

# CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: Desi

RQ: 2024-07-15-52

Project: Doctors Lake

Algae Resample

- Notes: (1) Always wait for meter to stabilize before recording any readings.  
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).  
(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

7/2/24

| DO<br>DEP SOP<br>FT 1500 | Name     | Date    | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|----------|---------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|----------------|----------------|
| Calibr.                  | H. Brown | 7/16/24 | 724           | 21.7       | 761.9                  | 8.8                   | —                     | 100.3 | —               | 1.018         | P/F            | L/F            |
| ICV                      | H. Brown | 7/16/24 | 726           | 21.6       | 761.9                  | 8.8                   | 8.84                  | 100.4 | —               | 1.018         | P/F            | L/F            |
| CCV                      | H. Brown | 7/16/24 | 1355          | 23.6       | 762                    | 8.5                   | 8.57                  | 101   | —               | 1.018         | P/F            | L/F            |
| CCV                      |          |         |               |            |                        |                       |                       |       |                 |               | P/F            | L/F            |

DO Acceptance criteria from Table  $\pm 0.3$  mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

| Spec.<br>Cond.<br>FT 1200 | Name     | Date    | Time<br>CT-ET | Lot #   | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|----------|---------|---------------|---------|----------------|---------------------------|-----------------------------------|----------------|----------------|
| Calibr.                   | H. Brown | 7/16/24 | 728           | 240618A | 06/2025        | 1000                      | 1000                              | P/F            | L/F            |
| ICV                       | H. Brown | 7/16/24 | 730           | 230612A | 01/2025        | 100                       | 99.7                              | P/F            | L/F            |
| CCV                       | H. Brown | 7/16/24 | 1400          | 231103C | 11/2024        | 50000                     | 50779                             | P/F            | L/F            |
| CCV                       |          |         |               |         |                |                           |                                   | P/F            | L/F            |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name     | Date    | Time<br>CT-ET | Lot #    | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV     | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|----------|---------|---------------|----------|----------------|--------------------|------------|------------------------|--------|----------------|----------------|
| Calibr.                  | H. Brown | 7/16/24 | 733           | 43080549 | 9/7/25         | 7.01               | 21.7       | 7.01                   | -32    | P/F            | L/F            |
| Calibr.                  | H. Brown | 7/16/24 | 738           | 44020143 | 2/24/26        | 4.00               | 21.6       | 4.00                   | 140.9  | P/F            | L/F            |
| Calibr.                  | H. Brown | 7/16/24 | 741           | 44020286 | 2/27/26        | 10.03              | 22.1       | 10.03                  | -203.3 | P/F            | L/F            |
| ICV                      | H. Brown | 7/16/24 | 743           | 44020143 | 2/24/26        | 4.00               | 21.7       | 4.05                   | 138.4  | P/F            | L/F            |
| CCV                      | H. Brown | 7/16/24 | 1402          | 44020286 | 2/27/26        | 10.03              | 22.2       | 10.04                  | -204.3 | P/F            | L/F            |
| CCV                      |          |         |               |          |                |                    |            |                        |        | P/F            | L/F            |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ; mV pH 4 Range  $+180 \pm 50$ ; mV pH 10 Range  $-180 \pm 50$ ;

If mV are recorded: slope from 7 to 10 171.3, slope from 4 to 7 172.9 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 7/2/24

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: \_\_\_\_\_; Date of last verification: \_\_\_\_\_

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name     | Date    | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|----------|---------|---------------|-------------------------------------------------|----------------------|----------------|----------------|
| Pressure mode in air                         | H. Brown | 7/16/24 | 745           | 0.00                                            | 0.00                 | P/F            | L/F            |

Report two decimal places. Round numbers  $\leq 4$  down,  $\geq 5$  up. ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater.

COMMENTS:



# Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------|--|
| RQ - 2024-07-15-52                                                                        |                                                                                 |                                                                                                                                |                | Collected By:                                                    |            | Haylee Brown, Katrin Villinger                                                    |                       |                                                                                                                                         |                            |                                                                     |  |
| Customer:                                                                                 |                                                                                 | NE-DIST                                                                                                                        |                | Field Report Prepared By:                                        |            | Haylee Brown                                                                      |                       |                                                                                                                                         |                            |                                                                     |  |
| Project ID:                                                                               |                                                                                 | BLOOM_RESP                                                                                                                     |                | Sampling Agency:                                                 |            | NEROC                                                                             |                       |                                                                                                                                         |                            |                                                                     |  |
| Location: Doctors Lake - Mill Cove                                                        |                                                                                 |                                                                                                                                |                | Comments:                                                        |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Field ID: NEHAB0057                                                                       |                                                                                 |                                                                                                                                |                | Coordinates:                                                     |            | 30.12343, -81.72750                                                               |                       |                                                                                                                                         |                            |                                                                     |  |
| WIN Secondary Resource Type: Lake                                                         |                                                                                 |                                                                                                                                |                | Collection Equip:                                                |            | WaterBottle                                                                       |                       |                                                                                                                                         |                            |                                                                     |  |
| WIN ID: NEHAB0057                                                                         |                                                                                 |                                                                                                                                |                | High Tide Time:                                                  |            | 07:15                                                                             |                       | Low Tide Time:                                                                                                                          |                            | 13:30                                                               |  |
| Matrix:                                                                                   |                                                                                 | Marine                                                                                                                         |                | Grab                                                             |            | Tide:                                                                             |                       | <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |                            |                                                                     |  |
| Water Quality                                                                             |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Date                                                                                      | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(%)                                                                                                                    | D.O.<br>(mg/L) | Temp<br>(°C)                                                     | pH<br>(SU) | Sample<br>Depth<br>(m)                                                            | Total<br>Depth<br>(m) | Secchi<br>Disk<br>(m)                                                                                                                   | Sp. Cond.<br>(µmho/cm)     | Salinity<br>(PPTH)                                                  |  |
| 07/16/2024                                                                                | 09:35                                                                           | 134.4                                                                                                                          | 9.62           | 30.7                                                             | 8.93       | 0.3                                                                               | 0.61                  | 0.5                                                                                                                                     | 13728                      | 7.86                                                                |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Bloom Observations                                                                        |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Water Clarity                                                                             |                                                                                 | <input type="checkbox"/> Clear                                                                                                 |                | <input checked="" type="checkbox"/> Slightly Turbid              |            | <input type="checkbox"/> Turbid                                                   |                       | <input type="checkbox"/> Opaque                                                                                                         |                            |                                                                     |  |
| Bloom Color                                                                               |                                                                                 | <input checked="" type="checkbox"/> Green                                                                                      |                | <input type="checkbox"/> Red                                     |            | <input type="checkbox"/> Brown                                                    |                       | <input type="checkbox"/> Other:                                                                                                         |                            |                                                                     |  |
| Algae Type                                                                                |                                                                                 | <input checked="" type="checkbox"/> Planktonic                                                                                 |                | <input type="checkbox"/> Filamentous                             |            | <input type="checkbox"/> Other:                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Algae Accumulation                                                                        |                                                                                 | <input type="checkbox"/> Mat                                                                                                   |                | <input checked="" type="checkbox"/> Specks                       |            | <input type="checkbox"/> Scum                                                     |                       | <input type="checkbox"/> Glob                                                                                                           |                            |                                                                     |  |
| Algae Distribution                                                                        |                                                                                 | <input type="checkbox"/> Surface-Entire                                                                                        |                | <input type="checkbox"/> Surf-Localized                          |            | <input type="checkbox"/> Surf-Windblown                                           |                       | <input checked="" type="checkbox"/> Suspended                                                                                           |                            | <input type="checkbox"/> Benthic <input type="checkbox"/> Epiphytic |  |
| Parameter Suite                                                                           |                                                                                 | Parameter Methods                                                                                                              |                |                                                                  |            | Preservation                                                                      |                       | pH<br>Check                                                                                                                             | #Bottles<br>Sent to<br>Lab | Bottle<br>Group                                                     |  |
| Algae (PT-50mL)                                                                           |                                                                                 | <input type="checkbox"/> ALGAL-ID <input checked="" type="checkbox"/> BLOOM-ID                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | A                                                                   |  |
| Chlorophyll (BP-1L)                                                                       |                                                                                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Toxins (P-125/BG-250)                                                                     |                                                                                 | <input checked="" type="checkbox"/> W-MCYST-AA <input checked="" type="checkbox"/> W-SAXTN-MS <input type="checkbox"/> OV-TOXN |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Physical/Aggregate                                                                        |                                                                                 | <input checked="" type="checkbox"/> W-COLOR                                                                                    |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Preserved Nutrients<br>(500mL HDPE)                                                       |                                                                                 | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP                                                        |                |                                                                  |            | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |                       | <input checked="" type="checkbox"/> <2                                                                                                  | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 | Acid Lot:                                                                                                                      |                | SA3193140                                                        |            | Exp:                                                                              |                       | 07/31/2024                                                                                                                              |                            |                                                                     |  |
| Filtered Nutrients<br>(P125mL)                                                            |                                                                                 | <input checked="" type="checkbox"/> W-PO4-F                                                                                    |                | <input checked="" type="checkbox"/> Field Filtered 0.45um Filter |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 |                                                                                                                                |                | Filter Lot # 0000222915                                          |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Quantitative Algae                                                                        |                                                                                 | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                                   |                |                                                                  |            | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                       |                                                                                                                                         |                            |                                                                     |  |
| Relinquished By:                                                                          |                                                                                 | Date/Time                                                                                                                      |                | Number of Coolers Shipped                                        |            | Received By:                                                                      |                       | Date/Time                                                                                                                               |                            |                                                                     |  |
| Haylee Brown                                                                              |                                                                                 | 07/16/2024 16:30                                                                                                               |                | 2                                                                |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |



# Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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|                                                                                |                                                                      |                                                                                                                                |                |                                                                                                                   |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------|
| RQ - 2024-07-15-52                                                             |                                                                      |                                                                                                                                | Collected By:  |                                                                                                                   | Haylee Brown, Katrin Villinger |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| Customer:                                                                      |                                                                      | NE-DIST                                                                                                                        |                | Field Report Prepared By:                                                                                         |                                | Haylee Brown                                                                      |                                         |                                                                                                                              |                            |                                                                     |
| Project ID:                                                                    |                                                                      | BLOOM_RESP                                                                                                                     |                | Sampling Agency:                                                                                                  |                                | NEROC                                                                             |                                         |                                                                                                                              |                            |                                                                     |
| Location: Doctors Lake - Mill Cove                                             |                                                                      |                                                                                                                                |                | Comments: 07/16/2024 09:38 ET<br>DISource:NEROC Lab<br>DILocation: NEROC Lab<br>Container ID/Type: CarNB / Carboy |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| Field ID: FB_07162024                                                          |                                                                      |                                                                                                                                |                | Coordinates:                                                                                                      |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| WIN Secondary Resource Type:                                                   |                                                                      |                                                                                                                                |                | Collection Equip:                                                                                                 |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| WIN ID:                                                                        |                                                                      |                                                                                                                                |                | High Tide Time:                                                                                                   |                                | Low Tide Time:                                                                    |                                         |                                                                                                                              |                            |                                                                     |
| Matrix:                                                                        |                                                                      | Field Blank                                                                                                                    |                | Grab                                                                                                              |                                | Tide:                                                                             |                                         | <input type="checkbox"/> Rising <input type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |                            |                                                                     |
| Water Quality                                                                  |                                                                      |                                                                                                                                |                |                                                                                                                   |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| Date                                                                           | Time<br><input type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(%)                                                                                                                    | D.O.<br>(mg/L) | Temp<br>(°C)                                                                                                      | pH<br>(SU)                     | Sample<br>Depth<br>(m)                                                            | Total<br>Depth<br>(m)                   | Secchi<br>Disk<br>(m)                                                                                                        | Sp. Cond.<br>(µmho/cm)     | Salinity<br>(PPTH)                                                  |
|                                                                                |                                                                      |                                                                                                                                |                |                                                                                                                   |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
|                                                                                |                                                                      |                                                                                                                                |                |                                                                                                                   |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
|                                                                                |                                                                      |                                                                                                                                |                |                                                                                                                   |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| Bloom Observations                                                             |                                                                      |                                                                                                                                |                |                                                                                                                   |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| Algal Bloom Observed? <input type="checkbox"/> Yes <input type="checkbox"/> No |                                                                      |                                                                                                                                |                |                                                                                                                   |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| Water Clarity                                                                  |                                                                      | <input type="checkbox"/> Clear                                                                                                 |                | <input type="checkbox"/> Slightly Turbid                                                                          |                                | <input type="checkbox"/> Turbid                                                   |                                         | <input type="checkbox"/> Opaque                                                                                              |                            |                                                                     |
| Bloom Color                                                                    |                                                                      | <input type="checkbox"/> Green                                                                                                 |                | <input type="checkbox"/> Red                                                                                      |                                | <input type="checkbox"/> Brown                                                    |                                         | <input type="checkbox"/> Other: _____                                                                                        |                            |                                                                     |
| Algae Type                                                                     |                                                                      | <input type="checkbox"/> Planktonic                                                                                            |                | <input type="checkbox"/> Filamentous                                                                              |                                | <input type="checkbox"/> Other: _____                                             |                                         |                                                                                                                              |                            |                                                                     |
| Algae Accumulation                                                             |                                                                      | <input type="checkbox"/> Mat                                                                                                   |                | <input type="checkbox"/> Specks                                                                                   |                                | <input type="checkbox"/> Scum                                                     |                                         | <input type="checkbox"/> Glob                                                                                                |                            |                                                                     |
| Algae Distribution                                                             |                                                                      | <input type="checkbox"/> Surface-Entire                                                                                        |                | <input type="checkbox"/> Surf-Localized                                                                           |                                | <input type="checkbox"/> Surf-Windblown                                           |                                         | <input type="checkbox"/> Suspended                                                                                           |                            | <input type="checkbox"/> Benthic <input type="checkbox"/> Epiphytic |
| Parameter Suite                                                                |                                                                      | Parameter Methods                                                                                                              |                |                                                                                                                   |                                | Preservation                                                                      |                                         | pH<br>Check                                                                                                                  | #Bottles<br>Sent to<br>Lab | Bottle<br>Group                                                     |
| Algae (PT-50mL)                                                                |                                                                      | <input type="checkbox"/> ALGAL-ID <input type="checkbox"/> BLOOM-ID                                                            |                |                                                                                                                   |                                | <input type="checkbox"/> Ice                                                      |                                         |                                                                                                                              |                            |                                                                     |
| Chlorophyll (BP-1L)                                                            |                                                                      | <input type="checkbox"/> CHLSUITE-W                                                                                            |                |                                                                                                                   |                                | <input type="checkbox"/> Ice                                                      |                                         |                                                                                                                              |                            |                                                                     |
| Toxins (P-125/BG-250)                                                          |                                                                      | <input checked="" type="checkbox"/> W-MCYST-AA <input checked="" type="checkbox"/> W-SAXTN-MS <input type="checkbox"/> OV-TOXN |                |                                                                                                                   |                                | <input checked="" type="checkbox"/> Ice                                           |                                         |                                                                                                                              | 1                          | C                                                                   |
| Physical/Aggregate                                                             |                                                                      | <input checked="" type="checkbox"/> W-COLOR                                                                                    |                |                                                                                                                   |                                | <input checked="" type="checkbox"/> Ice                                           |                                         |                                                                                                                              | 1                          | C                                                                   |
| Preserved Nutrients<br>(500mL HDPE)                                            |                                                                      | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP                                                        |                |                                                                                                                   |                                | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |                                         | <input checked="" type="checkbox"/> 2<                                                                                       | 1                          | C                                                                   |
|                                                                                |                                                                      | Acid Lot:                                                                                                                      |                | SA3193140                                                                                                         |                                | Exp:                                                                              |                                         | 07/31/2024                                                                                                                   |                            |                                                                     |
| Filtered Nutrients<br>(P125mL)                                                 |                                                                      | <input checked="" type="checkbox"/> W-PO4-F                                                                                    |                | <input checked="" type="checkbox"/> Field Filtered 0.45um Filter                                                  |                                |                                                                                   | <input checked="" type="checkbox"/> Ice |                                                                                                                              | 1                          | C                                                                   |
|                                                                                |                                                                      |                                                                                                                                |                | Filter Lot # 0000222915                                                                                           |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |
| Quantitative Algae                                                             |                                                                      | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                                   |                |                                                                                                                   |                                | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                                         |                                                                                                                              |                            |                                                                     |
| Relinquished By:                                                               |                                                                      | Date/Time                                                                                                                      |                | Number of Coolers Shipped                                                                                         |                                |                                                                                   | Received By:                            |                                                                                                                              | Date/Time                  |                                                                     |
| Haylee Brown                                                                   |                                                                      | 07/16/2024 16:30                                                                                                               |                | 2                                                                                                                 |                                |                                                                                   |                                         |                                                                                                                              |                            |                                                                     |



# Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------|--|
| RQ - 2024-07-15-52                                                                        |                                                                                 |                                                                                                                                |                | Collected By:                                                    |            | Haylee Brown, Katrin Villinger                                                    |                       |                                                                                                                                         |                            |                                                                     |  |
| Customer:                                                                                 |                                                                                 | NE-DIST                                                                                                                        |                | Field Report Prepared By:                                        |            | Haylee Brown                                                                      |                       |                                                                                                                                         |                            |                                                                     |  |
| Project ID:                                                                               |                                                                                 | BLOOM_RESP                                                                                                                     |                | Sampling Agency:                                                 |            | NEROC                                                                             |                       |                                                                                                                                         |                            |                                                                     |  |
| Location: Doctors Lake - Center                                                           |                                                                                 |                                                                                                                                |                | Comments:                                                        |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Field ID: NEHAB0120                                                                       |                                                                                 |                                                                                                                                |                | Coordinates:                                                     |            | 30.13812, -81.72715                                                               |                       |                                                                                                                                         |                            |                                                                     |  |
| WIN Secondary Resource Type: Lake                                                         |                                                                                 |                                                                                                                                |                | Collection Equip:                                                |            | WaterBottle                                                                       |                       |                                                                                                                                         |                            |                                                                     |  |
| WIN ID: NEHAB0120                                                                         |                                                                                 |                                                                                                                                |                | High Tide Time:                                                  |            | 07:15                                                                             |                       | Low Tide Time:                                                                                                                          |                            | 13:30                                                               |  |
| Matrix:                                                                                   |                                                                                 | Marine                                                                                                                         |                | Grab                                                             |            | Tide:                                                                             |                       | <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |                            |                                                                     |  |
| Water Quality                                                                             |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Date                                                                                      | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(%)                                                                                                                    | D.O.<br>(mg/L) | Temp<br>(°C)                                                     | pH<br>(SU) | Sample<br>Depth<br>(m)                                                            | Total<br>Depth<br>(m) | Secchi<br>Disk<br>(m)                                                                                                                   | Sp. Cond.<br>(µmho/cm)     | Salinity<br>(PPTH)                                                  |  |
| 07/16/2024                                                                                | 10:05                                                                           | 119.2                                                                                                                          | 8.58           | 30.6                                                             | 8.73       | 0.3                                                                               | 2.29                  | 0.6                                                                                                                                     | 12383                      | 7.03                                                                |  |
|                                                                                           | 10:08                                                                           | 98.6                                                                                                                           | 7.1            | 30.6                                                             | 8.73       | 1.7                                                                               |                       |                                                                                                                                         |                            | 13160                                                               |  |
| Bloom Observations                                                                        |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Water Clarity                                                                             |                                                                                 | <input type="checkbox"/> Clear                                                                                                 |                | <input checked="" type="checkbox"/> Slightly Turbid              |            | <input type="checkbox"/> Turbid                                                   |                       | <input type="checkbox"/> Opaque                                                                                                         |                            |                                                                     |  |
| Bloom Color                                                                               |                                                                                 | <input checked="" type="checkbox"/> Green                                                                                      |                | <input type="checkbox"/> Red                                     |            | <input type="checkbox"/> Brown                                                    |                       | <input type="checkbox"/> Other:                                                                                                         |                            |                                                                     |  |
| Algae Type                                                                                |                                                                                 | <input checked="" type="checkbox"/> Planktonic                                                                                 |                | <input type="checkbox"/> Filamentous                             |            | <input type="checkbox"/> Other:                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Algae Accumulation                                                                        |                                                                                 | <input type="checkbox"/> Mat                                                                                                   |                | <input checked="" type="checkbox"/> Specks                       |            | <input type="checkbox"/> Scum                                                     |                       | <input checked="" type="checkbox"/> Glob                                                                                                |                            |                                                                     |  |
| Algae Distribution                                                                        |                                                                                 | <input type="checkbox"/> Surface-Entire                                                                                        |                | <input type="checkbox"/> Surf-Localized                          |            | <input type="checkbox"/> Surf-Windblown                                           |                       | <input checked="" type="checkbox"/> Suspended                                                                                           |                            | <input type="checkbox"/> Benthic <input type="checkbox"/> Epiphytic |  |
| Parameter Suite                                                                           |                                                                                 | Parameter Methods                                                                                                              |                |                                                                  |            | Preservation                                                                      |                       | pH<br>Check                                                                                                                             | #Bottles<br>Sent to<br>Lab | Bottle<br>Group                                                     |  |
| Algae (PT-50mL)                                                                           |                                                                                 | <input type="checkbox"/> ALGAL-ID <input checked="" type="checkbox"/> BLOOM-ID                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | A                                                                   |  |
| Chlorophyll (BP-1L)                                                                       |                                                                                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Toxins (P-125/BG-250)                                                                     |                                                                                 | <input checked="" type="checkbox"/> W-MCYST-AA <input checked="" type="checkbox"/> W-SAXTN-MS <input type="checkbox"/> OV-TOXN |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Physical/Aggregate                                                                        |                                                                                 | <input checked="" type="checkbox"/> W-COLOR                                                                                    |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Preserved Nutrients<br>(500mL HDPE)                                                       |                                                                                 | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP                                                        |                |                                                                  |            | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |                       | <input checked="" type="checkbox"/> <2                                                                                                  | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 | Acid Lot:                                                                                                                      |                | SA3193140                                                        |            | Exp:                                                                              |                       | 07/31/2024                                                                                                                              |                            |                                                                     |  |
| Filtered Nutrients<br>(P125mL)                                                            |                                                                                 | <input checked="" type="checkbox"/> W-PO4-F                                                                                    |                | <input checked="" type="checkbox"/> Field Filtered 0.45um Filter |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 |                                                                                                                                |                | Filter Lot # 0000222915                                          |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Quantitative Algae                                                                        |                                                                                 | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                                   |                |                                                                  |            | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                       |                                                                                                                                         |                            |                                                                     |  |
| Relinquished By:                                                                          |                                                                                 | Date/Time                                                                                                                      |                | Number of Coolers Shipped                                        |            | Received By:                                                                      |                       |                                                                                                                                         | Date/Time                  |                                                                     |  |
| Haylee Brown                                                                              |                                                                                 | 07/16/2024 16:30                                                                                                               |                | 2                                                                |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |



# Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------|--|
| RQ - 2024-07-15-52                                                                        |                                                                                 |                                                                                                                                |                | Collected By:                                                    |            | Haylee Brown, Katrin Villinger                                                    |                                         |                                                                                                                                         |                            |                                                                     |  |
| Customer:                                                                                 |                                                                                 | NE-DIST                                                                                                                        |                | Field Report Prepared By:                                        |            | Haylee Brown                                                                      |                                         |                                                                                                                                         |                            |                                                                     |  |
| Project ID:                                                                               |                                                                                 | BLOOM_RESP                                                                                                                     |                | Sampling Agency:                                                 |            | NEROC                                                                             |                                         |                                                                                                                                         |                            |                                                                     |  |
| Location: Doctors Lake - Wyndegate Dr                                                     |                                                                                 |                                                                                                                                |                | Comments:                                                        |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
| Field ID: NEHAB0117                                                                       |                                                                                 |                                                                                                                                |                | Coordinates:                                                     |            | 30.15433, -81.71610                                                               |                                         |                                                                                                                                         |                            |                                                                     |  |
| WIN Secondary Resource Type: Lake                                                         |                                                                                 |                                                                                                                                |                | Collection Equip:                                                |            | WaterBottle                                                                       |                                         |                                                                                                                                         |                            |                                                                     |  |
| WIN ID: NEHAB0117                                                                         |                                                                                 |                                                                                                                                |                | High Tide Time:                                                  |            | 07:15                                                                             |                                         | Low Tide Time:                                                                                                                          |                            | 13:30                                                               |  |
| Matrix:                                                                                   |                                                                                 | Marine                                                                                                                         |                | Grab                                                             |            | Tide:                                                                             |                                         | <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |                            |                                                                     |  |
| Water Quality                                                                             |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
| Date                                                                                      | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(%)                                                                                                                    | D.O.<br>(mg/L) | Temp<br>(°C)                                                     | pH<br>(SU) | Sample<br>Depth<br>(m)                                                            | Total<br>Depth<br>(m)                   | Secchi<br>Disk<br>(m)                                                                                                                   | Sp. Cond.<br>(µmho/cm)     | Salinity<br>(PPTH)                                                  |  |
| 07/16/2024                                                                                | 10:25                                                                           | 103.4                                                                                                                          | 7.52           | 30.2                                                             | 8          | 0.3                                                                               | 1.43                                    | 0.8                                                                                                                                     | 9112                       | 5.05                                                                |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
| Bloom Observations                                                                        |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
| Water Clarity                                                                             |                                                                                 | <input type="checkbox"/> Clear                                                                                                 |                | <input checked="" type="checkbox"/> Slightly Turbid              |            | <input type="checkbox"/> Turbid                                                   |                                         | <input type="checkbox"/> Opaque                                                                                                         |                            |                                                                     |  |
| Bloom Color                                                                               |                                                                                 | <input checked="" type="checkbox"/> Green                                                                                      |                | <input type="checkbox"/> Red                                     |            | <input type="checkbox"/> Brown                                                    |                                         | <input type="checkbox"/> Other:                                                                                                         |                            |                                                                     |  |
| Algae Type                                                                                |                                                                                 | <input checked="" type="checkbox"/> Planktonic                                                                                 |                | <input type="checkbox"/> Filamentous                             |            | <input type="checkbox"/> Other:                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
| Algae Accumulation                                                                        |                                                                                 | <input type="checkbox"/> Mat                                                                                                   |                | <input checked="" type="checkbox"/> Specks                       |            | <input type="checkbox"/> Scum                                                     |                                         | <input checked="" type="checkbox"/> Glob                                                                                                |                            |                                                                     |  |
| Algae Distribution                                                                        |                                                                                 | <input type="checkbox"/> Surface-Entire                                                                                        |                | <input type="checkbox"/> Surf-Localized                          |            | <input type="checkbox"/> Surf-Windblown                                           |                                         | <input checked="" type="checkbox"/> Suspended                                                                                           |                            | <input type="checkbox"/> Benthic <input type="checkbox"/> Epiphytic |  |
| Parameter Suite                                                                           |                                                                                 | Parameter Methods                                                                                                              |                |                                                                  |            | Preservation                                                                      |                                         | pH<br>Check                                                                                                                             | #Bottles<br>Sent to<br>Lab | Bottle<br>Group                                                     |  |
| Algae (PT-50mL)                                                                           |                                                                                 | <input type="checkbox"/> ALGAL-ID <input checked="" type="checkbox"/> BLOOM-ID                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                                         |                                                                                                                                         | 1                          | A                                                                   |  |
| Chlorophyll (BP-1L)                                                                       |                                                                                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                                         |                                                                                                                                         | 1                          | B                                                                   |  |
| Toxins (P-125/BG-250)                                                                     |                                                                                 | <input checked="" type="checkbox"/> W-MCYST-AA <input checked="" type="checkbox"/> W-SAXTN-MS <input type="checkbox"/> OV-TOXN |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                                         |                                                                                                                                         | 1                          | B                                                                   |  |
| Physical/Aggregate                                                                        |                                                                                 | <input checked="" type="checkbox"/> W-COLOR                                                                                    |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                                         |                                                                                                                                         | 1                          | B                                                                   |  |
| Preserved Nutrients<br>(500mL HDPE)                                                       |                                                                                 | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP                                                        |                |                                                                  |            | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |                                         | <input checked="" type="checkbox"/> <2                                                                                                  | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 | Acid Lot:                                                                                                                      |                | SA3193140                                                        |            | Exp:                                                                              |                                         | 07/31/2024                                                                                                                              |                            |                                                                     |  |
| Filtered Nutrients<br>(P125mL)                                                            |                                                                                 | <input checked="" type="checkbox"/> W-PO4-F                                                                                    |                | <input checked="" type="checkbox"/> Field Filtered 0.45um Filter |            |                                                                                   | <input checked="" type="checkbox"/> Ice |                                                                                                                                         | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 |                                                                                                                                |                | Filter Lot # 0000222915                                          |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |
| Quantitative Algae                                                                        |                                                                                 | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                                   |                |                                                                  |            | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                                         |                                                                                                                                         |                            |                                                                     |  |
| Relinquished By:                                                                          |                                                                                 | Date/Time                                                                                                                      |                | Number of Coolers Shipped                                        |            |                                                                                   | Received By:                            |                                                                                                                                         | Date/Time                  |                                                                     |  |
| Haylee Brown                                                                              |                                                                                 | 07/16/2024 16:30                                                                                                               |                | 2                                                                |            |                                                                                   |                                         |                                                                                                                                         |                            |                                                                     |  |



# Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------|--|
| RQ - 2024-07-15-52                                                                        |                                                                                 |                                                                                                                                |                | Collected By:                                                    |            | Haylee Brown, Katrin Villinger                                                    |                       |                                                                                                                                         |                            |                                                                     |  |
| Customer:                                                                                 |                                                                                 | NE-DIST                                                                                                                        |                | Field Report Prepared By:                                        |            | Haylee Brown                                                                      |                       |                                                                                                                                         |                            |                                                                     |  |
| Project ID:                                                                               |                                                                                 | BLOOM_RESP                                                                                                                     |                | Sampling Agency:                                                 |            | NEROC                                                                             |                       |                                                                                                                                         |                            |                                                                     |  |
| Location: Doctors Lake - End of Lawrence Rd                                               |                                                                                 |                                                                                                                                |                | Comments:                                                        |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Field ID: NEHAB0073                                                                       |                                                                                 |                                                                                                                                |                | Coordinates:                                                     |            | 30.12957, -81.75171                                                               |                       |                                                                                                                                         |                            |                                                                     |  |
| WIN Secondary Resource Type: Lake                                                         |                                                                                 |                                                                                                                                |                | Collection Equip:                                                |            | WaterBottle                                                                       |                       |                                                                                                                                         |                            |                                                                     |  |
| WIN ID: NEHAB0073                                                                         |                                                                                 |                                                                                                                                |                | High Tide Time:                                                  |            | 07:15                                                                             |                       | Low Tide Time:                                                                                                                          |                            | 13:30                                                               |  |
| Matrix:                                                                                   |                                                                                 | Marine                                                                                                                         |                | Grab                                                             |            | Tide:                                                                             |                       | <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |                            |                                                                     |  |
| Water Quality                                                                             |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Date                                                                                      | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(%)                                                                                                                    | D.O.<br>(mg/L) | Temp<br>(°C)                                                     | pH<br>(SU) | Sample<br>Depth<br>(m)                                                            | Total<br>Depth<br>(m) | Secchi<br>Disk<br>(m)                                                                                                                   | Sp. Cond.<br>(µmho/cm)     | Salinity<br>(PPTH)                                                  |  |
| 07/16/2024                                                                                | 10:45                                                                           | 134.9                                                                                                                          | 9.61           | 30.9                                                             | 9          | 0.16                                                                              | 0.35                  | 0.35                                                                                                                                    | 13812                      | 7.91                                                                |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Bloom Observations                                                                        |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Water Clarity                                                                             |                                                                                 | <input type="checkbox"/> Clear                                                                                                 |                | <input checked="" type="checkbox"/> Slightly Turbid              |            | <input type="checkbox"/> Turbid                                                   |                       | <input type="checkbox"/> Opaque                                                                                                         |                            |                                                                     |  |
| Bloom Color                                                                               |                                                                                 | <input checked="" type="checkbox"/> Green                                                                                      |                | <input type="checkbox"/> Red                                     |            | <input type="checkbox"/> Brown                                                    |                       | <input type="checkbox"/> Other:                                                                                                         |                            |                                                                     |  |
| Algae Type                                                                                |                                                                                 | <input checked="" type="checkbox"/> Planktonic                                                                                 |                | <input type="checkbox"/> Filamentous                             |            | <input type="checkbox"/> Other:                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Algae Accumulation                                                                        |                                                                                 | <input type="checkbox"/> Mat                                                                                                   |                | <input checked="" type="checkbox"/> Specks                       |            | <input type="checkbox"/> Scum                                                     |                       | <input checked="" type="checkbox"/> Glob                                                                                                |                            |                                                                     |  |
| Algae Distribution                                                                        |                                                                                 | <input type="checkbox"/> Surface-Entire                                                                                        |                | <input type="checkbox"/> Surf-Localized                          |            | <input type="checkbox"/> Surf-Windblown                                           |                       | <input checked="" type="checkbox"/> Suspended                                                                                           |                            | <input type="checkbox"/> Benthic <input type="checkbox"/> Epiphytic |  |
| Parameter Suite                                                                           |                                                                                 | Parameter Methods                                                                                                              |                |                                                                  |            | Preservation                                                                      |                       | pH<br>Check                                                                                                                             | #Bottles<br>Sent to<br>Lab | Bottle<br>Group                                                     |  |
| Algae (PT-50mL)                                                                           |                                                                                 | <input type="checkbox"/> ALGAL-ID <input checked="" type="checkbox"/> BLOOM-ID                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | A                                                                   |  |
| Chlorophyll (BP-1L)                                                                       |                                                                                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Toxins (P-125/BG-250)                                                                     |                                                                                 | <input checked="" type="checkbox"/> W-MCYST-AA <input checked="" type="checkbox"/> W-SAXTN-MS <input type="checkbox"/> OV-TOXN |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Physical/Aggregate                                                                        |                                                                                 | <input checked="" type="checkbox"/> W-COLOR                                                                                    |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
| Preserved Nutrients<br>(500mL HDPE)                                                       |                                                                                 | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP                                                        |                |                                                                  |            | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |                       | <input checked="" type="checkbox"/> <2                                                                                                  | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 | Acid Lot:                                                                                                                      |                | SA3193140                                                        |            | Exp:                                                                              |                       | 07/31/2024                                                                                                                              |                            |                                                                     |  |
| Filtered Nutrients<br>(P125mL)                                                            |                                                                                 | <input checked="" type="checkbox"/> W-PO4-F                                                                                    |                | <input checked="" type="checkbox"/> Field Filtered 0.45um Filter |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                          | B                                                                   |  |
|                                                                                           |                                                                                 |                                                                                                                                |                | Filter Lot # 0000222915                                          |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |
| Quantitative Algae                                                                        |                                                                                 | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                                   |                |                                                                  |            | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                       |                                                                                                                                         |                            |                                                                     |  |
| Relinquished By:                                                                          |                                                                                 | Date/Time                                                                                                                      |                | Number of Coolers Shipped                                        |            | Received By:                                                                      |                       | Date/Time                                                                                                                               |                            |                                                                     |  |
| Haylee Brown                                                                              |                                                                                 | 07/16/2024 16:30                                                                                                               |                | 2                                                                |            |                                                                                   |                       |                                                                                                                                         |                            |                                                                     |  |



# Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------|--|
| RQ - 2024-07-15-52                                                                        |                                                                                 |                                                                                                                                |                | Collected By:                                                    |            | Haylee Brown, Katrin Villinger                                                    |                       |                                                                                                                                         |                        |                                                                     |  |
| Customer:                                                                                 |                                                                                 | NE-DIST                                                                                                                        |                | Field Report Prepared By:                                        |            | Haylee Brown                                                                      |                       |                                                                                                                                         |                        |                                                                     |  |
| Project ID:                                                                               |                                                                                 | BLOOM_RESP                                                                                                                     |                | Sampling Agency:                                                 |            | NEROC                                                                             |                       |                                                                                                                                         |                        |                                                                     |  |
| Location: Doctors Lake - Magnolia Rd                                                      |                                                                                 |                                                                                                                                |                | Comments:                                                        |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
| Field ID: NEHAB0119                                                                       |                                                                                 |                                                                                                                                |                | Coordinates:                                                     |            | 30.11763, -81.76328                                                               |                       |                                                                                                                                         |                        |                                                                     |  |
| WIN Secondary Resource Type: Lake                                                         |                                                                                 |                                                                                                                                |                | Collection Equip:                                                |            | WaterBottle                                                                       |                       |                                                                                                                                         |                        |                                                                     |  |
| WIN ID: NEHAB0119                                                                         |                                                                                 |                                                                                                                                |                | High Tide Time:                                                  |            | 07:15                                                                             |                       | Low Tide Time:                                                                                                                          |                        | 13:30                                                               |  |
| Matrix:                                                                                   |                                                                                 | Marine                                                                                                                         |                | Grab                                                             |            | Tide:                                                                             |                       | <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |                        |                                                                     |  |
| Water Quality                                                                             |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
| Date                                                                                      | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(%)                                                                                                                    | D.O.<br>(mg/L) | Temp<br>(°C)                                                     | pH<br>(SU) | Sample<br>Depth<br>(m)                                                            | Total<br>Depth<br>(m) | Secchi<br>Disk<br>(m)                                                                                                                   | Sp. Cond.<br>(µmho/cm) | Salinity<br>(PPTH)                                                  |  |
| 07/16/2024                                                                                | 11:05                                                                           | 170.5                                                                                                                          | 12.06          | 30.3                                                             | 9.2        | 0.3                                                                               | 1.2                   | 0.5                                                                                                                                     | 13903                  | 7.96                                                                |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
|                                                                                           |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
| Bloom Observations                                                                        |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                 |                                                                                                                                |                |                                                                  |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
| Water Clarity                                                                             |                                                                                 | <input type="checkbox"/> Clear                                                                                                 |                | <input checked="" type="checkbox"/> Slightly Turbid              |            | <input type="checkbox"/> Turbid                                                   |                       | <input type="checkbox"/> Opaque                                                                                                         |                        |                                                                     |  |
| Bloom Color                                                                               |                                                                                 | <input checked="" type="checkbox"/> Green                                                                                      |                | <input type="checkbox"/> Red                                     |            | <input type="checkbox"/> Brown                                                    |                       | <input type="checkbox"/> Other:                                                                                                         |                        |                                                                     |  |
| Algae Type                                                                                |                                                                                 | <input checked="" type="checkbox"/> Planktonic                                                                                 |                | <input type="checkbox"/> Filamentous                             |            | <input type="checkbox"/> Other:                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
| Algae Accumulation                                                                        |                                                                                 | <input type="checkbox"/> Mat                                                                                                   |                | <input checked="" type="checkbox"/> Specks                       |            | <input type="checkbox"/> Scum                                                     |                       | <input checked="" type="checkbox"/> Glob                                                                                                |                        |                                                                     |  |
| Algae Distribution                                                                        |                                                                                 | <input type="checkbox"/> Surface-Entire                                                                                        |                | <input type="checkbox"/> Surf-Localized                          |            | <input type="checkbox"/> Surf-Windblown                                           |                       | <input checked="" type="checkbox"/> Suspended                                                                                           |                        | <input type="checkbox"/> Benthic <input type="checkbox"/> Epiphytic |  |
| Parameter Suite                                                                           |                                                                                 | Parameter Methods                                                                                                              |                |                                                                  |            | Preservation                                                                      |                       | pH Check                                                                                                                                | #Bottles Sent to Lab   | Bottle Group                                                        |  |
| Algae (PT-50mL)                                                                           |                                                                                 | <input type="checkbox"/> ALGAL-ID <input checked="" type="checkbox"/> BLOOM-ID                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                      | A                                                                   |  |
| Chlorophyll (BP-1L)                                                                       |                                                                                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                 |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                      | B                                                                   |  |
| Toxins (P-125/BG-250)                                                                     |                                                                                 | <input checked="" type="checkbox"/> W-MCYST-AA <input checked="" type="checkbox"/> W-SAXTN-MS <input type="checkbox"/> OV-TOXN |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                      | B                                                                   |  |
| Physical/Aggregate                                                                        |                                                                                 | <input checked="" type="checkbox"/> W-COLOR                                                                                    |                |                                                                  |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                      | B                                                                   |  |
| Preserved Nutrients (500mL HDPE)                                                          |                                                                                 | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP                                                        |                |                                                                  |            | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 |                       | <input checked="" type="checkbox"/> <2                                                                                                  | 1                      | B                                                                   |  |
|                                                                                           |                                                                                 | Acid Lot:                                                                                                                      |                | SA3193140                                                        |            | Exp:                                                                              |                       | 07/31/2024                                                                                                                              |                        |                                                                     |  |
| Filtered Nutrients (P125mL)                                                               |                                                                                 | <input checked="" type="checkbox"/> W-PO4-F                                                                                    |                | <input checked="" type="checkbox"/> Field Filtered 0.45um Filter |            | <input checked="" type="checkbox"/> Ice                                           |                       |                                                                                                                                         | 1                      | B                                                                   |  |
|                                                                                           |                                                                                 |                                                                                                                                |                | Filter Lot # 0000222915                                          |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |
| Quantitative Algae                                                                        |                                                                                 | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                                   |                |                                                                  |            | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                       |                                                                                                                                         |                        |                                                                     |  |
| Relinquished By:                                                                          |                                                                                 | Date/Time                                                                                                                      |                | Number of Coolers Shipped                                        |            |                                                                                   |                       | Received By:                                                                                                                            |                        | Date/Time                                                           |  |
| Haylee Brown                                                                              |                                                                                 | 07/16/2024 16:30                                                                                                               |                | 2                                                                |            |                                                                                   |                       |                                                                                                                                         |                        |                                                                     |  |