



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 8

Data Qualified?
Yes / No

Location/STORET Station Name:

Lake Kinsail Mid

Date: 7/10/2017

STORET #

WBID: 6471K

Latitude: 30.53281

County: Leon

RQ - 2017-06-05-53

ORG ID: 21FLWQA

Longitude: -84.21687

Receiving Body of Water: Lake Killebrew

Field ID: Kinsail-algal-sample

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Ben Ralys							☒ Sample Container	☐ Van Dorn	☐ Pole		
Robert Wiwi							☐ Carboy	☒ Syringe			
							☐ Dipper	☐ Other			
							Equipment ID				
							Collection Method				
							☐ Wading	☒ Via Boat			
							☐ From Shore	☒ Canoe/Kayak			
							☐ Other (note below)	☐ Electric Motor			
								☐ Gasoline Motor			
Water Level: Dry / Pooled / Low / Normal / High / Flooded							Matrix: Fresh / Marine / DI				
Meter ID# Biology #2			Photos: Yes / No			Tide Falling: Yes / No / NA					
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)	
EST	12:15	0.3	1.0	15.47	212.1	10.17	0.04	0.3	99	32.19	
CEN											

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	7093010	4/3/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☒ ALGAE-ID	☒ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Contains
1:1
Sulfuric Acid
SA-7093010
EXP: 04/03/18
Warning!
See SDS

Sticker(s) Here
(Available)

Notes:

Algal bloom response

Place Label Here
(If Available)

Signature:

Date:

Field Parameters Entered into LIMS: DC 7/11/17
(Initials/Date)

Field Parameters QC in LIMS: EW 7/11/17
(Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: DC 7/11/17
(Initials/Date)

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 V2)

WATERBODY NAME: Lake Kinsail		DATE (M/D/YY): 7/10/17	TIME: (AM) (PM) 12:15 PM	Case ID#:
COUNTY: Leon		LOCATION: Lake Kinsail Mid		NEAREST TOWN/CITY: Tallahassee
Visit Type:	Samples collected:	Samples submitted to:	Photos Taken:	
Initial ☒	☒ yes ☐ no	FDEP Tallahassee Lab	☒ yes ☐ no	
Recon ☒	Sample collection method:			
Sampling ☒	Single Grab: ☒	Grab Composite: ☐	Depth integrated composite: ☐	
Follow-up ☐				
Sample & Analysis types:				
Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐				
Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☒ Toxin: ☐				
Specify				
Estimated size of bloom: entire lake		Impounded: ☒ yes ☐ no	Stream/River/Canal ☐ m wide	
Lake/Estuary Typical depth		Typical Transect		
Inflows: ☒ yes ☐ no		m deep		
Outflows: ☒ yes ☐ no		m/s		
1.0 m deep		Left bank Middle Right bank		

Canopy Cover:	Open: ☒	Lightly Shaded (11-45%): ☐	Moderately Shaded (46-80%): ☐	Heavily Shaded: ☐
Description of Bloom/	Latitude	Longitude		
	Degrees Minutes Seconds	Degrees Minutes Seconds		
Present Weather conditions	30.53281 (DD)		-84.21687 (DD)	
Sunny with incoming storm clouds				
Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)			Last rain event 7/4/17	
Sketch bloom area on the attached map. Indicate wind direction.			Rainfall amount 0.10 in	

WATER QUALITY	Depth (m):	Temp. (°C) :	pH (SU) :	D.O. (mg/l) :	Cond (µmho/cm) or Salinity (ppt):	DOSAT	Salinity (ppt)	Secchi (m)
Top	0.3	32.19	10.17	15.47	99	212.1	(0.04)	0.3
Mid-depth								
Bottom								
System Type: Stream: ☐ (1st - 2nd order 3rd - 4th order) 5th - 6th order 7th order or greater) Lake: ☒ Wetland: ☐ Estuary: ☐ Other: ☐								
Water Odors (check box) : Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐								
Water Surface (check box): Clear: ☒ Scum: ☐ Globes: ☐ Slick: ☐								
Water Clarity (check box): Clear: ☐ Slightly: ☐ Turbid: ☒ Opaque: ☐								
Bloom Color (check box): Green: ☒ Red: ☐ Brown: ☐ Other: ☐								
Notes					Abundance:			
					Absent	Rare	Common	Abundant
					☒	☐	☐	☐
					☒	☐	☐	☐
					☒	☐	☒	☐
					☒	☐	☐	☐

VISIT TEAM:

Robert Wiwi, Ben Ralys

AGENCY:

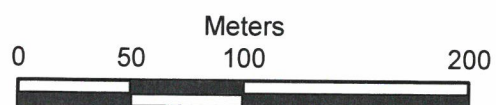
FDEP



Legend



Estimated area affected by algal bloom



Customer: WQAP

Requester: Curtis Musson

Field Report Prepared By:

Robert Wini

Project ID: BLOOM-RESP

Collected By:

Robert Wini, Ben Balys

Sampling Agency:

FIDEP

Location	Lake Kinsail Mid		Collection (comp begin or grab)		Composite end		Bottle Group(s)
Field ID	kinsail_algal-sample		Date 7/10/17 Time 12:15		Date		(See pg 2)
STORET#			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine
Latitude	30.53281		Temp (C) 32.19		pH 10.17		Sample Depth 0.3
Longitude	-84.21687		Salinity (ppt) 0.04		Comments		Sp. Conductance (umho/cm) 99
Location			Collection (comp begin or grab)		Composite end		Bottle Group(s)
Field ID			Date		Date		
STORET#			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine
Latitude			Temp (C)		pH		Sample Depth
Longitude			Salinity (ppt)		Comments		Sp. Conductance (umho/cm)
Location			Collection (comp begin or grab)		Composite end		Bottle Group(s)
Field ID			Date		Date		
STORET#			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine
Latitude			Temp (C)		pH		Sample Depth
Longitude			Salinity (ppt)		Comments		Sp. Conductance (umho/cm)
Location			Collection (comp begin or grab)		Composite end		Bottle Group(s)
Field ID			Date		Date		
STORET#			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine
Latitude			Temp (C)		pH		Sample Depth
Longitude			Salinity (ppt)		Comments		Sp. Conductance (umho/cm)

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	7/10/17 16:05		1		7/10/17 16:05

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

Boldly "X" this box if there is qualified data on this name.

Meter Biology #2

RQ- 2017-06-05-53

Project Algal Bloom

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 03/06/2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Ratys R. Wini	7/10/17	10:33	22.10	8.727	8.72	99.9	42.0	—	P	Lab
ICV	Ben Ratys R. Wini	7/10/17	10:34	22.14	8.727	8.70	99.8	42.0	—	P	Lab
CCV	Ben Ratys ↓	7/10/17	15:34	25.03	8.263	8.25	99.8	43.1	—	P	Lab
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 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; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ratys R. Wini	7/10/17	10:36	170310D	3/18	1000	1000	P	Lab
ICV	Ben Ratys R. Wini	7/10/17	10:37	170310D	3/18	1000	1000	P	Lab
CCV	Ben Ratys ↓	7/10/17	15:33	170310E	3/18	100	102	P	Lab
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Ratys R. Wini	7/10/17	10:34	170310B	9/18	7.0	7.00	-4.2	P	Lab
Calibr.	Ben Ratys	7/10/17	10:41	170310A	3/18	4.0	4.00	168.3	P	Lab
Calibr.	Ben Ratys	7/10/17	10:43	161111C	5/18	10.0	9.96	-16.57	P	Lab
ICV	Ben Ratys ↓	7/10/17	10:44	170310A	3/18	4.0	3.86	174.8	P	Lab
CCV	Ben Ratys ↓	7/10/17	15:34	161111C	5/18	10.0	10.00	-168.1	P	Lab
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Cooler Packing Worksheet for Request: RQ-2017-06-05-53

Algal Bloom response - As Needed

Ship Cooler On: 5/29/2017

Customer/Project: WQAP/BLOOM-RESP

Assigned To: SHAIK_A

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd
MS #3525
Tallahassee, FL 32399-2400
Attn: Curtis Musson

Comments:

No preservatives needed.

Analyze toxin upon receipt after consultation with Biology's Taxonomy Manager.

Bottle Groups A/B - separate event, priority 1

Bottle Groups C/D - separate event, C - priority 3, D - priority 12

Bottle group A - Priority 1
For algal dominant taxon.

Bottle Group B - Priority 1
For toxin testing

Bottle Group C - Priority 3
Water quality testing

Bottle group D - Priority 12
For algal full ID

There are multiple bottles per Group in case multiple sample targets or sample locations are needed. Samplers use best professional judgment to decide which samples are appropriate to collect for a particular response. All sets of bottles do not have to be filled at one time.

Packing Note:

No FedEx labels needed

Requested Analyses:

Bottle Group: A

of Sites: 8

Container ID: PT-50ML

Qty: 8 Preservation: ICE

Lot # 03775093

Description: Plastic Tube 50 mL

Analysis

BLOOM-ID

Description

Assessment of dominant algal taxa in bloom or mat sample

Bottle Group: B

of Sites: 4

Container ID: BG-WD250 Qty: 4 Preservation: ICE

Lot # 50065415

Description: Wide Mouth Amber Glass 250ml

Analysis
W-MCYST-AA

Description
Microcystins in water matrices by HPLC/MS/MS

Bottle Group: C

of Sites: 1

Container ID: BP-1L Qty: 1 Preservation: ICE

Lot # 1196409

Description: Brown Plastic Bottle 1L

Analysis
CHLSUITE-W

Description
Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML Qty: 1 Preservation: ICE And H2SO4

Lot # 50067590

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis
W-NH3
W-NO2NO3
W-S-A-TP
W-TKN

Description
Ammonia in aqueous matrices as mg N/L
Nitrite/Nitrate in aqueous matrices as mg N/L
Total Phosphorus in aqueous matrices as mg P/L
Total Kjeldahl Nitrogen in aqueous matrices

Container ID: P-125ML Qty: 1 Preservation: ICE-FLTR

Lot # 50066993

Description: Plastic Bottle 125 mL

Analysis
W-PO4-F

Description
Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: D

of Sites: 4

Container ID: BP-1L Qty: 4 Preservation: Lugols

Lot # 1196409

Description: Brown Plastic Bottle 1L

Analysis
DTY-QN-C
PKD-QN-C

Description
No. of diatom taxa of quantitative phytoplankton sample.
No. of wet taxa of quantitative phytoplankton sample.

Cooler Packed By: AB

Number of Coolers: 1

Date: 5-24-17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-06-05-53