Section II: Site Specific Data

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Section II provides a summary of results from each sampling location. Descriptive tables include applicable established water quality standards (6 NYCRR Part 703), as well as narrative standards. Nutrients are regulated by a narrative water quality standard stating: “None in amounts that result in growths of algae, weeds, and slimes that will impair the waters for their best usages” (6 NYCRR 703.2).

Data tables include a summary of general chemistry, in situ chemistry results, BAP scores and instantaneous discharge (where available). Water chemistry results are summarized by number of records reported after meeting quality assurance standards, and a statistical summary that includes mean, median, standard deviation (SD), minimum, and maximum concentrations. Violations of water quality standards at each site are also included. Complete, quality assured raw chemistry data results accompanied by all applicable standards are available in Attachment I (excel file). BAP scores are provided and include date of the sample,mean BAP score, standard deviation (SD), standard error (SE) and number of records. Instantaneous stream discharge (cubic feet/second) is reported for dates when conditions allowed safe, wadeable access to streams (RAS QAPP (17-19); SOP #210-21).

### 02-DODG-0.3 | Waterbody Class: C | PWL\_ID: 0201-0065

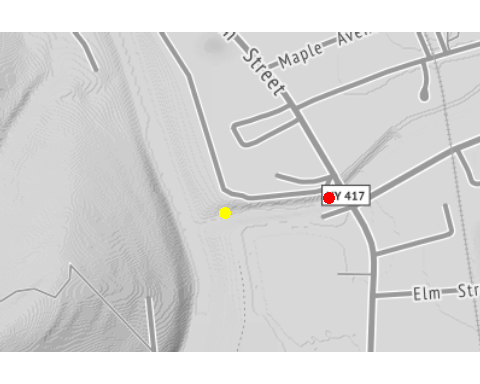


Figure : Map of site locations. Specific site is red, sites in the rest of the study are mapped in yellow.

Applicable Standards: 02-DODG-0.3

| **Waterbody Class** | **Parameter** | **Fraction** | **Units** | **Standard Narrative** |
| --- | --- | --- | --- | --- |
| C | ammonia | total | ug/l | Standard is based on pH and temperature |
| C | dissolved\_oxygen | dissolved | mg/l | Minimum daily average shall not be less than 5.0 mg/L, and at no time shall the DO concentration be less than 4.0 mg/ L. |
| C | nitrite | total | ug/l | Standard is 100 ug/L except 20 ug/L for trout waters (T or TS). |
| C | ph | total | ph\_units | Shall not be less than 6.5 nor more than 8.5. |

Chemistry Measurements: 02-DODG-0.3

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity, Total (As Caco3) | mg/L | 1 | 3.63e+01 | 3.63e+01 | NA | 3.63e+01 | 3.63e+01 |
| Aluminum | µg/L | 1 | 2.78e+02 | 2.78e+02 | NA | 2.78e+02 | 2.78e+02 |
| Arsenic | µg/L | 1 | 1.40e+00 | 1.40e+00 | NA | 1.40e+00 | 1.40e+00 |
| Cadmium | µg/L | 1 | 1.90e-01 | 1.90e-01 | NA | 1.90e-01 | 1.90e-01 |
| Calcium | µg/L | 1 | 1.14e+04 | 1.14e+04 | NA | 1.14e+04 | 1.14e+04 |
| Chloride | mg/L | 1 | 1.63e+01 | 1.63e+01 | NA | 1.63e+01 | 1.63e+01 |
| Copper | µg/L | 1 | 1.30e+00 | 1.30e+00 | NA | 1.30e+00 | 1.30e+00 |
| Hardness (As Caco3) | mg/L | 1 | 4.11e+01 | 4.11e+01 | NA | 4.11e+01 | 4.11e+01 |
| Iron | µg/L | 1 | 7.82e+02 | 7.82e+02 | NA | 7.82e+02 | 7.82e+02 |
| Lead | µg/L | 1 | 5.10e-01 | 5.10e-01 | NA | 5.10e-01 | 5.10e-01 |
| Magnesium | µg/L | 1 | 3.07e+03 | 3.07e+03 | NA | 3.07e+03 | 3.07e+03 |
| Nickel | µg/L | 1 | 8.30e-01 | 8.30e-01 | NA | 8.30e-01 | 8.30e-01 |
| Nitrogen, Ammonia (As N) | mg/L | 1 | 2.60e-02 | 2.60e-02 | NA | 2.60e-02 | 2.60e-02 |
| Nitrogen, Kjeldahl, Total | mg/L | 1 | 3.60e-01 | 3.60e-01 | NA | 3.60e-01 | 3.60e-01 |
| Nitrogen, Nitrate-Nitrite | mg/L | 1 | 1.10e-01 | 1.10e-01 | NA | 1.10e-01 | 1.10e-01 |
| Nitrogen, Nitrate (As N) | mg/L | 1 | 1.10e-01 | 1.10e-01 | NA | 1.10e-01 | 1.10e-01 |
| Nitrogen, Nitrite | mg/L | 1 | 3.50e-03 | 3.50e-03 | NA | 3.50e-03 | 3.50e-03 |
| Nitrogen, Total | mg/L | 1 | 4.70e-01 | 4.70e-01 | NA | 4.70e-01 | 4.70e-01 |
| Phosphorus, Total (As P) | mg/L | 1 | 5.66e-02 | 5.66e-02 | NA | 5.66e-02 | 5.66e-02 |
| Silver | µg/L | 1 | 2.10e-02 | 2.10e-02 | NA | 2.10e-02 | 2.10e-02 |
| Zinc | µg/L | 1 | 1.25e+00 | 1.25e+00 | NA | 1.25e+00 | 1.25e+00 |

In-Situ Measurements: 02-DODG-0.3

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Dissolved Oxygen | mg/L | 1 | 9.03 | 9.03 | NA | 9.03 | 9.03 |
| Dissolved Oxygen Saturation | % | 1 | 101.60 | 101.60 | NA | 101.60 | 101.60 |
| Ph | pH units | 1 | 7.93 | 7.93 | NA | 7.93 | 7.93 |
| Salinity | ppt | 1 | 0.06 | 0.06 | NA | 0.06 | 0.06 |
| Specific Conductance | uS/cm | 1 | 132.20 | 132.20 | NA | 132.20 | 132.20 |
| Temperature | °C | 1 | 21.20 | 21.20 | NA | 21.20 | 21.20 |

*Water Quality Standard Violations*

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

Biological Assessment Score (BAP) Summary: 02-DODG-0.3

| **DATE** | **BAP** | **Standard Deviation** | **Standard Error** | **Record Count** |
| --- | --- | --- | --- | --- |
| 2021-07-01 | 6.91 | 0.35 | 0.2 | 3 |

### 02-DODG-0.1 | Waterbody Class: C | PWL\_ID: 0201-0065

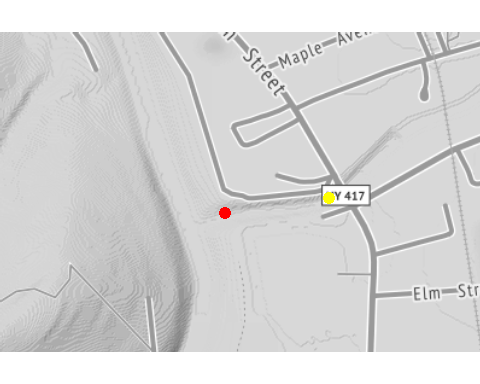


Figure : Map of site locations. Specific site is red, sites in the rest of the study are mapped in yellow.

Applicable Standards: 02-DODG-0.1

| **Waterbody Class** | **Parameter** | **Fraction** | **Units** | **Standard Narrative** |
| --- | --- | --- | --- | --- |
| C | ammonia | total | ug/l | Standard is based on pH and temperature |
| C | dissolved\_oxygen | dissolved | mg/l | Minimum daily average shall not be less than 5.0 mg/L, and at no time shall the DO concentration be less than 4.0 mg/ L. |
| C | nitrite | total | ug/l | Standard is 100 ug/L except 20 ug/L for trout waters (T or TS). |
| C | ph | total | ph\_units | Shall not be less than 6.5 nor more than 8.5. |

Chemistry Measurements: 02-DODG-0.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alkalinity, Total (As Caco3) | mg/L | 1 | 3.60e+01 | 3.60e+01 | NA | 3.60e+01 | 3.60e+01 |
| Aluminum | µg/L | 1 | 4.63e+02 | 4.63e+02 | NA | 4.63e+02 | 4.63e+02 |
| Arsenic | µg/L | 1 | 1.60e+00 | 1.60e+00 | NA | 1.60e+00 | 1.60e+00 |
| Cadmium | µg/L | 1 | 1.90e-01 | 1.90e-01 | NA | 1.90e-01 | 1.90e-01 |
| Calcium | µg/L | 1 | 1.12e+04 | 1.12e+04 | NA | 1.12e+04 | 1.12e+04 |
| Chloride | mg/L | 1 | 1.54e+01 | 1.54e+01 | NA | 1.54e+01 | 1.54e+01 |
| Copper | µg/L | 1 | 2.20e+00 | 2.20e+00 | NA | 2.20e+00 | 2.20e+00 |
| Hardness (As Caco3) | mg/L | 1 | 3.96e+01 | 3.96e+01 | NA | 3.96e+01 | 3.96e+01 |
| Iron | µg/L | 1 | 1.23e+03 | 1.23e+03 | NA | 1.23e+03 | 1.23e+03 |
| Lead | µg/L | 1 | 1.10e+00 | 1.10e+00 | NA | 1.10e+00 | 1.10e+00 |
| Magnesium | µg/L | 1 | 2.80e+03 | 2.80e+03 | NA | 2.80e+03 | 2.80e+03 |
| Nickel | µg/L | 1 | 1.20e+00 | 1.20e+00 | NA | 1.20e+00 | 1.20e+00 |
| Nitrogen, Ammonia (As N) | mg/L | 1 | 7.20e-02 | 7.20e-02 | NA | 7.20e-02 | 7.20e-02 |
| Nitrogen, Kjeldahl, Total | mg/L | 1 | 5.70e-01 | 5.70e-01 | NA | 5.70e-01 | 5.70e-01 |
| Nitrogen, Nitrate-Nitrite | mg/L | 1 | 1.83e-01 | 1.83e-01 | NA | 1.83e-01 | 1.83e-01 |
| Nitrogen, Nitrate (As N) | mg/L | 1 | 1.83e-01 | 1.83e-01 | NA | 1.83e-01 | 1.83e-01 |
| Nitrogen, Nitrite | mg/L | 1 | 3.50e-03 | 3.50e-03 | NA | 3.50e-03 | 3.50e-03 |
| Nitrogen, Total | mg/L | 1 | 7.50e-01 | 7.50e-01 | NA | 7.50e-01 | 7.50e-01 |
| Phosphorus, Total (As P) | mg/L | 1 | 1.19e-01 | 1.19e-01 | NA | 1.19e-01 | 1.19e-01 |
| Silver | µg/L | 1 | 2.10e-02 | 2.10e-02 | NA | 2.10e-02 | 2.10e-02 |
| Turbidity | NTU | 1 | 2.86e+01 | 2.86e+01 | NA | 2.86e+01 | 2.86e+01 |
| Zinc | µg/L | 1 | 6.00e+00 | 6.00e+00 | NA | 6.00e+00 | 6.00e+00 |

In-Situ Measurements: 02-DODG-0.1

| **Parameter** | **Units** | **Record Count** | **Mean** | **Median** | **SD** | **Max** | **Min** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Dissolved Oxygen | mg/L | 1 | 8.40 | 8.40 | NA | 8.40 | 8.40 |
| Dissolved Oxygen Saturation | % | 1 | 94.40 | 94.40 | NA | 94.40 | 94.40 |
| Ph | pH units | 1 | 7.52 | 7.52 | NA | 7.52 | 7.52 |
| Salinity | ppt | 1 | 0.05 | 0.05 | NA | 0.05 | 0.05 |
| Specific Conductance | uS/cm | 1 | 115.80 | 115.80 | NA | 115.80 | 115.80 |
| Temperature | °C | 1 | 21.10 | 21.10 | NA | 21.10 | 21.10 |

*Water Quality Standard Violations*

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

Biological Assessment Score (BAP) Summary: 02-DODG-0.1

| **DATE** | **BAP** | **Standard Deviation** | **Standard Error** | **Record Count** |
| --- | --- | --- | --- | --- |
| 2021-07-01 | 6.73 | 0.24 | 0.14 | 3 |