

MAKE KINO

Sampling Agency: FDEP NIS ZOC

[illegible]

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

Bayou Chico

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

Meter ID: 154179 RQ: 2017-10-07-87 Project: Spill Complaint

- 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 _____

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.											P / F	L / F
ICV											P / F	L / F
CCV	<i>NM</i>	<i>10/7/19</i>	<i>0900</i>	<i>26.8</i>	<i>766</i>	<i>8.2</i>	<i>8.16</i>	<i>99.5</i>			<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
CCV	<i>↓</i>	<i>↓</i>	<i>1240</i>	<i>30.1</i>	<i>764</i>	<i>7.7</i>	<i>7.58</i>	<i>99.7</i>			<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>

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.	<i>NM</i>	<i>10/7/19</i>	<i>0904</i>	<i>19068C</i>	<i>6/20</i>	<i>10000</i>	<i>10000</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
ICV	<i>↓</i>	<i>↓</i>	<i>0908</i>	<i>19016A</i>	<i>1/20</i>	<i>1000</i>	<i>1013</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
CCV	<i>↓</i>	<i>↓</i>	<i>1242</i>	<i>190502B</i>	<i>5/20</i>	<i>50000</i>	<i>49100</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
CCV								<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>

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.	<i>NM</i>	<i>10/7/19</i>	<i>0910</i>	<i>281803</i>	<i>10/20</i>	<i>7.</i>	<i>24.6</i>	<i>7.0</i>	<i>-68.1</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
Calibr.	<i>↓</i>	<i>↓</i>	<i>0912</i>	<i>2902818</i>	<i>1/21</i>	<i>4.</i>	<i>24.6</i>	<i>4.0</i>		<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
Calibr.	<i>↓</i>	<i>↓</i>	<i>0914</i>	<i>4904E09</i>	<i>9/20</i>	<i>10.</i>	<i>24.6</i>	<i>10.0</i>		<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
ICV	<i>↓</i>	<i>↓</i>	<i>0916</i>	<i>281803</i>	<i>10/20</i>	<i>7.0</i>	<i>24.6</i>	<i>7.04</i>	<i>-68.9</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
CCV	<i>↓</i>	<i>↓</i>	<i>1250</i>	<i>4904E09</i>	<i>9/20</i>	<i>10.0</i>	<i>24.5</i>	<i>9.95</i>	<i>-61.00</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>
CCV	<i>↓</i>	<i>↓</i>	<i>1255</i>	<i>2902818</i>	<i>1/21</i>	<i>4.0</i>	<i>23.9</i>	<i>4.04</i>	<i>-68.20</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>

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	<i>NM</i>	<i>10/7/19</i>	<i>0920</i>	<i>0.00</i>	<i>0.00</i>	<i>P</i> / <i>F</i>	<i>L</i> / <i>F</i>

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

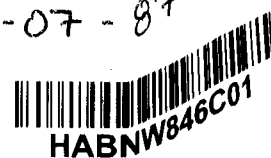
COMMENTS:

sewage spill Bayou Chico Fish Kill

Effective Date: 12/03/2018
Review/Revision Date: 11/30/2018
Author: C. Swanson and J. Walters
AB-17-1.11

RQ-2019-10-07-87

Field ID



Location:

Appen Bayou Chico west of W Street

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

WATERBODY Bayou Chico		DATE (M/D/Y): 10/17/19	TIME: (AM) 1020	Case ID#: N/A
COUNTY: Escambia	LOCATION: Bayou Chico W of W St. Pensacola		NEAREST TOWN/CITY:	
Visit Type: Initial ☐ Recon ☐ Sampling ☒ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: FDEP Central Lab	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: Impounded: ☐ yes ☒ no		Stream/River/Canal m wide m deep		
Lake/Estuary Typical depth 1.0 m deep		Typical Transect m deep m deep m/s		
Inflows: ☒ yes ☐ no		Water velocity m/s m/s m/s		
Outflows: ☒ yes ☐ no		Left bank Middle Right bank		

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

Description of Bloom/ Latitude **30** Degrees Minutes Seconds Longitude **87.25273** Degrees Minutes Seconds

Present Weather conditions

30.4/6/9

Last rain event

Rainfall amount

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.

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Secchi (m)
Top	0.1	30.6	6.80	1.81	32060	0.4
Mid-depth	0.4	30.6	7.01	1.79	34929	
Bottom	0.9	30.5	7.04	1.59	35476	

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: ☐

SULFURIC ACID <51%
DANGER
7733-99-9
7733-99-9
Contains: 1:1 H2SO4
May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/mist/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. See label for more information. Contains: 1:1 H2SO4
Lot No.: SAG010030
Expires: 04/10/20
See Safety Data Sheet (SDS)

Red Tide Tracers taken added fast

Abundance: Absent Rare Common
Periphyton ☐ ☐ ☐
Fish ☐ ☐ ☐
Aquatic Macrophytes ☐ ☐ ☐
Iron/sulfur Bacteria ☒ ☐ ☐

FDEP NWBOL

AGENCY:

WTF

Effective Date: 12/03/2018
Review/Revision Date: 11/30/2018
Author: C. Swanson and J. Walters
AB-17-1.11

Field ID



HABNW84601

Location:

Center Bayou Chico north of Barrancas Ave

Appendix A

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

WATERBODY <i>Bayou Chico</i>		DATE (M/D/YY): <i>10/7/19</i>	TIME: (AM) <i>1115</i>	Case ID#:
COUNTY: <i>Escambia</i>	LOCATION: <i>Center Bayou Chico north of</i>		NEAREST TOWN/CITY: <i>Pensacola</i>	
Visit Type: Initial ☐ Recon ☐ Sampling ☒ Follow- ☐	Samples collected: ☒ yes ☐ no Sample collection method: Single Grab: ☐ Grab Composite: ☐ Depth integrated composite: ☐	Samples submitted to: <i>BOEM</i>	Photos Taken: ☒ yes ☐ no	
Sample & Analysis types: Aqueous: ☐ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐ Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☒ Toxin: ☒ <i>Red Tide</i>				
Estimated size of bloom:		Impounded: ☒ yes ☐ no	Stream/River/Canal: ☐ m wide	
Lake/Estuary Typical depth <i>2.7</i> m deep	Inflows: ☒ yes ☐ no	Typical Transect m deep m deep m deep		
Outflows: ☒ yes ☐ no	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 <i>30.40489</i> <i>87.25500</i>
Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map) Last rain event <i>10/5</i>
Sketch bloom area on the attached map. Indicate wind direction. Rainfall amount <i>trace</i>

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Secchi (m)
Top	<i>0.3</i>	<i>29.9</i>	<i>7.23</i>	<i>4.65</i>	<i>37196</i>	<i>0.7</i>
Mid-depth	<i>1.3</i>	<i>29.8</i>	<i>7.52</i>	<i>1.64</i>	<i>38053</i>	
Bottom	<i>2.7</i>	<i>29.8</i>	<i>7.99</i>	<i>1.77</i>	<i>38373</i>	
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 <i>Fish Kill Gulf menhaden >1000</i>					Abundance: Periphyton ☒ Absent ☐ Rare ☐ Common ☒ Abundant ☐ Fish ☐ ☐ ☒ ☐ Aquatic Macrophytes ☒ ☐ ☐ ☐ Iron/sulfur Bacteria ☒ ☐ ☐ ☐	

VISIT TEAM:

*Nathan
Malky*

FDEP

AGENCY: