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).

### Site ID: 13-WALK-60.1

Chemistry Measurements: 13-WALK-60.1

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-60.1 | Alkalinity, Total (As Caco3) | mg/l | 15 | 130.053 | 144.00 | 39.875 | 184.00 | 57.20 |
| 13-WALK-60.1 | Aluminum | ug/l | 15 | 419.333 | 363.00 | 176.994 | 796.00 | 180.00 |
| 13-WALK-60.1 | Arsenic | ug/l | 15 | 1.531 | 1.50 | 0.369 | 2.10 | 0.86 |
| 13-WALK-60.1 | Cadmium | ug/l | 15 | NaN | NA | NA | NA | NA |
| 13-WALK-60.1 | Calcium | ug/l | 10 | 39040.000 | 42900.00 | 14543.513 | 60100.00 | 19300.00 |
| 13-WALK-60.1 | Chloride (As Cl) | mg/l | 15 | 74.013 | 82.90 | 23.907 | 115.00 | 31.90 |
| 13-WALK-60.1 | Chlorophyll A | ug/l | 15 | 7.444 | 5.03 | 8.319 | 34.20 | 1.31 |
| 13-WALK-60.1 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 621.200 | 623.00 | 42.068 | 680.00 | 562.00 |
| 13-WALK-60.1 | Copper | ug/l | 15 | 2.507 | 2.40 | 0.473 | 3.20 | 1.80 |
| 13-WALK-60.1 | Hardness (As Caco3) | mg/l | 15 | 170.827 | 190.00 | 57.432 | 252.00 | 71.40 |
| 13-WALK-60.1 | Iron | ug/l | 15 | 1027.067 | 923.00 | 336.452 | 1760.00 | 516.00 |
| 13-WALK-60.1 | Lead | ug/l | 15 | 1.153 | 1.10 | 0.348 | 1.90 | 0.58 |
| 13-WALK-60.1 | Magnesium | ug/l | 14 | 14394.286 | 15600.00 | 5901.432 | 24800.00 | 5250.00 |
| 13-WALK-60.1 | Nickel | ug/l | 15 | 2.060 | 1.90 | 0.567 | 3.30 | 1.40 |
| 13-WALK-60.1 | Nitrate+Nitrite As Nitrogen | mg/l | 15 | 0.933 | 0.86 | 0.571 | 2.25 | 0.19 |
| 13-WALK-60.1 | Nitrogen | mg/l | 10 | 1.613 | 1.40 | 0.658 | 2.86 | 0.93 |
| 13-WALK-60.1 | Nitrogen, Ammonia (As N) | mg/l | 15 | 0.051 | 0.05 | 0.024 | 0.09 | 0.01 |
| 13-WALK-60.1 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.725 | 0.69 | 0.153 | 1.07 | 0.55 |
| 13-WALK-60.1 | Nitrogen, Nitrate (As N) | mg/l | 15 | 0.925 | 0.86 | 0.564 | 2.24 | 0.19 |
| 13-WALK-60.1 | Nitrogen, Nitrite | mg/l | 15 | 0.016 | 0.01 | 0.008 | NA | NA |
| 13-WALK-60.1 | Ph | pH units | 5 | 7.740 | 7.78 | 0.090 | 7.81 | 7.60 |
| 13-WALK-60.1 | Phosphorus, Total (As P) | mg/l | 15 | 0.081 | 0.08 | 0.027 | 0.13 | 0.05 |
| 13-WALK-60.1 | Silver | ug/l | 15 | 0.050 | 0.05 | NA | NA | NA |
| 13-WALK-60.1 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 280.600 | 311.50 | 66.487 | 340.00 | 150.00 |
| 13-WALK-60.1 | Turbidity | ntu | 15 | 22.455 | 16.60 | 28.419 | 121.00 | 3.22 |
| 13-WALK-60.1 | Zinc | ug/l | 15 | 16.460 | 15.90 | 4.569 | 27.70 | 11.20 |

In-Situ Measurements: 13-WALK-60.1

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-60.1 | Chl\_RFU | RFU | 4 | 0.745 | 0.860 | 0.307 | 0.96 | 0.30 |
| 13-WALK-60.1 | Chl\_ugL | ug/L | 4 | 3.175 | 3.775 | 1.252 | 3.85 | 1.30 |
| 13-WALK-60.1 | CONDUCTANCE | uS/cm | 13 | 357.446 | 439.200 | 277.568 | 743.00 | 27.10 |
| 13-WALK-60.1 | DISSOLVED\_OXYGEN | mg/L | 13 | 8.258 | 7.930 | 2.821 | 12.29 | 4.39 |
| 13-WALK-60.1 | PC\_RFU | RFU | 4 | 0.000 | 0.010 | 0.059 | 0.06 | -0.08 |
| 13-WALK-60.1 | PC\_ugL | ug/L | 4 | 0.018 | 0.035 | 0.046 | 0.05 | -0.05 |
| 13-WALK-60.1 | PCT\_SATURATION | % | 11 | 81.400 | 80.100 | 13.976 | 98.60 | 50.00 |
| 13-WALK-60.1 | PH | std units | 13 | 7.478 | 7.500 | 0.316 | 8.00 | 7.07 |
| 13-WALK-60.1 | SALINITY | ppt | 11 | 0.155 | 0.120 | 0.142 | 0.37 | 0.01 |
| 13-WALK-60.1 | TEMPERATURE | deg C | 13 | 15.469 | 19.100 | 8.937 | 26.00 | 3.40 |

Water Quality Standard Exceedances: 13-WALK-60.1

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WALK-60.1 | 2017 | dissolved\_oxygen | mg/l | >=5 | 4.40 |
| 13-WALK-60.1 | 2019 | dissolved\_oxygen | mg/l | >=5 | 4.39 |

Numeric Nutrient Criteria: 13-WALK-60.1

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-60.1 | PHOSPHORUS, TOTAL (AS P) | 15 | 0.081 | 5 | 0.05 | 0.13 | 0.08 | Aquatic Chronic |

BAP Score: 13-WALK-60.1

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-60.1 | 8/16/2018 | 5.23 | 0.45 | 4 |
| 13-WALK-60.1 | 8/24/2017 | 4.70 | 0.17 | 2 |

### Site ID: 13-POCH-2.6

Chemistry Measurements: 13-POCH-2.6

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-POCH-2.6 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.475 | 0.456 | 0.174 | 0.693 | 0.295 |
| 13-POCH-2.6 | Nitrogen | mg/l | 4 | 1.105 | 1.020 | 0.320 | 1.550 | 0.830 |
| 13-POCH-2.6 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.045 | 0.039 | 0.028 | 0.080 | 0.022 |
| 13-POCH-2.6 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.633 | 0.570 | 0.148 | 0.850 | 0.540 |
| 13-POCH-2.6 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.467 | 0.448 | 0.165 | 0.676 | 0.295 |
| 13-POCH-2.6 | Nitrogen, Nitrite | mg/l | 4 | 0.016 | 0.016 | 0.001 | NA | NA |
| 13-POCH-2.6 | Phosphorus, Total (As P) | mg/l | 4 | 0.120 | 0.120 | 0.033 | 0.154 | 0.087 |
| 13-POCH-2.6 | Turbidity | ntu | 4 | 5.543 | 5.730 | 3.010 | 8.670 | 2.040 |

In-Situ Measurements: 13-POCH-2.6

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-POCH-2.6

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-POCH-2.6 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.12 | 0 | 0.087 | 0.154 | 0.12 | Aquatic Chronic |

### Site ID: 13-POCH-1.8

Chemistry Measurements: 13-POCH-1.8

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-POCH-1.8 | Alkalinity, Total (As Caco3) | mg/l | 9 | 127.378 | 115.000 | 41.947 | 196.00 | 74.00 |
| 13-POCH-1.8 | Aluminum | ug/l | 9 | 303.778 | 296.000 | 134.674 | 533.00 | 143.00 |
| 13-POCH-1.8 | Arsenic | ug/l | 9 | 1.321 | 1.300 | 0.348 | 2.00 | 0.69 |
| 13-POCH-1.8 | Cadmium | ug/l | 9 | 0.090 | 0.090 | NA | NA | NA |
| 13-POCH-1.8 | Calcium | ug/l | 9 | 39255.556 | 33800.000 | 12821.380 | 59400.00 | 23800.00 |
| 13-POCH-1.8 | Chloride (As Cl) | mg/l | 9 | 66.167 | 66.900 | 22.007 | 96.80 | 30.50 |
| 13-POCH-1.8 | Chlorophyll A | ug/l | 9 | 3.597 | 2.020 | 3.695 | 12.90 | 1.45 |
| 13-POCH-1.8 | Copper | ug/l | 9 | 2.522 | 2.600 | 0.642 | 3.50 | 1.60 |
| 13-POCH-1.8 | Hardness (As Caco3) | mg/l | 9 | 159.733 | 138.000 | 54.050 | 246.00 | 97.60 |
| 13-POCH-1.8 | Iron | ug/l | 9 | 835.889 | 742.000 | 413.674 | 1640.00 | 304.00 |
| 13-POCH-1.8 | Lead | ug/l | 9 | 1.203 | 1.095 | 0.359 | NA | NA |
| 13-POCH-1.8 | Magnesium | ug/l | 8 | 14066.250 | 12900.000 | 4911.616 | 23800.00 | 9230.00 |
| 13-POCH-1.8 | Nickel | ug/l | 9 | 1.303 | 1.300 | 0.269 | 1.80 | 0.93 |
| 13-POCH-1.8 | Nitrate+Nitrite As Nitrogen | mg/l | 9 | 0.484 | 0.480 | 0.177 | 0.80 | 0.27 |
| 13-POCH-1.8 | Nitrogen | mg/l | 9 | 1.114 | 1.150 | 0.298 | 1.52 | 0.65 |
| 13-POCH-1.8 | Nitrogen, Ammonia (As N) | mg/l | 9 | 0.050 | 0.050 | 0.023 | 0.09 | 0.02 |
| 13-POCH-1.8 | Nitrogen, Kjeldahl, Total | mg/l | 9 | 0.681 | 0.610 | 0.201 | 1.10 | 0.46 |
| 13-POCH-1.8 | Nitrogen, Nitrate (As N) | mg/l | 9 | 0.479 | 0.480 | 0.174 | 0.79 | 0.27 |
| 13-POCH-1.8 | Nitrogen, Nitrite | mg/l | 9 | 0.010 | 0.010 | 0.000 | NA | NA |
| 13-POCH-1.8 | Phosphorus, Total (As P) | mg/l | 9 | 0.128 | 0.120 | 0.027 | 0.17 | 0.09 |
| 13-POCH-1.8 | Silver | ug/l | 9 | NaN | NA | NA | NA | NA |
| 13-POCH-1.8 | Total Dissolved Solids (Residue, Filterable) | mg/l | 4 | 246.000 | 245.500 | 59.008 | 318.00 | 175.00 |
| 13-POCH-1.8 | Turbidity | ntu | 9 | 11.999 | 13.400 | 3.953 | 17.80 | 6.23 |
| 13-POCH-1.8 | Zinc | ug/l | 9 | 6.175 | 5.550 | 3.061 | NA | NA |

In-Situ Measurements: 13-POCH-1.8

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-POCH-1.8 | Chl\_RFU | RFU | 5 | 0.634 | 0.49 | 0.355 | 1.25 | 0.36 |
| 13-POCH-1.8 | Chl\_ugL | ug/L | 5 | 2.470 | 1.90 | 1.395 | 4.90 | 1.40 |
| 13-POCH-1.8 | CONDUCTANCE | uS/cm | 11 | 441.927 | 406.80 | 180.822 | 752.00 | 174.40 |
| 13-POCH-1.8 | DISSOLVED\_OXYGEN | mg/L | 11 | 6.405 | 6.15 | 2.248 | 9.31 | 2.40 |
| 13-POCH-1.8 | PC\_RFU | RFU | 5 | 0.100 | 0.02 | 0.175 | 0.40 | -0.04 |
| 13-POCH-1.8 | PC\_ugL | ug/L | 5 | 0.114 | 0.07 | 0.166 | 0.40 | 0.00 |
| 13-POCH-1.8 | PCT\_SATURATION | % | 11 | 71.009 | 70.10 | 23.028 | 107.60 | 28.00 |
| 13-POCH-1.8 | PH | std units | 11 | 7.765 | 7.75 | 0.431 | 8.90 | 7.30 |
| 13-POCH-1.8 | SALINITY | ppt | 11 | 0.213 | 0.19 | 0.091 | 0.37 | 0.08 |
| 13-POCH-1.8 | TEMPERATURE | deg C | 11 | 21.091 | 22.10 | 4.348 | 26.70 | 11.60 |

Water Quality Standard Exceedances: 13-POCH-1.8

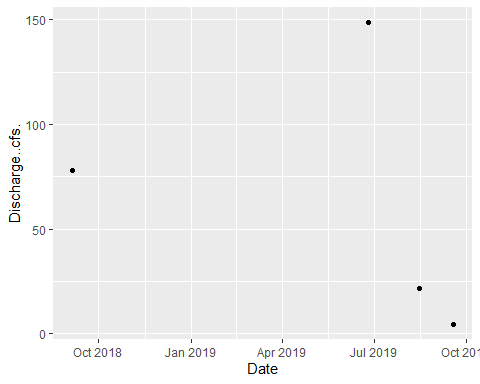
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-POCH-1.8 | 2018 | dissolved\_oxygen | mg/l | >=5 | 2.4 |
| 13-POCH-1.8 | 2018 | dissolved\_oxygen | mg/l | >=5 | 3.6 |
| 13-POCH-1.8 | 2018 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2018 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2018 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2018 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2018 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2018 | ph | ph\_units | <=8.5 | 8.9 |
| 13-POCH-1.8 | 2019 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2019 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2019 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2019 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2019 | dissolved\_oxygen | mg/l | >=4 | 2.4 |
| 13-POCH-1.8 | 2019 | dissolved\_oxygen | mg/l | >=4 | 2.4 |

Numeric Nutrient Criteria: 13-POCH-1.8

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-POCH-1.8 | PHOSPHORUS, TOTAL (AS P) | 9 | 0.128 | 0 | 0.09 | 0.17 | 0.12 | Aquatic Chronic |

BAP Score: 13-POCH-1.8

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-POCH-1.8 | 8/28/2018 | 5.50 | 0.48 | 4 |
| 13-POCH-1.8 | 8/8/2019 | 5.14 | 0.79 | 4 |



### Site ID: 13-RUTG-9.3

Chemistry Measurements: 13-RUTG-9.3

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RUTG-9.3 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.605 | 0.611 | 0.427 | 1.050 | 0.145 |
| 13-RUTG-9.3 | Nitrogen | mg/l | 4 | 1.150 | 1.150 | 0.322 | 1.490 | 0.810 |
| 13-RUTG-9.3 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.037 | 0.045 | 0.018 | 0.048 | 0.010 |
| 13-RUTG-9.3 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.547 | 0.470 | 0.176 | 0.810 | 0.440 |
| 13-RUTG-9.3 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.597 | 0.606 | 0.418 | 1.030 | 0.145 |
| 13-RUTG-9.3 | Nitrogen, Nitrite | mg/l | 4 | 0.014 | 0.014 | 0.005 | NA | NA |
| 13-RUTG-9.3 | Phosphorus, Total (As P) | mg/l | 4 | 0.055 | 0.049 | 0.020 | 0.083 | 0.036 |
| 13-RUTG-9.3 | Turbidity | ntu | 4 | 6.562 | 6.035 | 5.132 | 12.300 | 1.880 |

In-Situ Measurements: 13-RUTG-9.3

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-RUTG-9.3

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RUTG-9.3 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.055 | 0 | 0.036 | 0.083 | 0.049 | Aquatic Chronic |

### Site ID: 13-RUTG-1.5

Chemistry Measurements: 13-RUTG-1.5

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RUTG-1.5 | Alkalinity, Total (As Caco3) | mg/l | 10 | 79.900 | 80.200 | 31.479 | 130.00 | 46.40 |
| 13-RUTG-1.5 | Aluminum | ug/l | 10 | 385.380 | 146.500 | 473.672 | 1270.00 | 26.00 |
| 13-RUTG-1.5 | Arsenic | ug/l | 10 | 0.839 | 0.865 | 0.192 | 1.10 | 0.47 |
| 13-RUTG-1.5 | Cadmium | ug/l | 10 | 0.100 | 0.100 | NA | NA | NA |
| 13-RUTG-1.5 | Calcium | ug/l | 10 | 34580.000 | 34750.000 | 14528.883 | 58200.00 | 16700.00 |
| 13-RUTG-1.5 | Chloride (As Cl) | mg/l | 10 | 57.400 | 57.400 | 17.235 | 84.70 | 28.50 |
| 13-RUTG-1.5 | Chlorophyll A | ug/l | 10 | 2.483 | 1.110 | 2.582 | 7.53 | 0.77 |
| 13-RUTG-1.5 | Copper | ug/l | 10 | 1.968 | 1.550 | 1.076 | 4.00 | 0.93 |
| 13-RUTG-1.5 | Hardness (As Caco3) | mg/l | 10 | 108.100 | 108.450 | 43.699 | 180.00 | 54.00 |
| 13-RUTG-1.5 | Iron | ug/l | 10 | 896.790 | 601.500 | 896.689 | 2560.00 | 94.90 |
| 13-RUTG-1.5 | Lead | ug/l | 10 | 1.195 | 0.830 | 0.929 | NA | NA |
| 13-RUTG-1.5 | Magnesium | ug/l | 9 | 5174.444 | 4620.000 | 1879.735 | 8410.00 | 3000.00 |
| 13-RUTG-1.5 | Nickel | ug/l | 10 | 1.521 | 1.350 | 0.634 | 2.70 | 0.81 |
| 13-RUTG-1.5 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.348 | 0.400 | 0.188 | 0.58 | 0.00 |
| 13-RUTG-1.5 | Nitrogen | mg/l | 10 | 0.951 | 1.015 | 0.310 | 1.36 | 0.40 |
| 13-RUTG-1.5 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.020 | 0.020 | 0.008 | NA | NA |
| 13-RUTG-1.5 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.637 | 0.630 | 0.238 | 1.00 | 0.37 |
| 13-RUTG-1.5 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.386 | 0.430 | 0.150 | NA | NA |
| 13-RUTG-1.5 | Nitrogen, Nitrite | mg/l | 10 | 0.010 | 0.010 | NA | NA | NA |
| 13-RUTG-1.5 | Phosphorus, Total (As P) | mg/l | 10 | 0.090 | 0.075 | 0.046 | 0.17 | 0.04 |
| 13-RUTG-1.5 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-RUTG-1.5 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 194.200 | 168.000 | 59.579 | 263.00 | 134.00 |
| 13-RUTG-1.5 | Turbidity | ntu | 10 | 9.822 | 6.755 | 9.135 | 30.90 | 1.47 |
| 13-RUTG-1.5 | Zinc | ug/l | 10 | 8.560 | 7.400 | 4.943 | NA | NA |

In-Situ Measurements: 13-RUTG-1.5

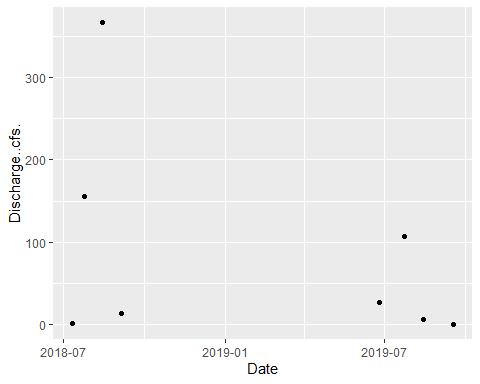
| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RUTG-1.5 | Chl\_RFU | RFU | 5 | 1.816 | 0.61 | 3.018 | 7.20 | 0.19 |
| 13-RUTG-1.5 | Chl\_ugL | ug/L | 5 | 1.968 | 2.29 | 0.896 | 2.80 | 0.80 |
| 13-RUTG-1.5 | CONDUCTANCE | uS/cm | 13 | 535.731 | 452.70 | 241.474 | 1126.00 | 306.90 |
| 13-RUTG-1.5 | DISSOLVED\_OXYGEN | mg/L | 13 | 9.246 | 8.98 | 1.370 | 12.40 | 7.80 |
| 13-RUTG-1.5 | PC\_RFU | RFU | 5 | 0.034 | 0.00 | 0.076 | 0.12 | -0.05 |
| 13-RUTG-1.5 | PC\_ugL | ug/L | 5 | 0.056 | 0.01 | 0.073 | 0.15 | 0.00 |
| 13-RUTG-1.5 | PCT\_SATURATION | % | 13 | 101.900 | 94.00 | 19.464 | 147.00 | 80.20 |
| 13-RUTG-1.5 | PH | std units | 12 | 7.907 | 7.89 | 0.272 | 8.46 | 7.42 |
| 13-RUTG-1.5 | SALINITY | ppt | 12 | 0.278 | 0.25 | 0.118 | 0.56 | 0.15 |
| 13-RUTG-1.5 | TEMPERATURE | deg C | 13 | 20.159 | 20.80 | 3.966 | 25.20 | 10.60 |

Numeric Nutrient Criteria: 13-RUTG-1.5

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RUTG-1.5 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.09 | 0 | 0.04 | 0.17 | 0.075 | Aquatic Chronic |

BAP Score: 13-RUTG-1.5

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-RUTG-1.5 | 8/28/2018 | 6.10 | 0.55 | 4 |
| 13-RUTG-1.5 | 8/8/2019 | 6.87 | 0.50 | 4 |



### Site ID: 13-QKER-0.9

Chemistry Measurements: 13-QKER-0.9

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-QKER-0.9 | Alkalinity, Total (As Caco3) | mg/l | 10 | 142.620 | 144.000 | 37.762 | 182.00 | 78.80 |
| 13-QKER-0.9 | Aluminum | ug/l | 10 | 373.700 | 395.500 | 176.590 | 681.00 | 138.00 |
| 13-QKER-0.9 | Arsenic | ug/l | 10 | 2.640 | 2.300 | 1.326 | 6.00 | 1.30 |
| 13-QKER-0.9 | Cadmium | ug/l | 10 | 1.525 | 1.525 | 1.945 | NA | NA |
| 13-QKER-0.9 | Calcium | ug/l | 5 | 46940.000 | 46400.000 | 8058.722 | 57900.00 | 35300.00 |
| 13-QKER-0.9 | Chloride (As Cl) | mg/l | 10 | 72.090 | 81.950 | 21.966 | 91.10 | 31.80 |
| 13-QKER-0.9 | Chlorophyll A | ug/l | 10 | 9.610 | 5.685 | 11.573 | 40.90 | 2.33 |
| 13-QKER-0.9 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 668.000 | 693.000 | 70.926 | 727.00 | 548.00 |
| 13-QKER-0.9 | Copper | ug/l | 10 | 6.250 | 5.250 | 3.259 | 14.20 | 3.40 |
| 13-QKER-0.9 | Hardness (As Caco3) | mg/l | 10 | 194.700 | 194.000 | 36.948 | 242.00 | 126.00 |
| 13-QKER-0.9 | Iron | ug/l | 10 | 802.800 | 856.500 | 341.463 | 1310.00 | 368.00 |
| 13-QKER-0.9 | Lead | ug/l | 10 | 0.996 | 0.945 | 0.409 | 1.90 | 0.49 |
| 13-QKER-0.9 | Magnesium | ug/l | 10 | 15157.000 | 15000.000 | 3484.193 | 19600.00 | 9270.00 |
| 13-QKER-0.9 | Nickel | ug/l | 10 | 2.490 | 2.600 | 0.784 | 3.60 | 1.20 |
| 13-QKER-0.9 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 2.044 | 1.440 | 1.884 | 7.28 | 0.94 |
| 13-QKER-0.9 | Nitrogen | mg/l | 5 | 4.248 | 2.990 | 3.345 | 10.10 | 1.67 |
| 13-QKER-0.9 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.102 | 0.110 | 0.048 | 0.16 | 0.03 |
| 13-QKER-0.9 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 1.468 | 1.350 | 0.802 | 2.81 | 0.73 |
| 13-QKER-0.9 | Nitrogen, Nitrate (As N) | mg/l | 10 | 2.005 | 1.390 | 1.883 | 7.24 | 0.91 |
| 13-QKER-0.9 | Nitrogen, Nitrite | mg/l | 10 | 0.040 | 0.040 | 0.012 | 0.06 | 0.02 |
| 13-QKER-0.9 | Ph | pH units | 5 | 7.798 | 7.820 | 0.144 | 8.00 | 7.60 |
| 13-QKER-0.9 | Phosphorus, Total (As P) | mg/l | 10 | 0.531 | 0.580 | 0.150 | 0.76 | 0.28 |
| 13-QKER-0.9 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-QKER-0.9 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 329.000 | 335.000 | 48.231 | 386.00 | 232.00 |
| 13-QKER-0.9 | Turbidity | ntu | 10 | 12.298 | 10.825 | 6.896 | 26.10 | 4.45 |
| 13-QKER-0.9 | Zinc | ug/l | 10 | 9.100 | 7.150 | 7.027 | 27.10 | 2.70 |

In-Situ Measurements: 13-QKER-0.9

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-QKER-0.9 | CONDUCTANCE | uS/cm | 11 | 497.518 | 460.00 | 281.949 | 1197.00 | 189.30 |
| 13-QKER-0.9 | DISSOLVED\_OXYGEN | mg/L | 11 | 7.304 | 7.70 | 3.962 | 14.00 | 0.40 |
| 13-QKER-0.9 | PCT\_SATURATION | % | 8 | 94.675 | 101.00 | 56.778 | 182.00 | 5.00 |
| 13-QKER-0.9 | PH | std units | 11 | 7.795 | 7.60 | 0.481 | 8.60 | 7.20 |
| 13-QKER-0.9 | SALINITY | ppt | 5 | 0.248 | 0.16 | 0.252 | 0.69 | 0.09 |
| 13-QKER-0.9 | TEMPERATURE | deg C | 11 | 21.330 | 21.20 | 4.122 | 28.40 | 14.90 |

Water Quality Standard Exceedances: 13-QKER-0.9

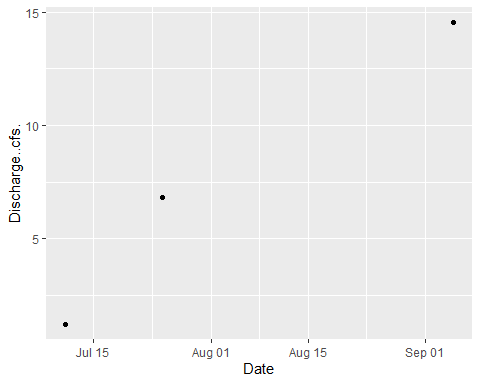
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-QKER-0.9 | 2017 | dissolved\_oxygen | mg/l | >=4 | 0.4 |
| 13-QKER-0.9 | 2018 | dissolved\_oxygen | mg/l | >=5 | 0.4 |
| 13-QKER-0.9 | 2018 | dissolved\_oxygen | mg/l | >=4 | 0.4 |
| 13-QKER-0.9 | 2018 | dissolved\_oxygen | mg/l | >=4 | 0.4 |
| 13-QKER-0.9 | 2018 | dissolved\_oxygen | mg/l | >=4 | 0.4 |
| 13-QKER-0.9 | 2018 | dissolved\_oxygen | mg/l | >=4 | 0.4 |
| 13-QKER-0.9 | 2018 | dissolved\_oxygen | mg/l | >=4 | 0.4 |
| 13-QKER-0.9 | 2018 | dissolved\_oxygen | mg/l | >=4 | 0.4 |
| 13-QKER-0.9 | 2018 | ph | ph\_units | <=8.5 | 8.6 |

Numeric Nutrient Criteria: 13-QKER-0.9

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-QKER-0.9 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.531 | 5 | 0.28 | 0.76 | 0.58 | Aquatic Chronic |

BAP Score: 13-QKER-0.9

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-QKER-0.9 | 8/2/2017 | 2.39 | 0.52 | 4 |



### Site ID: 13-RIOG-0.7

Chemistry Measurements: 13-RIOG-0.7

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RIOG-0.7 | Alkalinity, Total (As Caco3) | mg/l | 5 | 90.240 | 99.20 | 30.742 | 120.00 | 44.00 |
| 13-RIOG-0.7 | Aluminum | ug/l | 5 | 899.180 | 216.00 | 1416.571 | 3400.00 | 55.90 |
| 13-RIOG-0.7 | Arsenic | ug/l | 5 | 1.658 | 1.70 | 0.563 | 2.40 | 0.89 |
| 13-RIOG-0.7 | Cadmium | ug/l | 5 | 0.170 | 0.17 | 0.042 | NA | NA |
| 13-RIOG-0.7 | Calcium | ug/l | 5 | 50720.000 | 44800.00 | 17460.441 | 71700.00 | 34500.00 |
| 13-RIOG-0.7 | Chloride (As Cl) | mg/l | 5 | 169.600 | 136.00 | 75.119 | 270.00 | 86.00 |
| 13-RIOG-0.7 | Chlorophyll A | ug/l | 5 | 4.562 | 3.33 | 4.304 | 11.00 | 0.72 |
| 13-RIOG-0.7 | Copper | ug/l | 5 | 12.700 | 9.40 | 7.797 | 24.20 | 4.60 |
| 13-RIOG-0.7 | Hardness (As Caco3) | mg/l | 5 | 167.800 | 148.00 | 56.879 | 238.00 | 113.00 |
| 13-RIOG-0.7 | Iron | ug/l | 5 | 1987.600 | 498.00 | 2590.373 | 6410.00 | 392.00 |
| 13-RIOG-0.7 | Lead | ug/l | 5 | 10.844 | 2.70 | 16.647 | 40.00 | 0.82 |
| 13-RIOG-0.7 | Magnesium | ug/l | 5 | 9950.000 | 8710.00 | 3228.088 | 14300.00 | 6590.00 |
| 13-RIOG-0.7 | Nickel | ug/l | 5 | 3.220 | 2.60 | 2.010 | 6.60 | 1.40 |
| 13-RIOG-0.7 | Nitrate+Nitrite As Nitrogen | mg/l | 5 | 8.612 | 3.32 | 9.831 | 23.40 | 0.93 |
| 13-RIOG-0.7 | Nitrogen | mg/l | 5 | 9.832 | 5.98 | 9.568 | 24.20 | 1.69 |
| 13-RIOG-0.7 | Nitrogen, Ammonia (As N) | mg/l | 5 | 0.050 | 0.04 | 0.023 | 0.08 | 0.03 |
| 13-RIOG-0.7 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 1.224 | 0.84 | 0.813 | 2.66 | 0.76 |
| 13-RIOG-0.7 | Nitrogen, Nitrate (As N) | mg/l | 5 | 8.580 | 3.30 | 9.804 | 23.30 | 0.91 |
| 13-RIOG-0.7 | Nitrogen, Nitrite | mg/l | 5 | 0.028 | 0.02 | 0.013 | 0.05 | 0.02 |
| 13-RIOG-0.7 | Phosphorus, Total (As P) | mg/l | 5 | 1.210 | 1.00 | 0.975 | 2.67 | 0.25 |
| 13-RIOG-0.7 | Silver | ug/l | 5 | 0.133 | 0.06 | 0.136 | NA | NA |
| 13-RIOG-0.7 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 491.800 | 401.00 | 197.420 | 767.00 | 287.00 |
| 13-RIOG-0.7 | Turbidity | ntu | 5 | 25.270 | 9.43 | 42.497 | 101.00 | 2.30 |
| 13-RIOG-0.7 | Zinc | ug/l | 5 | 41.380 | 33.10 | 40.972 | 112.00 | 10.90 |

In-Situ Measurements: 13-RIOG-0.7

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RIOG-0.7 | CONDUCTANCE | uS/cm | 6 | 972.783 | 990.50 | 310.712 | 1402.00 | 469.70 |
| 13-RIOG-0.7 | DISSOLVED\_OXYGEN | mg/L | 6 | 7.808 | 7.88 | 1.103 | 9.09 | 6.65 |
| 13-RIOG-0.7 | PCT\_SATURATION | % | 6 | 90.750 | 85.10 | 13.518 | 108.20 | 79.50 |
| 13-RIOG-0.7 | PH | std units | 6 | 7.490 | 7.44 | 0.138 | 7.73 | 7.36 |
| 13-RIOG-0.7 | SALINITY | ppt | 6 | 0.482 | 0.49 | 0.158 | 0.70 | 0.23 |
| 13-RIOG-0.7 | TEMPERATURE | deg C | 6 | 22.033 | 23.45 | 3.088 | 24.70 | 16.30 |

Water Quality Standard Exceedances: 13-RIOG-0.7

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-RIOG-0.7 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 624 |
| 13-RIOG-0.7 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 767 |

Numeric Nutrient Criteria: 13-RIOG-0.7

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RIOG-0.7 | PHOSPHORUS, TOTAL (AS P) | 5 | 1.21 | 0 | 0.25 | 2.67 | 1 | Aquatic Chronic |



### Site ID: 13-RIOG\_T1-0.8

Chemistry Measurements: 13-RIOG\_T1-0.8

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RIOG\_T1-0.8 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.431 | 0.399 | 0.091 | 0.563 | 0.363 |
| 13-RIOG\_T1-0.8 | Nitrogen | mg/l | 4 | 1.138 | 1.075 | 0.236 | 1.450 | 0.950 |
| 13-RIOG\_T1-0.8 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.060 | 0.038 | 0.052 | 0.138 | 0.027 |
| 13-RIOG\_T1-0.8 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.705 | 0.610 | 0.246 | 1.070 | 0.530 |
| 13-RIOG\_T1-0.8 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.428 | 0.392 | 0.094 | 0.563 | 0.363 |
| 13-RIOG\_T1-0.8 | Nitrogen, Nitrite | mg/l | 4 | 0.014 | 0.014 | NA | NA | NA |
| 13-RIOG\_T1-0.8 | Phosphorus, Total (As P) | mg/l | 4 | 0.127 | 0.134 | 0.049 | 0.174 | 0.068 |
| 13-RIOG\_T1-0.8 | Turbidity | ntu | 4 | 4.772 | 2.680 | 5.201 | 12.500 | 1.230 |

In-Situ Measurements: 13-RIOG\_T1-0.8

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-RIOG\_T1-0.8

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-RIOG\_T1-0.8 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.127 | 0 | 0.068 | 0.174 | 0.134 | Aquatic Chronic |

### Site ID: 13-WCHEE-0.6

Chemistry Measurements: 13-WCHEE-0.6

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WCHEE-0.6 | Alkalinity, Total (As Caco3) | mg/l | 10 | 115.940 | 107.500 | 30.139 | 175.00 | 87.60 |
| 13-WCHEE-0.6 | Aluminum | ug/l | 10 | 650.200 | 618.500 | 320.549 | 1150.00 | 219.00 |
| 13-WCHEE-0.6 | Arsenic | ug/l | 10 | 1.636 | 1.700 | 0.530 | 2.60 | 0.85 |
| 13-WCHEE-0.6 | Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WCHEE-0.6 | Calcium | ug/l | 5 | 51080.000 | 46600.000 | 18581.631 | 72200.00 | 29100.00 |
| 13-WCHEE-0.6 | Chloride (As Cl) | mg/l | 10 | 185.310 | 207.000 | 78.539 | 260.00 | 33.80 |
| 13-WCHEE-0.6 | Chlorophyll A | ug/l | 10 | 4.433 | 2.380 | 4.534 | 12.30 | 0.88 |
| 13-WCHEE-0.6 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 1151.200 | 1170.000 | 142.363 | 1290.00 | 926.00 |
| 13-WCHEE-0.6 | Copper | ug/l | 10 | 7.860 | 7.450 | 2.851 | 13.80 | 4.10 |
| 13-WCHEE-0.6 | Hardness (As Caco3) | mg/l | 10 | 198.170 | 215.000 | 55.112 | 270.00 | 96.70 |
| 13-WCHEE-0.6 | Iron | ug/l | 10 | 1288.500 | 1200.000 | 643.257 | 2400.00 | 459.00 |
| 13-WCHEE-0.6 | Lead | ug/l | 10 | 4.580 | 4.200 | 2.488 | 9.70 | 1.50 |
| 13-WCHEE-0.6 | Magnesium | ug/l | 10 | 11084.000 | 12250.000 | 2961.877 | 14200.00 | 5850.00 |
| 13-WCHEE-0.6 | Nickel | ug/l | 10 | 3.560 | 3.450 | 1.242 | 5.40 | 1.40 |
| 13-WCHEE-0.6 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 6.837 | 2.445 | 7.043 | 19.00 | 0.64 |
| 13-WCHEE-0.6 | Nitrogen | mg/l | 5 | 8.364 | 3.680 | 8.367 | 19.90 | 1.35 |
| 13-WCHEE-0.6 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.098 | 0.075 | 0.074 | 0.28 | 0.03 |
| 13-WCHEE-0.6 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.972 | 1.000 | 0.170 | 1.18 | 0.71 |
| 13-WCHEE-0.6 | Nitrogen, Nitrate (As N) | mg/l | 10 | 6.781 | 2.315 | 7.048 | 19.00 | 0.61 |
| 13-WCHEE-0.6 | Nitrogen, Nitrite | mg/l | 10 | 0.056 | 0.035 | 0.070 | 0.25 | 0.01 |
| 13-WCHEE-0.6 | Ph | pH units | 5 | 7.752 | 7.720 | 0.321 | 8.28 | 7.41 |
| 13-WCHEE-0.6 | Phosphorus, Total (As P) | mg/l | 10 | 1.709 | 1.970 | 1.002 | 2.88 | 0.24 |
| 13-WCHEE-0.6 | Silver | ug/l | 10 | 0.082 | 0.085 | 0.017 | NA | NA |
| 13-WCHEE-0.6 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 544.000 | 608.500 | 146.339 | 713.00 | 250.00 |
| 13-WCHEE-0.6 | Turbidity | ntu | 10 | 28.201 | 22.500 | 21.228 | 62.50 | 3.50 |
| 13-WCHEE-0.6 | Zinc | ug/l | 10 | 34.320 | 33.550 | 17.627 | 72.80 | 9.90 |

In-Situ Measurements: 13-WCHEE-0.6

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WCHEE-0.6 | CONDUCTANCE | uS/cm | 7 | 676.700 | 777.000 | 246.206 | 1038.00 | 365.20 |
| 13-WCHEE-0.6 | DISSOLVED\_OXYGEN | mg/L | 7 | 6.210 | 6.300 | 0.622 | 6.97 | 5.50 |
| 13-WCHEE-0.6 | PCT\_SATURATION | % | 7 | 74.200 | 69.000 | 10.730 | 91.10 | 64.00 |
| 13-WCHEE-0.6 | PH | std units | 7 | 7.664 | 7.400 | 0.521 | 8.60 | 7.21 |
| 13-WCHEE-0.6 | SALINITY | ppt | 6 | 0.298 | 0.315 | 0.104 | 0.40 | 0.17 |
| 13-WCHEE-0.6 | TEMPERATURE | deg C | 7 | 23.700 | 23.800 | 3.753 | 28.50 | 16.90 |

Water Quality Standard Exceedances: 13-WCHEE-0.6

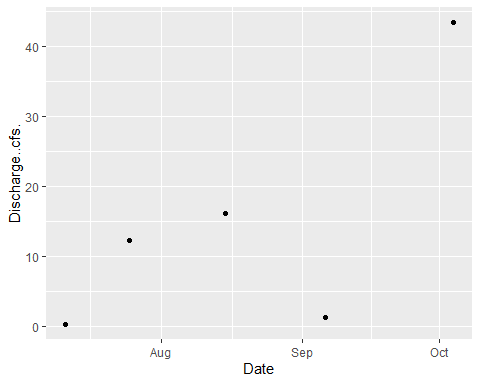
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WCHEE-0.6 | 2017 | total\_dissolved\_solids | mg/l | <=500 | 661.0 |
| 13-WCHEE-0.6 | 2017 | total\_dissolved\_solids | mg/l | <=500 | 599.0 |
| 13-WCHEE-0.6 | 2017 | total\_dissolved\_solids | mg/l | <=500 | 646.0 |
| 13-WCHEE-0.6 | 2017 | total\_dissolved\_solids | mg/l | <=500 | 642.0 |
| 13-WCHEE-0.6 | 2018 | ph | ph\_units | <=8.5 | 8.6 |
| 13-WCHEE-0.6 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 713.0 |
| 13-WCHEE-0.6 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 618.0 |

Numeric Nutrient Criteria: 13-WCHEE-0.6

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WCHEE-0.6 | PHOSPHORUS, TOTAL (AS P) | 10 | 1.709 | 10 | 0.24 | 2.88 | 1.97 | Aquatic Chronic |

BAP Score: 13-WCHEE-0.6

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WCHEE-0.6 | 8/2/2017 | 3.46 | 0.39 | 4 |
| 13-WCHEE-0.6 | 8/28/2018 | 3.21 | 1.07 | 4 |



### Site ID: 13-WALK-46.6

Chemistry Measurements: 13-WALK-46.6

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-46.6 | Alkalinity, Total (As Caco3) | mg/l | 10 | 130.300 | 144.500 | 38.224 | 168.00 | 74.80 |
| 13-WALK-46.6 | Aluminum | ug/l | 10 | 512.500 | 318.500 | 397.177 | 1200.00 | 158.00 |
| 13-WALK-46.6 | Arsenic | ug/l | 10 | 1.436 | 1.650 | 0.664 | 2.30 | 0.59 |
| 13-WALK-46.6 | Cadmium | ug/l | 10 | 0.105 | 0.105 | 0.049 | NA | NA |
| 13-WALK-46.6 | Calcium | ug/l | 5 | 40100.000 | 35300.000 | 12322.135 | 54700.00 | 28100.00 |
| 13-WALK-46.6 | Chloride (As Cl) | mg/l | 10 | 73.780 | 79.650 | 23.965 | 96.90 | 31.50 |
| 13-WALK-46.6 | Chlorophyll A | ug/l | 10 | 7.554 | 4.465 | 8.945 | 31.40 | 2.31 |
| 13-WALK-46.6 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 655.200 | 683.000 | 89.161 | 732.00 | 509.00 |
| 13-WALK-46.6 | Copper | ug/l | 10 | 3.520 | 2.700 | 1.508 | 5.90 | 2.00 |
| 13-WALK-46.6 | Hardness (As Caco3) | mg/l | 10 | 180.200 | 197.500 | 50.055 | 240.00 | 101.00 |
| 13-WALK-46.6 | Iron | ug/l | 10 | 1148.300 | 792.000 | 855.883 | 2740.00 | 426.00 |
| 13-WALK-46.6 | Lead | ug/l | 10 | 1.102 | 0.750 | 0.798 | 2.70 | 0.45 |
| 13-WALK-46.6 | Magnesium | ug/l | 10 | 14167.000 | 15500.000 | 4472.978 | 18700.00 | 7450.00 |
| 13-WALK-46.6 | Nickel | ug/l | 10 | 2.700 | 2.550 | 0.570 | 3.60 | 2.10 |
| 13-WALK-46.6 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 1.242 | 1.030 | 1.038 | 4.11 | 0.52 |
| 13-WALK-46.6 | Nitrogen | mg/l | 5 | 2.496 | 1.970 | 1.463 | 4.96 | 1.41 |
| 13-WALK-46.6 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.048 | 0.050 | 0.015 | 0.07 | 0.03 |
| 13-WALK-46.6 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.974 | 0.860 | 0.278 | 1.43 | 0.71 |
| 13-WALK-46.6 | Nitrogen, Nitrate (As N) | mg/l | 10 | 1.230 | 1.010 | 1.038 | 4.10 | 0.51 |
| 13-WALK-46.6 | Nitrogen, Nitrite | mg/l | 10 | 0.015 | 0.010 | 0.008 | NA | NA |
| 13-WALK-46.6 | Ph | pH units | 5 | 7.858 | 7.870 | 0.100 | 7.94 | 7.69 |
| 13-WALK-46.6 | Phosphorus, Total (As P) | mg/l | 10 | 0.150 | 0.120 | 0.076 | 0.30 | 0.08 |
| 13-WALK-46.6 | Silver | ug/l | 10 | 0.100 | 0.100 | NA | NA | NA |
| 13-WALK-46.6 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 309.300 | 344.000 | 69.493 | 379.00 | 190.00 |
| 13-WALK-46.6 | Turbidity | ntu | 10 | 18.595 | 12.850 | 15.088 | 51.80 | 4.62 |
| 13-WALK-46.6 | Zinc | ug/l | 10 | 11.630 | 6.750 | 7.933 | 25.80 | 5.40 |

In-Situ Measurements: 13-WALK-46.6

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-46.6 | CONDUCTANCE | uS/cm | 8 | 413.411 | 396.650 | 137.159 | 627.00 | 278.39 |
| 13-WALK-46.6 | DISSOLVED\_OXYGEN | mg/L | 8 | 7.867 | 7.550 | 1.264 | 10.30 | 6.34 |
| 13-WALK-46.6 | PCT\_SATURATION | % | 7 | 88.786 | 85.000 | 14.029 | 118.00 | 74.50 |
| 13-WALK-46.6 | PH | std units | 8 | 7.713 | 7.725 | 0.209 | 8.03 | 7.36 |
| 13-WALK-46.6 | SALINITY | ppt | 6 | 0.183 | 0.150 | 0.070 | 0.31 | 0.13 |
| 13-WALK-46.6 | TEMPERATURE | deg C | 8 | 21.087 | 22.400 | 3.306 | 24.20 | 15.30 |

Numeric Nutrient Criteria: 13-WALK-46.6

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-46.6 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.15 | 5 | 0.08 | 0.3 | 0.12 | Aquatic Chronic |

BAP Score: 13-WALK-46.6

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-46.6 | 8/2/2017 | 4.12 | 0.23 | 4 |

### Site ID: 13-MONH-4.1

Chemistry Measurements: 13-MONH-4.1

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MONH-4.1 | Alkalinity, Total (As Caco3) | mg/l | 5 | 113.160 | 120.00 | 34.726 | 150.00 | 70.80 |
| 13-MONH-4.1 | Aluminum | ug/l | 5 | 205.300 | 157.00 | 186.277 | 463.00 | 25.10 |
| 13-MONH-4.1 | Arsenic | ug/l | 5 | 1.224 | 1.20 | 0.209 | 1.50 | 0.92 |
| 13-MONH-4.1 | Cadmium | ug/l | 5 | 0.600 | 0.60 | NA | NA | NA |
| 13-MONH-4.1 | Calcium | ug/l | 5 | 54080.000 | 52800.00 | 21686.332 | 79200.00 | 32400.00 |
| 13-MONH-4.1 | Chloride (As Cl) | mg/l | 5 | 140.860 | 98.40 | 108.208 | 292.00 | 32.60 |
| 13-MONH-4.1 | Chlorophyll A | ug/l | 5 | 2.068 | 1.94 | 1.026 | 3.67 | 1.07 |
| 13-MONH-4.1 | Copper | ug/l | 5 | 5.580 | 5.30 | 1.431 | 7.90 | 4.00 |
| 13-MONH-4.1 | Hardness (As Caco3) | mg/l | 5 | 167.200 | 162.00 | 67.563 | 247.00 | 100.00 |
| 13-MONH-4.1 | Iron | ug/l | 5 | 517.400 | 422.00 | 311.520 | 848.00 | 220.00 |
| 13-MONH-4.1 | Lead | ug/l | 5 | 1.940 | 0.98 | 1.663 | 3.90 | 0.58 |
| 13-MONH-4.1 | Magnesium | ug/l | 5 | 7814.000 | 7310.00 | 3278.106 | 12000.00 | 4680.00 |
| 13-MONH-4.1 | Nickel | ug/l | 5 | 1.712 | 1.90 | 0.576 | 2.40 | 0.96 |
| 13-MONH-4.1 | Nitrate+Nitrite As Nitrogen | mg/l | 5 | 0.716 | 0.62 | 0.343 | 1.31 | 0.43 |
| 13-MONH-4.1 | Nitrogen | mg/l | 5 | 1.372 | 1.16 | 0.424 | 2.11 | 1.08 |
| 13-MONH-4.1 | Nitrogen, Ammonia (As N) | mg/l | 5 | 0.086 | 0.08 | 0.069 | 0.19 | 0.02 |
| 13-MONH-4.1 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.654 | 0.72 | 0.167 | 0.80 | 0.42 |
| 13-MONH-4.1 | Nitrogen, Nitrate (As N) | mg/l | 5 | 0.664 | 0.62 | 0.250 | 1.08 | 0.42 |
| 13-MONH-4.1 | Nitrogen, Nitrite | mg/l | 5 | 0.093 | 0.02 | 0.127 | NA | NA |
| 13-MONH-4.1 | Phosphorus, Total (As P) | mg/l | 5 | 0.088 | 0.08 | 0.045 | 0.16 | 0.05 |
| 13-MONH-4.1 | Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| 13-MONH-4.1 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 443.600 | 416.00 | 188.410 | 700.00 | 252.00 |
| 13-MONH-4.1 | Turbidity | ntu | 5 | 8.464 | 5.21 | 7.991 | 19.60 | 1.47 |
| 13-MONH-4.1 | Zinc | ug/l | 5 | 13.400 | 9.10 | 10.842 | 29.20 | 3.10 |

In-Situ Measurements: 13-MONH-4.1

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MONH-4.1 | CONDUCTANCE | uS/cm | 9 | 1005.222 | 1112.00 | 387.433 | 1430.00 | 310.00 |
| 13-MONH-4.1 | DISSOLVED\_OXYGEN | mg/L | 9 | 8.703 | 8.30 | 1.436 | 11.90 | 7.30 |
| 13-MONH-4.1 | PCT\_SATURATION | % | 7 | 91.957 | 89.00 | 7.006 | 105.00 | 86.00 |
| 13-MONH-4.1 | PH | std units | 8 | 7.808 | 7.86 | 0.372 | 8.50 | 7.32 |
| 13-MONH-4.1 | SALINITY | ppt | 7 | 0.576 | 0.61 | 0.141 | 0.72 | 0.36 |
| 13-MONH-4.1 | TEMPERATURE | deg C | 9 | 20.222 | 19.40 | 2.046 | 23.50 | 17.40 |

Water Quality Standard Exceedances: 13-MONH-4.1

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-MONH-4.1 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 563 |
| 13-MONH-4.1 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 700 |

Numeric Nutrient Criteria: 13-MONH-4.1

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MONH-4.1 | PHOSPHORUS, TOTAL (AS P) | 5 | 0.088 | 5 | 0.05 | 0.16 | 0.08 | Aquatic Chronic |

BAP Score: 13-MONH-4.1

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-MONH-4.1 | 7/26/2017 | 4.41 | NA | 1 |
| 13-MONH-4.1 | 8/27/2018 | 3.83 | 0.51 | 4 |



### Site ID: 13-MONH-0.4

Chemistry Measurements: 13-MONH-0.4

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MONH-0.4 | Alkalinity, Total (As Caco3) | mg/l | 10 | 133.780 | 132.500 | 24.026 | 172.00 | 94.80 |
| 13-MONH-0.4 | Aluminum | ug/l | 10 | 237.856 | 172.000 | 332.070 | NA | NA |
| 13-MONH-0.4 | Arsenic | ug/l | 10 | 1.323 | 1.200 | 0.579 | NA | NA |
| 13-MONH-0.4 | Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-MONH-0.4 | Calcium | ug/l | 5 | 61320.000 | 50500.000 | 22331.301 | 85800.00 | 37000.00 |
| 13-MONH-0.4 | Chloride (As Cl) | mg/l | 10 | 188.070 | 189.000 | 68.746 | 298.00 | 75.70 |
| 13-MONH-0.4 | Chlorophyll A | ug/l | 10 | 3.914 | 2.555 | 3.641 | 11.30 | 0.83 |
| 13-MONH-0.4 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 999.000 | 984.000 | 146.871 | 1190.00 | 838.00 |
| 13-MONH-0.4 | Copper | ug/l | 10 | 3.910 | 3.600 | 1.271 | 7.20 | 2.70 |
| 13-MONH-0.4 | Hardness (As Caco3) | mg/l | 10 | 208.900 | 216.500 | 57.206 | 268.00 | 115.00 |
| 13-MONH-0.4 | Iron | ug/l | 10 | 580.600 | 413.000 | 707.371 | 2510.00 | 116.00 |
| 13-MONH-0.4 | Lead | ug/l | 10 | 2.118 | 1.200 | 2.468 | NA | NA |
| 13-MONH-0.4 | Magnesium | ug/l | 10 | 9457.000 | 9090.000 | 2521.622 | 13000.00 | 5540.00 |
| 13-MONH-0.4 | Nickel | ug/l | 10 | 2.410 | 2.300 | 0.780 | 3.50 | 1.40 |
| 13-MONH-0.4 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.287 | 0.270 | 0.091 | 0.44 | 0.16 |
| 13-MONH-0.4 | Nitrogen | mg/l | 5 | 0.952 | 0.930 | 0.104 | 1.08 | 0.82 |
| 13-MONH-0.4 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.020 | 0.020 | 0.007 | 0.03 | 0.01 |
| 13-MONH-0.4 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.612 | 0.560 | 0.136 | 0.80 | 0.46 |
| 13-MONH-0.4 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.287 | 0.270 | 0.091 | 0.44 | 0.16 |
| 13-MONH-0.4 | Nitrogen, Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| 13-MONH-0.4 | Ph | pH units | 5 | 8.082 | 8.010 | 0.248 | 8.46 | 7.82 |
| 13-MONH-0.4 | Phosphorus, Total (As P) | mg/l | 10 | 0.089 | 0.085 | 0.025 | 0.15 | 0.06 |
| 13-MONH-0.4 | Silver | ug/l | 10 | 0.075 | 0.075 | 0.035 | NA | NA |
| 13-MONH-0.4 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 493.200 | 485.000 | 134.831 | 699.00 | 270.00 |
| 13-MONH-0.4 | Turbidity | ntu | 10 | 6.678 | 2.770 | 9.771 | 33.20 | 1.16 |
| 13-MONH-0.4 | Zinc | ug/l | 10 | 6.978 | 5.100 | 5.722 | NA | NA |

In-Situ Measurements: 13-MONH-0.4

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MONH-0.4 | CONDUCTANCE | uS/cm | 9 | 733.110 | 727.000 | 257.542 | 1073.00 | 400.00 |
| 13-MONH-0.4 | DISSOLVED\_OXYGEN | mg/L | 9 | 8.056 | 8.100 | 0.918 | 9.30 | 6.70 |
| 13-MONH-0.4 | PCT\_SATURATION | % | 6 | 89.333 | 92.000 | 9.564 | 97.00 | 71.00 |
| 13-MONH-0.4 | PH | std units | 8 | 7.697 | 7.665 | 0.448 | 8.30 | 6.90 |
| 13-MONH-0.4 | SALINITY | ppt | 5 | 0.324 | 0.280 | 0.104 | 0.44 | 0.22 |
| 13-MONH-0.4 | TEMPERATURE | deg C | 9 | 19.822 | 20.500 | 3.205 | 23.70 | 15.40 |

Water Quality Standard Exceedances: 13-MONH-0.4

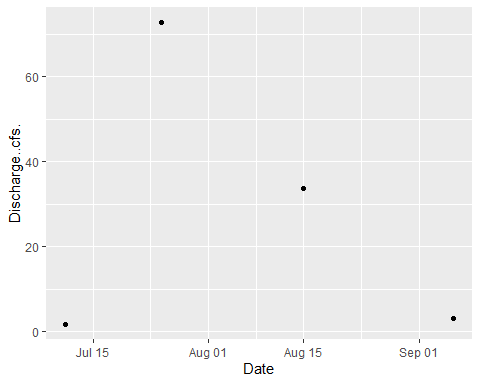
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-MONH-0.4 | 2017 | total\_dissolved\_solids | mg/l | <=500 | 564 |
| 13-MONH-0.4 | 2017 | total\_dissolved\_solids | mg/l | <=500 | 644 |
| 13-MONH-0.4 | 2017 | total\_dissolved\_solids | mg/l | <=500 | 525 |
| 13-MONH-0.4 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 592 |
| 13-MONH-0.4 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 699 |

Numeric Nutrient Criteria: 13-MONH-0.4

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MONH-0.4 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.089 | 0 | 0.06 | 0.15 | 0.085 | Aquatic Chronic |

BAP Score: 13-MONH-0.4

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-MONH-0.4 | 8/2/2017 | 5.78 | 0.31 | 4 |
| 13-MONH-0.4 | 8/27/2018 | 5.35 | 0.52 | 4 |



### Site ID: 13-LGUN-6.0

Chemistry Measurements: 13-LGUN-6.0

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-LGUN-6.0 | Alkalinity, Total (As Caco3) | mg/l | 5 | 46.080 | 46.80 | 7.769 | 53.60 | 35.60 |
| 13-LGUN-6.0 | Aluminum | ug/l | 5 | 168.840 | 98.10 | 136.337 | 368.00 | 49.20 |
| 13-LGUN-6.0 | Arsenic | ug/l | 5 | 0.802 | 0.86 | 0.180 | 1.00 | 0.54 |
| 13-LGUN-6.0 | Cadmium | ug/l | 5 | 0.570 | 0.57 | NA | NA | NA |
| 13-LGUN-6.0 | Calcium | ug/l | 5 | 19000.000 | 19200.00 | 2623.928 | 21400.00 | 14700.00 |
| 13-LGUN-6.0 | Chloride (As Cl) | mg/l | 5 | 34.080 | 33.80 | 7.440 | 42.20 | 23.00 |
| 13-LGUN-6.0 | Chlorophyll A | ug/l | 5 | 3.114 | 2.23 | 2.410 | 6.95 | 0.78 |
| 13-LGUN-6.0 | Copper | ug/l | 5 | 16.600 | 14.30 | 7.799 | 29.10 | 8.40 |
| 13-LGUN-6.0 | Hardness (As Caco3) | mg/l | 5 | 61.120 | 62.50 | 8.037 | 68.00 | 48.00 |
| 13-LGUN-6.0 | Iron | ug/l | 5 | 640.000 | 587.00 | 388.574 | 1200.00 | 234.00 |
| 13-LGUN-6.0 | Lead | ug/l | 5 | 0.676 | 0.78 | 0.368 | 1.00 | 0.16 |
| 13-LGUN-6.0 | Magnesium | ug/l | 5 | 3318.000 | 3510.00 | 372.048 | 3660.00 | 2760.00 |
| 13-LGUN-6.0 | Nickel | ug/l | 5 | 1.188 | 1.30 | 0.392 | 1.60 | 0.54 |
| 13-LGUN-6.0 | Nitrate+Nitrite As Nitrogen | mg/l | 5 | 0.102 | 0.08 | 0.062 | 0.19 | 0.04 |
| 13-LGUN-6.0 | Nitrogen | mg/l | 5 | 0.622 | 0.65 | 0.074 | 0.69 | 0.52 |
| 13-LGUN-6.0 | Nitrogen, Ammonia (As N) | mg/l | 5 | 0.020 | 0.02 | 0.010 | 0.03 | 0.01 |
| 13-LGUN-6.0 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.518 | 0.49 | 0.064 | 0.63 | 0.48 |
| 13-LGUN-6.0 | Nitrogen, Nitrate (As N) | mg/l | 5 | 0.102 | 0.08 | 0.062 | 0.19 | 0.04 |
| 13-LGUN-6.0 | Nitrogen, Nitrite | mg/l | 5 | NaN | NA | NA | NA | NA |
| 13-LGUN-6.0 | Phosphorus, Total (As P) | mg/l | 5 | 0.044 | 0.05 | 0.015 | 0.06 | 0.02 |
| 13-LGUN-6.0 | Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| 13-LGUN-6.0 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 137.000 | 138.00 | 11.292 | 149.00 | 125.00 |
| 13-LGUN-6.0 | Turbidity | ntu | 5 | 5.280 | 3.91 | 4.484 | 13.20 | 2.24 |
| 13-LGUN-6.0 | Zinc | ug/l | 5 | 5.250 | 5.30 | 0.998 | NA | NA |

In-Situ Measurements: 13-LGUN-6.0

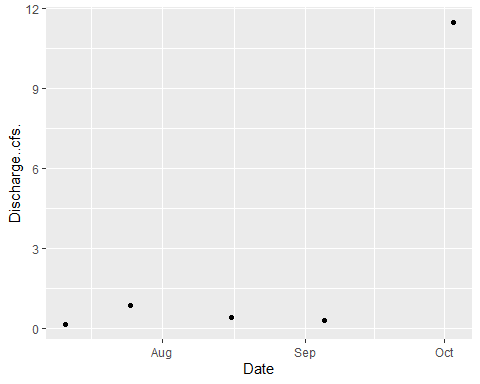
| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-LGUN-6.0 | CONDUCTANCE | uS/cm | 4 | 3577.350 | 350.200 | 6534.781 | 13379.00 | 230.00 |
| 13-LGUN-6.0 | DISSOLVED\_OXYGEN | mg/L | 4 | 7.753 | 7.705 | 0.903 | 8.90 | 6.70 |
| 13-LGUN-6.0 | PCT\_SATURATION | % | 4 | 92.750 | 92.500 | 10.874 | 104.00 | 82.00 |
| 13-LGUN-6.0 | PH | std units | 4 | 7.852 | 7.860 | 0.314 | 8.19 | 7.50 |
| 13-LGUN-6.0 | SALINITY | ppt | 4 | 2.042 | 0.165 | 3.792 | 7.73 | 0.11 |
| 13-LGUN-6.0 | TEMPERATURE | deg C | 4 | 23.700 | 23.100 | 3.294 | 27.70 | 20.90 |

Numeric Nutrient Criteria: 13-LGUN-6.0

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-LGUN-6.0 | PHOSPHORUS, TOTAL (AS P) | 5 | 0.044 | 4 | 0.02 | 0.06 | 0.05 | Aquatic Chronic |

BAP Score: 13-LGUN-6.0

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-LGUN-6.0 | 8/27/2018 | 3.09 | 1.13 | 4 |



### Site ID: 13-GUNK-40.3

Chemistry Measurements: 13-GUNK-40.3

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-40.3 | Alkalinity, Total (As Caco3) | mg/l | 5 | 46.880 | 40.80 | 14.674 | 64.40 | 33.20 |
| 13-GUNK-40.3 | Aluminum | ug/l | 5 | 268.980 | 317.00 | 172.457 | 508.00 | 89.90 |
| 13-GUNK-40.3 | Arsenic | ug/l | 5 | 0.886 | 0.90 | 0.173 | 1.10 | 0.63 |
| 13-GUNK-40.3 | Cadmium | ug/l | 5 | 0.550 | 0.55 | NA | NA | NA |
| 13-GUNK-40.3 | Calcium | ug/l | 5 | 20340.000 | 18700.00 | 7100.915 | 27700.00 | 12200.00 |
| 13-GUNK-40.3 | Chloride (As Cl) | mg/l | 5 | 51.400 | 46.80 | 20.275 | 80.10 | 28.70 |
| 13-GUNK-40.3 | Chlorophyll A | ug/l | 5 | 2.132 | 1.63 | 1.795 | 5.25 | 0.89 |
| 13-GUNK-40.3 | Copper | ug/l | 5 | 3.360 | 3.00 | 1.218 | 4.70 | 2.20 |
| 13-GUNK-40.3 | Hardness (As Caco3) | mg/l | 5 | 66.860 | 62.00 | 22.887 | 91.30 | 40.90 |
| 13-GUNK-40.3 | Iron | ug/l | 5 | 704.000 | 663.00 | 411.792 | 1340.00 | 206.00 |
| 13-GUNK-40.3 | Lead | ug/l | 5 | 0.678 | 0.72 | 0.331 | 1.10 | 0.29 |
| 13-GUNK-40.3 | Magnesium | ug/l | 5 | 3894.000 | 3690.00 | 1258.424 | 5340.00 | 2500.00 |
| 13-GUNK-40.3 | Nickel | ug/l | 5 | 1.152 | 1.20 | 0.218 | 1.40 | 0.88 |
| 13-GUNK-40.3 | Nitrate+Nitrite As Nitrogen | mg/l | 5 | 0.128 | 0.07 | 0.147 | 0.39 | 0.05 |
| 13-GUNK-40.3 | Nitrogen | mg/l | 5 | 0.782 | 0.71 | 0.187 | 1.09 | 0.63 |
| 13-GUNK-40.3 | Nitrogen, Ammonia (As N) | mg/l | 5 | 0.024 | 0.02 | 0.011 | 0.04 | 0.01 |
| 13-GUNK-40.3 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.656 | 0.61 | 0.226 | 1.03 | 0.43 |
| 13-GUNK-40.3 | Nitrogen, Nitrate (As N) | mg/l | 5 | 0.128 | 0.07 | 0.147 | 0.39 | 0.05 |
| 13-GUNK-40.3 | Nitrogen, Nitrite | mg/l | 5 | NaN | NA | NA | NA | NA |
| 13-GUNK-40.3 | Phosphorus, Total (As P) | mg/l | 5 | 0.070 | 0.06 | 0.020 | 0.10 | 0.05 |
| 13-GUNK-40.3 | Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| 13-GUNK-40.3 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 174.400 | 169.00 | 40.759 | 226.00 | 124.00 |
| 13-GUNK-40.3 | Turbidity | ntu | 5 | 10.964 | 9.21 | 7.329 | 19.20 | 3.75 |
| 13-GUNK-40.3 | Zinc | ug/l | 5 | 4.475 | 4.35 | 1.410 | NA | NA |

In-Situ Measurements: 13-GUNK-40.3

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-40.3 | CONDUCTANCE | uS/cm | 6 | 637.950 | 582.600 | 342.001 | 1083.00 | 299.00 |
| 13-GUNK-40.3 | DISSOLVED\_OXYGEN | mg/L | 6 | 7.358 | 7.580 | 1.084 | 8.50 | 5.30 |
| 13-GUNK-40.3 | PCT\_SATURATION | % | 6 | 86.167 | 89.750 | 12.794 | 101.00 | 65.00 |
| 13-GUNK-40.3 | PH | std units | 6 | 7.627 | 7.635 | 0.488 | 8.39 | 7.03 |
| 13-GUNK-40.3 | SALINITY | ppt | 6 | 0.310 | 0.280 | 0.172 | 0.54 | 0.14 |
| 13-GUNK-40.3 | TEMPERATURE | deg C | 6 | 22.467 | 23.200 | 2.575 | 25.30 | 17.80 |

Water Quality Standard Exceedances: 13-GUNK-40.3

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-GUNK-40.3 | 2018 | iron | ug/l | <=300 | 663 |
| 13-GUNK-40.3 | 2018 | iron | ug/l | <=300 | 1340 |
| 13-GUNK-40.3 | 2018 | iron | ug/l | <=300 | 754 |
| 13-GUNK-40.3 | 2018 | iron | ug/l | <=300 | 557 |

Numeric Nutrient Criteria: 13-GUNK-40.3

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-40.3 | PHOSPHORUS, TOTAL (AS P) | 5 | 0.07 | 5 | 0.05 | 0.1 | 0.06 | Aquatic Chronic |
| 13-GUNK-40.3 | PHOSPHORUS, TOTAL (AS P) | 5 | 0.07 | 5 | 0.05 | 0.1 | 0.06 | Health-Water Supply |

BAP Score: 13-GUNK-40.3

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-GUNK-40.3 | 8/27/2018 | 4.54 | 0.58 | 4 |

### Site ID: 13-GUNK-37.7

Chemistry Measurements: 13-GUNK-37.7

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-37.7 | Alkalinity, Total (As Caco3) | mg/l | 5 | 71.400 | 4.52e+01 | 62.090 | 181.00 | 35.20 |
| 13-GUNK-37.7 | Aluminum | ug/l | 5 | 225.200 | 1.25e+02 | 153.030 | 419.00 | 97.00 |
| 13-GUNK-37.7 | Arsenic | ug/l | 5 | 2.370 | 1.40e+00 | 2.783 | 7.30 | 0.60 |
| 13-GUNK-37.7 | Cadmium | ug/l | 5 | 0.345 | 3.45e-01 | 0.361 | NA | NA |
| 13-GUNK-37.7 | Calcium | ug/l | 5 | 25860.000 | 1.78e+04 | 20853.129 | 62700.00 | 12100.00 |
| 13-GUNK-37.7 | Chloride (As Cl) | mg/l | 5 | 84.120 | 4.15e+01 | 107.029 | 275.00 | 23.90 |
| 13-GUNK-37.7 | Chlorophyll A | ug/l | 5 | 12.300 | 5.78e+00 | 15.596 | 38.60 | 1.19 |
| 13-GUNK-37.7 | Copper | ug/l | 5 | 4.000 | 2.90e+00 | 2.273 | 7.80 | 2.30 |
| 13-GUNK-37.7 | Hardness (As Caco3) | mg/l | 5 | 82.840 | 5.81e+01 | 64.630 | 197.00 | 40.30 |
| 13-GUNK-37.7 | Iron | ug/l | 5 | 1997.200 | 7.76e+02 | 2547.162 | 6520.00 | 593.00 |
| 13-GUNK-37.7 | Lead | ug/l | 5 | 0.994 | 6.50e-01 | 0.739 | 2.20 | 0.45 |
| 13-GUNK-37.7 | Magnesium | ug/l | 5 | 4446.000 | 3.31e+03 | 3111.018 | 9940.00 | 2430.00 |
| 13-GUNK-37.7 | Nickel | ug/l | 5 | 1.532 | 1.30e+00 | 0.842 | 3.00 | 0.96 |
| 13-GUNK-37.7 | Nitrate+Nitrite As Nitrogen | mg/l | 5 | 0.112 | 1.30e-01 | 0.069 | 0.20 | 0.02 |
| 13-GUNK-37.7 | Nitrogen | mg/l | 5 | 2.176 | 8.10e-01 | 2.967 | 7.47 | 0.69 |
| 13-GUNK-37.7 | Nitrogen, Ammonia (As N) | mg/l | 5 | 0.046 | 6.00e-02 | 0.024 | 0.07 | 0.02 |
| 13-GUNK-37.7 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 2.068 | 7.40e-01 | 3.020 | 7.46 | 0.56 |
| 13-GUNK-37.7 | Nitrogen, Nitrate (As N) | mg/l | 5 | 0.110 | 1.30e-01 | 0.066 | 0.19 | 0.02 |
| 13-GUNK-37.7 | Nitrogen, Nitrite | mg/l | 5 | 0.010 | 1.00e-02 | NA | NA | NA |
| 13-GUNK-37.7 | Phosphorus, Total (As P) | mg/l | 5 | 0.246 | 1.00e-01 | 0.322 | 0.82 | 0.07 |
| 13-GUNK-37.7 | Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| 13-GUNK-37.7 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 254.800 | 1.57e+02 | 249.929 | 700.00 | 109.00 |
| 13-GUNK-37.7 | Turbidity | ntu | 5 | 22.460 | 6.81e+00 | 35.618 | 86.10 | 3.95 |
| 13-GUNK-37.7 | Zinc | ug/l | 5 | 5.920 | 4.00e+00 | 4.833 | 14.30 | 2.70 |

In-Situ Measurements: 13-GUNK-37.7

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-37.7 | CONDUCTANCE | uS/cm | 6 | 1668.750 | 976.500 | 2323.719 | 6314.00 | 206.50 |
| 13-GUNK-37.7 | DISSOLVED\_OXYGEN | mg/L | 6 | 8.288 | 8.915 | 1.579 | 9.80 | 6.20 |
| 13-GUNK-37.7 | PCT\_SATURATION | % | 6 | 96.917 | 99.100 | 14.656 | 111.70 | 80.00 |
| 13-GUNK-37.7 | PH | std units | 6 | 7.352 | 7.460 | 0.439 | 7.77 | 6.56 |
| 13-GUNK-37.7 | SALINITY | ppt | 6 | 0.875 | 0.480 | 1.278 | 3.44 | 0.10 |
| 13-GUNK-37.7 | TEMPERATURE | deg C | 6 | 22.750 | 23.650 | 4.075 | 27.10 | 16.60 |

Water Quality Standard Exceedances: 13-GUNK-37.7

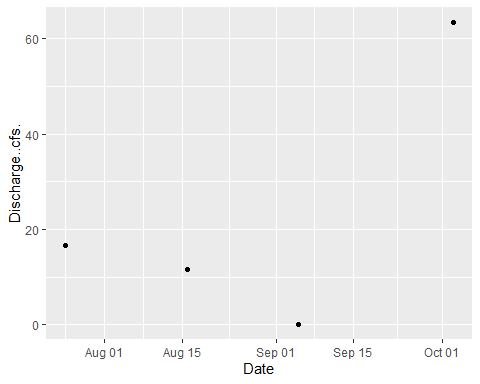
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-GUNK-37.7 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 700 |

Numeric Nutrient Criteria: 13-GUNK-37.7

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-37.7 | PHOSPHORUS, TOTAL (AS P) | 5 | 0.246 | 5 | 0.07 | 0.82 | 0.1 | Aquatic Chronic |

BAP Score: 13-GUNK-37.7

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-GUNK-37.7 | 8/27/2018 | 2.44 | 0.47 | 4 |



### Site ID: 13-GUNK\_T35-0.2

Chemistry Measurements: 13-GUNK\_T35-0.2

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK\_T35-0.2 | Alkalinity, Total (As Caco3) | mg/l | 5 | 60.960 | 56.80 | 28.614 | 98.80 | 34.00 |
| 13-GUNK\_T35-0.2 | Aluminum | ug/l | 5 | 490.800 | 263.00 | 652.975 | 1640.00 | 85.70 |
| 13-GUNK\_T35-0.2 | Arsenic | ug/l | 5 | 1.100 | 0.85 | 0.680 | 2.30 | 0.62 |
| 13-GUNK\_T35-0.2 | Cadmium | ug/l | 5 | 0.320 | 0.32 | 0.339 | NA | NA |
| 13-GUNK\_T35-0.2 | Calcium | ug/l | 5 | 23660.000 | 19900.00 | 11370.268 | 40000.00 | 11300.00 |
| 13-GUNK\_T35-0.2 | Chloride (As Cl) | mg/l | 5 | 51.680 | 34.90 | 36.447 | 111.00 | 18.20 |
| 13-GUNK\_T35-0.2 | Chlorophyll A | ug/l | 5 | 40.636 | 3.13 | 85.752 | 194.00 | 0.45 |
| 13-GUNK\_T35-0.2 | Copper | ug/l | 5 | 3.160 | 2.40 | 1.674 | 5.90 | 1.90 |
| 13-GUNK\_T35-0.2 | Hardness (As Caco3) | mg/l | 5 | 77.000 | 64.50 | 36.725 | 130.00 | 37.40 |
| 13-GUNK\_T35-0.2 | Iron | ug/l | 5 | 1130.800 | 606.00 | 1287.770 | 3430.00 | 454.00 |
| 13-GUNK\_T35-0.2 | Lead | ug/l | 5 | 1.286 | 0.73 | 1.494 | 3.90 | 0.32 |
| 13-GUNK\_T35-0.2 | Magnesium | ug/l | 5 | 4348.000 | 3580.00 | 2030.374 | 7330.00 | 2250.00 |
| 13-GUNK\_T35-0.2 | Nickel | ug/l | 5 | 1.768 | 1.30 | 1.312 | 4.10 | 0.94 |
| 13-GUNK\_T35-0.2 | Nitrate+Nitrite As Nitrogen | mg/l | 5 | 0.232 | 0.23 | 0.029 | 0.28 | 0.21 |
| 13-GUNK\_T35-0.2 | Nitrogen | mg/l | 5 | 0.910 | 0.80 | 0.195 | 1.20 | 0.74 |
| 13-GUNK\_T35-0.2 | Nitrogen, Ammonia (As N) | mg/l | 5 | 0.048 | 0.03 | 0.052 | 0.14 | 0.01 |
| 13-GUNK\_T35-0.2 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.678 | 0.58 | 0.196 | 0.97 | 0.52 |
| 13-GUNK\_T35-0.2 | Nitrogen, Nitrate (As N) | mg/l | 5 | 0.230 | 0.22 | 0.029 | 0.28 | 0.21 |
| 13-GUNK\_T35-0.2 | Nitrogen, Nitrite | mg/l | 5 | 0.010 | 0.01 | NA | NA | NA |
| 13-GUNK\_T35-0.2 | Phosphorus, Total (As P) | mg/l | 5 | 0.106 | 0.09 | 0.049 | 0.19 | 0.06 |
| 13-GUNK\_T35-0.2 | Silver | ug/l | 5 | NaN | NA | NA | NA | NA |
| 13-GUNK\_T35-0.2 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 186.400 | 150.00 | 84.465 | 319.00 | 103.00 |
| 13-GUNK\_T35-0.2 | Turbidity | ntu | 5 | 19.000 | 5.20 | 31.304 | 74.90 | 3.08 |
| 13-GUNK\_T35-0.2 | Zinc | ug/l | 5 | 8.040 | 4.50 | 8.290 | 22.40 | 2.50 |

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

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK\_T35-0.2 | CONDUCTANCE | uS/cm | 6 | 550.732 | 614.00 | 210.762 | 790.00 | 284.39 |
| 13-GUNK\_T35-0.2 | DISSOLVED\_OXYGEN | mg/L | 6 | 8.977 | 7.19 | 3.084 | 13.10 | 6.78 |
| 13-GUNK\_T35-0.2 | PCT\_SATURATION | % | 6 | 107.583 | 84.50 | 42.342 | 163.00 | 74.50 |
| 13-GUNK\_T35-0.2 | PH | std units | 6 | 7.800 | 7.85 | 0.408 | 8.30 | 7.30 |
| 13-GUNK\_T35-0.2 | SALINITY | ppt | 5 | 0.242 | 0.29 | 0.095 | 0.34 | 0.14 |
| 13-GUNK\_T35-0.2 | TEMPERATURE | deg C | 6 | 23.600 | 24.80 | 3.706 | 26.80 | 17.30 |

Numeric Nutrient Criteria: 13-GUNK\_T35-0.2

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK\_T35-0.2 | PHOSPHORUS, TOTAL (AS P) | 5 | 0.106 | 5 | 0.06 | 0.19 | 0.09 | Aquatic Chronic |

BAP Score: 13-GUNK\_T35-0.2

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-GUNK\_T35-0.2 | 8/27/2018 | 4.68 | 1.02 | 4 |

### Site ID: 13-MASO-2.8

Chemistry Measurements: 13-MASO-2.8

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MASO-2.8 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.231 | 0.228 | 0.124 | 0.381 | 0.088 |
| 13-MASO-2.8 | Nitrogen | mg/l | 4 | 0.950 | 0.940 | 0.110 | 1.090 | 0.830 |
| 13-MASO-2.8 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.021 | 0.016 | 0.015 | 0.043 | 0.009 |
| 13-MASO-2.8 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.723 | 0.695 | 0.142 | 0.910 | 0.590 |
| 13-MASO-2.8 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.231 | 0.228 | 0.124 | 0.381 | 0.089 |
| 13-MASO-2.8 | Nitrogen, Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| 13-MASO-2.8 | Phosphorus, Total (As P) | mg/l | 4 | 0.098 | 0.068 | 0.074 | 0.208 | 0.050 |
| 13-MASO-2.8 | Turbidity | ntu | 4 | 4.570 | 2.415 | 4.836 | 11.800 | 1.650 |

In-Situ Measurements: 13-MASO-2.8

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MASO-2.8 | CONDUCTANCE | uS/cm | 1 | 605.00 | 605.00 | NA | 605.00 | 605.00 |
| 13-MASO-2.8 | DISSOLVED\_OXYGEN | mg/L | 1 | 7.50 | 7.50 | NA | 7.50 | 7.50 |
| 13-MASO-2.8 | PH | std units | 1 | 7.36 | 7.36 | NA | 7.36 | 7.36 |
| 13-MASO-2.8 | TEMPERATURE | deg C | 1 | 18.30 | 18.30 | NA | 18.30 | 18.30 |

Numeric Nutrient Criteria: 13-MASO-2.8

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MASO-2.8 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.098 | 0 | 0.05 | 0.208 | 0.068 | Aquatic Chronic |

### Site ID: 13-MASO-0.2

Chemistry Measurements: 13-MASO-0.2

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MASO-0.2 | Alkalinity, Total (As Caco3) | mg/l | 5 | 110.880 | 116.00 | 38.645 | 149.00 | 59.20 |
| 13-MASO-0.2 | Aluminum | ug/l | 5 | 350.400 | 163.00 | 365.552 | 983.00 | 116.00 |
| 13-MASO-0.2 | Arsenic | ug/l | 5 | 1.462 | 1.50 | 0.425 | 2.00 | 0.91 |
| 13-MASO-0.2 | Cadmium | ug/l | 5 | NaN | NA | NA | NA | NA |
| 13-MASO-0.2 | Calcium | ug/l | 5 | 55320.000 | 47400.00 | 19394.252 | 80300.00 | 32600.00 |
| 13-MASO-0.2 | Chloride (As Cl) | mg/l | 5 | 140.480 | 116.00 | 84.155 | 269.00 | 56.70 |
| 13-MASO-0.2 | Chlorophyll A | ug/l | 5 | 20.920 | 17.30 | 21.801 | 55.60 | 1.84 |
| 13-MASO-0.2 | Copper | ug/l | 5 | 3.280 | 3.30 | 0.991 | 4.70 | 2.30 |
| 13-MASO-0.2 | Hardness (As Caco3) | mg/l | 5 | 169.600 | 141.00 | 61.893 | 251.00 | 102.00 |
| 13-MASO-0.2 | Iron | ug/l | 5 | 1053.200 | 826.00 | 687.932 | 2120.00 | 453.00 |
| 13-MASO-0.2 | Lead | ug/l | 5 | 1.372 | 0.86 | 1.258 | 3.50 | 0.50 |
| 13-MASO-0.2 | Magnesium | ug/l | 5 | 7610.000 | 6130.00 | 3456.682 | 12300.00 | 4510.00 |
| 13-MASO-0.2 | Nickel | ug/l | 5 | 1.980 | 2.00 | 0.482 | 2.60 | 1.30 |
| 13-MASO-0.2 | Nitrate+Nitrite As Nitrogen | mg/l | 5 | 0.226 | 0.20 | 0.110 | 0.40 | 0.11 |
| 13-MASO-0.2 | Nitrogen | mg/l | 5 | 0.936 | 0.93 | 0.214 | 1.22 | 0.72 |
| 13-MASO-0.2 | Nitrogen, Ammonia (As N) | mg/l | 5 | 0.014 | 0.01 | 0.005 | 0.02 | 0.01 |
| 13-MASO-0.2 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.708 | 0.67 | 0.229 | 1.10 | 0.54 |
| 13-MASO-0.2 | Nitrogen, Nitrate (As N) | mg/l | 5 | 0.226 | 0.20 | 0.110 | 0.40 | 0.11 |
| 13-MASO-0.2 | Nitrogen, Nitrite | mg/l | 5 | NaN | NA | NA | NA | NA |
| 13-MASO-0.2 | Phosphorus, Total (As P) | mg/l | 5 | 0.066 | 0.07 | 0.005 | 0.07 | 0.06 |
| 13-MASO-0.2 | Silver | ug/l | 5 | 0.110 | 0.11 | NA | NA | NA |
| 13-MASO-0.2 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 391.600 | 324.00 | 159.890 | 621.00 | 225.00 |
| 13-MASO-0.2 | Turbidity | ntu | 5 | 13.806 | 8.22 | 16.024 | 41.60 | 2.08 |
| 13-MASO-0.2 | Zinc | ug/l | 5 | 9.920 | 8.50 | 7.737 | 22.80 | 3.20 |

In-Situ Measurements: 13-MASO-0.2

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MASO-0.2 | CONDUCTANCE | uS/cm | 6 | 748.365 | 577.145 | 457.313 | 1605.00 | 411.60 |
| 13-MASO-0.2 | DISSOLVED\_OXYGEN | mg/L | 6 | 7.958 | 8.200 | 2.033 | 10.10 | 4.95 |
| 13-MASO-0.2 | PCT\_SATURATION | % | 6 | 85.983 | 92.900 | 18.976 | 105.00 | 58.10 |
| 13-MASO-0.2 | PH | std units | 6 | 7.318 | 7.395 | 0.531 | 7.97 | 6.60 |
| 13-MASO-0.2 | SALINITY | ppt | 6 | 0.370 | 0.280 | 0.234 | 0.81 | 0.20 |
| 13-MASO-0.2 | TEMPERATURE | deg C | 6 | 18.717 | 17.600 | 3.701 | 24.00 | 14.60 |

Water Quality Standard Exceedances: 13-MASO-0.2

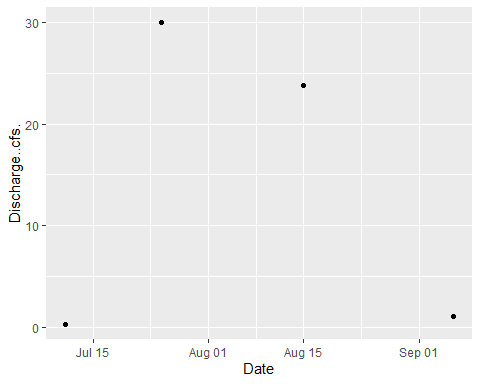
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-MASO-0.2 | 2018 | dissolved\_oxygen | mg/l | >=5 | 4.95 |
| 13-MASO-0.2 | 2018 | total\_dissolved\_solids | mg/l | <=500 | 621.00 |

Numeric Nutrient Criteria: 13-MASO-0.2

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-MASO-0.2 | PHOSPHORUS, TOTAL (AS P) | 5 | 0.066 | 0 | 0.06 | 0.07 | 0.07 | Aquatic Chronic |

BAP Score: 13-MASO-0.2

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-MASO-0.2 | 8/27/2018 | 5.6 | 0.83 | 4 |



### Site ID: 13-WALK-44.4

Chemistry Measurements: 13-WALK-44.4

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-44.4 | Alkalinity, Total (As Caco3) | mg/l | 10 | 114.120 | 113.500 | 37.499 | 166.00 | 65.20 |
| 13-WALK-44.4 | Aluminum | ug/l | 10 | 583.900 | 349.000 | 564.773 | 1660.00 | 104.00 |
| 13-WALK-44.4 | Arsenic | ug/l | 10 | 1.880 | 1.750 | 0.494 | 2.80 | 1.30 |
| 13-WALK-44.4 | Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WALK-44.4 | Calcium | ug/l | 10 | 43250.000 | 39950.000 | 13098.028 | 64200.00 | 28300.00 |
| 13-WALK-44.4 | Chloride (As Cl) | mg/l | 10 | 71.520 | 67.800 | 29.029 | 110.00 | 33.60 |
| 13-WALK-44.4 | Chlorophyll A | ug/l | 10 | 5.621 | 2.995 | 6.571 | 22.00 | 1.28 |
| 13-WALK-44.4 | Copper | ug/l | 10 | 4.820 | 4.550 | 1.275 | 6.90 | 2.70 |
| 13-WALK-44.4 | Hardness (As Caco3) | mg/l | 10 | 160.800 | 153.500 | 51.281 | 241.00 | 101.00 |
| 13-WALK-44.4 | Iron | ug/l | 10 | 1323.500 | 1012.500 | 1132.113 | 3040.00 | 208.00 |
| 13-WALK-44.4 | Lead | ug/l | 10 | 1.721 | 1.500 | 1.003 | NA | NA |
| 13-WALK-44.4 | Magnesium | ug/l | 9 | 12398.889 | 12900.000 | 4705.487 | 19500.00 | 7240.00 |
| 13-WALK-44.4 | Nickel | ug/l | 10 | 2.420 | 2.150 | 0.962 | 4.10 | 1.20 |
| 13-WALK-44.4 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 1.716 | 1.350 | 1.216 | 4.76 | 0.60 |
| 13-WALK-44.4 | Nitrogen | mg/l | 10 | 2.522 | 2.450 | 1.163 | 5.48 | 1.34 |
| 13-WALK-44.4 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.053 | 0.040 | 0.032 | NA | NA |
| 13-WALK-44.4 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.868 | 0.760 | 0.322 | 1.60 | 0.56 |
| 13-WALK-44.4 | Nitrogen, Nitrate (As N) | mg/l | 10 | 1.701 | 1.330 | 1.214 | 4.74 | 0.59 |
| 13-WALK-44.4 | Nitrogen, Nitrite | mg/l | 10 | 0.018 | 0.020 | 0.007 | NA | NA |
| 13-WALK-44.4 | Phosphorus, Total (As P) | mg/l | 10 | 0.246 | 0.235 | 0.088 | 0.45 | 0.14 |
| 13-WALK-44.4 | Silver | ug/l | 10 | 0.160 | 0.160 | NA | NA | NA |
| 13-WALK-44.4 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 282.200 | 247.000 | 84.236 | 404.00 | 195.00 |
| 13-WALK-44.4 | Turbidity | ntu | 10 | 24.687 | 11.250 | 21.085 | 63.30 | 8.22 |
| 13-WALK-44.4 | Zinc | ug/l | 10 | 12.850 | 11.200 | 8.649 | 26.00 | 3.90 |

In-Situ Measurements: 13-WALK-44.4

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-44.4 | Chl\_RFU | RFU | 4 | 0.870 | 0.840 | 0.512 | 1.51 | 0.29 |
| 13-WALK-44.4 | Chl\_ugL | ug/L | 4 | 3.520 | 3.360 | 2.056 | 6.10 | 1.26 |
| 13-WALK-44.4 | CONDUCTANCE | uS/cm | 11 | 532.609 | 469.400 | 195.929 | 948.00 | 241.20 |
| 13-WALK-44.4 | DISSOLVED\_OXYGEN | mg/L | 11 | 7.085 | 7.130 | 1.331 | 9.95 | 4.70 |
| 13-WALK-44.4 | PC\_RFU | RFU | 4 | -0.005 | -0.015 | 0.066 | 0.08 | -0.07 |
| 13-WALK-44.4 | PC\_ugL | ug/L | 4 | 0.027 | 0.000 | 0.084 | 0.15 | -0.04 |
| 13-WALK-44.4 | PCT\_SATURATION | % | 11 | 78.973 | 80.200 | 10.870 | 97.80 | 58.00 |
| 13-WALK-44.4 | PH | std units | 11 | 7.515 | 7.520 | 0.239 | 8.02 | 7.22 |
| 13-WALK-44.4 | SALINITY | ppt | 10 | 0.262 | 0.245 | 0.103 | 0.47 | 0.11 |
| 13-WALK-44.4 | TEMPERATURE | deg C | 11 | 21.045 | 22.100 | 3.297 | 25.70 | 14.50 |

Numeric Nutrient Criteria: 13-WALK-44.4

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-44.4 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.246 | 5 | 0.14 | 0.45 | 0.235 | Aquatic Chronic |

BAP Score: 13-WALK-44.4

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-44.4 | 9/6/2018 | 3.53 | 0.2 | 4 |

### Site ID: 13-WALK-35.6

Chemistry Measurements: 13-WALK-35.6

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-35.6 | Alkalinity, Total (As Caco3) | mg/l | 10 | 126.820 | 142.000 | 31.409 | 158.00 | 79.20 |
| 13-WALK-35.6 | Aluminum | ug/l | 10 | 498.300 | 244.000 | 503.857 | 1530.00 | 90.00 |
| 13-WALK-35.6 | Arsenic | ug/l | 10 | 1.481 | 1.550 | 0.654 | 2.20 | 0.43 |
| 13-WALK-35.6 | Cadmium | ug/l | 10 | 0.590 | 0.590 | NA | NA | NA |
| 13-WALK-35.6 | Calcium | ug/l | 5 | 42520.000 | 36200.000 | 10955.455 | 55700.00 | 32700.00 |
| 13-WALK-35.6 | Chloride (As Cl) | mg/l | 10 | 81.930 | 81.550 | 26.275 | 115.00 | 42.70 |
| 13-WALK-35.6 | Chlorophyll A | ug/l | 10 | 6.706 | 2.560 | 9.922 | 32.90 | 1.68 |
| 13-WALK-35.6 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 679.000 | 706.000 | 83.732 | 762.00 | 540.00 |
| 13-WALK-35.6 | Copper | ug/l | 10 | 4.360 | 4.100 | 1.345 | 6.30 | 2.70 |
| 13-WALK-35.6 | Hardness (As Caco3) | mg/l | 10 | 179.900 | 199.500 | 41.996 | 230.00 | 117.00 |
| 13-WALK-35.6 | Iron | ug/l | 10 | 1035.400 | 606.500 | 963.220 | 2830.00 | 140.00 |
| 13-WALK-35.6 | Lead | ug/l | 10 | 1.362 | 0.825 | 1.091 | 3.50 | 0.46 |
| 13-WALK-35.6 | Magnesium | ug/l | 10 | 13577.000 | 15200.000 | 3419.662 | 17200.00 | 8560.00 |
| 13-WALK-35.6 | Nickel | ug/l | 10 | 2.800 | 2.650 | 0.657 | 3.70 | 1.80 |
| 13-WALK-35.6 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 1.100 | 1.295 | 0.492 | 1.59 | 0.21 |
| 13-WALK-35.6 | Nitrogen | mg/l | 5 | 2.216 | 2.440 | 0.488 | 2.77 | 1.62 |
| 13-WALK-35.6 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.041 | 0.045 | 0.017 | 0.06 | 0.01 |
| 13-WALK-35.6 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 1.078 | 0.940 | 0.271 | 1.55 | 0.90 |
| 13-WALK-35.6 | Nitrogen, Nitrate (As N) | mg/l | 10 | 1.087 | 1.275 | 0.489 | 1.59 | 0.21 |
| 13-WALK-35.6 | Nitrogen, Nitrite | mg/l | 10 | 0.019 | 0.020 | 0.004 | NA | NA |
| 13-WALK-35.6 | Ph | pH units | 5 | 7.866 | 7.920 | 0.138 | 8.02 | 7.71 |
| 13-WALK-35.6 | Phosphorus, Total (As P) | mg/l | 10 | 0.213 | 0.205 | 0.044 | 0.32 | 0.16 |
| 13-WALK-35.6 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WALK-35.6 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 326.900 | 340.500 | 70.510 | 418.00 | 226.00 |
| 13-WALK-35.6 | Turbidity | ntu | 10 | 14.801 | 9.065 | 14.838 | 47.30 | 3.33 |
| 13-WALK-35.6 | Zinc | ug/l | 10 | 11.170 | 8.200 | 5.894 | 21.40 | 5.50 |

In-Situ Measurements: 13-WALK-35.6

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-35.6 | CONDUCTANCE | uS/cm | 9 | 520.789 | 575.00 | 113.770 | 663.00 | 294.10 |
| 13-WALK-35.6 | DISSOLVED\_OXYGEN | mg/L | 9 | 7.707 | 7.60 | 0.872 | 9.65 | 6.70 |
| 13-WALK-35.6 | PCT\_SATURATION | % | 7 | 87.143 | 87.00 | 8.688 | 100.00 | 76.00 |
| 13-WALK-35.6 | PH | std units | 9 | 7.652 | 7.60 | 0.257 | 8.20 | 7.32 |
| 13-WALK-35.6 | SALINITY | ppt | 6 | 0.242 | 0.25 | 0.065 | 0.32 | 0.14 |
| 13-WALK-35.6 | TEMPERATURE | deg C | 9 | 22.822 | 24.30 | 3.442 | 26.00 | 16.90 |

Numeric Nutrient Criteria: 13-WALK-35.6

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-35.6 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.213 | 0 | 0.16 | 0.32 | 0.205 | Aquatic Chronic |

BAP Score: 13-WALK-35.6

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-35.6 | 8/3/2017 | 5.29 | 0.46 | 4 |

### Site ID: 13-WALK-29.9

Chemistry Measurements: 13-WALK-29.9

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-29.9 | Alkalinity, Total (As Caco3) | mg/l | 10 | 124.040 | 128.000 | 21.833 | 156.00 | 88.80 |
| 13-WALK-29.9 | Aluminum | ug/l | 10 | 361.010 | 234.000 | 295.137 | 1010.00 | 95.10 |
| 13-WALK-29.9 | Arsenic | ug/l | 10 | 1.323 | 1.200 | 0.770 | 2.70 | 0.41 |
| 13-WALK-29.9 | Cadmium | ug/l | 10 | 0.590 | 0.590 | NA | NA | NA |
| 13-WALK-29.9 | Calcium | ug/l | 5 | 44920.000 | 45500.000 | 6776.577 | 52600.00 | 34700.00 |
| 13-WALK-29.9 | Chloride (As Cl) | mg/l | 10 | 83.500 | 88.800 | 20.795 | 108.00 | 48.50 |
| 13-WALK-29.9 | Chlorophyll A | ug/l | 10 | 18.961 | 5.150 | 40.338 | 132.00 | 0.69 |
| 13-WALK-29.9 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 632.400 | 648.000 | 58.037 | 678.00 | 531.00 |
| 13-WALK-29.9 | Copper | ug/l | 10 | 3.980 | 3.700 | 1.416 | 7.40 | 2.50 |
| 13-WALK-29.9 | Hardness (As Caco3) | mg/l | 10 | 175.700 | 179.500 | 27.475 | 214.00 | 126.00 |
| 13-WALK-29.9 | Iron | ug/l | 10 | 762.200 | 513.500 | 720.467 | 2540.00 | 116.00 |
| 13-WALK-29.9 | Lead | ug/l | 10 | 1.065 | 0.715 | 0.812 | 3.10 | 0.48 |
| 13-WALK-29.9 | Magnesium | ug/l | 10 | 13148.000 | 13100.000 | 2605.148 | 17800.00 | 9490.00 |
| 13-WALK-29.9 | Nickel | ug/l | 10 | 2.380 | 2.200 | 0.786 | 4.00 | 1.60 |
| 13-WALK-29.9 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 1.205 | 1.205 | 0.586 | 2.53 | 0.31 |
| 13-WALK-29.9 | Nitrogen | mg/l | 5 | 2.380 | 2.090 | 0.965 | 4.08 | 1.78 |
| 13-WALK-29.9 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.034 | 0.035 | 0.014 | 0.06 | 0.02 |
| 13-WALK-29.9 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 1.122 | 0.890 | 0.371 | 1.55 | 0.78 |
| 13-WALK-29.9 | Nitrogen, Nitrate (As N) | mg/l | 10 | 1.196 | 1.195 | 0.586 | 2.51 | 0.29 |
| 13-WALK-29.9 | Nitrogen, Nitrite | mg/l | 10 | 0.015 | 0.015 | 0.005 | NA | NA |
| 13-WALK-29.9 | Ph | pH units | 5 | 7.942 | 7.960 | 0.149 | 8.11 | 7.78 |
| 13-WALK-29.9 | Phosphorus, Total (As P) | mg/l | 10 | 0.192 | 0.175 | 0.070 | 0.34 | 0.11 |
| 13-WALK-29.9 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WALK-29.9 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 325.000 | 335.500 | 51.108 | 406.00 | 231.00 |
| 13-WALK-29.9 | Turbidity | ntu | 10 | 9.485 | 7.370 | 5.605 | 22.10 | 3.34 |
| 13-WALK-29.9 | Zinc | ug/l | 10 | 8.340 | 5.800 | 6.300 | 24.70 | 3.60 |

In-Situ Measurements: 13-WALK-29.9

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-29.9 | CONDUCTANCE | uS/cm | 7 | 451.671 | 423.50 | 106.438 | 627.00 | 350.20 |
| 13-WALK-29.9 | DISSOLVED\_OXYGEN | mg/L | 7 | 7.034 | 6.74 | 0.708 | 8.20 | 6.40 |
| 13-WALK-29.9 | PCT\_SATURATION | % | 7 | 82.143 | 79.00 | 10.574 | 100.00 | 68.00 |
| 13-WALK-29.9 | PH | std units | 7 | 7.589 | 7.60 | 0.143 | 7.74 | 7.39 |
| 13-WALK-29.9 | SALINITY | ppt | 7 | 0.216 | 0.20 | 0.051 | 0.30 | 0.17 |
| 13-WALK-29.9 | TEMPERATURE | deg C | 7 | 22.486 | 23.30 | 2.561 | 25.40 | 17.50 |

Numeric Nutrient Criteria: 13-WALK-29.9

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-29.9 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.192 | 5 | 0.11 | 0.34 | 0.175 | Aquatic Chronic |

BAP Score: 13-WALK-29.9

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-29.9 | 8/27/2018 | 4.84 | 0.57 | 4 |
| 13-WALK-29.9 | 8/3/2017 | 5.69 | 0.38 | 4 |

### Site ID: 13-TINW-0.5

Chemistry Measurements: 13-TINW-0.5

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-TINW-0.5 | Alkalinity, Total (As Caco3) | mg/l | 10 | 97.160 | 95.700 | 24.920 | 131.00 | 66.40 |
| 13-TINW-0.5 | Aluminum | ug/l | 10 | 227.920 | 140.000 | 221.647 | 685.00 | 27.20 |
| 13-TINW-0.5 | Arsenic | ug/l | 10 | 1.071 | 1.150 | 0.280 | 1.50 | 0.68 |
| 13-TINW-0.5 | Cadmium | ug/l | 10 | 0.560 | 0.560 | NA | NA | NA |
| 13-TINW-0.5 | Calcium | ug/l | 10 | 40940.000 | 39550.000 | 10103.707 | 54500.00 | 26000.00 |
| 13-TINW-0.5 | Chloride (As Cl) | mg/l | 10 | 65.460 | 61.450 | 21.492 | 102.00 | 37.10 |
| 13-TINW-0.5 | Chlorophyll A | ug/l | 10 | 3.074 | 2.085 | 2.956 | 9.57 | 0.50 |
| 13-TINW-0.5 | Copper | ug/l | 10 | 3.250 | 2.800 | 1.768 | 7.40 | 1.70 |
| 13-TINW-0.5 | Hardness (As Caco3) | mg/l | 10 | 127.320 | 122.500 | 31.080 | 170.00 | 81.20 |
| 13-TINW-0.5 | Iron | ug/l | 10 | 737.180 | 522.500 | 590.832 | 1590.00 | 83.80 |
| 13-TINW-0.5 | Lead | ug/l | 10 | 1.664 | 1.400 | 0.992 | NA | NA |
| 13-TINW-0.5 | Magnesium | ug/l | 9 | 5983.333 | 5360.000 | 1455.644 | 8210.00 | 3990.00 |
| 13-TINW-0.5 | Nickel | ug/l | 10 | 1.308 | 1.245 | 0.410 | 1.90 | 0.81 |
| 13-TINW-0.5 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.333 | 0.350 | 0.176 | 0.56 | 0.03 |
| 13-TINW-0.5 | Nitrogen | mg/l | 10 | 0.877 | 0.945 | 0.230 | 1.18 | 0.44 |
| 13-TINW-0.5 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.019 | 0.020 | 0.007 | NA | NA |
| 13-TINW-0.5 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.576 | 0.615 | 0.174 | 0.80 | 0.22 |
| 13-TINW-0.5 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.333 | 0.350 | 0.176 | 0.56 | 0.03 |
| 13-TINW-0.5 | Nitrogen, Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| 13-TINW-0.5 | Phosphorus, Total (As P) | mg/l | 10 | 0.095 | 0.100 | 0.033 | 0.14 | 0.05 |
| 13-TINW-0.5 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-TINW-0.5 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 231.600 | 219.000 | 53.125 | 302.00 | 168.00 |
| 13-TINW-0.5 | Turbidity | ntu | 10 | 8.066 | 4.925 | 8.897 | 30.10 | 0.91 |
| 13-TINW-0.5 | Zinc | ug/l | 10 | 5.875 | 5.850 | 2.717 | NA | NA |

In-Situ Measurements: 13-TINW-0.5

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-TINW-0.5 | Chl\_RFU | RFU | 5 | 0.506 | 0.580 | 0.190 | 0.64 | 0.18 |
| 13-TINW-0.5 | Chl\_ugL | ug/L | 5 | 2.006 | 2.310 | 0.763 | 2.48 | 0.65 |
| 13-TINW-0.5 | CONDUCTANCE | uS/cm | 12 | 282.433 | 320.500 | 207.765 | 545.00 | 32.60 |
| 13-TINW-0.5 | DISSOLVED\_OXYGEN | mg/L | 12 | 10.312 | 10.515 | 1.771 | 12.60 | 7.72 |
| 13-TINW-0.5 | PC\_RFU | RFU | 5 | 0.038 | 0.050 | 0.045 | 0.08 | -0.04 |
| 13-TINW-0.5 | PC\_ugL | ug/L | 5 | 0.046 | 0.050 | 0.023 | 0.08 | 0.02 |
| 13-TINW-0.5 | PCT\_SATURATION | % | 12 | 97.742 | 95.200 | 8.547 | 111.00 | 86.60 |
| 13-TINW-0.5 | PH | std units | 12 | 8.160 | 8.140 | 0.385 | 8.90 | 7.69 |
| 13-TINW-0.5 | SALINITY | ppt | 12 | 0.136 | 0.155 | 0.102 | 0.27 | 0.01 |
| 13-TINW-0.5 | TEMPERATURE | deg C | 12 | 13.267 | 15.750 | 8.772 | 24.00 | 2.70 |

Water Quality Standard Exceedances: 13-TINW-0.5

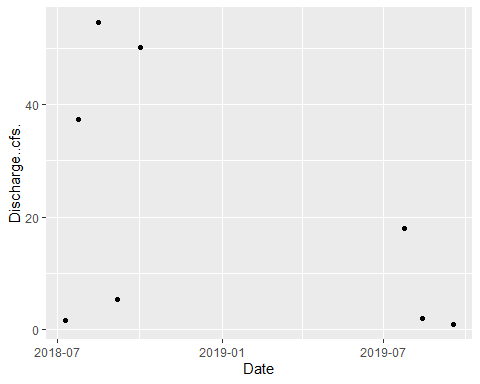
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-TINW-0.5 | 2018 | iron | ug/l | <=300 | 444.00 |
| 13-TINW-0.5 | 2018 | iron | ug/l | <=300 | 1270.00 |
| 13-TINW-0.5 | 2018 | iron | ug/l | <=300 | 557.00 |
| 13-TINW-0.5 | 2018 | iron | ug/l | <=300 | 1590.00 |
| 13-TINW-0.5 | 2018 | iron | ug/l | <=300 | 488.00 |
| 13-TINW-0.5 | 2018 | ph | ph\_units | <=8.5 | 8.72 |
| 13-TINW-0.5 | 2018 | ph | ph\_units | <=8.5 | 8.90 |
| 13-TINW-0.5 | 2019 | iron | ug/l | <=300 | 1560.00 |
| 13-TINW-0.5 | 2019 | iron | ug/l | <=300 | 1100.00 |

Numeric Nutrient Criteria: 13-TINW-0.5

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-TINW-0.5 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.095 | 5 | 0.05 | 0.14 | 0.1 | Aquatic Chronic |
| 13-TINW-0.5 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.095 | 10 | 0.05 | 0.14 | 0.1 | Health-Water Supply |

BAP Score: 13-TINW-0.5

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-TINW-0.5 | 8/27/2018 | 3.36 | 0.98 | 4 |
| 13-TINW-0.5 | 8/8/2019 | 6.85 | 0.35 | 4 |



### Site ID: 13-WALK-26.9

Chemistry Measurements: 13-WALK-26.9

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-26.9 | Alkalinity, Total (As Caco3) | mg/l | 10 | 118.960 | 121.500 | 27.917 | 162.00 | 78.00 |
| 13-WALK-26.9 | Aluminum | ug/l | 10 | 220.200 | 200.000 | 121.063 | 432.00 | 101.00 |
| 13-WALK-26.9 | Arsenic | ug/l | 10 | 1.196 | 1.200 | 0.520 | 2.30 | 0.55 |
| 13-WALK-26.9 | Cadmium | ug/l | 10 | 0.520 | 0.520 | NA | NA | NA |
| 13-WALK-26.9 | Calcium | ug/l | 5 | 41640.000 | 41300.000 | 11537.894 | 56200.00 | 28200.00 |
| 13-WALK-26.9 | Chloride (As Cl) | mg/l | 10 | 78.870 | 77.600 | 24.757 | 111.00 | 40.40 |
| 13-WALK-26.9 | Chlorophyll A | ug/l | 10 | 11.018 | 5.055 | 13.527 | 45.00 | 0.70 |
| 13-WALK-26.9 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 617.200 | 628.000 | 69.798 | 689.00 | 527.00 |
| 13-WALK-26.9 | Copper | ug/l | 10 | 3.860 | 3.500 | 1.023 | 6.00 | 2.60 |
| 13-WALK-26.9 | Hardness (As Caco3) | mg/l | 10 | 163.380 | 168.500 | 41.629 | 211.00 | 92.80 |
| 13-WALK-26.9 | Iron | ug/l | 10 | 581.300 | 489.000 | 392.120 | 1360.00 | 168.00 |
| 13-WALK-26.9 | Lead | ug/l | 10 | 1.030 | 0.750 | 0.588 | NA | NA |
| 13-WALK-26.9 | Magnesium | ug/l | 10 | 11194.000 | 12250.000 | 3713.819 | 16600.00 | 5420.00 |
| 13-WALK-26.9 | Nickel | ug/l | 10 | 2.080 | 2.000 | 0.632 | 3.40 | 1.20 |
| 13-WALK-26.9 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.926 | 0.870 | 0.381 | 1.48 | 0.41 |
| 13-WALK-26.9 | Nitrogen | mg/l | 5 | 1.572 | 1.480 | 0.396 | 2.16 | 1.10 |
| 13-WALK-26.9 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.033 | 0.030 | 0.018 | 0.06 | 0.01 |
| 13-WALK-26.9 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.814 | 0.750 | 0.198 | 1.12 | 0.62 |
| 13-WALK-26.9 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.915 | 0.855 | 0.377 | 1.47 | 0.41 |
| 13-WALK-26.9 | Nitrogen, Nitrite | mg/l | 10 | 0.016 | 0.020 | 0.005 | NA | NA |
| 13-WALK-26.9 | Ph | pH units | 5 | 7.994 | 7.970 | 0.155 | 8.24 | 7.83 |
| 13-WALK-26.9 | Phosphorus, Total (As P) | mg/l | 10 | 0.168 | 0.170 | 0.031 | 0.20 | 0.09 |
| 13-WALK-26.9 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WALK-26.9 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 308.900 | 314.000 | 69.853 | 410.00 | 194.00 |
| 13-WALK-26.9 | Turbidity | ntu | 10 | 7.437 | 7.630 | 4.351 | 17.70 | 2.10 |
| 13-WALK-26.9 | Zinc | ug/l | 10 | 6.680 | 5.750 | 2.561 | 11.30 | 4.40 |

In-Situ Measurements: 13-WALK-26.9

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-26.9 | CONDUCTANCE | uS/cm | 7 | 578.414 | 668.00 | 199.390 | 822.00 | 330.00 |
| 13-WALK-26.9 | DISSOLVED\_OXYGEN | mg/L | 7 | 10.457 | 8.90 | 4.268 | 19.00 | 6.40 |
| 13-WALK-26.9 | PCT\_SATURATION | % | 7 | 126.286 | 101.00 | 62.551 | 251.00 | 77.00 |
| 13-WALK-26.9 | PH | std units | 7 | 8.247 | 8.33 | 0.452 | 9.09 | 7.77 |
| 13-WALK-26.9 | SALINITY | ppt | 6 | 0.272 | 0.26 | 0.103 | 0.40 | 0.16 |
| 13-WALK-26.9 | TEMPERATURE | deg C | 7 | 23.314 | 21.70 | 4.921 | 30.60 | 15.60 |

Water Quality Standard Exceedances: 13-WALK-26.9

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WALK-26.9 | 2018 | ph | ph\_units | <=8.5 | 9.09 |

Numeric Nutrient Criteria: 13-WALK-26.9

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-26.9 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.168 | 0 | 0.09 | 0.2 | 0.17 | Aquatic Chronic |

BAP Score: 13-WALK-26.9

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-26.9 | 8/27/2018 | 5.36 | 1.05 | 4 |
| 13-WALK-26.9 | 8/3/2017 | 5.06 | 0.26 | 4 |

### Site ID: 13-TINW\_T3-2.1

Chemistry Measurements: 13-TINW\_T3-2.1

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-TINW\_T3-2.1 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.019 | 0.018 | 0.013 | 0.034 | 0.007 |
| 13-TINW\_T3-2.1 | Nitrogen | mg/l | 4 | 0.975 | 0.975 | 0.333 | 1.380 | 0.570 |
| 13-TINW\_T3-2.1 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.040 | 0.043 | 0.026 | 0.068 | 0.006 |
| 13-TINW\_T3-2.1 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.955 | 0.955 | 0.324 | 1.350 | 0.560 |
| 13-TINW\_T3-2.1 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.023 | 0.027 | 0.012 | NA | NA |
| 13-TINW\_T3-2.1 | Nitrogen, Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| 13-TINW\_T3-2.1 | Phosphorus, Total (As P) | mg/l | 4 | 0.338 | 0.250 | 0.331 | 0.810 | 0.042 |
| 13-TINW\_T3-2.1 | Turbidity | ntu | 4 | 13.292 | 13.525 | 12.089 | 25.400 | 0.720 |

In-Situ Measurements: 13-TINW\_T3-2.1

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-TINW\_T3-2.1

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-TINW\_T3-2.1 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.338 | 0 | 0.042 | 0.81 | 0.25 | Aquatic Chronic |

### Site ID: 13-TINW-4.5

Chemistry Measurements: 13-TINW-4.5

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-TINW-4.5 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.523 | 0.488 | 0.371 | 0.922 | 0.194 |
| 13-TINW-4.5 | Nitrogen | mg/l | 4 | 1.112 | 1.115 | 0.313 | 1.420 | 0.800 |
| 13-TINW-4.5 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.026 | 0.029 | 0.009 | 0.032 | 0.013 |
| 13-TINW-4.5 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.587 | 0.580 | 0.086 | 0.700 | 0.490 |
| 13-TINW-4.5 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.519 | 0.488 | 0.366 | 0.909 | 0.194 |
| 13-TINW-4.5 | Nitrogen, Nitrite | mg/l | 4 | 0.013 | 0.013 | NA | NA | NA |
| 13-TINW-4.5 | Phosphorus, Total (As P) | mg/l | 4 | 0.108 | 0.099 | 0.043 | 0.167 | 0.068 |
| 13-TINW-4.5 | Turbidity | ntu | 4 | 2.580 | 2.605 | 1.111 | 3.830 | 1.280 |

In-Situ Measurements: 13-TINW-4.5

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-TINW-4.5

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-TINW-4.5 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.108 | 0 | 0.068 | 0.167 | 0.099 | Aquatic Chronic |
| 13-TINW-4.5 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.108 | 0 | 0.068 | 0.167 | 0.099 | Health-Water Supply |

### Site ID: 13-DWAR-2.0

Chemistry Measurements: 13-DWAR-2.0

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-DWAR-2.0 | Alkalinity, Total (As Caco3) | mg/l | 10 | 99.060 | 96.800 | 26.876 | 135.00 | 66.40 |
| 13-DWAR-2.0 | Aluminum | ug/l | 10 | 428.400 | 393.500 | 283.143 | 1100.00 | 152.00 |
| 13-DWAR-2.0 | Arsenic | ug/l | 10 | 1.413 | 1.400 | 0.422 | 2.10 | 0.74 |
| 13-DWAR-2.0 | Cadmium | ug/l | 10 | 0.580 | 0.580 | NA | NA | NA |
| 13-DWAR-2.0 | Calcium | ug/l | 10 | 39130.000 | 35850.000 | 11251.869 | 56100.00 | 25400.00 |
| 13-DWAR-2.0 | Chloride (As Cl) | mg/l | 10 | 50.180 | 44.450 | 20.639 | 90.40 | 29.90 |
| 13-DWAR-2.0 | Chlorophyll A | ug/l | 10 | 5.655 | 5.200 | 4.713 | 13.90 | 0.92 |
| 13-DWAR-2.0 | Copper | ug/l | 10 | 2.310 | 1.850 | 1.227 | 5.10 | 1.10 |
| 13-DWAR-2.0 | Hardness (As Caco3) | mg/l | 10 | 127.210 | 116.500 | 36.814 | 185.00 | 82.40 |
| 13-DWAR-2.0 | Iron | ug/l | 10 | 956.300 | 897.500 | 531.595 | 2040.00 | 346.00 |
| 13-DWAR-2.0 | Lead | ug/l | 10 | 1.200 | 1.200 | 0.475 | NA | NA |
| 13-DWAR-2.0 | Magnesium | ug/l | 9 | 7375.556 | 7000.000 | 2111.481 | 10800.00 | 4630.00 |
| 13-DWAR-2.0 | Nickel | ug/l | 10 | 1.681 | 1.550 | 0.575 | 3.00 | 0.91 |
| 13-DWAR-2.0 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.246 | 0.270 | 0.093 | 0.36 | 0.03 |
| 13-DWAR-2.0 | Nitrogen | mg/l | 10 | 0.828 | 0.915 | 0.295 | 1.21 | 0.28 |
| 13-DWAR-2.0 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.034 | 0.030 | 0.017 | NA | NA |
| 13-DWAR-2.0 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.651 | 0.665 | 0.160 | 0.91 | 0.35 |
| 13-DWAR-2.0 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.245 | 0.270 | 0.092 | 0.35 | 0.03 |
| 13-DWAR-2.0 | Nitrogen, Nitrite | mg/l | 10 | 0.010 | 0.010 | NA | NA | NA |
| 13-DWAR-2.0 | Phosphorus, Total (As P) | mg/l | 10 | 0.097 | 0.100 | 0.025 | 0.13 | 0.06 |
| 13-DWAR-2.0 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-DWAR-2.0 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 205.800 | 190.000 | 49.007 | 281.00 | 164.00 |
| 13-DWAR-2.0 | Turbidity | ntu | 10 | 15.214 | 11.910 | 10.671 | 32.50 | 3.26 |
| 13-DWAR-2.0 | Zinc | ug/l | 10 | 5.000 | 3.900 | 2.559 | NA | NA |

In-Situ Measurements: 13-DWAR-2.0

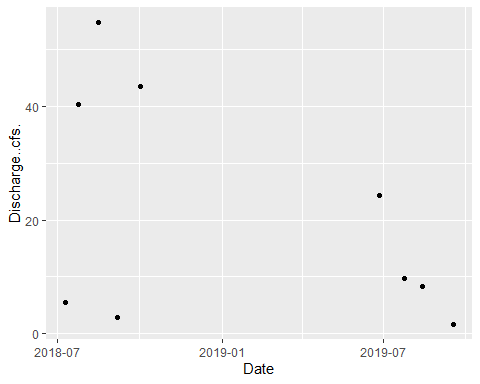
| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-DWAR-2.0 | Chl\_RFU | RFU | 4 | 1.072 | 0.655 | 0.935 | 2.47 | 0.51 |
| 13-DWAR-2.0 | Chl\_ugL | ug/L | 4 | 4.355 | 2.865 | 3.623 | 9.75 | 1.94 |
| 13-DWAR-2.0 | CONDUCTANCE | uS/cm | 12 | 566.092 | 464.000 | 364.486 | 1450.00 | 275.20 |
| 13-DWAR-2.0 | DISSOLVED\_OXYGEN | mg/L | 12 | 7.613 | 7.780 | 1.157 | 9.40 | 5.30 |
| 13-DWAR-2.0 | PC\_RFU | RFU | 4 | 0.038 | 0.035 | 0.033 | 0.08 | 0.00 |
| 13-DWAR-2.0 | PC\_ugL | ug/L | 4 | 0.052 | 0.040 | 0.040 | 0.11 | 0.02 |
| 13-DWAR-2.0 | PCT\_SATURATION | % | 11 | 85.536 | 90.000 | 14.222 | 111.00 | 64.00 |
| 13-DWAR-2.0 | PH | std units | 12 | 7.529 | 7.580 | 0.469 | 8.32 | 6.57 |
| 13-DWAR-2.0 | SALINITY | ppt | 11 | 0.282 | 0.240 | 0.190 | 0.72 | 0.13 |
| 13-DWAR-2.0 | TEMPERATURE | deg C | 12 | 21.692 | 21.850 | 4.030 | 29.40 | 11.80 |

Numeric Nutrient Criteria: 13-DWAR-2.0

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-DWAR-2.0 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.097 | 0 | 0.06 | 0.13 | 0.1 | Aquatic Chronic |

BAP Score: 13-DWAR-2.0

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-DWAR-2.0 | 8/27/2018 | 6.35 | 1.08 | 4 |
| 13-DWAR-2.0 | 8/9/2019 | 7.61 | 0.46 | 4 |



### Site ID: 13-WALK\_T13-0.7

Chemistry Measurements: 13-WALK\_T13-0.7

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK\_T13-0.7 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.291 | 0.268 | 0.114 | 0.433 | 0.193 |
| 13-WALK\_T13-0.7 | Nitrogen | mg/l | 4 | 0.922 | 0.875 | 0.178 | 1.170 | 0.770 |
| 13-WALK\_T13-0.7 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.046 | 0.047 | 0.018 | 0.067 | 0.023 |
| 13-WALK\_T13-0.7 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.632 | 0.600 | 0.141 | 0.830 | 0.500 |
| 13-WALK\_T13-0.7 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.291 | 0.268 | 0.114 | 0.433 | 0.193 |
| 13-WALK\_T13-0.7 | Nitrogen, Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| 13-WALK\_T13-0.7 | Phosphorus, Total (As P) | mg/l | 4 | 0.100 | 0.092 | 0.045 | 0.159 | 0.056 |
| 13-WALK\_T13-0.7 | Turbidity | ntu | 4 | 58.225 | 60.850 | 45.428 | 99.600 | 11.600 |

In-Situ Measurements: 13-WALK\_T13-0.7

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-WALK\_T13-0.7

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK\_T13-0.7 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.1 | 0 | 0.056 | 0.159 | 0.092 | Aquatic Chronic |
| 13-WALK\_T13-0.7 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.1 | 0 | 0.056 | 0.159 | 0.092 | Health-Water Supply |

### Site ID: 13-WALK\_T15-0.1

Chemistry Measurements: 13-WALK\_T15-0.1

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK\_T15-0.1 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.456 | 0.491 | 0.126 | 0.555 | 0.286 |
| 13-WALK\_T15-0.1 | Nitrogen | mg/l | 4 | 0.927 | 0.935 | 0.108 | 1.040 | 0.800 |
| 13-WALK\_T15-0.1 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.025 | 0.023 | 0.010 | 0.038 | 0.013 |
| 13-WALK\_T15-0.1 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.478 | 0.470 | 0.034 | 0.520 | 0.450 |
| 13-WALK\_T15-0.1 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.456 | 0.491 | 0.126 | 0.555 | 0.286 |
| 13-WALK\_T15-0.1 | Nitrogen, Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| 13-WALK\_T15-0.1 | Phosphorus, Total (As P) | mg/l | 4 | 0.066 | 0.063 | 0.017 | 0.089 | 0.048 |
| 13-WALK\_T15-0.1 | Turbidity | ntu | 4 | 3.812 | 3.840 | 0.822 | 4.720 | 2.850 |

In-Situ Measurements: 13-WALK\_T15-0.1

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-WALK\_T15-0.1

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK\_T15-0.1 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.066 | 0 | 0.048 | 0.089 | 0.063 | Aquatic Chronic |
| 13-WALK\_T15-0.1 | PHOSPHORUS, TOTAL (AS P) | 4 | 0.066 | 0 | 0.048 | 0.089 | 0.063 | Health-Water Supply |

### Site ID: 13-WALK-22.8

Chemistry Measurements: 13-WALK-22.8

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-22.8 | Alkalinity, Total (As Caco3) | mg/l | 10 | 126.760 | 128.500 | 21.435 | 159.00 | 89.60 |
| 13-WALK-22.8 | Aluminum | ug/l | 10 | 253.330 | 155.000 | 270.630 | 878.00 | 30.30 |
| 13-WALK-22.8 | Arsenic | ug/l | 10 | 1.396 | 1.300 | 0.671 | NA | NA |
| 13-WALK-22.8 | Cadmium | ug/l | 10 | 0.550 | 0.550 | NA | NA | NA |
| 13-WALK-22.8 | Calcium | ug/l | 5 | 47080.000 | 49500.000 | 8956.115 | 55900.00 | 33900.00 |
| 13-WALK-22.8 | Chloride (As Cl) | mg/l | 10 | 80.600 | 84.250 | 22.391 | 108.00 | 47.20 |
| 13-WALK-22.8 | Chlorophyll A | ug/l | 10 | 12.741 | 5.975 | 16.684 | 48.70 | 0.76 |
| 13-WALK-22.8 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 622.400 | 614.000 | 82.948 | 739.00 | 507.00 |
| 13-WALK-22.8 | Copper | ug/l | 10 | 3.770 | 3.400 | 1.148 | 6.30 | 2.50 |
| 13-WALK-22.8 | Hardness (As Caco3) | mg/l | 10 | 175.200 | 181.000 | 27.644 | 206.00 | 121.00 |
| 13-WALK-22.8 | Iron | ug/l | 10 | 567.970 | 340.500 | 625.978 | 2000.00 | 86.00 |
| 13-WALK-22.8 | Lead | ug/l | 10 | 1.084 | 0.710 | 0.820 | NA | NA |
| 13-WALK-22.8 | Magnesium | ug/l | 10 | 12806.000 | 13000.000 | 2319.632 | 16000.00 | 8950.00 |
| 13-WALK-22.8 | Nickel | ug/l | 10 | 2.250 | 2.150 | 0.652 | 3.50 | 1.30 |
| 13-WALK-22.8 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 1.193 | 1.105 | 0.596 | 2.55 | 0.42 |
| 13-WALK-22.8 | Nitrogen | mg/l | 5 | 2.222 | 1.770 | 1.005 | 3.95 | 1.46 |
| 13-WALK-22.8 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.026 | 0.025 | 0.016 | 0.06 | 0.01 |
| 13-WALK-22.8 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.996 | 0.990 | 0.276 | 1.40 | 0.63 |
| 13-WALK-22.8 | Nitrogen, Nitrate (As N) | mg/l | 10 | 1.184 | 1.100 | 0.594 | 2.53 | 0.40 |
| 13-WALK-22.8 | Nitrogen, Nitrite | mg/l | 10 | 0.013 | 0.010 | 0.005 | NA | NA |
| 13-WALK-22.8 | Ph | pH units | 5 | 8.220 | 8.120 | 0.248 | 8.58 | 7.96 |
| 13-WALK-22.8 | Phosphorus, Total (As P) | mg/l | 10 | 0.181 | 0.165 | 0.055 | 0.32 | 0.13 |
| 13-WALK-22.8 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WALK-22.8 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 319.800 | 327.500 | 48.864 | 377.00 | 227.00 |
| 13-WALK-22.8 | Turbidity | ntu | 10 | 7.303 | 6.000 | 6.147 | 23.10 | 1.19 |
| 13-WALK-22.8 | Zinc | ug/l | 10 | 6.630 | 4.700 | 4.919 | 18.60 | 3.30 |

In-Situ Measurements: 13-WALK-22.8

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-22.8 | CONDUCTANCE | uS/cm | 9 | 549.111 | 501.100 | 245.915 | 1142.00 | 295.00 |
| 13-WALK-22.8 | DISSOLVED\_OXYGEN | mg/L | 9 | 9.082 | 8.700 | 1.455 | 11.50 | 7.20 |
| 13-WALK-22.8 | PCT\_SATURATION | % | 7 | 108.900 | 102.000 | 18.017 | 134.00 | 89.00 |
| 13-WALK-22.8 | PH | std units | 9 | 8.100 | 8.070 | 0.245 | 8.50 | 7.70 |
| 13-WALK-22.8 | SALINITY | ppt | 6 | 0.270 | 0.225 | 0.153 | 0.56 | 0.14 |
| 13-WALK-22.8 | TEMPERATURE | deg C | 9 | 22.222 | 24.000 | 3.379 | 24.70 | 15.40 |

Water Quality Standard Exceedances: 13-WALK-22.8

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WALK-22.8 | 2017 | ph | ph\_units | <=8.5 | 8.58 |

Numeric Nutrient Criteria: 13-WALK-22.8

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-22.8 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.181 | 5 | 0.13 | 0.32 | 0.165 | Aquatic Chronic |

BAP Score: 13-WALK-22.8

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-22.8 | 8/27/2018 | 5.21 | 0.25 | 4 |
| 13-WALK-22.8 | 8/3/2017 | 4.89 | 0.31 | 4 |

### Site ID: 13-WALK-19.0

Chemistry Measurements: 13-WALK-19.0

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-19.0 | Alkalinity, Total (As Caco3) | mg/l | 15 | 117.160 | 116.00 | 21.547 | 145.00 | 76.00 |
| 13-WALK-19.0 | Aluminum | ug/l | 15 | 417.100 | 122.00 | 842.318 | 3310.00 | 38.80 |
| 13-WALK-19.0 | Arsenic | ug/l | 15 | 1.473 | 1.40 | 0.656 | NA | NA |
| 13-WALK-19.0 | Cadmium | ug/l | 15 | 0.610 | 0.61 | NA | NA | NA |
| 13-WALK-19.0 | Calcium | ug/l | 10 | 43230.000 | 44250.00 | 8372.050 | 52800.00 | 27100.00 |
| 13-WALK-19.0 | Chloride (As Cl) | mg/l | 15 | 73.487 | 82.50 | 24.761 | 108.00 | 26.10 |
| 13-WALK-19.0 | Chlorophyll A | ug/l | 15 | 9.585 | 2.43 | 17.527 | 67.90 | 0.49 |
| 13-WALK-19.0 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 581.800 | 562.00 | 84.792 | 721.00 | 497.00 |
| 13-WALK-19.0 | Copper | ug/l | 15 | 3.607 | 3.10 | 1.649 | 8.40 | 2.20 |
| 13-WALK-19.0 | Hardness (As Caco3) | mg/l | 15 | 161.207 | 164.00 | 27.735 | 194.00 | 95.10 |
| 13-WALK-19.0 | Iron | ug/l | 15 | 680.547 | 171.00 | 1008.271 | 3630.00 | 73.80 |
| 13-WALK-19.0 | Lead | ug/l | 15 | 1.476 | 0.71 | 1.570 | NA | NA |
| 13-WALK-19.0 | Magnesium | ug/l | 14 | 11899.286 | 12050.00 | 2515.773 | 15100.00 | 6660.00 |
| 13-WALK-19.0 | Nickel | ug/l | 15 | 2.147 | 2.00 | 1.067 | 5.20 | 1.30 |
| 13-WALK-19.0 | Nitrate+Nitrite As Nitrogen | mg/l | 15 | 1.111 | 0.92 | 0.582 | 2.50 | 0.40 |
| 13-WALK-19.0 | Nitrogen | mg/l | 10 | 2.019 | 1.96 | 0.945 | 3.94 | 1.05 |
| 13-WALK-19.0 | Nitrogen, Ammonia (As N) | mg/l | 15 | 0.025 | 0.02 | 0.020 | NA | NA |
| 13-WALK-19.0 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.864 | 0.70 | 0.426 | 1.50 | 0.42 |
| 13-WALK-19.0 | Nitrogen, Nitrate (As N) | mg/l | 15 | 1.105 | 0.92 | 0.577 | 2.47 | 0.39 |
| 13-WALK-19.0 | Nitrogen, Nitrite | mg/l | 15 | 0.014 | 0.01 | 0.005 | NA | NA |
| 13-WALK-19.0 | Ph | pH units | 5 | 8.300 | 8.21 | 0.152 | 8.52 | 8.18 |
| 13-WALK-19.0 | Phosphorus, Total (As P) | mg/l | 15 | 0.170 | 0.14 | 0.065 | 0.32 | 0.10 |
| 13-WALK-19.0 | Silver | ug/l | 15 | NaN | NA | NA | NA | NA |
| 13-WALK-19.0 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 307.300 | 315.00 | 42.698 | 367.00 | 226.00 |
| 13-WALK-19.0 | Turbidity | ntu | 15 | 13.205 | 3.44 | 25.335 | 100.00 | 1.11 |
| 13-WALK-19.0 | Zinc | ug/l | 15 | 8.673 | 4.20 | 9.293 | NA | NA |

In-Situ Measurements: 13-WALK-19.0

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-19.0 | Chl\_RFU | RFU | 4 | 0.375 | 0.365 | 0.122 | 0.50 | 0.27 |
| 13-WALK-19.0 | Chl\_ugL | ug/L | 4 | 1.535 | 1.520 | 0.433 | 2.00 | 1.10 |
| 13-WALK-19.0 | CONDUCTANCE | uS/cm | 14 | 497.464 | 445.250 | 164.052 | 939.00 | 227.70 |
| 13-WALK-19.0 | DISSOLVED\_OXYGEN | mg/L | 14 | 9.649 | 9.500 | 1.696 | 12.74 | 6.99 |
| 13-WALK-19.0 | PC\_RFU | RFU | 3 | -0.003 | 0.000 | 0.085 | 0.08 | -0.09 |
| 13-WALK-19.0 | PC\_ugL | ug/L | 4 | 0.085 | 0.020 | 0.218 | 0.40 | -0.10 |
| 13-WALK-19.0 | PCT\_SATURATION | % | 12 | 115.192 | 118.000 | 19.773 | 155.00 | 88.00 |
| 13-WALK-19.0 | PH | std units | 13 | 8.277 | 8.220 | 0.303 | 8.68 | 7.80 |
| 13-WALK-19.0 | SALINITY | ppt | 11 | 0.220 | 0.200 | 0.055 | 0.30 | 0.11 |
| 13-WALK-19.0 | TEMPERATURE | deg C | 14 | 23.150 | 24.050 | 4.254 | 30.20 | 14.70 |

Water Quality Standard Exceedances: 13-WALK-19.0

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WALK-19.0 | 2017 | ph | ph\_units | <=8.5 | 8.52 |
| 13-WALK-19.0 | 2018 | ph | ph\_units | <=8.5 | 8.56 |
| 13-WALK-19.0 | 2018 | ph | ph\_units | <=8.5 | 8.68 |
| 13-WALK-19.0 | 2019 | ph | ph\_units | <=8.5 | 8.57 |
| 13-WALK-19.0 | 2019 | ph | ph\_units | <=8.5 | 8.51 |

Numeric Nutrient Criteria: 13-WALK-19.0

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-19.0 | PHOSPHORUS, TOTAL (AS P) | 15 | 0.17 | 0 | 0.1 | 0.32 | 0.14 | Aquatic Chronic |

BAP Score: 13-WALK-19.0

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-19.0 | 8/27/2018 | 5.63 | 0.17 | 4 |
| 13-WALK-19.0 | 8/3/2017 | 5.10 | 0.63 | 4 |

### Site ID: 13-GUNK-0.4

Chemistry Measurements: 13-GUNK-0.4

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-0.4 | Alkalinity, Total (As Caco3) | mg/l | 10 | 63.560 | 70.200 | 13.821 | 80.00 | 43.60 |
| 13-GUNK-0.4 | Aluminum | ug/l | 10 | 368.290 | 129.000 | 394.534 | 1100.00 | 65.90 |
| 13-GUNK-0.4 | Arsenic | ug/l | 10 | 0.966 | 0.990 | 0.386 | NA | NA |
| 13-GUNK-0.4 | Cadmium | ug/l | 10 | 0.315 | 0.315 | 0.346 | NA | NA |
| 13-GUNK-0.4 | Calcium | ug/l | 5 | 20060.000 | 18400.000 | 4879.344 | 25700.00 | 15400.00 |
| 13-GUNK-0.4 | Chloride (As Cl) | mg/l | 10 | 36.470 | 40.300 | 10.173 | 47.70 | 22.40 |
| 13-GUNK-0.4 | Chlorophyll A | ug/l | 10 | 2.253 | 1.260 | 2.119 | 6.73 | 0.62 |
| 13-GUNK-0.4 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 327.800 | 325.000 | 19.690 | 358.00 | 303.00 |
| 13-GUNK-0.4 | Copper | ug/l | 10 | 2.800 | 1.900 | 2.484 | 9.60 | 1.30 |
| 13-GUNK-0.4 | Hardness (As Caco3) | mg/l | 10 | 81.800 | 86.050 | 20.338 | 113.00 | 51.50 |
| 13-GUNK-0.4 | Iron | ug/l | 10 | 700.900 | 373.500 | 571.295 | 1680.00 | 238.00 |
| 13-GUNK-0.4 | Lead | ug/l | 10 | 1.075 | 1.155 | 0.666 | NA | NA |
| 13-GUNK-0.4 | Magnesium | ug/l | 10 | 4545.000 | 4825.000 | 843.211 | 5470.00 | 3150.00 |
| 13-GUNK-0.4 | Nickel | ug/l | 10 | 1.563 | 1.450 | 0.529 | 2.40 | 0.76 |
| 13-GUNK-0.4 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.218 | 0.205 | 0.076 | 0.38 | 0.11 |
| 13-GUNK-0.4 | Nitrogen | mg/l | 5 | 0.782 | 0.750 | 0.164 | 0.95 | 0.55 |
| 13-GUNK-0.4 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.018 | 0.020 | 0.006 | 0.03 | 0.01 |
| 13-GUNK-0.4 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.582 | 0.590 | 0.140 | 0.73 | 0.43 |
| 13-GUNK-0.4 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.218 | 0.205 | 0.076 | 0.38 | 0.11 |
| 13-GUNK-0.4 | Nitrogen, Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| 13-GUNK-0.4 | Ph | pH units | 5 | 7.964 | 7.910 | 0.171 | 8.17 | 7.76 |
| 13-GUNK-0.4 | Phosphorus, Total (As P) | mg/l | 10 | 0.069 | 0.070 | 0.012 | 0.09 | 0.04 |
| 13-GUNK-0.4 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-GUNK-0.4 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 153.200 | 160.000 | 25.694 | 178.00 | 111.00 |
| 13-GUNK-0.4 | Turbidity | ntu | 10 | 7.156 | 4.910 | 6.112 | 18.60 | 1.01 |
| 13-GUNK-0.4 | Zinc | ug/l | 10 | 7.860 | 7.800 | 2.752 | NA | NA |

In-Situ Measurements: 13-GUNK-0.4

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-0.4 | CONDUCTANCE | uS/cm | 13 | 370.092 | 289.00 | 254.437 | 1047.00 | 126.00 |
| 13-GUNK-0.4 | DISSOLVED\_OXYGEN | mg/L | 13 | 8.290 | 8.50 | 1.770 | 10.20 | 3.84 |
| 13-GUNK-0.4 | PCT\_SATURATION | % | 7 | 93.171 | 97.00 | 26.251 | 121.00 | 46.00 |
| 13-GUNK-0.4 | PH | std units | 13 | 7.978 | 8.10 | 0.541 | 8.70 | 6.97 |
| 13-GUNK-0.4 | SALINITY | ppt | 8 | 0.220 | 0.14 | 0.146 | 0.52 | 0.12 |
| 13-GUNK-0.4 | TEMPERATURE | deg C | 13 | 23.315 | 23.60 | 3.038 | 28.10 | 17.20 |

Water Quality Standard Exceedances: 13-GUNK-0.4

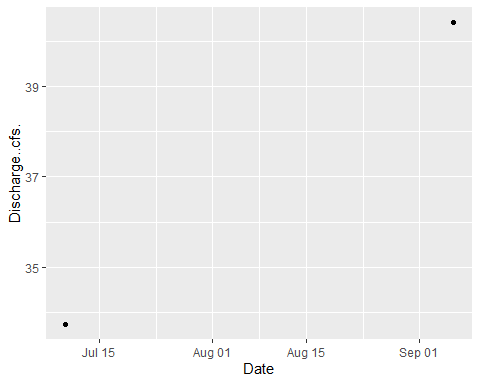
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-GUNK-0.4 | 2017 | dissolved\_oxygen | mg/l | >=4 | 3.84 |
| 13-GUNK-0.4 | 2018 | dissolved\_oxygen | mg/l | >=5 | 3.84 |
| 13-GUNK-0.4 | 2018 | dissolved\_oxygen | mg/l | >=4 | 3.84 |
| 13-GUNK-0.4 | 2018 | dissolved\_oxygen | mg/l | >=4 | 3.84 |
| 13-GUNK-0.4 | 2018 | dissolved\_oxygen | mg/l | >=4 | 3.84 |
| 13-GUNK-0.4 | 2018 | dissolved\_oxygen | mg/l | >=4 | 3.84 |
| 13-GUNK-0.4 | 2018 | dissolved\_oxygen | mg/l | >=4 | 3.84 |
| 13-GUNK-0.4 | 2018 | dissolved\_oxygen | mg/l | >=4 | 3.84 |

Numeric Nutrient Criteria: 13-GUNK-0.4

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-GUNK-0.4 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.069 | 0 | 0.04 | 0.09 | 0.07 | Aquatic Chronic |

BAP Score: 13-GUNK-0.4

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-GUNK-0.4 | 8/27/2018 | 7.87 | 0.07 | 4 |
| 13-GUNK-0.4 | 8/3/2017 | 7.28 | 0.32 | 4 |



### Site ID: 13-PKIL-5.7

Chemistry Measurements: 13-PKIL-5.7

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-PKIL-5.7 | Nitrate+Nitrite As Nitrogen | mg/l | 4 | 0.368 | 0.384 | 0.221 | 0.576 | 0.129 |
| 13-PKIL-5.7 | Nitrogen | mg/l | 4 | 0.870 | 0.855 | 0.088 | 0.990 | 0.780 |
| 13-PKIL-5.7 | Nitrogen, Ammonia (As N) | mg/l | 4 | 0.033 | 0.026 | 0.026 | 0.070 | 0.012 |
| 13-PKIL-5.7 | Nitrogen, Kjeldahl, Total | mg/l | 4 | 0.500 | 0.495 | 0.171 | 0.710 | 0.300 |
| 13-PKIL-5.7 | Nitrogen, Nitrate (As N) | mg/l | 4 | 0.368 | 0.384 | 0.221 | 0.576 | 0.129 |
| 13-PKIL-5.7 | Nitrogen, Nitrite | mg/l | 4 | NaN | NA | NA | NA | NA |
| 13-PKIL-5.7 | Phosphorus, Total (As P) | mg/l | 4 | 0.052 | 0.048 | 0.016 | 0.073 | 0.038 |
| 13-PKIL-5.7 | Turbidity | ntu | 4 | 2.612 | 2.105 | 1.329 | 4.580 | 1.660 |

In-Situ Measurements: 13-PKIL-5.7

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: 13-PKIL-5.7

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

### Site ID: 13-PKIL-0.4

Chemistry Measurements: 13-PKIL-0.4

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-PKIL-0.4 | Alkalinity, Total (As Caco3) | mg/l | 10 | 92.780 | 91.000 | 13.993 | 113.00 | 74.80 |
| 13-PKIL-0.4 | Aluminum | ug/l | 10 | 118.890 | 105.600 | 86.894 | 280.00 | 27.40 |
| 13-PKIL-0.4 | Arsenic | ug/l | 10 | 1.270 | 1.400 | 0.347 | 1.70 | 0.69 |
| 13-PKIL-0.4 | Cadmium | ug/l | 10 | 0.550 | 0.550 | NA | NA | NA |
| 13-PKIL-0.4 | Calcium | ug/l | 10 | 36700.000 | 37650.000 | 4376.198 | 42500.00 | 28600.00 |
| 13-PKIL-0.4 | Chloride (As Cl) | mg/l | 10 | 58.580 | 54.800 | 10.609 | 79.60 | 47.20 |
| 13-PKIL-0.4 | Chlorophyll A | ug/l | 10 | 4.471 | 1.030 | 8.925 | 29.50 | 0.31 |
| 13-PKIL-0.4 | Copper | ug/l | 10 | 1.462 | 1.500 | 0.506 | 2.40 | 0.81 |
| 13-PKIL-0.4 | Hardness (As Caco3) | mg/l | 10 | 114.760 | 117.500 | 13.998 | 135.00 | 89.60 |
| 13-PKIL-0.4 | Iron | ug/l | 10 | 331.840 | 297.500 | 242.425 | 746.00 | 74.50 |
| 13-PKIL-0.4 | Lead | ug/l | 10 | 0.615 | 0.540 | 0.345 | NA | NA |
| 13-PKIL-0.4 | Magnesium | ug/l | 9 | 5607.778 | 5800.000 | 815.411 | 6940.00 | 4440.00 |
| 13-PKIL-0.4 | Nickel | ug/l | 10 | 0.918 | 0.840 | 0.200 | 1.30 | 0.68 |
| 13-PKIL-0.4 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.287 | 0.300 | 0.133 | 0.45 | 0.00 |
| 13-PKIL-0.4 | Nitrogen | mg/l | 10 | 0.677 | 0.755 | 0.232 | 0.97 | 0.33 |
| 13-PKIL-0.4 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.015 | 0.015 | 0.005 | NA | NA |
| 13-PKIL-0.4 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.425 | 0.405 | 0.175 | 0.79 | 0.11 |
| 13-PKIL-0.4 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.317 | 0.330 | 0.091 | NA | NA |
| 13-PKIL-0.4 | Nitrogen, Nitrite | mg/l | 10 | 0.010 | 0.010 | 0.000 | NA | NA |
| 13-PKIL-0.4 | Phosphorus, Total (As P) | mg/l | 10 | 0.063 | 0.060 | 0.020 | 0.11 | 0.04 |
| 13-PKIL-0.4 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-PKIL-0.4 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 223.800 | 222.000 | 23.382 | 250.00 | 199.00 |
| 13-PKIL-0.4 | Turbidity | ntu | 10 | 4.476 | 2.740 | 4.432 | 16.00 | 0.81 |
| 13-PKIL-0.4 | Zinc | ug/l | 10 | 4.325 | 3.950 | 1.468 | NA | NA |

In-Situ Measurements: 13-PKIL-0.4

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-PKIL-0.4 | Chl\_RFU | RFU | 5 | 0.804 | 0.57 | 0.948 | 2.46 | 0.11 |
| 13-PKIL-0.4 | Chl\_ugL | ug/L | 5 | 3.200 | 2.10 | 3.742 | 9.80 | 0.70 |
| 13-PKIL-0.4 | CONDUCTANCE | uS/cm | 13 | 408.123 | 390.30 | 153.684 | 752.90 | 37.70 |
| 13-PKIL-0.4 | DISSOLVED\_OXYGEN | mg/L | 13 | 8.713 | 8.90 | 1.966 | 11.88 | 4.10 |
| 13-PKIL-0.4 | PC\_RFU | RFU | 5 | 0.152 | 0.02 | 0.353 | 0.78 | -0.07 |
| 13-PKIL-0.4 | PC\_ugL | ug/L | 5 | 0.162 | 0.02 | 0.346 | 0.78 | -0.03 |
| 13-PKIL-0.4 | PCT\_SATURATION | % | 12 | 94.475 | 98.45 | 16.517 | 109.00 | 49.00 |
| 13-PKIL-0.4 | PH | std units | 13 | 7.970 | 8.00 | 0.420 | 8.89 | 7.06 |
| 13-PKIL-0.4 | SALINITY | ppt | 11 | 0.180 | 0.19 | 0.057 | 0.25 | 0.02 |
| 13-PKIL-0.4 | TEMPERATURE | deg C | 13 | 19.069 | 21.30 | 5.980 | 25.10 | 4.70 |

Water Quality Standard Exceedances: 13-PKIL-0.4

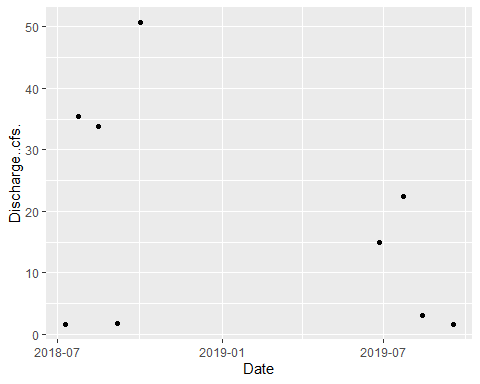
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-PKIL-0.4 | 2018 | dissolved\_oxygen | mg/l | >=5 | 4.10 |
| 13-PKIL-0.4 | 2018 | ph | ph\_units | <=8.5 | 8.89 |

Numeric Nutrient Criteria: 13-PKIL-0.4

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

BAP Score: 13-PKIL-0.4

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-PKIL-0.4 | 8/27/2018 | 6.95 | 0.66 | 4 |
| 13-PKIL-0.4 | 8/8/2019 | 7.12 | 0.77 | 4 |



### Site ID: 13-WALK-9.8

Chemistry Measurements: 13-WALK-9.8

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-9.8 | Alkalinity, Total (As Caco3) | mg/l | 9 | 113.467 | 126.00 | 22.202 | 138.00 | 78.40 |
| 13-WALK-9.8 | Aluminum | ug/l | 9 | 248.311 | 123.00 | 257.255 | 697.00 | 77.70 |
| 13-WALK-9.8 | Arsenic | ug/l | 9 | 1.633 | 1.60 | 0.346 | 2.20 | 1.20 |
| 13-WALK-9.8 | Cadmium | ug/l | 9 | NaN | NA | NA | NA | NA |
| 13-WALK-9.8 | Calcium | ug/l | 9 | 41944.444 | 44100.00 | 7066.844 | 49600.00 | 30400.00 |
| 13-WALK-9.8 | Chloride (As Cl) | mg/l | 9 | 71.189 | 72.10 | 21.927 | 99.70 | 40.30 |
| 13-WALK-9.8 | Chlorophyll A | ug/l | 9 | 16.076 | 2.83 | 35.176 | 109.00 | 0.44 |
| 13-WALK-9.8 | Copper | ug/l | 9 | 3.211 | 3.30 | 0.706 | 4.40 | 2.40 |
| 13-WALK-9.8 | Hardness (As Caco3) | mg/l | 9 | 152.333 | 164.00 | 28.618 | 183.00 | 109.00 |
| 13-WALK-9.8 | Iron | ug/l | 9 | 552.000 | 253.00 | 575.900 | 1600.00 | 138.00 |
| 13-WALK-9.8 | Lead | ug/l | 9 | 1.042 | 0.76 | 0.665 | NA | NA |
| 13-WALK-9.8 | Magnesium | ug/l | 8 | 11688.750 | 12950.00 | 2907.721 | 14800.00 | 7280.00 |
| 13-WALK-9.8 | Nickel | ug/l | 9 | 1.689 | 1.50 | 0.465 | 2.60 | 1.30 |
| 13-WALK-9.8 | Nitrate+Nitrite As Nitrogen | mg/l | 9 | 0.930 | 0.85 | 0.497 | 1.75 | 0.02 |
| 13-WALK-9.8 | Nitrogen | mg/l | 9 | 1.644 | 1.54 | 0.590 | 2.53 | 0.80 |
| 13-WALK-9.8 | Nitrogen, Ammonia (As N) | mg/l | 9 | 0.072 | 0.05 | 0.088 | 0.29 | 0.01 |
| 13-WALK-9.8 | Nitrogen, Kjeldahl, Total | mg/l | 9 | 0.776 | 0.72 | 0.188 | 1.16 | 0.55 |
| 13-WALK-9.8 | Nitrogen, Nitrate (As N) | mg/l | 9 | 0.921 | 0.85 | 0.493 | 1.74 | 0.02 |
| 13-WALK-9.8 | Nitrogen, Nitrite | mg/l | 9 | 0.014 | 0.01 | 0.005 | NA | NA |
| 13-WALK-9.8 | Phosphorus, Total (As P) | mg/l | 9 | 0.162 | 0.14 | 0.041 | 0.22 | 0.12 |
| 13-WALK-9.8 | Silver | ug/l | 9 | 0.060 | 0.06 | NA | NA | NA |
| 13-WALK-9.8 | Total Dissolved Solids (Residue, Filterable) | mg/l | 4 | 262.750 | 266.00 | 58.025 | 320.00 | 199.00 |
| 13-WALK-9.8 | Turbidity | ntu | 9 | 9.266 | 6.95 | 8.578 | 31.00 | 1.19 |
| 13-WALK-9.8 | Zinc | ug/l | 9 | 6.322 | 4.80 | 4.153 | 14.70 | 2.80 |

In-Situ Measurements: 13-WALK-9.8

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-9.8 | Chl\_RFU | RFU | 4 | 0.840 | 0.86 | 0.516 | 1.44 | 0.20 |
| 13-WALK-9.8 | Chl\_ugL | ug/L | 4 | 3.585 | 3.75 | 2.155 | 5.94 | 0.90 |
| 13-WALK-9.8 | CONDUCTANCE | uS/cm | 9 | 526.489 | 538.00 | 106.171 | 663.00 | 382.90 |
| 13-WALK-9.8 | DISSOLVED\_OXYGEN | mg/L | 9 | 9.276 | 8.30 | 2.889 | 15.50 | 6.51 |
| 13-WALK-9.8 | PC\_RFU | RFU | 4 | 0.065 | 0.06 | 0.060 | 0.14 | 0.00 |
| 13-WALK-9.8 | PC\_ugL | ug/L | 4 | 0.085 | 0.08 | 0.074 | 0.18 | 0.00 |
| 13-WALK-9.8 | PCT\_SATURATION | % | 9 | 108.256 | 91.00 | 39.270 | 197.00 | 73.50 |
| 13-WALK-9.8 | PH | std units | 8 | 8.136 | 8.08 | 0.307 | 8.66 | 7.74 |
| 13-WALK-9.8 | SALINITY | ppt | 8 | 0.246 | 0.25 | 0.049 | 0.30 | 0.18 |
| 13-WALK-9.8 | TEMPERATURE | deg C | 9 | 22.600 | 24.20 | 4.463 | 27.40 | 15.00 |

Water Quality Standard Exceedances: 13-WALK-9.8

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WALK-9.8 | 2018 | ph | ph\_units | <=8.5 | 8.66 |

Numeric Nutrient Criteria: 13-WALK-9.8

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-9.8 | PHOSPHORUS, TOTAL (AS P) | 9 | 0.162 | 0 | 0.12 | 0.22 | 0.14 | Aquatic Chronic |

BAP Score: 13-WALK-9.8

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-9.8 | 8/16/2018 | 5.74 | 0.4 | 4 |

### Site ID: 13-WKLEI-0.6

Chemistry Measurements: 13-WKLEI-0.6

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WKLEI-0.6 | Alkalinity, Total (As Caco3) | mg/l | 10 | 81.800 | 85.200 | 16.377 | 106.00 | 54.40 |
| 13-WKLEI-0.6 | Aluminum | ug/l | 10 | 1663.100 | 1032.000 | 1694.446 | 6090.00 | 410.00 |
| 13-WKLEI-0.6 | Arsenic | ug/l | 10 | 1.316 | 1.200 | 0.847 | NA | NA |
| 13-WKLEI-0.6 | Cadmium | ug/l | 10 | 0.100 | 0.100 | 0.000 | NA | NA |
| 13-WKLEI-0.6 | Calcium | ug/l | 5 | 25760.000 | 21400.000 | 8859.345 | 35500.00 | 16900.00 |
| 13-WKLEI-0.6 | Chloride (As Cl) | mg/l | 10 | 19.660 | 20.750 | 6.715 | 29.60 | 11.20 |
| 13-WKLEI-0.6 | Chlorophyll A | ug/l | 10 | 6.100 | 2.925 | 9.021 | 31.10 | 0.57 |
| 13-WKLEI-0.6 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 271.800 | 270.000 | 19.854 | 300.00 | 252.00 |
| 13-WKLEI-0.6 | Copper | ug/l | 10 | 3.450 | 2.900 | 2.209 | 9.10 | 1.60 |
| 13-WKLEI-0.6 | Hardness (As Caco3) | mg/l | 10 | 106.200 | 119.000 | 27.038 | 130.00 | 60.10 |
| 13-WKLEI-0.6 | Iron | ug/l | 10 | 3157.200 | 2190.000 | 3208.068 | 11600.00 | 682.00 |
| 13-WKLEI-0.6 | Lead | ug/l | 10 | 2.695 | 1.750 | 3.035 | 10.90 | 0.51 |
| 13-WKLEI-0.6 | Magnesium | ug/l | 10 | 6727.000 | 6560.000 | 1721.782 | 10200.00 | 4330.00 |
| 13-WKLEI-0.6 | Nickel | ug/l | 10 | 3.860 | 3.150 | 3.032 | 11.50 | 1.10 |
| 13-WKLEI-0.6 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.046 | 0.045 | 0.021 | 0.07 | 0.00 |
| 13-WKLEI-0.6 | Nitrogen | mg/l | 5 | 0.706 | 0.720 | 0.285 | 1.03 | 0.39 |
| 13-WKLEI-0.6 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.031 | 0.020 | 0.017 | 0.06 | 0.01 |
| 13-WKLEI-0.6 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.660 | 0.670 | 0.291 | 1.00 | 0.35 |
| 13-WKLEI-0.6 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.050 | 0.050 | 0.013 | NA | NA |
| 13-WKLEI-0.6 | Nitrogen, Nitrite | mg/l | 10 | 0.010 | 0.010 | NA | NA | NA |
| 13-WKLEI-0.6 | Ph | pH units | 5 | 7.684 | 7.660 | 0.168 | 7.96 | 7.54 |
| 13-WKLEI-0.6 | Phosphorus, Total (As P) | mg/l | 10 | 0.087 | 0.080 | 0.051 | 0.22 | 0.04 |
| 13-WKLEI-0.6 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WKLEI-0.6 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 146.500 | 143.500 | 22.461 | 175.00 | 107.00 |
| 13-WKLEI-0.6 | Turbidity | ntu | 10 | 47.073 | 42.450 | 32.808 | 102.00 | 6.83 |
| 13-WKLEI-0.6 | Zinc | ug/l | 10 | 11.130 | 7.950 | 9.263 | 34.70 | 3.80 |

In-Situ Measurements: 13-WKLEI-0.6

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WKLEI-0.6 | CONDUCTANCE | uS/cm | 7 | 407.500 | 298.50 | 403.969 | 1315.00 | 157.00 |
| 13-WKLEI-0.6 | DISSOLVED\_OXYGEN | mg/L | 7 | 6.296 | 6.70 | 1.493 | 8.57 | 4.50 |
| 13-WKLEI-0.6 | PCT\_SATURATION | % | 7 | 72.543 | 81.00 | 15.167 | 86.00 | 51.00 |
| 13-WKLEI-0.6 | PH | std units | 7 | 7.463 | 7.45 | 0.263 | 7.88 | 7.08 |
| 13-WKLEI-0.6 | SALINITY | ppt | 7 | 0.196 | 0.14 | 0.202 | 0.65 | 0.07 |
| 13-WKLEI-0.6 | TEMPERATURE | deg C | 7 | 22.443 | 22.90 | 3.416 | 26.50 | 15.60 |

Water Quality Standard Exceedances: 13-WKLEI-0.6

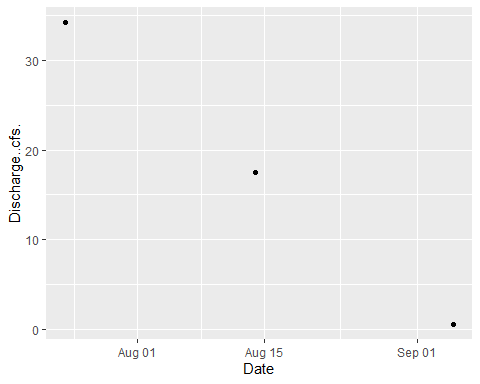
| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WKLEI-0.6 | 2018 | dissolved\_oxygen | mg/l | >=5 | 4.6 |
| 13-WKLEI-0.6 | 2018 | dissolved\_oxygen | mg/l | >=5 | 4.5 |

Numeric Nutrient Criteria: 13-WKLEI-0.6

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WKLEI-0.6 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.087 | 0 | 0.04 | 0.22 | 0.08 | Aquatic Chronic |

BAP Score: 13-WKLEI-0.6

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WKLEI-0.6 | 8/2/2017 | 5.73 | NA | 1 |
| 13-WKLEI-0.6 | 8/3/2017 | 6.18 | 0.49 | 3 |



### Site ID: 13-WALK-2.1

Chemistry Measurements: 13-WALK-2.1

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-2.1 | Alkalinity, Total (As Caco3) | mg/l | 10 | 106.020 | 112.000 | 16.036 | 129.00 | 78.80 |
| 13-WALK-2.1 | Aluminum | ug/l | 10 | 345.400 | 180.000 | 337.829 | 989.00 | 102.00 |
| 13-WALK-2.1 | Arsenic | ug/l | 10 | 1.418 | 1.300 | 0.749 | NA | NA |
| 13-WALK-2.1 | Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-WALK-2.1 | Calcium | ug/l | 5 | 37520.000 | 36500.000 | 6131.639 | 44200.00 | 28600.00 |
| 13-WALK-2.1 | Chloride (As Cl) | mg/l | 10 | 67.290 | 71.750 | 14.555 | 82.70 | 38.20 |
| 13-WALK-2.1 | Chlorophyll A | ug/l | 10 | 27.960 | 17.800 | 29.278 | 82.70 | 1.25 |
| 13-WALK-2.1 | Conductivity At 25 Degrees Celsius | umhos/cm | 5 | 514.600 | 519.000 | 52.089 | 572.00 | 431.00 |
| 13-WALK-2.1 | Copper | ug/l | 10 | 3.040 | 2.650 | 0.885 | 4.80 | 2.20 |
| 13-WALK-2.1 | Hardness (As Caco3) | mg/l | 10 | 144.000 | 152.000 | 21.129 | 173.00 | 102.00 |
| 13-WALK-2.1 | Iron | ug/l | 10 | 626.500 | 369.500 | 549.161 | 1700.00 | 208.00 |
| 13-WALK-2.1 | Lead | ug/l | 10 | 1.256 | 0.610 | 0.952 | NA | NA |
| 13-WALK-2.1 | Magnesium | ug/l | 10 | 9913.000 | 10155.000 | 1630.031 | 12700.00 | 7360.00 |
| 13-WALK-2.1 | Nickel | ug/l | 10 | 2.140 | 2.000 | 0.467 | 2.90 | 1.40 |
| 13-WALK-2.1 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.651 | 0.700 | 0.456 | 1.67 | 0.04 |
| 13-WALK-2.1 | Nitrogen | mg/l | 5 | 1.626 | 1.440 | 0.776 | 2.98 | 1.09 |
| 13-WALK-2.1 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.072 | 0.035 | 0.077 | 0.24 | 0.01 |
| 13-WALK-2.1 | Nitrogen, Kjeldahl, Total | mg/l | 5 | 0.976 | 1.000 | 0.259 | 1.31 | 0.64 |
| 13-WALK-2.1 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.643 | 0.690 | 0.452 | 1.65 | 0.04 |
| 13-WALK-2.1 | Nitrogen, Nitrite | mg/l | 10 | 0.018 | 0.020 | 0.004 | NA | NA |
| 13-WALK-2.1 | Ph | pH units | 5 | 8.136 | 8.050 | 0.430 | 8.79 | 7.63 |
| 13-WALK-2.1 | Phosphorus, Total (As P) | mg/l | 10 | 0.151 | 0.135 | 0.046 | 0.24 | 0.11 |
| 13-WALK-2.1 | Silver | ug/l | 10 | 0.080 | 0.080 | NA | NA | NA |
| 13-WALK-2.1 | Total Dissolved Solids (Residue, Filterable) | mg/l | 10 | 262.000 | 269.500 | 36.114 | 305.00 | 183.00 |
| 13-WALK-2.1 | Turbidity | ntu | 10 | 9.969 | 8.185 | 7.598 | 28.50 | 2.02 |
| 13-WALK-2.1 | Zinc | ug/l | 10 | 7.938 | 5.350 | 5.165 | NA | NA |

In-Situ Measurements: 13-WALK-2.1

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-2.1 | CONDUCTANCE | uS/cm | 7 | 461.127 | 465.10 | 147.767 | 700.00 | 308.00 |
| 13-WALK-2.1 | DISSOLVED\_OXYGEN | mg/L | 7 | 9.379 | 8.11 | 3.150 | 14.63 | 6.65 |
| 13-WALK-2.1 | PCT\_SATURATION | % | 7 | 113.486 | 89.00 | 45.858 | 181.00 | 82.90 |
| 13-WALK-2.1 | PH | std units | 7 | 7.833 | 7.62 | 0.730 | 9.05 | 6.99 |
| 13-WALK-2.1 | SALINITY | ppt | 5 | 0.218 | 0.16 | 0.087 | 0.34 | 0.15 |
| 13-WALK-2.1 | TEMPERATURE | deg C | 7 | 24.229 | 26.40 | 5.903 | 32.30 | 16.20 |

Water Quality Standard Exceedances: 13-WALK-2.1

| **Site** | **Year** | **Parameter** | **Units** | **Standard** | **Result** |
| --- | --- | --- | --- | --- | --- |
| 13-WALK-2.1 | 2017 | ph | ph\_units | <=8.5 | 8.79 |
| 13-WALK-2.1 | 2018 | ph | ph\_units | <=8.5 | 9.05 |
| 13-WALK-2.1 | 2018 | ph | ph\_units | <=8.5 | 8.55 |

Numeric Nutrient Criteria: 13-WALK-2.1

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-2.1 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.151 | 5 | 0.11 | 0.24 | 0.135 | Aquatic Chronic |

BAP Score: 13-WALK-2.1

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-WALK-2.1 | 8/16/2018 | 3.10 | 0.79 | 4 |
| 13-WALK-2.1 | 8/24/2017 | 5.19 | 0.72 | 2 |

### Site ID: 13-SWAK-1.7

Chemistry Measurements: 13-SWAK-1.7

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-SWAK-1.7 | Alkalinity, Total (As Caco3) | mg/l | 10 | 75.920 | 77.400 | 12.492 | 89.60 | 45.20 |
| 13-SWAK-1.7 | Aluminum | ug/l | 10 | 21.580 | 20.950 | 12.818 | 43.10 | 5.80 |
| 13-SWAK-1.7 | Arsenic | ug/l | 10 | 0.694 | 0.615 | 0.241 | 1.20 | 0.46 |
| 13-SWAK-1.7 | Cadmium | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-SWAK-1.7 | Calcium | ug/l | 10 | 29290.000 | 28850.000 | 4876.121 | 34300.00 | 17900.00 |
| 13-SWAK-1.7 | Chloride (As Cl) | mg/l | 10 | 25.580 | 26.050 | 5.735 | 35.60 | 15.10 |
| 13-SWAK-1.7 | Chlorophyll A | ug/l | 10 | 0.887 | 0.610 | 0.843 | 2.59 | 0.14 |
| 13-SWAK-1.7 | Copper | ug/l | 10 | 0.727 | 0.730 | 0.035 | NA | NA |
| 13-SWAK-1.7 | Hardness (As Caco3) | mg/l | 10 | 87.170 | 85.500 | 14.593 | 102.00 | 52.90 |
| 13-SWAK-1.7 | Iron | ug/l | 10 | 226.830 | 184.500 | 201.232 | 720.00 | 29.60 |
| 13-SWAK-1.7 | Lead | ug/l | 10 | 0.282 | 0.170 | 0.176 | NA | NA |
| 13-SWAK-1.7 | Magnesium | ug/l | 9 | 3403.333 | 3410.000 | 606.795 | 3930.00 | 2010.00 |
| 13-SWAK-1.7 | Nickel | ug/l | 10 | 0.584 | 0.535 | 0.171 | 0.85 | 0.37 |
| 13-SWAK-1.7 | Nitrate+Nitrite As Nitrogen | mg/l | 10 | 0.076 | 0.085 | 0.055 | 0.16 | 0.00 |
| 13-SWAK-1.7 | Nitrogen | mg/l | 10 | 0.644 | 0.640 | 0.216 | NA | NA |
| 13-SWAK-1.7 | Nitrogen, Ammonia (As N) | mg/l | 10 | 0.015 | 0.010 | 0.010 | NA | NA |
| 13-SWAK-1.7 | Nitrogen, Kjeldahl, Total | mg/l | 10 | 0.554 | 0.550 | 0.220 | 1.04 | 0.21 |
| 13-SWAK-1.7 | Nitrogen, Nitrate (As N) | mg/l | 10 | 0.094 | 0.100 | 0.045 | NA | NA |
| 13-SWAK-1.7 | Nitrogen, Nitrite | mg/l | 10 | NaN | NA | NA | NA | NA |
| 13-SWAK-1.7 | Phosphorus, Total (As P) | mg/l | 10 | 0.044 | 0.040 | 0.014 | 0.07 | 0.02 |
| 13-SWAK-1.7 | Silver | ug/l | 10 | NaN | NA | NA | NA | NA |
| 13-SWAK-1.7 | Total Dissolved Solids (Residue, Filterable) | mg/l | 5 | 159.600 | 168.000 | 38.875 | 195.00 | 96.00 |
| 13-SWAK-1.7 | Turbidity | ntu | 10 | 1.986 | 1.510 | 1.736 | 5.17 | 0.42 |
| 13-SWAK-1.7 | Zinc | ug/l | 10 | 3.400 | 3.400 | 0.849 | NA | NA |

In-Situ Measurements: 13-SWAK-1.7

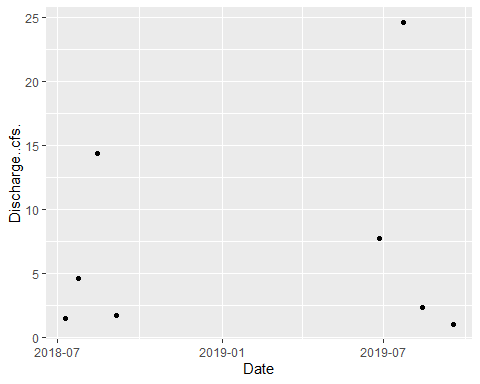
| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-SWAK-1.7 | Chl\_RFU | RFU | 5 | 1.066 | 0.700 | 0.819 | 2.47 | 0.50 |
| 13-SWAK-1.7 | Chl\_ugL | ug/L | 5 | 3.792 | 2.800 | 3.490 | 9.60 | 0.46 |
| 13-SWAK-1.7 | CONDUCTANCE | uS/cm | 12 | 228.917 | 231.350 | 115.042 | 479.90 | 89.60 |
| 13-SWAK-1.7 | DISSOLVED\_OXYGEN | mg/L | 12 | 9.196 | 8.245 | 2.233 | 12.67 | 5.44 |
| 13-SWAK-1.7 | PC\_RFU | RFU | 5 | 0.008 | 0.010 | 0.154 | 0.20 | -0.20 |
| 13-SWAK-1.7 | PC\_ugL | ug/L | 5 | 0.070 | 0.010 | 0.141 | 0.30 | -0.06 |
| 13-SWAK-1.7 | PCT\_SATURATION | % | 12 | 91.275 | 93.550 | 8.897 | 98.50 | 64.20 |
| 13-SWAK-1.7 | PH | std units | 12 | 7.727 | 7.790 | 0.185 | 8.00 | 7.42 |
| 13-SWAK-1.7 | SALINITY | ppt | 12 | 0.110 | 0.110 | 0.056 | 0.23 | 0.04 |
| 13-SWAK-1.7 | TEMPERATURE | deg C | 12 | 15.975 | 21.100 | 8.664 | 24.00 | 2.50 |

Numeric Nutrient Criteria: 13-SWAK-1.7

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-SWAK-1.7 | PHOSPHORUS, TOTAL (AS P) | 10 | 0.044 | 0 | 0.02 | 0.07 | 0.04 | Aquatic Chronic |

BAP Score: 13-SWAK-1.7

| **SITE\_ID** | **DATE** | **BAP** | **SD** | **n** |
| --- | --- | --- | --- | --- |
| 13-SWAK-1.7 | 8/27/2018 | 6.58 | 0.12 | 4 |
| 13-SWAK-1.7 | 8/8/2019 | 6.72 | 0.72 | 4 |



### Site ID: sturgeon\_pool\_epilimnion

Chemistry Measurements: sturgeon\_pool\_epilimnion

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sturgeon\_pool\_epilimnion | Alkalinity, Total (As Caco3) | mg/l | 3 | 106.600 | 104.000 | 21.220 | 129.000 | 86.800 |
| sturgeon\_pool\_epilimnion | Calcium | mg/l | 3 | 38.567 | 39.100 | 5.021 | 43.300 | 33.300 |
| sturgeon\_pool\_epilimnion | Chloride (As Cl) | mg/l | 2 | 71.250 | 71.250 | 0.212 | 71.400 | 71.100 |
| sturgeon\_pool\_epilimnion | Chlorophyll A | ug/l | 3 | 23.840 | 15.000 | 24.468 | 51.500 | 5.020 |
| sturgeon\_pool\_epilimnion | Dissolved Organic Carbon | mg/l | 1 | 6.200 | 6.200 | NA | 6.200 | 6.200 |
| sturgeon\_pool\_epilimnion | Iron | ug/l | 3 | 117.833 | 103.000 | 40.824 | 164.000 | 86.500 |
| sturgeon\_pool\_epilimnion | Manganese | ug/l | 3 | 43.667 | 32.700 | 19.955 | 66.700 | 31.600 |
| sturgeon\_pool\_epilimnion | Nitrate+Nitrite As Nitrogen | mg/l | 3 | 0.472 | 0.661 | 0.361 | 0.700 | 0.056 |
| sturgeon\_pool\_epilimnion | Nitrogen, Ammonia (As N) | mg/l | 3 | 0.080 | 0.092 | 0.058 | 0.132 | 0.017 |
| sturgeon\_pool\_epilimnion | Nitrogen, Kjeldahl, Total | mg/l | 3 | 0.783 | 0.780 | 0.175 | 0.960 | 0.610 |
| sturgeon\_pool\_epilimnion | Phosphorus, Total (As P) | mg/l | 5 | 0.096 | 0.099 | 0.024 | 0.122 | 0.057 |
| sturgeon\_pool\_epilimnion | Sulfate (As So4) | mg/l | 3 | 17.033 | 17.200 | 1.159 | 18.100 | 15.800 |
| sturgeon\_pool\_epilimnion | Total Organic Carbon | mg/l | 2 | 6.950 | 6.950 | 1.061 | 7.700 | 6.200 |
| sturgeon\_pool\_epilimnion | True Color | color units | 3 | 64.000 | 55.000 | 32.450 | 100.000 | 37.000 |

In-Situ Measurements: sturgeon\_pool\_epilimnion

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: sturgeon\_pool\_epilimnion

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

### Site ID: sturgeon\_pool\_hypolimnion

Chemistry Measurements: sturgeon\_pool\_hypolimnion

| **SITE\_ID** | **Parameter** | **Units** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sturgeon\_pool\_hypolimnion | Alkalinity, Total (As Caco3) | mg/l | 3 | 92.600 | 94.000 | 13.156 | 105.000 | 78.800 |
| sturgeon\_pool\_hypolimnion | Arsenic | ug/l | 3 | 1.567 | 1.500 | 0.115 | 1.700 | 1.500 |
| sturgeon\_pool\_hypolimnion | Calcium | mg/l | 3 | 34.067 | 32.000 | 5.311 | 40.100 | 30.100 |
| sturgeon\_pool\_hypolimnion | Chloride (As Cl) | mg/l | 3 | 53.233 | 47.600 | 16.297 | 71.600 | 40.500 |
| sturgeon\_pool\_hypolimnion | Dissolved Organic Carbon | mg/l | 1 | 6.200 | 6.200 | NA | 6.200 | 6.200 |
| sturgeon\_pool\_hypolimnion | Iron | ug/l | 3 | 233.667 | 196.000 | 66.108 | 310.000 | 195.000 |
| sturgeon\_pool\_hypolimnion | Manganese | ug/l | 3 | 402.000 | 136.000 | 465.062 | 939.000 | 131.000 |
| sturgeon\_pool\_hypolimnion | Nitrate+Nitrite As Nitrogen | mg/l | 3 | 0.619 | 0.657 | 0.305 | 0.903 | 0.297 |
| sturgeon\_pool\_hypolimnion | Nitrogen, Ammonia (As N) | mg/l | 3 | 0.372 | 0.236 | 0.268 | 0.681 | 0.200 |
| sturgeon\_pool\_hypolimnion | Nitrogen, Kjeldahl, Total | mg/l | 2 | 0.735 | 0.735 | 0.064 | 0.780 | 0.690 |
| sturgeon\_pool\_hypolimnion | Phosphorus, Total (As P) | mg/l | 6 | 0.114 | 0.113 | 0.012 | 0.129 | 0.102 |
| sturgeon\_pool\_hypolimnion | Sulfate (As So4) | mg/l | 3 | 15.067 | 18.000 | 5.255 | 18.200 | 9.000 |
| sturgeon\_pool\_hypolimnion | Total Organic Carbon | mg/l | 1 | 8.100 | 8.100 | NA | 8.100 | 8.100 |
| sturgeon\_pool\_hypolimnion | True Color | color units | 2 | 68.500 | 68.500 | 44.548 | 100.000 | 37.000 |

In-Situ Measurements: sturgeon\_pool\_hypolimnion

| **SITE\_ID** | **PARAMETER\_NAME** | **unit** | **Number** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

Numeric Nutrient Criteria: sturgeon\_pool\_hypolimnion

| **SITE\_ID** | **Parameter** | **Records** | **Mean** | **Exceedance** | **Min** | **Max** | **Median** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |