

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: Pro DSS Desi RQ- 2019-08-05-44 Project: LSJ & Lakes

- 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 7/19

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.	C Ruben	9.9.19	0726	23.5	763	8.5	8.53	100.3	—	—	(P) F	(L) F
ICV	↓	↓	0727	23.5	763	8.5	8.53	100.4	—	—	(P) F	(L) F
CCV	A Kalmbacher	9-9-19	1627	26.8	762	8.3	8.27	100.7	—	—	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	C. Ruben	9.9.19	0730	190711B	7/2020	1000	1005	(P) F	(L) F
ICV	↓	↓	0731	190319B	3/2020	100	104	(P) F	(L) F
CCV	A Kalmbacher	9-9-19	1630	190711B	7/2020	1000	997	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	C. Ruben	9.9.19	0733	2902778	1/2021	7.	24.5	7.10	-25.9	(P) F	(L) F
Calibr.	↓	↓	0735	2904185	3/2021	4.	24.5	4.05	154.1	(P) F	(L) F
Calibr.	↓	↓	0737	2901851	6/2020	10.	24.6	10.01	-197.6	(P) F	(L) F
ICV	↓	↓	0740	2902778	1/2021	7.0	24.2	7.05	-25.3	(P) F	(L) F
CCV	A. Kalmbacher	9-9-19	1633	2901851	6/2020	10.0	24.7	9.98	-197.8	(P) F	(L) F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50;

mV pH 4 Range +180 ± 50;

mV pH 10 Range -180 ± 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: _____

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	C Ruben	9.9.19	0742	0.003	0.00	(P) F	(L) F

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

COMMENTS:

C.R. 9.10.19

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 v2)

WATERBODY NAME: Crescent Lake NEHAB0101		DATE (MO/Y/Y): 9.9.19	TIME (AM) (PM): 1215	Case ID#: 2582
COUNTY: Putnam	LOCATION: Central Ave Boat ramp		NEAREST TOWN/CITY: Crescent City	
Visit Type: Initial ☐ Recon ☐ Sampling ☐ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: FDEP		Photos Taken: ☒ yes ☐ no
Sample collection method: Single Grab: ☒ Grab Composite: ☐ Depth integrated composite: ☐				
Sample & Analysis types: Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐				
Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☐ Toxin: ☒				
Estimated size of bloom: Smaller than pool		Impounded: ☐ yes ☒ no		
Lake/Estuary Typical depth: m deep		Stream/River/Canal Typical Transverse m deep m deep m deep 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	Longitude		
Present Weather conditions NEHAB0101	29.430166	-81.505969		
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	% DO	Secchi (m)
Top	0.5	32.5	9.17	11.05	586	0.28	151.4	0.4
Mid-depth								
Bottom	0.6							
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: ☐ Opaque: ☐								
Bloom Color (check box): Green: ☒ Red: ☐ Brown: ☐ Other: ☐								
Acid Preservation # H2SO4 5149010030 4/10/20					Abundance:			
					Absent	Rare	Common	Abundant
					☐	☒	☐	☐
					☐	☐	☒	☐
					☐	☐	☒	☐
					☐	☒	☐	☐

Contains 1.1 H2SO4
Lot No. SA-010030
Expires: 04/10/20
See Safety Data Sheet (SDS)

Contains 1.1 H2SO4
Lot No. SA-010030
Expires: 04/10/20
See Safety Data Sheet (SDS)

C Ruben / A Kalmbacher FDEP DEAR NE ROC

Algae Bloom Response-as needed

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Requester: Jeremy M. Parrish

Field Report Prepared By: C. Ruben

Project ID: BLOOM-RESP

Collected By: C. Ruben / A. Kellmeyer

Sampling Agency: FDEP DEAR NEKec

Location Crescent Lake central Ave boat ramp		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/9/19 Time 12:15		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 11.05		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A, B	
WIN/STORET #		Temp (C) 32.5		pH 9.17		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 586	
Latitude 29.43032		☒ dd ☐ dms		Longitude -81.50574		☒ dd ☐ dms		Salinity (ppt) 0.28		Comments DO 7.151.4 secchi 0.4 T. depth	
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Relinquished By: [Signature]	Date/Time 9.9.19 1630	Shipping Method Fedex	Number of Cores Shipped: 2	Received By: [Signature]	Date/Time
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CP

Group: A	Bottle Type:	PT-50ML	# of Bottles: 8	Preservative:	ICF	Enter Number of Bottles Sent to Lab	1
BLOOM-ID							
Group: B	Bottle Type:	BP-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W							
Group: B	Bottle Type:	BG-250ML-WDMT H	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
W-MCYST-AA							
Group: B	Bottle Type:	P-500ML	# of Bottles: 8	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
W-NH3							
W-NO2NO3							
W-S-A-TP							
W-TKN							
Group: B	Bottle Type:	P-125ML	# of Bottles: 8	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
W-PO4-F							
Group: C	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
OV-MBAS-W							