | 8.649 | 26.00 | 3.90 |

In-Situ Measurements: 13-WALK-44.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 4 | 0.870 | 0.840 | 0.512 | 1.51 | 0.29 |
| Chlorophyll A (Probe-ug/l) | ug/L | 4 | 3.520 | 3.360 | 2.056 | 6.10 | 1.26 |
| Conductance | uS/cm | 11 | 532.609 | 469.400 | 195.929 | 948.00 | 241.20 |
| Dissolved Oxygen | mg/L | 11 | 7.085 | 7.130 | 1.331 | 9.95 | 4.70 |
| Phycocyanin (Probe- RFU) | RFU | 4 | -0.005 | -0.015 | 0.066 | 0.08 | -0.07 |
| Phycocyanin (Probe- ug/l) | ug/L | 4 | 0.027 | 0.000 | 0.084 | 0.15 | -0.04 |
| Percent Saturation (DO) | % | 11 | 78.973 | 80.200 | 10.870 | 97.80 | 58.00 |
| pH | std units | 11 | 7.515 | 7.520 | 0.239 | 8.02 | 7.22 |
| pH | std units | 11 | 7.515 | 7.520 | 0.239 | 8.02 | 7.22 |
| Salinity | ppt | 10 | 0.262 | 0.245 | 0.103 | 0.47 | 0.11 |
| Temperature | deg C | 11 | 21.045 | 22.100 | 3.297 | 25.70 | 14.50 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-WALK-44.4

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.246 | 5 | 0.14 | 0.45 | 0.235 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-44.4

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 9/6/2018 | 3.53 | 0.2 | 4 |

### 13-WALK-35.6 | Waterbody Class: B | PWL\_ID: 1306-0038

Chemistry Measurements: 13-WALK-35.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 126.820 | 142.000 | 31.409 | 158.00 | 79.20 |
| Aluminum | ug/l | 10 | 498.300 | 244.000 | 503.857 | 1530.00 | 90.00 |
| Arsenic | ug/l | 10 | 1.481 | 1.550 | 0.654 | 2.20 | 0.43 |
| Cadmium | ug/l | 10 | 0.590 | 0.590 | NA | NA | NA |
| Calcium | ug/l | 5 | 42520.000 | 36200.000 | 10955.455 | 55700.00 | 32700.00 |
| Chloride | mg/l | 10 | 81.930 | 81.550 | 26.275 | 115.00 | 42.70 |
| Chlorophyll A | ug/l | 10 | 6.706 | 2.560 | 9.922 | 32.90 | 1.68 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 679.000 | 706.000 | 83.732 | 762.00 | 540.00 |
| Copper | ug/l | 10 | 4.360 | 4.100 | 1.345 | 6.30 | 2.70 |
| Hardness (As Caco3) | mg/l | 10 | 179.900 | 199.500 | 41.996 | 230.00 | 117.00 |
| Iron | ug/l | 10 | 1035.400 | 606.500 | 963.220 | 2830.00 | 140.00 |
| Lead | ug/l | 10 | 1.362 | 0.825 | 1.091 | 3.50 | 0.46 |
| Magnesium | ug/l | 10 | 13577.000 | 15200.000 | 3419.662 | 17200.00 | 8560.00 |
| Nickel | ug/l | 10 | 2.800 | 2.650 | 0.657 | 3.70 | 1.80 |
| Nitrate+Nitrite | mg/l | 10 | 1.100 | 1.295 | 0.492 | 1.59 | 0.21 |
| Nitrogen | mg/l | 5 | 2.216 | 2.440 | 0.488 | 2.77 | 1.62 |
| Ammonia | mg/l | 10 | 0.041 | 0.045 | 0.017 | 0.06 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 1.078 | 0.940 | 0.271 | 1.55 | 0.90 |
| Nitrate | mg/l | 10 | 1.087 | 1.275 | 0.489 | 1.59 | 0.21 |
| Nitrite | mg/l | 10 | 0.019 | 0.020 | 0.004 | NA | NA |
| pH | pH units | 5 | 7.866 | 7.920 | 0.138 | 8.02 | 7.71 |
| pH | pH units | 5 | 7.866 | 7.920 | 0.138 | 8.02 | 7.71 |
| Total Phosphorus | mg/l | 10 | 0.213 | 0.205 | 0.044 | 0.32 | 0.16 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 326.900 | 340.500 | 70.510 | 418.00 | 226.00 |
| Turbidity | ntu | 10 | 14.801 | 9.065 | 14.838 | 47.30 | 3.33 |
| Zinc | ug/l | 10 | 11.170 | 8.200 | 5.894 | 21.40 | 5.50 |

In-Situ Measurements: 13-WALK-35.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 9 | 520.789 | 575.00 | 113.770 | 663.00 | 294.10 |
| Dissolved Oxygen | mg/L | 9 | 7.707 | 7.60 | 0.872 | 9.65 | 6.70 |
| Percent Saturation (DO) | % | 7 | 87.143 | 87.00 | 8.688 | 100.00 | 76.00 |
| pH | std units | 9 | 7.652 | 7.60 | 0.257 | 8.20 | 7.32 |
| pH | std units | 9 | 7.652 | 7.60 | 0.257 | 8.20 | 7.32 |
| Salinity | ppt | 6 | 0.242 | 0.25 | 0.065 | 0.32 | 0.14 |
| Temperature | deg C | 9 | 22.822 | 24.30 | 3.442 | 26.00 | 16.90 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-WALK-35.6

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.213 | 0 | 0.16 | 0.32 | 0.205 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-35.6

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/3/2017 | 5.29 | 0.46 | 4 |

### 13-WALK-29.9 | Waterbody Class: B | PWL\_ID: 1306-0038

Chemistry Measurements: 13-WALK-29.9

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 124.040 | 128.000 | 21.833 | 156.00 | 88.80 |
| Aluminum | ug/l | 10 | 361.010 | 234.000 | 295.137 | 1010.00 | 95.10 |
| Arsenic | ug/l | 10 | 1.323 | 1.200 | 0.770 | 2.70 | 0.41 |
| Cadmium | ug/l | 10 | 0.590 | 0.590 | NA | NA | NA |
| Calcium | ug/l | 5 | 44920.000 | 45500.000 | 6776.577 | 52600.00 | 34700.00 |
| Chloride | mg/l | 10 | 83.500 | 88.800 | 20.795 | 108.00 | 48.50 |
| Chlorophyll A | ug/l | 10 | 18.961 | 5.150 | 40.338 | 132.00 | 0.69 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 632.400 | 648.000 | 58.037 | 678.00 | 531.00 |
| Copper | ug/l | 10 | 3.980 | 3.700 | 1.416 | 7.40 | 2.50 |
| Hardness (As Caco3) | mg/l | 10 | 175.700 | 179.500 | 27.475 | 214.00 | 126.00 |
| Iron | ug/l | 10 | 762.200 | 513.500 | 720.467 | 2540.00 | 116.00 |
| Lead | ug/l | 10 | 1.065 | 0.715 | 0.812 | 3.10 | 0.48 |
| Magnesium | ug/l | 10 | 13148.000 | 13100.000 | 2605.148 | 17800.00 | 9490.00 |
| Nickel | ug/l | 10 | 2.380 | 2.200 | 0.786 | 4.00 | 1.60 |
| Nitrate+Nitrite | mg/l | 10 | 1.205 | 1.205 | 0.586 | 2.53 | 0.31 |
| Nitrogen | mg/l | 5 | 2.380 | 2.090 | 0.965 | 4.08 | 1.78 |
| Ammonia | mg/l | 10 | 0.034 | 0.035 | 0.014 | 0.06 | 0.02 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 1.122 | 0.890 | 0.371 | 1.55 | 0.78 |
| Nitrate | mg/l | 10 | 1.196 | 1.195 | 0.586 | 2.51 | 0.29 |
| Nitrite | mg/l | 10 | 0.015 | 0.015 | 0.005 | NA | NA |
| pH | pH units | 5 | 7.942 | 7.960 | 0.149 | 8.11 | 7.78 |
| pH | pH units | 5 | 7.942 | 7.960 | 0.149 | 8.11 | 7.78 |
| Total Phosphorus | mg/l | 10 | 0.192 | 0.175 | 0.070 | 0.34 | 0.11 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 325.000 | 335.500 | 51.108 | 406.00 | 231.00 |
| Turbidity | ntu | 10 | 9.485 | 7.370 | 5.605 | 22.10 | 3.34 |
| Zinc | ug/l | 10 | 8.340 | 5.800 | 6.300 | 24.70 | 3.60 |

In-Situ Measurements: 13-WALK-29.9

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 7 | 451.671 | 423.50 | 106.438 | 627.00 | 350.20 |
| Dissolved Oxygen | mg/L | 7 | 7.034 | 6.74 | 0.708 | 8.20 | 6.40 |
| Percent Saturation (DO) | % | 7 | 82.143 | 79.00 | 10.574 | 100.00 | 68.00 |
| pH | std units | 7 | 7.589 | 7.60 | 0.143 | 7.74 | 7.39 |
| pH | std units | 7 | 7.589 | 7.60 | 0.143 | 7.74 | 7.39 |
| Salinity | ppt | 7 | 0.216 | 0.20 | 0.051 | 0.30 | 0.17 |
| Temperature | deg C | 7 | 22.486 | 23.30 | 2.561 | 25.40 | 17.50 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-WALK-29.9

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.192 | 5 | 0.11 | 0.34 | 0.175 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-29.9

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 4.84 | 0.57 | 4 |
| 8/3/2017 | 5.69 | 0.38 | 4 |

### 13-TINW-0.5 | Waterbody Class: A | PWL\_ID: 1306-0068

Chemistry Measurements: 13-TINW-0.5

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 97.160 | 95.700 | 24.920 | 131.00 | 66.40 |
| Aluminum | ug/l | 10 | 227.920 | 140.000 | 221.647 | 685.00 | 27.20 |
| Arsenic | ug/l | 10 | 1.071 | 1.150 | 0.280 | 1.50 | 0.68 |
| Cadmium | ug/l | 10 | 0.560 | 0.560 | NA | NA | NA |
| Calcium | ug/l | 10 | 40940.000 | 39550.000 | 10103.707 | 54500.00 | 26000.00 |
| Chloride | mg/l | 10 | 65.460 | 61.450 | 21.492 | 102.00 | 37.10 |
| Chlorophyll A | ug/l | 10 | 3.074 | 2.085 | 2.956 | 9.57 | 0.50 |
| Copper | ug/l | 10 | 3.250 | 2.800 | 1.768 | 7.40 | 1.70 |
| Hardness (As Caco3) | mg/l | 10 | 127.320 | 122.500 | 31.080 | 170.00 | 81.20 |
| Iron | ug/l | 10 | 737.180 | 522.500 | 590.832 | 1590.00 | 83.80 |
| Lead | ug/l | 10 | 1.664 | 1.400 | 0.992 | NA | NA |
| Magnesium | ug/l | 9 | 5983.333 | 5360.000 | 1455.644 | 8210.00 | 3990.00 |
| Nickel | ug/l | 10 | 1.308 | 1.245 | 0.410 | 1.90 | 0.81 |
| Nitrate+Nitrite | mg/l | 10 | 0.333 | 0.350 | 0.176 | 0.56 | 0.03 |
| Nitrogen | mg/l | 10 | 0.877 | 0.945 | 0.230 | 1.18 | 0.44 |
| Ammonia | mg/l | 10 | 0.019 | 0.020 | 0.007 | NA | NA |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.576 | 0.615 | 0.174 | 0.80 | 0.22 |
| Nitrate | mg/l | 10 | 0.333 | 0.350 | 0.176 | 0.56 | 0.03 |
| Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 10 | 0.095 | 0.100 | 0.033 | 0.14 | 0.05 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 231.600 | 219.000 | 53.125 | 302.00 | 168.00 |
| Turbidity | ntu | 10 | 8.066 | 4.925 | 8.897 | 30.10 | 0.91 |
| Zinc | ug/l | 10 | 5.875 | 5.850 | 2.717 | NA | NA |

In-Situ Measurements: 13-TINW-0.5

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 5 | 0.506 | 0.580 | 0.190 | 0.64 | 0.18 |
| Chlorophyll A (Probe-ug/l) | ug/L | 5 | 2.006 | 2.310 | 0.763 | 2.48 | 0.65 |
| Conductance | uS/cm | 12 | 282.433 | 320.500 | 207.765 | 545.00 | 32.60 |
| Dissolved Oxygen | mg/L | 12 | 10.312 | 10.515 | 1.771 | 12.60 | 7.72 |
| Phycocyanin (Probe- RFU) | RFU | 5 | 0.038 | 0.050 | 0.045 | 0.08 | -0.04 |
| Phycocyanin (Probe- ug/l) | ug/L | 5 | 0.046 | 0.050 | 0.023 | 0.08 | 0.02 |
| Percent Saturation (DO) | % | 12 | 97.742 | 95.200 | 8.547 | 111.00 | 86.60 |
| pH | std units | 12 | 8.160 | 8.140 | 0.385 | 8.90 | 7.69 |
| pH | std units | 12 | 8.160 | 8.140 | 0.385 | 8.90 | 7.69 |
| Salinity | ppt | 12 | 0.136 | 0.155 | 0.102 | 0.27 | 0.01 |
| Temperature | deg C | 12 | 13.267 | 15.750 | 8.772 | 24.00 | 2.70 |

Water Quality Standard Exceedances: 13-TINW-0.5

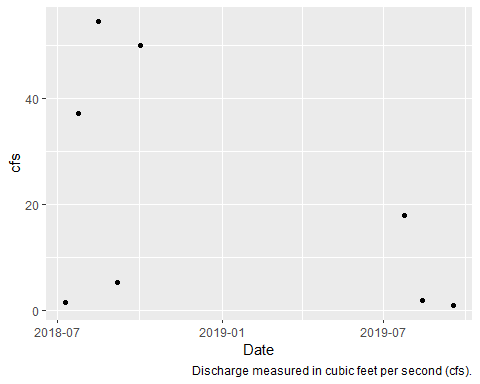
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Iron | ug/l | <=300 | 444.00 |
| 2018 | Iron | ug/l | <=300 | 1270.00 |
| 2018 | Iron | ug/l | <=300 | 557.00 |
| 2018 | Iron | ug/l | <=300 | 1590.00 |
| 2018 | Iron | ug/l | <=300 | 488.00 |
| 2018 | pH | ph\_units | <=8.5 | 8.72 |
| 2018 | pH | ph\_units | <=8.5 | 8.90 |
| 2019 | Iron | ug/l | <=300 | 1560.00 |
| 2019 | Iron | ug/l | <=300 | 1100.00 |

Numeric Nutrient Criteria: 13-TINW-0.5

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.095 | 5 | 0.05 | 0.14 | 0.1 | Aquatic Chronic |
| Total Phosphorus | 10 | 0.095 | 10 | 0.05 | 0.14 | 0.1 | Health-Water Supply |

Biological Assessment Score Summary: 13-TINW-0.5

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 3.36 | 0.98 | 4 |
| 8/8/2019 | 6.85 | 0.35 | 4 |



### 13-WALK-26.9 | Waterbody Class: B | PWL\_ID: 1306-0038

Chemistry Measurements: 13-WALK-26.9

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 118.960 | 121.500 | 27.917 | 162.00 | 78.00 |
| Aluminum | ug/l | 10 | 220.200 | 200.000 | 121.063 | 432.00 | 101.00 |
| Arsenic | ug/l | 10 | 1.196 | 1.200 | 0.520 | 2.30 | 0.55 |
| Cadmium | ug/l | 10 | 0.520 | 0.520 | NA | NA | NA |
| Calcium | ug/l | 5 | 41640.000 | 41300.000 | 11537.894 | 56200.00 | 28200.00 |
| Chloride | mg/l | 10 | 78.870 | 77.600 | 24.757 | 111.00 | 40.40 |
| Chlorophyll A | ug/l | 10 | 11.018 | 5.055 | 13.527 | 45.00 | 0.70 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 617.200 | 628.000 | 69.798 | 689.00 | 527.00 |
| Copper | ug/l | 10 | 3.860 | 3.500 | 1.023 | 6.00 | 2.60 |
| Hardness (As Caco3) | mg/l | 10 | 163.380 | 168.500 | 41.629 | 211.00 | 92.80 |
| Iron | ug/l | 10 | 581.300 | 489.000 | 392.120 | 1360.00 | 168.00 |
| Lead | ug/l | 10 | 1.030 | 0.750 | 0.588 | NA | NA |
| Magnesium | ug/l | 10 | 11194.000 | 12250.000 | 3713.819 | 16600.00 | 5420.00 |
| Nickel | ug/l | 10 | 2.080 | 2.000 | 0.632 | 3.40 | 1.20 |
| Nitrate+Nitrite | mg/l | 10 | 0.926 | 0.870 | 0.381 | 1.48 | 0.41 |
| Nitrogen | mg/l | 5 | 1.572 | 1.480 | 0.396 | 2.16 | 1.10 |
| Ammonia | mg/l | 10 | 0.033 | 0.030 | 0.018 | 0.06 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.814 | 0.750 | 0.198 | 1.12 | 0.62 |
| Nitrate | mg/l | 10 | 0.915 | 0.855 | 0.377 | 1.47 | 0.41 |
| Nitrite | mg/l | 10 | 0.016 | 0.020 | 0.005 | NA | NA |
| pH | pH units | 5 | 7.994 | 7.970 | 0.155 | 8.24 | 7.83 |
| pH | pH units | 5 | 7.994 | 7.970 | 0.155 | 8.24 | 7.83 |
| Total Phosphorus | mg/l | 10 | 0.168 | 0.170 | 0.031 | 0.20 | 0.09 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 308.900 | 314.000 | 69.853 | 410.00 | 194.00 |
| Turbidity | ntu | 10 | 7.437 | 7.630 | 4.351 | 17.70 | 2.10 |
| Zinc | ug/l | 10 | 6.680 | 5.750 | 2.561 | 11.30 | 4.40 |

In-Situ Measurements: 13-WALK-26.9

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 7 | 578.414 | 668.00 | 199.390 | 822.00 | 330.00 |
| Dissolved Oxygen | mg/L | 7 | 10.457 | 8.90 | 4.268 | 19.00 | 6.40 |
| Percent Saturation (DO) | % | 7 | 126.286 | 101.00 | 62.551 | 251.00 | 77.00 |
| pH | std units | 7 | 8.247 | 8.33 | 0.452 | 9.09 | 7.77 |
| pH | std units | 7 | 8.247 | 8.33 | 0.452 | 9.09 | 7.77 |
| Salinity | ppt | 6 | 0.272 | 0.26 | 0.103 | 0.40 | 0.16 |
| Temperature | deg C | 7 | 23.314 | 21.70 | 4.921 | 30.60 | 15.60 |

Water Quality Standard Exceedances: 13-WALK-26.9

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | pH | ph\_units | <=8.5 | 9.09 |

Numeric Nutrient Criteria: 13-WALK-26.9

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.168 | 0 | 0.09 | 0.2 | 0.17 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-26.9

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 5.36 | 1.05 | 4 |
| 8/3/2017 | 5.06 | 0.26 | 4 |

### 13-TINW\_T3-2.1 | Waterbody Class: B | PWL\_ID: 1306-0068

Chemistry Measurements: 13-TINW\_T3-2.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.019 | 0.018 | 0.013 | 0.034 | 0.007 |
| Nitrogen | mg/l | 4 | 0.975 | 0.975 | 0.333 | 1.380 | 0.570 |
| Ammonia | mg/l | 4 | 0.040 | 0.043 | 0.026 | 0.068 | 0.006 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.955 | 0.955 | 0.324 | 1.350 | 0.560 |
| Nitrate | mg/l | 4 | 0.023 | 0.027 | 0.012 | NA | NA |
| Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.338 | 0.250 | 0.331 | 0.810 | 0.042 |
| Turbidity | ntu | 4 | 13.292 | 13.525 | 12.089 | 25.400 | 0.720 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-TINW\_T3-2.1

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.338 | 0 | 0.042 | 0.81 | 0.25 | Aquatic Chronic |

### 13-TINW-4.5 | Waterbody Class: A | PWL\_ID: 1306-0069

Chemistry Measurements: 13-TINW-4.5

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.523 | 0.488 | 0.371 | 0.922 | 0.194 |
| Nitrogen | mg/l | 4 | 1.112 | 1.115 | 0.313 | 1.420 | 0.800 |
| Ammonia | mg/l | 4 | 0.026 | 0.029 | 0.009 | 0.032 | 0.013 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.587 | 0.580 | 0.086 | 0.700 | 0.490 |
| Nitrate | mg/l | 4 | 0.519 | 0.488 | 0.366 | 0.909 | 0.194 |
| Nitrite | mg/l | 4 | 0.013 | 0.013 | NA | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.108 | 0.099 | 0.043 | 0.167 | 0.068 |
| Turbidity | ntu | 4 | 2.580 | 2.605 | 1.111 | 3.830 | 1.280 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-TINW-4.5

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.108 | 0 | 0.068 | 0.167 | 0.099 | Aquatic Chronic |
| Total Phosphorus | 4 | 0.108 | 0 | 0.068 | 0.167 | 0.099 | Health-Water Supply |

### 13-DWAR-2.0 | Waterbody Class: C | PWL\_ID: 1306-0062

Chemistry Measurements: 13-DWAR-2.0

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 99.060 | 96.800 | 26.876 | 135.00 | 66.40 |
| Aluminum | ug/l | 10 | 428.400 | 393.500 | 283.143 | 1100.00 | 152.00 |
| Arsenic | ug/l | 10 | 1.413 | 1.400 | 0.422 | 2.10 | 0.74 |
| Cadmium | ug/l | 10 | 0.580 | 0.580 | NA | NA | NA |
| Calcium | ug/l | 10 | 39130.000 | 35850.000 | 11251.869 | 56100.00 | 25400.00 |
| Chloride | mg/l | 10 | 50.180 | 44.450 | 20.639 | 90.40 | 29.90 |
| Chlorophyll A | ug/l | 10 | 5.655 | 5.200 | 4.713 | 13.90 | 0.92 |
| Copper | ug/l | 10 | 2.310 | 1.850 | 1.227 | 5.10 | 1.10 |
| Hardness (As Caco3) | mg/l | 10 | 127.210 | 116.500 | 36.814 | 185.00 | 82.40 |
| Iron | ug/l | 10 | 956.300 | 897.500 | 531.595 | 2040.00 | 346.00 |
| Lead | ug/l | 10 | 1.200 | 1.200 | 0.475 | NA | NA |
| Magnesium | ug/l | 9 | 7375.556 | 7000.000 | 2111.481 | 10800.00 | 4630.00 |
| Nickel | ug/l | 10 | 1.681 | 1.550 | 0.575 | 3.00 | 0.91 |
| Nitrate+Nitrite | mg/l | 10 | 0.246 | 0.270 | 0.093 | 0.36 | 0.03 |
| Nitrogen | mg/l | 10 | 0.828 | 0.915 | 0.295 | 1.21 | 0.28 |
| Ammonia | mg/l | 10 | 0.034 | 0.030 | 0.017 | NA | NA |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.651 | 0.665 | 0.160 | 0.91 | 0.35 |
| Nitrate | mg/l | 10 | 0.245 | 0.270 | 0.092 | 0.35 | 0.03 |
| Nitrite | mg/l | 10 | 0.010 | 0.010 | NA | NA | NA |
| Total Phosphorus | mg/l | 10 | 0.097 | 0.100 | 0.025 | 0.13 | 0.06 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 205.800 | 190.000 | 49.007 | 281.00 | 164.00 |
| Turbidity | ntu | 10 | 15.214 | 11.910 | 10.671 | 32.50 | 3.26 |
| Zinc | ug/l | 10 | 5.000 | 3.900 | 2.559 | NA | NA |

In-Situ Measurements: 13-DWAR-2.0

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 4 | 1.072 | 0.655 | 0.935 | 2.47 | 0.51 |
| Chlorophyll A (Probe-ug/l) | ug/L | 4 | 4.355 | 2.865 | 3.623 | 9.75 | 1.94 |
| Conductance | uS/cm | 12 | 566.092 | 464.000 | 364.486 | 1450.00 | 275.20 |
| Dissolved Oxygen | mg/L | 12 | 7.613 | 7.780 | 1.157 | 9.40 | 5.30 |
| Phycocyanin (Probe- RFU) | RFU | 4 | 0.038 | 0.035 | 0.033 | 0.08 | 0.00 |
| Phycocyanin (Probe- ug/l) | ug/L | 4 | 0.052 | 0.040 | 0.040 | 0.11 | 0.02 |
| Percent Saturation (DO) | % | 11 | 85.536 | 90.000 | 14.222 | 111.00 | 64.00 |
| pH | std units | 12 | 7.529 | 7.580 | 0.469 | 8.32 | 6.57 |
| pH | std units | 12 | 7.529 | 7.580 | 0.469 | 8.32 | 6.57 |
| Salinity | ppt | 11 | 0.282 | 0.240 | 0.190 | 0.72 | 0.13 |
| Temperature | deg C | 12 | 21.692 | 21.850 | 4.030 | 29.40 | 11.80 |

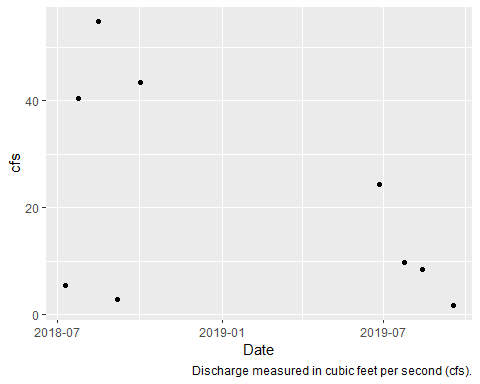
There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-DWAR-2.0

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.097 | 0 | 0.06 | 0.13 | 0.1 | Aquatic Chronic |

Biological Assessment Score Summary: 13-DWAR-2.0

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 6.35 | 1.08 | 4 |
| 8/9/2019 | 7.61 | 0.46 | 4 |



### 13-WALK\_T13-0.7 | Waterbody Class: A | PWL\_ID: 1306-0040

Chemistry Measurements: 13-WALK\_T13-0.7

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.291 | 0.268 | 0.114 | 0.433 | 0.193 |
| Nitrogen | mg/l | 4 | 0.922 | 0.875 | 0.178 | 1.170 | 0.770 |
| Ammonia | mg/l | 4 | 0.046 | 0.047 | 0.018 | 0.067 | 0.023 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.632 | 0.600 | 0.141 | 0.830 | 0.500 |
| Nitrate | mg/l | 4 | 0.291 | 0.268 | 0.114 | 0.433 | 0.193 |
| Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.100 | 0.092 | 0.045 | 0.159 | 0.056 |
| Turbidity | ntu | 4 | 58.225 | 60.850 | 45.428 | 99.600 | 11.600 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-WALK\_T13-0.7

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.1 | 0 | 0.056 | 0.159 | 0.092 | Aquatic Chronic |
| Total Phosphorus | 4 | 0.1 | 0 | 0.056 | 0.159 | 0.092 | Health-Water Supply |

### 13-WALK\_T15-0.1 | Waterbody Class: A | PWL\_ID: 1306-0040

Chemistry Measurements: 13-WALK\_T15-0.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.456 | 0.491 | 0.126 | 0.555 | 0.286 |
| Nitrogen | mg/l | 4 | 0.927 | 0.935 | 0.108 | 1.040 | 0.800 |
| Ammonia | mg/l | 4 | 0.025 | 0.023 | 0.010 | 0.038 | 0.013 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.478 | 0.470 | 0.034 | 0.520 | 0.450 |
| Nitrate | mg/l | 4 | 0.456 | 0.491 | 0.126 | 0.555 | 0.286 |
| Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.066 | 0.063 | 0.017 | 0.089 | 0.048 |
| Turbidity | ntu | 4 | 3.812 | 3.840 | 0.822 | 4.720 | 2.850 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-WALK\_T15-0.1

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 4 | 0.066 | 0 | 0.048 | 0.089 | 0.063 | Aquatic Chronic |
| Total Phosphorus | 4 | 0.066 | 0 | 0.048 | 0.089 | 0.063 | Health-Water Supply |

### 13-WALK-22.8 | Waterbody Class: B | PWL\_ID: 1306-0038

Chemistry Measurements: 13-WALK-22.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 126.760 | 128.500 | 21.435 | 159.00 | 89.60 |
| Aluminum | ug/l | 10 | 253.330 | 155.000 | 270.630 | 878.00 | 30.30 |
| Arsenic | ug/l | 10 | 1.396 | 1.300 | 0.671 | NA | NA |
| Cadmium | ug/l | 10 | 0.550 | 0.550 | NA | NA | NA |
| Calcium | ug/l | 5 | 47080.000 | 49500.000 | 8956.115 | 55900.00 | 33900.00 |
| Chloride | mg/l | 10 | 80.600 | 84.250 | 22.391 | 108.00 | 47.20 |
| Chlorophyll A | ug/l | 10 | 12.741 | 5.975 | 16.684 | 48.70 | 0.76 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 622.400 | 614.000 | 82.948 | 739.00 | 507.00 |
| Copper | ug/l | 10 | 3.770 | 3.400 | 1.148 | 6.30 | 2.50 |
| Hardness (As Caco3) | mg/l | 10 | 175.200 | 181.000 | 27.644 | 206.00 | 121.00 |
| Iron | ug/l | 10 | 567.970 | 340.500 | 625.978 | 2000.00 | 86.00 |
| Lead | ug/l | 10 | 1.084 | 0.710 | 0.820 | NA | NA |
| Magnesium | ug/l | 10 | 12806.000 | 13000.000 | 2319.632 | 16000.00 | 8950.00 |
| Nickel | ug/l | 10 | 2.250 | 2.150 | 0.652 | 3.50 | 1.30 |
| Nitrate+Nitrite | mg/l | 10 | 1.193 | 1.105 | 0.596 | 2.55 | 0.42 |
| Nitrogen | mg/l | 5 | 2.222 | 1.770 | 1.005 | 3.95 | 1.46 |
| Ammonia | mg/l | 10 | 0.026 | 0.025 | 0.016 | 0.06 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.996 | 0.990 | 0.276 | 1.40 | 0.63 |
| Nitrate | mg/l | 10 | 1.184 | 1.100 | 0.594 | 2.53 | 0.40 |
| Nitrite | mg/l | 10 | 0.013 | 0.010 | 0.005 | NA | NA |
| pH | pH units | 5 | 8.220 | 8.120 | 0.248 | 8.58 | 7.96 |
| pH | pH units | 5 | 8.220 | 8.120 | 0.248 | 8.58 | 7.96 |
| Total Phosphorus | mg/l | 10 | 0.181 | 0.165 | 0.055 | 0.32 | 0.13 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 319.800 | 327.500 | 48.864 | 377.00 | 227.00 |
| Turbidity | ntu | 10 | 7.303 | 6.000 | 6.147 | 23.10 | 1.19 |
| Zinc | ug/l | 10 | 6.630 | 4.700 | 4.919 | 18.60 | 3.30 |

In-Situ Measurements: 13-WALK-22.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 9 | 549.111 | 501.100 | 245.915 | 1142.00 | 295.00 |
| Dissolved Oxygen | mg/L | 9 | 9.082 | 8.700 | 1.455 | 11.50 | 7.20 |
| Percent Saturation (DO) | % | 7 | 108.900 | 102.000 | 18.017 | 134.00 | 89.00 |
| pH | std units | 9 | 8.100 | 8.070 | 0.245 | 8.50 | 7.70 |
| pH | std units | 9 | 8.100 | 8.070 | 0.245 | 8.50 | 7.70 |
| Salinity | ppt | 6 | 0.270 | 0.225 | 0.153 | 0.56 | 0.14 |
| Temperature | deg C | 9 | 22.222 | 24.000 | 3.379 | 24.70 | 15.40 |

Water Quality Standard Exceedances: 13-WALK-22.8

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | pH | ph\_units | <=8.5 | 8.58 |

Numeric Nutrient Criteria: 13-WALK-22.8

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.181 | 5 | 0.13 | 0.32 | 0.165 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-22.8

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 5.21 | 0.25 | 4 |
| 8/3/2017 | 4.89 | 0.31 | 4 |

### 13-WALK-19.0 | Waterbody Class: B | PWL\_ID: 1306-0038

Chemistry Measurements: 13-WALK-19.0

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 15 | 117.160 | 116.00 | 21.547 | 145.00 | 76.00 |
| Aluminum | ug/l | 15 | 417.100 | 122.00 | 842.318 | 3310.00 | 38.80 |
| Arsenic | ug/l | 15 | 1.473 | 1.40 | 0.656 | NA | NA |
| Cadmium | ug/l | 15 | 0.610 | 0.61 | NA | NA | NA |
| Calcium | ug/l | 10 | 43230.000 | 44250.00 | 8372.050 | 52800.00 | 27100.00 |
| Chloride | mg/l | 15 | 73.487 | 82.50 | 24.761 | 108.00 | 26.10 |
| Chlorophyll A | ug/l | 15 | 9.585 | 2.43 | 17.527 | 67.90 | 0.49 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 581.800 | 562.00 | 84.792 | 721.00 | 497.00 |
| Copper | ug/l | 15 | 3.607 | 3.10 | 1.649 | 8.40 | 2.20 |
| Hardness (As Caco3) | mg/l | 15 | 161.207 | 164.00 | 27.735 | 194.00 | 95.10 |
| Iron | ug/l | 15 | 680.547 | 171.00 | 1008.271 | 3630.00 | 73.80 |
| Lead | ug/l | 15 | 1.476 | 0.71 | 1.570 | NA | NA |
| Magnesium | ug/l | 14 | 11899.286 | 12050.00 | 2515.773 | 15100.00 | 6660.00 |
| Nickel | ug/l | 15 | 2.147 | 2.00 | 1.067 | 5.20 | 1.30 |
| Nitrate+Nitrite | mg/l | 15 | 1.111 | 0.92 | 0.582 | 2.50 | 0.40 |
| Nitrogen | mg/l | 10 | 2.019 | 1.96 | 0.945 | 3.94 | 1.05 |
| Ammonia | mg/l | 15 | 0.025 | 0.02 | 0.020 | NA | NA |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.864 | 0.70 | 0.426 | 1.50 | 0.42 |
| Nitrate | mg/l | 15 | 1.105 | 0.92 | 0.577 | 2.47 | 0.39 |
| Nitrite | mg/l | 15 | 0.014 | 0.01 | 0.005 | NA | NA |
| pH | pH units | 5 | 8.300 | 8.21 | 0.152 | 8.52 | 8.18 |
| pH | pH units | 5 | 8.300 | 8.21 | 0.152 | 8.52 | 8.18 |
| Total Phosphorus | mg/l | 15 | 0.170 | 0.14 | 0.065 | 0.32 | 0.10 |
| Silver | ug/l | 15 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 307.300 | 315.00 | 42.698 | 367.00 | 226.00 |
| Turbidity | ntu | 15 | 13.205 | 3.44 | 25.335 | 100.00 | 1.11 |
| Zinc | ug/l | 15 | 8.673 | 4.20 | 9.293 | NA | NA |

In-Situ Measurements: 13-WALK-19.0

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 4 | 0.375 | 0.365 | 0.122 | 0.50 | 0.27 |
| Chlorophyll A (Probe-ug/l) | ug/L | 4 | 1.535 | 1.520 | 0.433 | 2.00 | 1.10 |
| Conductance | uS/cm | 14 | 497.464 | 445.250 | 164.052 | 939.00 | 227.70 |
| Dissolved Oxygen | mg/L | 14 | 9.649 | 9.500 | 1.696 | 12.74 | 6.99 |
| Phycocyanin (Probe- RFU) | RFU | 3 | -0.003 | 0.000 | 0.085 | 0.08 | -0.09 |
| Phycocyanin (Probe- ug/l) | ug/L | 4 | 0.085 | 0.020 | 0.218 | 0.40 | -0.10 |
| Percent Saturation (DO) | % | 12 | 115.192 | 118.000 | 19.773 | 155.00 | 88.00 |
| pH | std units | 13 | 8.277 | 8.220 | 0.303 | 8.68 | 7.80 |
| pH | std units | 13 | 8.277 | 8.220 | 0.303 | 8.68 | 7.80 |
| Salinity | ppt | 11 | 0.220 | 0.200 | 0.055 | 0.30 | 0.11 |
| Temperature | deg C | 14 | 23.150 | 24.050 | 4.254 | 30.20 | 14.70 |

Water Quality Standard Exceedances: 13-WALK-19.0

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | pH | ph\_units | <=8.5 | 8.52 |
| 2018 | pH | ph\_units | <=8.5 | 8.56 |
| 2018 | pH | ph\_units | <=8.5 | 8.68 |
| 2019 | pH | ph\_units | <=8.5 | 8.57 |
| 2019 | pH | ph\_units | <=8.5 | 8.51 |

Numeric Nutrient Criteria: 13-WALK-19.0

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 15 | 0.17 | 0 | 0.1 | 0.32 | 0.14 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-19.0

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 5.63 | 0.17 | 4 |
| 8/3/2017 | 5.10 | 0.63 | 4 |

### 13-GUNK-0.4 | Waterbody Class: B | PWL\_ID: 1306-0045

Chemistry Measurements: 13-GUNK-0.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 63.560 | 70.200 | 13.821 | 80.00 | 43.60 |
| Aluminum | ug/l | 10 | 368.290 | 129.000 | 394.534 | 1100.00 | 65.90 |
| Arsenic | ug/l | 10 | 0.966 | 0.990 | 0.386 | NA | NA |
| Cadmium | ug/l | 10 | 0.315 | 0.315 | 0.346 | NA | NA |
| Calcium | ug/l | 5 | 20060.000 | 18400.000 | 4879.344 | 25700.00 | 15400.00 |
| Chloride | mg/l | 10 | 36.470 | 40.300 | 10.173 | 47.70 | 22.40 |
| Chlorophyll A | ug/l | 10 | 2.253 | 1.260 | 2.119 | 6.73 | 0.62 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 327.800 | 325.000 | 19.690 | 358.00 | 303.00 |
| Copper | ug/l | 10 | 2.800 | 1.900 | 2.484 | 9.60 | 1.30 |
| Hardness (As Caco3) | mg/l | 10 | 81.800 | 86.050 | 20.338 | 113.00 | 51.50 |
| Iron | ug/l | 10 | 700.900 | 373.500 | 571.295 | 1680.00 | 238.00 |
| Lead | ug/l | 10 | 1.075 | 1.155 | 0.666 | NA | NA |
| Magnesium | ug/l | 10 | 4545.000 | 4825.000 | 843.211 | 5470.00 | 3150.00 |
| Nickel | ug/l | 10 | 1.563 | 1.450 | 0.529 | 2.40 | 0.76 |
| Nitrate+Nitrite | mg/l | 10 | 0.218 | 0.205 | 0.076 | 0.38 | 0.11 |
| Nitrogen | mg/l | 5 | 0.782 | 0.750 | 0.164 | 0.95 | 0.55 |
| Ammonia | mg/l | 10 | 0.018 | 0.020 | 0.006 | 0.03 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.582 | 0.590 | 0.140 | 0.73 | 0.43 |
| Nitrate | mg/l | 10 | 0.218 | 0.205 | 0.076 | 0.38 | 0.11 |
| Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| pH | pH units | 5 | 7.964 | 7.910 | 0.171 | 8.17 | 7.76 |
| pH | pH units | 5 | 7.964 | 7.910 | 0.171 | 8.17 | 7.76 |
| Total Phosphorus | mg/l | 10 | 0.069 | 0.070 | 0.012 | 0.09 | 0.04 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 153.200 | 160.000 | 25.694 | 178.00 | 111.00 |
| Turbidity | ntu | 10 | 7.156 | 4.910 | 6.112 | 18.60 | 1.01 |
| Zinc | ug/l | 10 | 7.860 | 7.800 | 2.752 | NA | NA |

In-Situ Measurements: 13-GUNK-0.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 13 | 370.092 | 289.00 | 254.437 | 1047.00 | 126.00 |
| Dissolved Oxygen | mg/L | 13 | 8.290 | 8.50 | 1.770 | 10.20 | 3.84 |
| Percent Saturation (DO) | % | 7 | 93.171 | 97.00 | 26.251 | 121.00 | 46.00 |
| pH | std units | 13 | 7.978 | 8.10 | 0.541 | 8.70 | 6.97 |
| pH | std units | 13 | 7.978 | 8.10 | 0.541 | 8.70 | 6.97 |
| Salinity | ppt | 8 | 0.220 | 0.14 | 0.146 | 0.52 | 0.12 |
| Temperature | deg C | 13 | 23.315 | 23.60 | 3.038 | 28.10 | 17.20 |

Water Quality Standard Exceedances: 13-GUNK-0.4

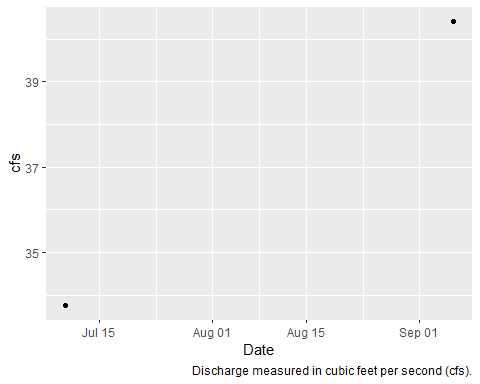
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | Dissolved Oxygen | mg/l | >=4 | 3.84 |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 3.84 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 3.84 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 3.84 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 3.84 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 3.84 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 3.84 |
| 2018 | Dissolved Oxygen | mg/l | >=4 | 3.84 |

Numeric Nutrient Criteria: 13-GUNK-0.4

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.069 | 0 | 0.04 | 0.09 | 0.07 | Aquatic Chronic |

Biological Assessment Score Summary: 13-GUNK-0.4

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 7.87 | 0.07 | 4 |
| 8/3/2017 | 7.28 | 0.32 | 4 |



### 13-PKIL-5.7 | Waterbody Class: B | PWL\_ID: 1306-0044

Chemistry Measurements: 13-PKIL-5.7

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nitrate+Nitrite | mg/l | 4 | 0.368 | 0.384 | 0.221 | 0.576 | 0.129 |
| Nitrogen | mg/l | 4 | 0.870 | 0.855 | 0.088 | 0.990 | 0.780 |
| Ammonia | mg/l | 4 | 0.033 | 0.026 | 0.026 | 0.070 | 0.012 |
| Total Kjeldahl Nitrogen | mg/l | 4 | 0.500 | 0.495 | 0.171 | 0.710 | 0.300 |
| Nitrate | mg/l | 4 | 0.368 | 0.384 | 0.221 | 0.576 | 0.129 |
| Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 4 | 0.052 | 0.048 | 0.016 | 0.073 | 0.038 |
| Turbidity | ntu | 4 | 2.612 | 2.105 | 1.329 | 4.580 | 1.660 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-PKIL-5.7

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |

### 13-PKIL-0.4 | Waterbody Class: B | PWL\_ID: 1306-0044

Chemistry Measurements: 13-PKIL-0.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 92.780 | 91.000 | 13.993 | 113.00 | 74.80 |
| Aluminum | ug/l | 10 | 118.890 | 105.600 | 86.894 | 280.00 | 27.40 |
| Arsenic | ug/l | 10 | 1.270 | 1.400 | 0.347 | 1.70 | 0.69 |
| Cadmium | ug/l | 10 | 0.550 | 0.550 | NA | NA | NA |
| Calcium | ug/l | 10 | 36700.000 | 37650.000 | 4376.198 | 42500.00 | 28600.00 |
| Chloride | mg/l | 10 | 58.580 | 54.800 | 10.609 | 79.60 | 47.20 |
| Chlorophyll A | ug/l | 10 | 4.471 | 1.030 | 8.925 | 29.50 | 0.31 |
| Copper | ug/l | 10 | 1.462 | 1.500 | 0.506 | 2.40 | 0.81 |
| Hardness (As Caco3) | mg/l | 10 | 114.760 | 117.500 | 13.998 | 135.00 | 89.60 |
| Iron | ug/l | 10 | 331.840 | 297.500 | 242.425 | 746.00 | 74.50 |
| Lead | ug/l | 10 | 0.615 | 0.540 | 0.345 | NA | NA |
| Magnesium | ug/l | 9 | 5607.778 | 5800.000 | 815.411 | 6940.00 | 4440.00 |
| Nickel | ug/l | 10 | 0.918 | 0.840 | 0.200 | 1.30 | 0.68 |
| Nitrate+Nitrite | mg/l | 10 | 0.287 | 0.300 | 0.133 | 0.45 | 0.00 |
| Nitrogen | mg/l | 10 | 0.677 | 0.755 | 0.232 | 0.97 | 0.33 |
| Ammonia | mg/l | 10 | 0.015 | 0.015 | 0.005 | NA | NA |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.425 | 0.405 | 0.175 | 0.79 | 0.11 |
| Nitrate | mg/l | 10 | 0.317 | 0.330 | 0.091 | NA | NA |
| Nitrite | mg/l | 10 | 0.010 | 0.010 | 0.000 | NA | NA |
| Total Phosphorus | mg/l | 10 | 0.063 | 0.060 | 0.020 | 0.11 | 0.04 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 223.800 | 222.000 | 23.382 | 250.00 | 199.00 |
| Turbidity | ntu | 10 | 4.476 | 2.740 | 4.432 | 16.00 | 0.81 |
| Zinc | ug/l | 10 | 4.325 | 3.950 | 1.468 | NA | NA |

In-Situ Measurements: 13-PKIL-0.4

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 5 | 0.804 | 0.57 | 0.948 | 2.46 | 0.11 |
| Chlorophyll A (Probe-ug/l) | ug/L | 5 | 3.200 | 2.10 | 3.742 | 9.80 | 0.70 |
| Conductance | uS/cm | 13 | 408.123 | 390.30 | 153.684 | 752.90 | 37.70 |
| Dissolved Oxygen | mg/L | 13 | 8.713 | 8.90 | 1.966 | 11.88 | 4.10 |
| Phycocyanin (Probe- RFU) | RFU | 5 | 0.152 | 0.02 | 0.353 | 0.78 | -0.07 |
| Phycocyanin (Probe- ug/l) | ug/L | 5 | 0.162 | 0.02 | 0.346 | 0.78 | -0.03 |
| Percent Saturation (DO) | % | 12 | 94.475 | 98.45 | 16.517 | 109.00 | 49.00 |
| pH | std units | 13 | 7.970 | 8.00 | 0.420 | 8.89 | 7.06 |
| pH | std units | 13 | 7.970 | 8.00 | 0.420 | 8.89 | 7.06 |
| Salinity | ppt | 11 | 0.180 | 0.19 | 0.057 | 0.25 | 0.02 |
| Temperature | deg C | 13 | 19.069 | 21.30 | 5.980 | 25.10 | 4.70 |

Water Quality Standard Exceedances: 13-PKIL-0.4

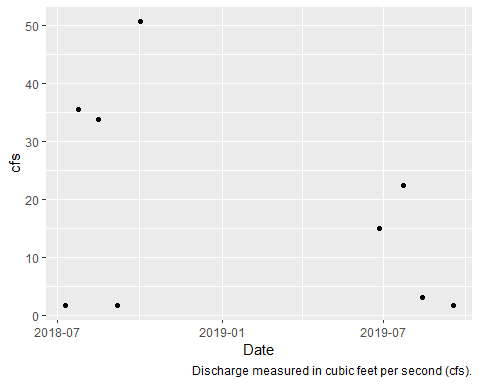
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 4.10 |
| 2018 | pH | ph\_units | <=8.5 | 8.89 |

Numeric Nutrient Criteria: 13-PKIL-0.4

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |

Biological Assessment Score Summary: 13-PKIL-0.4

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 6.95 | 0.66 | 4 |
| 8/8/2019 | 7.12 | 0.77 | 4 |



### 13-WALK-9.8 | Waterbody Class: B | PWL\_ID: 1306-0027

Chemistry Measurements: 13-WALK-9.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 9 | 113.467 | 126.00 | 22.202 | 138.00 | 78.40 |
| Aluminum | ug/l | 9 | 248.311 | 123.00 | 257.255 | 697.00 | 77.70 |
| Arsenic | ug/l | 9 | 1.633 | 1.60 | 0.346 | 2.20 | 1.20 |
| Cadmium | ug/l | 9 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 9 | 41944.444 | 44100.00 | 7066.844 | 49600.00 | 30400.00 |
| Chloride | mg/l | 9 | 71.189 | 72.10 | 21.927 | 99.70 | 40.30 |
| Chlorophyll A | ug/l | 9 | 16.076 | 2.83 | 35.176 | 109.00 | 0.44 |
| Copper | ug/l | 9 | 3.211 | 3.30 | 0.706 | 4.40 | 2.40 |
| Hardness (As Caco3) | mg/l | 9 | 152.333 | 164.00 | 28.618 | 183.00 | 109.00 |
| Iron | ug/l | 9 | 552.000 | 253.00 | 575.900 | 1600.00 | 138.00 |
| Lead | ug/l | 9 | 1.042 | 0.76 | 0.665 | NA | NA |
| Magnesium | ug/l | 8 | 11688.750 | 12950.00 | 2907.721 | 14800.00 | 7280.00 |
| Nickel | ug/l | 9 | 1.689 | 1.50 | 0.465 | 2.60 | 1.30 |
| Nitrate+Nitrite | mg/l | 9 | 0.930 | 0.85 | 0.497 | 1.75 | 0.02 |
| Nitrogen | mg/l | 9 | 1.644 | 1.54 | 0.590 | 2.53 | 0.80 |
| Ammonia | mg/l | 9 | 0.072 | 0.05 | 0.088 | 0.29 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 9 | 0.776 | 0.72 | 0.188 | 1.16 | 0.55 |
| Nitrate | mg/l | 9 | 0.921 | 0.85 | 0.493 | 1.74 | 0.02 |
| Nitrite | mg/l | 9 | 0.014 | 0.01 | 0.005 | NA | NA |
| Total Phosphorus | mg/l | 9 | 0.162 | 0.14 | 0.041 | 0.22 | 0.12 |
| Silver | ug/l | 9 | 0.060 | 0.06 | NA | NA | NA |
| Total Dissolved Solids | mg/l | 4 | 262.750 | 266.00 | 58.025 | 320.00 | 199.00 |
| Turbidity | ntu | 9 | 9.266 | 6.95 | 8.578 | 31.00 | 1.19 |
| Zinc | ug/l | 9 | 6.322 | 4.80 | 4.153 | 14.70 | 2.80 |

In-Situ Measurements: 13-WALK-9.8

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 4 | 0.840 | 0.86 | 0.516 | 1.44 | 0.20 |
| Chlorophyll A (Probe-ug/l) | ug/L | 4 | 3.585 | 3.75 | 2.155 | 5.94 | 0.90 |
| Conductance | uS/cm | 9 | 526.489 | 538.00 | 106.171 | 663.00 | 382.90 |
| Dissolved Oxygen | mg/L | 9 | 9.276 | 8.30 | 2.889 | 15.50 | 6.51 |
| Phycocyanin (Probe- RFU) | RFU | 4 | 0.065 | 0.06 | 0.060 | 0.14 | 0.00 |
| Phycocyanin (Probe- ug/l) | ug/L | 4 | 0.085 | 0.08 | 0.074 | 0.18 | 0.00 |
| Percent Saturation (DO) | % | 9 | 108.256 | 91.00 | 39.270 | 197.00 | 73.50 |
| pH | std units | 8 | 8.136 | 8.08 | 0.307 | 8.66 | 7.74 |
| pH | std units | 8 | 8.136 | 8.08 | 0.307 | 8.66 | 7.74 |
| Salinity | ppt | 8 | 0.246 | 0.25 | 0.049 | 0.30 | 0.18 |
| Temperature | deg C | 9 | 22.600 | 24.20 | 4.463 | 27.40 | 15.00 |

Water Quality Standard Exceedances: 13-WALK-9.8

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | pH | ph\_units | <=8.5 | 8.66 |

Numeric Nutrient Criteria: 13-WALK-9.8

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 9 | 0.162 | 0 | 0.12 | 0.22 | 0.14 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-9.8

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/16/2018 | 5.74 | 0.4 | 4 |

### 13-WKLEI-0.6 | Waterbody Class: C | PWL\_ID: 1306-0042

Chemistry Measurements: 13-WKLEI-0.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 81.800 | 85.200 | 16.377 | 106.00 | 54.40 |
| Aluminum | ug/l | 10 | 1663.100 | 1032.000 | 1694.446 | 6090.00 | 410.00 |
| Arsenic | ug/l | 10 | 1.316 | 1.200 | 0.847 | NA | NA |
| Cadmium | ug/l | 10 | 0.100 | 0.100 | 0.000 | NA | NA |
| Calcium | ug/l | 5 | 25760.000 | 21400.000 | 8859.345 | 35500.00 | 16900.00 |
| Chloride | mg/l | 10 | 19.660 | 20.750 | 6.715 | 29.60 | 11.20 |
| Chlorophyll A | ug/l | 10 | 6.100 | 2.925 | 9.021 | 31.10 | 0.57 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 271.800 | 270.000 | 19.854 | 300.00 | 252.00 |
| Copper | ug/l | 10 | 3.450 | 2.900 | 2.209 | 9.10 | 1.60 |
| Hardness (As Caco3) | mg/l | 10 | 106.200 | 119.000 | 27.038 | 130.00 | 60.10 |
| Iron | ug/l | 10 | 3157.200 | 2190.000 | 3208.068 | 11600.00 | 682.00 |
| Lead | ug/l | 10 | 2.695 | 1.750 | 3.035 | 10.90 | 0.51 |
| Magnesium | ug/l | 10 | 6727.000 | 6560.000 | 1721.782 | 10200.00 | 4330.00 |
| Nickel | ug/l | 10 | 3.860 | 3.150 | 3.032 | 11.50 | 1.10 |
| Nitrate+Nitrite | mg/l | 10 | 0.046 | 0.045 | 0.021 | 0.07 | 0.00 |
| Nitrogen | mg/l | 5 | 0.706 | 0.720 | 0.285 | 1.03 | 0.39 |
| Ammonia | mg/l | 10 | 0.031 | 0.020 | 0.017 | 0.06 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.660 | 0.670 | 0.291 | 1.00 | 0.35 |
| Nitrate | mg/l | 10 | 0.050 | 0.050 | 0.013 | NA | NA |
| Nitrite | mg/l | 10 | 0.010 | 0.010 | NA | NA | NA |
| pH | pH units | 5 | 7.684 | 7.660 | 0.168 | 7.96 | 7.54 |
| pH | pH units | 5 | 7.684 | 7.660 | 0.168 | 7.96 | 7.54 |
| Total Phosphorus | mg/l | 10 | 0.087 | 0.080 | 0.051 | 0.22 | 0.04 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 146.500 | 143.500 | 22.461 | 175.00 | 107.00 |
| Turbidity | ntu | 10 | 47.073 | 42.450 | 32.808 | 102.00 | 6.83 |
| Zinc | ug/l | 10 | 11.130 | 7.950 | 9.263 | 34.70 | 3.80 |

In-Situ Measurements: 13-WKLEI-0.6

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 7 | 407.500 | 298.50 | 403.969 | 1315.00 | 157.00 |
| Dissolved Oxygen | mg/L | 7 | 6.296 | 6.70 | 1.493 | 8.57 | 4.50 |
| Percent Saturation (DO) | % | 7 | 72.543 | 81.00 | 15.167 | 86.00 | 51.00 |
| pH | std units | 7 | 7.463 | 7.45 | 0.263 | 7.88 | 7.08 |
| pH | std units | 7 | 7.463 | 7.45 | 0.263 | 7.88 | 7.08 |
| Salinity | ppt | 7 | 0.196 | 0.14 | 0.202 | 0.65 | 0.07 |
| Temperature | deg C | 7 | 22.443 | 22.90 | 3.416 | 26.50 | 15.60 |

Water Quality Standard Exceedances: 13-WKLEI-0.6

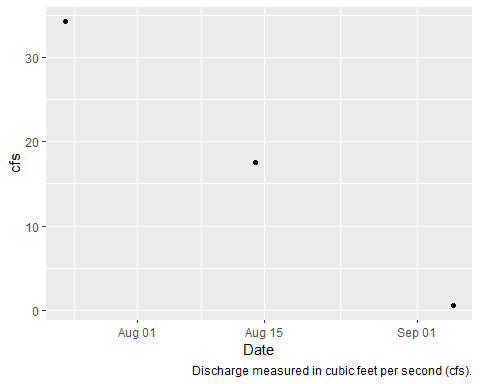
| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 4.6 |
| 2018 | Dissolved Oxygen | mg/l | >=5 | 4.5 |

Numeric Nutrient Criteria: 13-WKLEI-0.6

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.087 | 0 | 0.04 | 0.22 | 0.08 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WKLEI-0.6

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/2/2017 | 5.73 | NA | 1 |
| 8/3/2017 | 6.18 | 0.49 | 3 |



### 13-WALK-2.1 | Waterbody Class: B | PWL\_ID: 1306-0027

Chemistry Measurements: 13-WALK-2.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 106.020 | 112.000 | 16.036 | 129.00 | 78.80 |
| Aluminum | ug/l | 10 | 345.400 | 180.000 | 337.829 | 989.00 | 102.00 |
| Arsenic | ug/l | 10 | 1.418 | 1.300 | 0.749 | NA | NA |
| Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 5 | 37520.000 | 36500.000 | 6131.639 | 44200.00 | 28600.00 |
| Chloride | mg/l | 10 | 67.290 | 71.750 | 14.555 | 82.70 | 38.20 |
| Chlorophyll A | ug/l | 10 | 27.960 | 17.800 | 29.278 | 82.70 | 1.25 |
| Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 514.600 | 519.000 | 52.089 | 572.00 | 431.00 |
| Copper | ug/l | 10 | 3.040 | 2.650 | 0.885 | 4.80 | 2.20 |
| Hardness (As Caco3) | mg/l | 10 | 144.000 | 152.000 | 21.129 | 173.00 | 102.00 |
| Iron | ug/l | 10 | 626.500 | 369.500 | 549.161 | 1700.00 | 208.00 |
| Lead | ug/l | 10 | 1.256 | 0.610 | 0.952 | NA | NA |
| Magnesium | ug/l | 10 | 9913.000 | 10155.000 | 1630.031 | 12700.00 | 7360.00 |
| Nickel | ug/l | 10 | 2.140 | 2.000 | 0.467 | 2.90 | 1.40 |
| Nitrate+Nitrite | mg/l | 10 | 0.651 | 0.700 | 0.456 | 1.67 | 0.04 |
| Nitrogen | mg/l | 5 | 1.626 | 1.440 | 0.776 | 2.98 | 1.09 |
| Ammonia | mg/l | 10 | 0.072 | 0.035 | 0.077 | 0.24 | 0.01 |
| Total Kjeldahl Nitrogen | mg/l | 5 | 0.976 | 1.000 | 0.259 | 1.31 | 0.64 |
| Nitrate | mg/l | 10 | 0.643 | 0.690 | 0.452 | 1.65 | 0.04 |
| Nitrite | mg/l | 10 | 0.018 | 0.020 | 0.004 | NA | NA |
| pH | pH units | 5 | 8.136 | 8.050 | 0.430 | 8.79 | 7.63 |
| pH | pH units | 5 | 8.136 | 8.050 | 0.430 | 8.79 | 7.63 |
| Total Phosphorus | mg/l | 10 | 0.151 | 0.135 | 0.046 | 0.24 | 0.11 |
| Silver | ug/l | 10 | 0.080 | 0.080 | NA | NA | NA |
| Total Dissolved Solids | mg/l | 10 | 262.000 | 269.500 | 36.114 | 305.00 | 183.00 |
| Turbidity | ntu | 10 | 9.969 | 8.185 | 7.598 | 28.50 | 2.02 |
| Zinc | ug/l | 10 | 7.938 | 5.350 | 5.165 | NA | NA |

In-Situ Measurements: 13-WALK-2.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Conductance | uS/cm | 7 | 461.127 | 465.10 | 147.767 | 700.00 | 308.00 |
| Dissolved Oxygen | mg/L | 7 | 9.379 | 8.11 | 3.150 | 14.63 | 6.65 |
| Percent Saturation (DO) | % | 7 | 113.486 | 89.00 | 45.858 | 181.00 | 82.90 |
| pH | std units | 7 | 7.833 | 7.62 | 0.730 | 9.05 | 6.99 |
| pH | std units | 7 | 7.833 | 7.62 | 0.730 | 9.05 | 6.99 |
| Salinity | ppt | 5 | 0.218 | 0.16 | 0.087 | 0.34 | 0.15 |
| Temperature | deg C | 7 | 24.229 | 26.40 | 5.903 | 32.30 | 16.20 |

Water Quality Standard Exceedances: 13-WALK-2.1

| **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- |
| 2017 | pH | ph\_units | <=8.5 | 8.79 |
| 2018 | pH | ph\_units | <=8.5 | 9.05 |
| 2018 | pH | ph\_units | <=8.5 | 8.55 |

Numeric Nutrient Criteria: 13-WALK-2.1

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.151 | 5 | 0.11 | 0.24 | 0.135 | Aquatic Chronic |

Biological Assessment Score Summary: 13-WALK-2.1

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/16/2018 | 3.10 | 0.79 | 4 |
| 8/24/2017 | 5.19 | 0.72 | 2 |

### 13-SWAK-1.7 | Waterbody Class: B | PWL\_ID: 1306-0039

Chemistry Measurements: 13-SWAK-1.7

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 10 | 75.920 | 77.400 | 12.492 | 89.60 | 45.20 |
| Aluminum | ug/l | 10 | 21.580 | 20.950 | 12.818 | 43.10 | 5.80 |
| Arsenic | ug/l | 10 | 0.694 | 0.615 | 0.241 | 1.20 | 0.46 |
| Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| Calcium | ug/l | 10 | 29290.000 | 28850.000 | 4876.121 | 34300.00 | 17900.00 |
| Chloride | mg/l | 10 | 25.580 | 26.050 | 5.735 | 35.60 | 15.10 |
| Chlorophyll A | ug/l | 10 | 0.887 | 0.610 | 0.843 | 2.59 | 0.14 |
| Copper | ug/l | 10 | 0.727 | 0.730 | 0.035 | NA | NA |
| Hardness (As Caco3) | mg/l | 10 | 87.170 | 85.500 | 14.593 | 102.00 | 52.90 |
| Iron | ug/l | 10 | 226.830 | 184.500 | 201.232 | 720.00 | 29.60 |
| Lead | ug/l | 10 | 0.282 | 0.170 | 0.176 | NA | NA |
| Magnesium | ug/l | 9 | 3403.333 | 3410.000 | 606.795 | 3930.00 | 2010.00 |
| Nickel | ug/l | 10 | 0.584 | 0.535 | 0.171 | 0.85 | 0.37 |
| Nitrate+Nitrite | mg/l | 10 | 0.076 | 0.085 | 0.055 | 0.16 | 0.00 |
| Nitrogen | mg/l | 10 | 0.644 | 0.640 | 0.216 | NA | NA |
| Ammonia | mg/l | 10 | 0.015 | 0.010 | 0.010 | NA | NA |
| Total Kjeldahl Nitrogen | mg/l | 10 | 0.554 | 0.550 | 0.220 | 1.04 | 0.21 |
| Nitrate | mg/l | 10 | 0.094 | 0.100 | 0.045 | NA | NA |
| Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| Total Phosphorus | mg/l | 10 | 0.044 | 0.040 | 0.014 | 0.07 | 0.02 |
| Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| Total Dissolved Solids | mg/l | 5 | 159.600 | 168.000 | 38.875 | 195.00 | 96.00 |
| Turbidity | ntu | 10 | 1.986 | 1.510 | 1.736 | 5.17 | 0.42 |
| Zinc | ug/l | 10 | 3.400 | 3.400 | 0.849 | NA | NA |

In-Situ Measurements: 13-SWAK-1.7

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chlorophyll A (Probe-RFU) | RFU | 5 | 1.066 | 0.700 | 0.819 | 2.47 | 0.50 |
| Chlorophyll A (Probe-ug/l) | ug/L | 5 | 3.792 | 2.800 | 3.490 | 9.60 | 0.46 |
| Conductance | uS/cm | 12 | 228.917 | 231.350 | 115.042 | 479.90 | 89.60 |
| Dissolved Oxygen | mg/L | 12 | 9.196 | 8.245 | 2.233 | 12.67 | 5.44 |
| Phycocyanin (Probe- RFU) | RFU | 5 | 0.008 | 0.010 | 0.154 | 0.20 | -0.20 |
| Phycocyanin (Probe- ug/l) | ug/L | 5 | 0.070 | 0.010 | 0.141 | 0.30 | -0.06 |
| Percent Saturation (DO) | % | 12 | 91.275 | 93.550 | 8.897 | 98.50 | 64.20 |
| pH | std units | 12 | 7.727 | 7.790 | 0.185 | 8.00 | 7.42 |
| pH | std units | 12 | 7.727 | 7.790 | 0.185 | 8.00 | 7.42 |
| Salinity | ppt | 12 | 0.110 | 0.110 | 0.056 | 0.23 | 0.04 |
| Temperature | deg C | 12 | 15.975 | 21.100 | 8.664 | 24.00 | 2.50 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: 13-SWAK-1.7

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Total Phosphorus | 10 | 0.044 | 0 | 0.02 | 0.07 | 0.04 | Aquatic Chronic |

Biological Assessment Score Summary: 13-SWAK-1.7

| **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- |
| 8/27/2018 | 6.58 | 0.12 | 4 |
| 8/8/2019 | 6.72 | 0.72 | 4 |



### sturgeon\_pool\_epilimnion | Waterbody Class: B | PWL\_ID: 1306-0037

Chemistry Measurements: sturgeon\_pool\_epilimnion

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 3 | 106.600 | 104.000 | 21.220 | 129.000 | 86.800 |
| Calcium | mg/l | 3 | 38.567 | 39.100 | 5.021 | 43.300 | 33.300 |
| Chloride | mg/l | 2 | 71.250 | 71.250 | 0.212 | 71.400 | 71.100 |
| Chlorophyll A | ug/l | 3 | 23.840 | 15.000 | 24.468 | 51.500 | 5.020 |
| Dissolved Organic Carbon | mg/l | 1 | 6.200 | 6.200 | NA | 6.200 | 6.200 |
| Iron | ug/l | 3 | 117.833 | 103.000 | 40.824 | 164.000 | 86.500 |
| Manganese | ug/l | 3 | 43.667 | 32.700 | 19.955 | 66.700 | 31.600 |
| Nitrate+Nitrite | mg/l | 3 | 0.472 | 0.661 | 0.361 | 0.700 | 0.056 |
| Ammonia | mg/l | 3 | 0.080 | 0.092 | 0.058 | 0.132 | 0.017 |
| Total Kjeldahl Nitrogen | mg/l | 3 | 0.783 | 0.780 | 0.175 | 0.960 | 0.610 |
| Total Phosphorus | mg/l | 5 | 0.096 | 0.099 | 0.024 | 0.122 | 0.057 |
| Sulfate (As So4) | mg/l | 3 | 17.033 | 17.200 | 1.159 | 18.100 | 15.800 |
| Total Organic Carbon | mg/l | 2 | 6.950 | 6.950 | 1.061 | 7.700 | 6.200 |
| True Color | color units | 3 | 64.000 | 55.000 | 32.450 | 100.000 | 37.000 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: sturgeon\_pool\_epilimnion

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |

### sturgeon\_pool\_hypolimnion | Waterbody Class: B | PWL\_ID: 1306-0037

Chemistry Measurements: sturgeon\_pool\_hypolimnion

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity | mg/l | 3 | 92.600 | 94.000 | 13.156 | 105.000 | 78.800 |
| Arsenic | ug/l | 3 | 1.567 | 1.500 | 0.115 | 1.700 | 1.500 |
| Calcium | mg/l | 3 | 34.067 | 32.000 | 5.311 | 40.100 | 30.100 |
| Chloride | mg/l | 3 | 53.233 | 47.600 | 16.297 | 71.600 | 40.500 |
| Dissolved Organic Carbon | mg/l | 1 | 6.200 | 6.200 | NA | 6.200 | 6.200 |
| Iron | ug/l | 3 | 233.667 | 196.000 | 66.108 | 310.000 | 195.000 |
| Manganese | ug/l | 3 | 402.000 | 136.000 | 465.062 | 939.000 | 131.000 |
| Nitrate+Nitrite | mg/l | 3 | 0.619 | 0.657 | 0.305 | 0.903 | 0.297 |
| Ammonia | mg/l | 3 | 0.372 | 0.236 | 0.268 | 0.681 | 0.200 |
| Total Kjeldahl Nitrogen | mg/l | 2 | 0.735 | 0.735 | 0.064 | 0.780 | 0.690 |
| Total Phosphorus | mg/l | 6 | 0.114 | 0.113 | 0.012 | 0.129 | 0.102 |
| Sulfate (As So4) | mg/l | 3 | 15.067 | 18.000 | 5.255 | 18.200 | 9.000 |
| Total Organic Carbon | mg/l | 1 | 8.100 | 8.100 | NA | 8.100 | 8.100 |
| True Color | color units | 2 | 68.500 | 68.500 | 44.548 | 100.000 | 37.000 |

There were no water quality standard exceedances at this site during the sampling period.

Numeric Nutrient Criteria: sturgeon\_pool\_hypolimnion

| **Parameter** | **Record Count** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |