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AB-17-1.10

BOCA CIEGA



Site Name: Boca Ciega Bloom Response

Appendix A

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET (7-6-06 V2)

WATERBODY Boca Ciega		DATE (M/D/YY): 06/05/2019	TIME: (AM) 1045	Case ID#:				
COUNTY: Pinellas	LOCATION: Boca Ciega		NEAREST TOWN/CITY: St. Petersburg					
Visit Type: Initial ☒ Recon ☐ Sampling ☐ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: FDEP - Tallahassee		Photos Taken: ☒ yes ☐ no				
Sample & Analysis types: Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐								
Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☒ Toxin: ☒								
Estimated size of bloom:		Impounded: ☐ yes ☒ no	Specify					
Lake/Estuary Typical depth 0.8 m deep		Inflows: ☐ yes ☒ no	Stream/River/Canal ☐ m wide					
Outflows: ☐ yes ☒ no		Typical Transect 0.8 m deep ☐ m deep ☐ m deep						
		Water velocity ☐ m/s ☐ m/s ☐ m/s						
		Left bank Middle Right bank						
Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐								
Description of Bloom/ Latitude Degrees Minutes Seconds Longitude Degrees Minutes Seconds								
Present Weather conditions								
Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)								
Sketch bloom area on the attached map. Indicate wind direction.								
Last rain event								
Rainfall amount								
WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Sal ppt	DO %	Secchi (m)
Top	0.8	31.1	7.83	4.59	50079	33.05	73.5	0.8
Mid-depth								
Bottom								1.5"
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: ☐ Globbs: ☐ Slick: ☐								
Water Clarity (check box): Clear: ☒ Slightly turbid: ☐ Turbid: ☐ Opaque: ☐								
Bloom Color (check box): Green: ☐ Red: ☐ Brown: ☒ Other: ☐								
Notes								
Abundance: Absent Rare Common Abundant								
Periphyton ☐ ☒ ☐ ☐								
Fish ☐ ☐ ☒ ☐								
Aquatic Macrophytes ☐ ☐ ☒ ☐								
Iron/sulfur Bacteria ☒ ☐ ☐ ☐								

VISIT TEAM:

Matthew Bearden AGENCY: **SW ROC**

M. Easdale

50 R0C

[illegible]

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:

Chewy

RQ-

Project:

Algal Bloom

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

05/14/2019

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	H-Sprinkle	06/03	0700	23.2	759.8	8.5	8.51	100.0	-	1021	P/F	L/F
ICV			0703	23.3	759.8	8.5	8.51	99.9	-	-	P/F	L/F
CCV			1230	27.4	760.4	7.9	7.90	99.8	-	-	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	H-Sprinkle	06/03	0706	2904947	03/21	1000	1000	P/F	L/F
ICV			0710	2809A63	09/20	100	99.7	P/F	L/F
CCV			1235	2801929	10/19	70000	69887	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	H-Sprinkle	06/03	0724	188510	01/21	7.01	23.3	7.01	76.4	P/F	L/F
Calibr.			0728	187188	11/20	4.00	23.5	4.0	162.2	P/F	L/F
Calibr.			0730	185490	09/20	10.02	23.5	10.02	146.7	P/F	L/F
ICV			0734	185490	09/20	10.02	23.5	10.05	176.0	P/F	L/F
CCV			1240	188510	01/20	7.00	23.8	7.00	16.0	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 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 _____, slope from 4 to 7 _____ (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: 05/14/2019

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

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	H-Sprinkle	06/03	0650	0.00	0.00	P/F	L/F

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

COMMENTS: