

# 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:

Bruce

RQ:

2021-09-27-51

Project:

Algae Report

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

8/16/21

| 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.                  | J. Lee      | 10/4/21 | 0851          | 20.8       | 761.3                  | 8.9                   | 8.9                   | 100.2 | -               | 1.03          | P/F            | L/F            |
| ICV                      | ↓           | ↓       | 0856          | 20.9       | 761.5                  | 8.9                   | 8.93                  | 100.0 | -               | 1.03          | P/F            | L/F            |
| CCV                      | Kim Appleby | ↓       | 1658          | 22.5       | 760.1                  | 8.7                   | 8.71                  | 100.5 | -               | 1.03          | 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>$\mu$ hos/cm | Meter<br>Reading<br>$\mu$ hos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|-------------|---------|---------------|---------|----------------|--------------------------|----------------------------------|----------------|----------------|
| Calibr.                   | J. Lee      | 10/4/21 | 0845          | 210426B | 05/22          | 1000                     | 1000                             | P/F            | L/F            |
| ICV                       | ↓           | ↓       | 0849          | 210426A | 05/22          | 100                      | 100.7                            | P/F            | L/F            |
| CCV                       | Kim Appleby | ↓       | 1652          | 210426D | 5/22           | 20,000                   | 20,085                           | P/F            | L/F            |
| CCV                       |             |         | 1705          |         |                |                          |                                  | P/F            | L/F            |

Conductivity Acceptance criteria  $\pm 5\%$

1705

| 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.                  | J. Lee      | 10/4/21 | 0900          | 2107F56 | 07/23          | 7.02               | 20.9       | 7.02                   | -41.9  | P/F            | L/F            |
| Calibr.                  | ↓           | ↓       | 0902          | 2107F40 | 07/23          | 4.00               | 20.9       | 4.00                   | 136.2  | P/F            | L/F            |
| Calibr.                  | ↓           | ↓       | 0905          | 2107A04 | 12/22          | 10.04              | 20.8       | 10.04                  | -207.8 | P/F            | L/F            |
| ICV                      | ↓           | ↓       | 0906          | 2107F56 | 07/23          | 7.02               | 20.9       | 7.03                   | -38.5  | P/F            | L/F            |
| CCV                      | Kim Appleby | ↓       | 1707          | 2107A04 | 12/22          | 10.04              | 21.6       | 9.99                   | -207.5 | 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 10 165.9, slope from 4 to 7 178.1 (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:

8/18/21

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                         | J. Lee | 10/4/21 |               | 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

|                   |            |                                         |  |
|-------------------|------------|-----------------------------------------|--|
| RQ-2021- 09-27-51 |            | Collected By: Kim Appleby + Jessica Lee |  |
| Customer          | ZIFLA      | Field Report Prepared By: Kim Appleby   |  |
| Project ID:       | BLOOM_RESP | Sampling Agency: FDEP                   |  |

  

WIN ID/Field ID:  NEHAB0037

COJ St Johns Marina

Comments: Algae seen suspended in water, some slight concentration on surface. Algae diffuse

  

|                                                                                                                                               |  |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|
| Matrix: Marine                                                                                                                                |  | Collection Equipment: ortho kit #3 |
| Tide: <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |  | Coordinates: 30.319840, -81.661570 |
| High Tide Time: 445 AM                                                                                                                        |  | Low Tide Time: 1615 PM             |

  

| Water Quality |                                                                                 |                |          |            |            |                     |                    |                   |                    |                       |
|---------------|---------------------------------------------------------------------------------|----------------|----------|------------|------------|---------------------|--------------------|-------------------|--------------------|-----------------------|
| Date          | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(mg/L) | D.O. (%) | Temp<br>°C | pH<br>(SU) | Sample<br>Depth (m) | Cond.<br>(umho/cm) | Salinity<br>(PPT) | Secchi Disk<br>(m) | Total<br>Depth<br>(m) |
| 10/14/21      | 1105                                                                            | 6.07           | 79.8     | 27.9       | 7.58       | 0.3                 | 9613               | 5.37              | 0.7                | 1.053                 |

  

| Bloom Observations                                                                        |                                                               |                                                     |                                       |                                       |              |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------|---------------------------------------|---------------------------------------|--------------|
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                               |                                                     |                                       |                                       |              |
| Water Surface                                                                             | <input checked="" type="checkbox"/> Clear                     | <input type="checkbox"/> Scum                       | <input type="checkbox"/> Globs        | <input type="checkbox"/> Slick        |              |
| Water Clarity                                                                             | <input checked="" 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 Distribution                                                                        | <input checked="" type="checkbox"/> Suspended in water column | <input checked="" type="checkbox"/> On surface      | <input type="checkbox"/> Other: _____ |                                       |              |
| Water Odors                                                                               | <input checked="" type="checkbox"/> Normal                    | <input type="checkbox"/> Sewage                     | <input type="checkbox"/> Petroleum    | <input type="checkbox"/> Chemical     | Other: _____ |

  

| Parameter Suite                  | Parameter Methods                                                                                            | Preservation                                                                      | pH Check                               | #Bottles Sent to Lab | Bottle Group |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|----------------------|--------------|
| Bloom ID (PT-50ML)               | <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 (BG-WD250)                | <input checked="" type="checkbox"/> W-MCYST-AA                                                               | <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            |
| Filtered Nutrients (P125mL)      | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45um Filter | <input checked="" type="checkbox"/> Ice                                           | <input type="checkbox"/> <2            | 1                    | B            |
| Quantitative Algae               | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                 | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                                        |                      |              |

  

|                              |                          |                              |              |            |
|------------------------------|--------------------------|------------------------------|--------------|------------|
| Relinquished By: Kim Appleby | Date/Time: 10/14/21 1600 | Number of Coolers Shipped: 2 | Received By: | Date/Time: |
|------------------------------|--------------------------|------------------------------|--------------|------------|

# Cyanobacteria Bloom Response Field Data Sheet

|                        |                                       |                                         |  |
|------------------------|---------------------------------------|-----------------------------------------|--|
| RQ-2021-09-27-51       |                                       | Collected By: Kim Appleby + Jersila Lee |  |
| Customer: 21FLA        | Field Report Prepared By: Kim Appleby |                                         |  |
| Project ID: BLOOM_RESP | Sampling Agency: FDEP                 |                                         |  |

  

WIN ID/Field ID:   
NEHAB0043

LSJR @ South end of Hart Bridge

Comments: Algae seen on surface of water. <sup>+ suspended</sup> in water column. Diffuse in water column. Some concentration and streaking on surface, and near shore/vegetation line.

|                                                                                                                                               |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Collection Equipment: Ortho KIT #3                                                                                                            |                                                |
| Matrix: Marine                                                                                                                                | Coordinates: 30.311800, -81.625650             |
| Tide: <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A | High Tide Time: 9:45 AM Low Tide Time: 1:57 PM |

  

| Water Quality |                                                                                 |                |          |            |            |                     |                    |                    |                    |                       |
|---------------|---------------------------------------------------------------------------------|----------------|----------|------------|------------|---------------------|--------------------|--------------------|--------------------|-----------------------|
| Date          | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(mg/L) | D.O. (%) | Temp<br>°C | pH<br>(SU) | Sample<br>Depth (m) | Cond.<br>(umho/cm) | Salinity<br>(PPTH) | Secchi Disk<br>(m) | Total<br>Depth<br>(m) |
| 10/14/21      | 1140                                                                            | 5.58           | 74.5     | 27.8       | 7.61       | 0.3                 | 14633              | 8.45               | 0.75               | 0.8                   |

  

| Bloom Observations                                                                        |                                                               |                                          |                                                |                                   |              |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|------------------------------------------------|-----------------------------------|--------------|
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                               |                                          |                                                |                                   |              |
| Water Surface                                                                             | <input type="checkbox"/> Clear                                | <input checked="" type="checkbox"/> Scum | <input type="checkbox"/> Globs                 | <input type="checkbox"/> Slick    |              |
| Water Clarity                                                                             | <input type="checkbox"/> Clear                                | <input 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                 | Other: _____                      |              |
| Algae Distribution                                                                        | <input checked="" type="checkbox"/> Suspended in water column |                                          | <input checked="" type="checkbox"/> On surface | Other: _____                      |              |
| Water Odors                                                                               | <input checked="" type="checkbox"/> Normal                    | <input type="checkbox"/> Sewage          | <input type="checkbox"/> Petroleum             | <input type="checkbox"/> Chemical | Other: _____ |

  

| Parameter Suite                  | Parameter Methods                                                                                            | Preservation                                                                      | pH Check                               | #Bottles Sent to Lab | Bottle Group |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|----------------------|--------------|
| Bloom ID (PT-50ML)               | <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 (BG-WD250)                | <input checked="" type="checkbox"/> W-MCYST-AA                                                               | <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<br>Lot: 5A1105060 Exp: 4/30/22       | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> <2 | 1                    | B            |
| 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            |
| Quantitative Algae               | <input type="checkbox"/> DTY-QN-C / PKD-QN-C                                                                 | <input type="checkbox"/> Ice <input type="checkbox"/> Lugols                      |                                        |                      |              |

  

|                              |                          |                              |              |            |
|------------------------------|--------------------------|------------------------------|--------------|------------|
| Relinquished By: Kim Appleby | Date/Time: 10/14/21 1600 | Number of Coolers Shipped: 2 | Received By: | Date/Time: |
|------------------------------|--------------------------|------------------------------|--------------|------------|

# Cyanobacteria Bloom Response Field Data Sheet

|                   |            |                           |                           |
|-------------------|------------|---------------------------|---------------------------|
| RQ-2021- 09-27-51 |            | Collected By:             | Kim Appleby + Jessica Lee |
| Customer          | ZIFLA      | Field Report Prepared By: | Kim Appleby               |
| Project ID:       | BLOOM_RESP | Sampling Agency:          | FDEP                      |

WIN ID/Field ID:



NEHAB0038

Comments: Algae seen <sup>scarsely</sup> distributed in water column.

Canal to Marco Lake

|                                                                                                                                               |  |                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------|
| Matrix: <u>Fresh</u>                                                                                                                          |  | Collection Equipment: <u>Ortho Kit #3</u>               |
| Tide: <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |  | Coordinates: <u>30.301460, -81.657960</u>               |
| <input type="checkbox"/> Grab                                                                                                                 |  | High Tide Time: <u>9:50</u> Low Tide Time: <u>16:10</u> |

| Water Quality |                                                                                 |                |          |            |            |                     |                    |                   |                    |                       |
|---------------|---------------------------------------------------------------------------------|----------------|----------|------------|------------|---------------------|--------------------|-------------------|--------------------|-----------------------|
| Date          | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(mg/L) | D.O. (%) | Temp<br>°C | pH<br>(SU) | Sample<br>Depth (m) | Cond.<br>(umho/cm) | Salinity<br>(PPT) | Secchi Disk<br>(m) | Total<br>Depth<br>(m) |
| 10/14/21      | 1250                                                                            | 8.07           | 104.1    | 28.5       | 8.04       | 0.3                 | 2388               | 1.22              | 0.7                | 0.78                  |

| Bloom Observations                                                                        |                                                               |                                                     |                                     |                                       |              |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------|-------------------------------------|---------------------------------------|--------------|
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                               |                                                     |                                     |                                       |              |
| Water Surface                                                                             | <input checked="" type="checkbox"/> Clear                     | <input type="checkbox"/> Scum                       | <input type="checkbox"/> Globs      | <input type="checkbox"/> Slick        |              |
| 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 Distribution                                                                        | <input checked="" type="checkbox"/> Suspended in water column |                                                     | <input type="checkbox"/> On surface | <input type="checkbox"/> Other: _____ |              |
| Water Odors                                                                               | <input checked="" type="checkbox"/> Normal                    | <input type="checkbox"/> Sewage                     | <input type="checkbox"/> Petroleum  | <input type="checkbox"/> Chemical     | Other: _____ |

| Parameter Suite                  | Parameter Methods                                                                                            | Preservation                                                                      | pH Check                                                              | #Bottles Sent to Lab | Bottle Group |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------|--------------|
| Bloom ID (PT-50ML)               | <input checked="" type="checkbox"/> BLOOM-ID                                                                 | <input checked="" type="checkbox"/> Ice                                           | <input checked="" type="checkbox"/> <2<br><input type="checkbox"/> <2 | 1                    | A            |
| Chlorophyll (BP-1L)              | <input checked="" type="checkbox"/> CHLSUITE-W                                                               | <input checked="" type="checkbox"/> Ice                                           |                                                                       | 1                    | B            |
| Toxins (BG-WD250)                | <input checked="" type="checkbox"/> W-MCYST-AA                                                               | <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 |                                                                       | 1                    | B            |
| Filtered Nutrients (P125mL)      | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45um Filter | <input type="checkbox"/> Ice                                                      |                                                                       | 1                    | B            |
| 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            |              |
| Kim Appleby                      | 10/14/21<br>1600                                                                                             | 2                                                                                 |                                                                       |                      |              |

# Cyanobacteria Bloom Response Field Data Sheet

|                  |            |                                         |      |
|------------------|------------|-----------------------------------------|------|
| RQ-2021-09-27-51 |            | Collected By: Kim Appleby + Jessica Lee |      |
| Customer         | ZIFA       | Field Report Prepared By: Kim Appleby   |      |
| Project ID:      | BLOOM_RESP | Sampling Agency:                        | FDEP |

  

WIN ID/Field ID:   
NEHAB0041

LSJR @ Worth Dr S

Comments: *Algae seen in water column. <sup>sporadically</sup> scattered distributed*

  

|                                                                                                                                         |  |                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|
| Matrix: <i>Fresh</i>                                                                                                                    |  | Collection Equipment: <i>or Thermo kit #3</i>         |
| <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |  | Coordinates: <i>30.271350, -81.655090</i>             |
| Tide:                                                                                                                                   |  | High Tide Time: <i>945</i> Low Tide Time: <i>1610</i> |

  

| Water Quality  |                                                                                 |                |              |             |             |                     |                    |                    |                    |                       |
|----------------|---------------------------------------------------------------------------------|----------------|--------------|-------------|-------------|---------------------|--------------------|--------------------|--------------------|-----------------------|
| Date           | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(mg/L) | D.O. (%)     | Temp<br>°C  | pH<br>(SU)  | Sample<br>Depth (m) | Cond.<br>(umho/cm) | Salinity<br>(PPTH) | Secchi Disk<br>(m) | Total<br>Depth<br>(m) |
| <i>10/4/21</i> | <i>1320</i>                                                                     | <i>8.98</i>    | <i>117.9</i> | <i>29.3</i> | <i>8.26</i> | <i>0.3</i>          | <i>1724</i>        | <i>0.86</i>        | <i>0.75</i>        | <i>0.91</i>           |

  

| Bloom Observations                                                                        |                                                               |                                          |                                       |                                       |              |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|---------------------------------------|---------------------------------------|--------------|
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                               |                                          |                                       |                                       |              |
| Water Surface                                                                             | <input checked="" type="checkbox"/> Clear                     | <input type="checkbox"/> Scum            | <input type="checkbox"/> Globs        | <input type="checkbox"/> Slick        |              |
| Water Clarity                                                                             | <input checked="" type="checkbox"/> Clear                     | <input 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 Distribution                                                                        | <input checked="" type="checkbox"/> Suspended in water column | <input type="checkbox"/> On surface      | <input type="checkbox"/> Other: _____ |                                       |              |
| Water Odors                                                                               | <input checked="" type="checkbox"/> Normal                    | <input type="checkbox"/> Sewage          | <input type="checkbox"/> Petroleum    | <input type="checkbox"/> Chemical     | Other: _____ |

  

| Parameter Suite                  | Parameter Methods                                                                                            | Preservation                                                                      | pH Check                               | #Bottles Sent to Lab | Bottle Group |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|----------------------|--------------|
| Bloom ID (PT-50ML)               | <input checked="" type="checkbox"/> BLOOM-ID                                                                 | <input checked="" type="checkbox"/> Ice                                           |                                        | <i>1</i>             | <i>A</i>     |
| Chlorophyll (BP-1L)              | <input checked="" type="checkbox"/> CHLSUITE-W                                                               | <input checked="" type="checkbox"/> Ice                                           |                                        | <i>1</i>             | <i>B</i>     |
| Toxins (BG-WD250)                | <input checked="" type="checkbox"/> W-MCYST-AA                                                               | <input checked="" type="checkbox"/> Ice                                           |                                        | <i>1</i>             | <i>B</i>     |
| 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 | <i>1</i>             | <i>B</i>     |
|                                  | Lot: <i>CA1105060</i> Exp: <i>4/30/22</i>                                                                    |                                                                                   | <input type="checkbox"/> <2            |                      |              |
| Filtered Nutrients (P125mL)      | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45um Filter | <input checked="" type="checkbox"/> Ice                                           |                                        | <i>1</i>             | <i>B</i>     |
| 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 |
| <i>Kim Appleby</i> | <i>10/4/21</i><br><i>1600</i> | <i>2</i>                  |              |           |

# Cyanobacteria Bloom Response Field Data Sheet

|                   |            |                                         |             |
|-------------------|------------|-----------------------------------------|-------------|
| RQ-2021- 09-27-51 |            | Collected By: Kim Appleby + Jessica Leo |             |
| Customer          | ZI FLA     | Field Report Prepared By:               | Kim Appleby |
| Project ID:       | BLOOM_RESP | Sampling Agency:                        | FDEP        |

  

WIN ID/Field ID: 

NEHAB0034

LSJR @ Marina Ortega Land

Comments: Algae sparsely seen in water column

  

|                 |                                                                                                                                         |                                       |                       |              |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------|--------------|
| Matrix:         | Fresh                                                                                                                                   | <input checked="" type="radio"/> Grab | Collection Equipment: | Ortho kit #3 |
| Tide:           | <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A | Coordinates:                          | 30.276830, -81.712930 |              |
| High Tide Time: | 945                                                                                                                                     | Low Tide Time:                        | 1610                  |              |

  

| Water Quality |                                                                                 |                |          |            |            |                     |                    |                    |                    |                       |
|---------------|---------------------------------------------------------------------------------|----------------|----------|------------|------------|---------------------|--------------------|--------------------|--------------------|-----------------------|
| Date          | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(mg/L) | D.O. (%) | Temp<br>°C | pH<br>(SU) | Sample<br>Depth (m) | Cond.<br>(umho/cm) | Salinity<br>(PPTH) | Secchi Disk<br>(m) | Total<br>Depth<br>(m) |
| 10/4/21       | 1415                                                                            | 6.45           | 83.7     | 29.0       | 7.53       | 0.3                 | 909                | 0.44               | 0.7                | 1.99                  |
|               | 1417                                                                            | 5.70           | 73.1     | 28.4       | 7.45       | 1.49                | 910                | 0.44               |                    |                       |

  

| Bloom Observations                                                                        |                                                               |                                          |                                       |                                       |              |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|---------------------------------------|---------------------------------------|--------------|
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                               |                                          |                                       |                                       |              |
| Water Surface                                                                             | <input checked="" type="checkbox"/> Clear                     | <input type="checkbox"/> Scum            | <input type="checkbox"/> Globs        | <input type="checkbox"/> Slick        |              |
| Water Clarity                                                                             | <input checked="" type="checkbox"/> Clear                     | <input 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 Distribution                                                                        | <input checked="" type="checkbox"/> Suspended in water column | <input type="checkbox"/> On surface      | <input type="checkbox"/> Other: _____ |                                       |              |
| Water Odors                                                                               | <input checked="" type="checkbox"/> Normal                    | <input type="checkbox"/> Sewage          | <input type="checkbox"/> Petroleum    | <input type="checkbox"/> Chemical     | Other: _____ |

  

| Parameter Suite                  | Parameter Methods                                                                                            | Preservation                                                                      | pH Check                               | #Bottles Sent to Lab | Bottle Group |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|----------------------|--------------|
| Bloom ID (PT-50ML)               | <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 (BG-WD250)                | <input checked="" type="checkbox"/> W-MCYST-AA                                                               | <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            |
|                                  | Lot: SA1105060 Exp: 4/30/22                                                                                  |                                                                                   | <input type="checkbox"/> <2            |                      |              |
| 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            |
| 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 |
| Kim Appleby      | 10/4/21<br>1600 | 2                         |              |           |

# Cyanobacteria Bloom Response Field Data Sheet

|                  |            |                                         |      |
|------------------|------------|-----------------------------------------|------|
| RQ-2021-09-27-51 |            | Collected By: Kim Appleby + Jessica Lee |      |
| Customer         | 21FLA      | Field Report Prepared By: Kim Appleby   |      |
| Project ID:      | BLOOM_RESP | Sampling Agency:                        | FDEP |

  

WIN ID/Field ID:   
NEHAB0033

LSJR @ St Vincent riverside

Comments: Algae sparsely distributed in water column.

  

|                                                                                                                                               |  |                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|
| Matrix: Fresh                                                                                                                                 |  | Collection Equipment: ortho kit #3 |  |
| Tide: <input type="checkbox"/> Rising <input checked="" type="checkbox"/> Falling <input type="checkbox"/> Slack <input type="checkbox"/> N/A |  | Coordinates: 30.306340, -81.689130 |  |
| High Tide Time: 945                                                                                                                           |  | Low Tide Time: 1610                |  |

  

| Water Quality |                                                                                 |                |          |            |            |                     |                    |                    |                    |                       |
|---------------|---------------------------------------------------------------------------------|----------------|----------|------------|------------|---------------------|--------------------|--------------------|--------------------|-----------------------|
| Date          | Time<br><input checked="" type="checkbox"/> EST<br><input type="checkbox"/> CEN | D.O.<br>(mg/L) | D.O. (%) | Temp<br>°C | pH<br>(SU) | Sample<br>Depth (m) | Cond.<br>(umho/cm) | Salinity<br>(PPTH) | Secchi Disk<br>(m) | Total<br>Depth<br>(m) |
| 10/14/21      | 1455                                                                            | 8.02           | 106.5    | 29.8       | 7.94       | 0.3                 | 2505               | 1.28               | 0.8                | 1.28                  |

  

| Bloom Observations                                                                        |                                                               |                                          |                                       |                                       |              |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|---------------------------------------|---------------------------------------|--------------|
| Algal Bloom Observed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                               |                                          |                                       |                                       |              |
| Water Surface                                                                             | <input checked="" type="checkbox"/> Clear                     | <input type="checkbox"/> Scum            | <input type="checkbox"/> Globbs       | <input type="checkbox"/> Slick        |              |
| Water Clarity                                                                             | <input checked="" type="checkbox"/> Clear                     | <input 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 Distribution                                                                        | <input checked="" type="checkbox"/> Suspended in water column | <input type="checkbox"/> On surface      | <input type="checkbox"/> Other: _____ |                                       |              |
| Water Odors                                                                               | <input checked="" type="checkbox"/> Normal                    | <input type="checkbox"/> Sewage          | <input type="checkbox"/> Petroleum    | <input type="checkbox"/> Chemical     | Other: _____ |

  

| Parameter Suite                  | Parameter Methods                                                       | Preservation                                                                      | pH Check                                | #Bottles Sent to Lab | Bottle Group |
|----------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------|----------------------|--------------|
| Bloom ID (PT-50ML)               | <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 (BG-WD250)                | <input checked="" type="checkbox"/> W-MCYST-AA                          | <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            |
|                                  | Lot: SA1105060                                                          | Exp: 4/30/22                                                                      | <input type="checkbox"/> <2             |                      |              |
| 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            |
| 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 |
| Kim Appleby      | 10/14/21<br>1600 | 2                         |              |           |