

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 1/2)

WATERBODY NAME: <i>Spread Canal of Lake O, Dike canal outside of lake</i>		DATE (MM/YY): <i>5/6/19</i>	TIME (AM) (PM): <i>1210</i>	Case ID#: <i>SD-050619-002</i>
COUNTY: <i>Cherokee</i>	LOCATION: <i>Leesons Lane Canal</i>	NEAREST TOWN/CITY: <i>Lake Park</i>		
Visit Type: Initial ☒ Recon ☐ Sampling Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: <i>FLDIB</i>	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: ☒ <i>Microcyst</i>		
Estimated size of bloom: <i>N/A</i>	Impounded: ☒ yes ☐ no	Stream/River/Canal <i>Truncated Tributary</i>	Stream/River/Canal <i>10' m wide</i>	
Lake/Estuary Typical depth: <i>1' m deep</i>	Inflows: ☒ yes ☐ no Outflows: ☒ yes ☐ no	Tributary Tributary <i>0.3' m deep</i>	Tributary Tributary <i>1.2' m deep</i>	
		Water velocity <i>m/s</i>	Water velocity <i>m/s</i>	
		Left bank <i>Mud</i>	Right bank <i>Mud</i>	
Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐				
Description of Bloom:	Latitude: <i>27</i> Degrees	Longitude: <i>-81</i> Degrees		
Present Weather conditions	Minutes: <i>0</i>	Seconds: <i>3:45</i>		
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. (mM):
Top	<i>0.3</i>	<i>27.3</i>	<i>7.34</i>	<i>4.41</i>
Mid-depth				<i>7.65</i>
Bottom				<i>55.4</i>
System Type: Stream: ☐ (1st - 2nd order) ☐ (3rd - 4th order) ☐ (5th - 6th order) ☐ (7th order or greater)	Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐	Lake: ☒ Wetland: ☐ Estuary: ☐ Other: ☐		
Water Odors (check box):	Clear: ☒ Scum: ☐ Globes: ☐ Slick: ☐			
Water Surface (check box):	Clear: ☒ Slightly: ☐ Turbid: ☐ Opaque: ☐			
Water Clarity (check box):	Green: ☐ Red: ☐ Brown: ☐ Other: ☒ <i>None</i>			
Bloom Color (check box):				
Notes: <i>No Blue green algae visible</i>				
Abundance: Periphyton ☒ Absent ☐ Rare ☐ Common ☐ Abundant ☐				
Fish ☐				
Aquatic Macrophytes ☐				
Iron/Sulfur Bacteria ☒				

VISIT TEAM:

Check only, John Berrington

SL

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

Algar

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

Meter ID: Pro Move Rq: 2019 Project: ZSR1904 cc

- 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 3/19/19

DO	Name	Date	Time	Temp	Baro	D.O.	Meter	% DO	Probe	Probe	Pass
DEP SOP			CT-ET	°C	meter	Chart	D.O.		Charge	Gain	Fail
FT 1500					mmHg	mg/L	mg/L				Field
Calibr.	Barnackson	3/6/19	0707	27.1	753.8	7.90	7.87	99.2	—	1.045	P/F
ICV	↓	↓	0710	27.0	753.8	7.91	7.85	99.9	—	—	P/F
CCV	Chase Conley	5/6/19	1606	27.2	755.0	7.90	9.10	101.9	—	—	P/F
CCV											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 Diss 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec.	Name	Date	Time	Lot #	Expir.	Standard	Meter	Pass
Cond.			CT-ET		Date	µmhos/cm	Reading	Fail
FT 1200							µmhos/cm	Field
Calibr.	Barnackson	3/6/19	0713	290497	3/21	1000	1000	P/F
ICV	↓	↓	0716	281265	4/20	100	101.3	P/F
CCV	Chase Conley	5/6/19	1600	280950	9/20	10000	9869	P/F
CCV								L/F

Conductivity Acceptance criteria ± 5%

pH	Name	Date	Time	Lot #	Expir.	pH	Temp	Meter	mV	Pass
DEP SOP			CT-ET		Date	Buffer	°C	reading		Fail
FT 1100						SU		SU		Field
Calibr.	Barnackson	3/6/19	0749	187681	11/20	6.99	27.0	7.00	-45.6	P/F
Calibr.			0722	190072	10/21	4.01	27.3	4.01	133.5	P/F
Calibr.			0725	187680	12/20	9.99	27.0	9.98	-22.1	P/F
ICV	↓	↓	0728	190072	01/21	4.04	27.2	3.95	—	P/F
CCV	Chase Conley	5/6/19	1603	187680	12/20	9.99	28.8	9.88	—	P/F
CCV							24.9			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 11.9, slope from 4 to 7 179.1 (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:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: DEP BLUE Date of last verification: 12/26/18

Depth Sensor	Name	Date	Time	Calibrated	ICV Value	Pass
(Daily Calibration & ICV)			CT-ET	Value (0.00 or Offset), meters	meters	Fail
Pressure mode in air						L/F

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

COMMENTS: