

Log-in Checklist

RQ- **2019 - 07 - 08 - 79**

Login Station ID: **# 3**

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: **07-12-2019 / 10:05**

Cooler Temperature*	Samples Frozen	* All Samples In Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Tracking # Damaged waybills only
		YES	HNO ₃		Formalin	Present?		*Intact?	
	Yes					No	Yes	No	
3.1C		X		12		X			4751 8781 1713

* HNO₃ and Formalin persevered samples do **NOT** have a temperature requirement. For all others, if the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX and microbiology), or if Evidence Seal is damaged. Identify the containers in the affected cooler(s) on back of this form. DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C) without login confirmation from customer for samples requiring ice preservation. An NCR still is required.

**Chain of Custody/ Field Sheet(s) Included? Yes X No _____

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes _____ No X

****Note:** If "No" is checked below, fill out the back of this form (Field ID, Test IDs, etc.) and generate an NCR.

CONTAINER CHECK

**Evidence Tape on Bottles? Yes _____ No X If yes, is it intact? Yes _____ No _____

**Caps on tight? Yes X No _____ **Containers intact? Yes X No _____

**Sufficient Sample Volume: Yes X No _____

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes _____ No X Init: ABS

Chlorine detected? (One container checked per Field ID) Yes _____ No _____ Init: ABS

If "YES", list affected Field IDs and Test IDs below.

Field ID	List TestID(s) where Chlorine was Detected, an NCR is required.

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

**Acid Preserved Samples: pH ≤ 2.0? Yes X No _____ NA _____ Init: ABS

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes _____ No X NA _____ Init: ABS

Coolers Unpacked/Checked by: ABS Date: 07-12-2019 NCRs (Y/N)?

Event ID: Algal Bloom Response - SWD
WQAP-2019-07-12-03 (BLOOM-RESP) NCR # _____

Log-in Checklist

Samples with Incorrect pH Preservation

Field ID	Bottle Test ID(s)	pH	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle Test ID(s)

Bottles Not Intact

Field ID	Bottle Test ID(s)	Loose Cap	Damaged Cap		Damaged Container		Evidence Tape Not Intact
			CK	BR	CK	BR	

Samples with Insufficient Volume for Analyses

Field ID	Bottle Test ID(s)	Action Taken

Additional Comments:

Infrared Thermometer ID:	REC 03 2018 EXP:04/29/2020
pH Test Strips 0 – 6 Lot #	213316AV EXP:05/15/2020
pH Paper 0 – 3 Lot #	220416A EXP:07/30/2020
pH Paper 0 – 13 Lot #	215517 exp:jun 1 2020
Chlorine Test Strips Lot #	8212 2021 / 05

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes _____ No **X**

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes _____ If No _____

no, were samples shipped on dry ice? Yes _____ No _____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check (W-HG-AF; W-HG-AF-F):

Samples preserved within 48 hours? Yes _____ No _____

Date and time samples preserved: _____

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Algal Bloom Response - SWD

last revised Jan 25, 2018

Customer: WQAP

Requester: John Watts

Field Report Prepared By:

Project ID: BLOOM-RESP

Collected By:

J. Ashton, B. Paschauer

Sampling Agency:

FDEP

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>7-11-19</u> Time <u>1050</u>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID	Site Name: Lake Seminole North	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>9.51</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	<u>A/B/C/D</u>
WIN/S	Date: 07/11/2019	Temp (C) <u>28.3</u>	pH <u>9.04</u>	Sample Depth <u>0.3</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>340.4</u>	
Latitude	☐ dms	Salinity (ppt) <u>0.16</u>	Comments			
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>7-11-19</u> Time <u>1030</u>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID	Site Name: Lake Seminole South	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>8.85</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	<u>A/B/C/D</u>
WIN/S	Date: 07/11/2019	Temp (C) <u>28.6</u>	pH <u>8.87</u>	Sample Depth <u>0.3</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>458.4</u>	
Latitude	☐ dms	Salinity (ppt) <u>0.22</u>	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: <u>J. Ashton</u>	Date/Time <u>7-11-19 1600</u>	Shipping Method <u>Fed Ex</u>	Number of Coolers Shipped: <u>1</u>	Received By: <u>[Signature]</u>	Date/Time <u>7-12-19/10-05</u>
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Group: A	Bottle Type:	PT-50ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
BLOOM-ID							
Group: B	Bottle Type:	BG-250ML-WDMT H	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
W-MCYST-AA							
Group: C	Bottle Type:	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W							
Group: C	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
W-NH3							
W-NO2NO3							
W-S-A-TP							
W-TKN							
Group: C	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
W-PO4-F							
Group: D	Bottle Type:	BP-1L	# of Bottles: 6	Preservative:	Lugols	Enter Number of Bottles Sent to Lab	1
DTY-QN-C							
PKD-QN-C							

Date: 07/11/2019

DATE (M/D/Y):

51-11-2

1050

Case ID#:

(7-6-06 V2)

LOCATION: LAKE STAMINBLE (N)		COUNTRY: PINELIAS		NEAREST TOWN/CITY: ST. PETERSBURG, FLORIDA	
Visit Type: Initial ☒ Recon ☐ Sampling ☐ Follow-up ☐		Samples collected: ☒ yes ☐ no			
Sample collection method: ☒ Single Grab ☐ Grab Composite ☐ Depth integrated composite ☐		Photos Taken: ☒ yes ☐ no			
Sample & Analysis types: Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐					
Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☐ Toxin: ☐ Spore: ☐					
Estimated size of bloom: ☒ yes ☐ no					
Lake/Estuary Typical depth ☒ inflows: yes ☐ no ☐ outflows: yes ☐ no					
Typical Transect Left bank Right bank					
Canopy Cover: ☒ Open: ☐ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐					
Description of Bloom/					
Latitude: 27 32 Longitude: 82 46 Log/secs Minutes Seconds Log/secs Minutes Seconds					
Present Weather conditions					
OVERTCAST, RAIN					
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: 7-10-19 Rainfall amount:					

WATER QUALITY								System Type:		Water Odors		Water Surface		Water Clarity		Bloom Color		Notes			
Depth (m):	Temp. (°C):	pH (su):	D.O. (mM):	Cond. (µmho/cm) or Salinity (ppt):	Secchi (m):	Top	Mid-depth	Bottom	Stream: ☐ 1st - 2nd order ☐ 3rd - 4th order ☐ 5th - 6th order or greater	Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐	Clear: ☒ Scum: ☐ Glob: ☐ Slick: ☐	Clear: ☐ Slightly Turbid: ☒ Opaque: ☐	Green: ☒ Red: ☐ Brown: ☐ Other: ☐	Contains 1.1 H2SO4 Expires 05/09/20 Lot No: SA9129100 See Safety Data Sheet (SDS)				JNOY ASHRAU BEN PASIUTER			
1.5	28.2	8.56	8.91	339.4	114.7	0.16	0.35	0.16	☐ Estuary: ☐ Wetland: ☒ Lake: ☐	☐ Other: ☐	☐ Other: ☐	☐ Other: ☐	Abundant ☐ Common ☒ Rare ☐ Absent ☒	Periphyton ☐ Fish Aquatic Macrophytes ☐ Iron/sulfur Bacteria ☐							

VISIT TEAM

FBI

AGENCY:

Site Name: Lake Seminole South

Date: 07/11/2019

Appendix A

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

WATERBODY LAKE SEMINOLE (S)		DATE (M/D/YY): 7-11-19	TIME: (AM) 1030	Case ID#:
COUNTY: PINELLAS	LOCATION: LAKE SEMINOLE (S.)	NEAREST TOWN/CITY: ST. PETE		
Visit Type: Initial ☒ Recon ☐ Sampling ☐ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to:		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: WHOLE LAKE Impounded: ☒ yes ☐ no				
Lake/Estuary Typical depth: 2.1 m deep Inflows: ☒ yes ☐ no Outflows: ☐ yes ☐ no				
Stream/River/Canal: ☐ m wide Typical Transect: ☐ m deep ☐ m deep ☐ m deep Water velocity: ☐ m/s ☐ m/s ☐ m/s				

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐
Description of Bloom/ Latitude: 27 51 0.29 Longitude: 82 46 32.44
Present Weather conditions: OVCLOUDY, RECENT RAIN
Print a map from a GIS tool or Internet mapping service (e.g., Mapquest, Google Map) Last rain event: 7-10-19
Sketch bloom area on the attached map. Indicate wind direction. Rainfall amount: _____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/L):	Cond. (µmho/cm) or Salinity (ppt):	0090	SAL	Secchi (m)
Top	0.3	28.6	8.87	8.85	458.4	117.6	0.22	0.3
Mid-depth								
Bottom	1.6	28.6	8.69	8.29	457.8	105.4	0.22	
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: Just ASHWIN BEN ASHWATER					Abundance: Absent Rare Common Abundant			
					Periphyton ☐ ☐ ☒ ☐			
					Fish ☐ ☐ ☒ ☐			
					Aquatic Macrophytes ☐ ☐ ☐ ☒			
					Iron/sulfur Bacteria ☒ ☐ ☐ ☐			

2.1
TOTAL
DEPTH

VISIT TEAM: FOLP	AGENCY:
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MIDWAY
M/CAM

IRE
LE LEAF

SHADOW PINE

ORANGE
LAKE VILLAGE



Willow Point

LAKE PARK

MAIL

HOLIDAY
SHORES

296

102nd Ave

Osceola High School



CATALINA
ESTATES

Slarkey Rd



Dunkin'

LAKE SEMINOLE
ESTATES

Lake
Seminole Park

Date of Request: 24-JUN-2019
 Created By: WATTS_J On: 24-JUN-2019
 Modified By: SWANSON_C On: 24-JUN-2019
 Customer: WQAP
 Project: BLOOM-RESP
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: Algal Bloom Response - SWD

Send Coolers To:

Phone: 813-470-5951
 13051 N. Telecom Parkway

 Temple Terrace, FL 33637
 Attn: Matthew Bearden

Program Module Number:

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 24-JUN-2019
 Biology Request Reviewed By: SWANSON_C On: 24-JUN-2019
 Sampling Kit Required: YES Ship on: 28-JUN-2019
 Sampling Kit Shipped: YES On: 27-JUN-2019
 Sampling Kit Packed By: REYNOLDS_T
 Preservatives Needed: NO
 Date to Receive Samples: 08-JUL-2019
 Received By: SHAIK_A On: 12-JUL-2019

Send Final Report To:

13051 N. Telecom Parkway

 Temple Terrace, FL 33637
 Attn: Matthew Bearden

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments: Unless peak algal bloom season, may analyze toxin after consultation with Biology's Taxonomy Manager.

Bottle Groups A/B/C - separate event, priority 1
 Bottle Group D- separate event, priority 12

Bottle Group A - Priority 1
 For algal dominant taxon.

Bottle Group B - Priority 1
 For toxin testing.

Bottle Group C - Priority 1
 Water quality testing - nutrients and chlorophyll

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 judgement 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.

Bottle Group A (Biological) With 6 Samples:

Bottle Type: PT-50ML Number of Bottles: 6 Preserved With: ICE
 BLOOM-ID Template: DEFAULT (SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 6 Samples:

Bottle Type: BG-250ML-WDMTH Number of Bottles: 6 Preserved With: ICE
 W-MCYST-AA Template: DEFAULT (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS

Bottle Group C (Water) With 6 Samples:

Bottle Type: BP-1L Number of Bottles: 6 Preserved With: ICE
 CHLSUITE-W Template: DEFAULT (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
 Bottle Type: P-500ML Number of Bottles: 6 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
 W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L

Bottle Group C (Water) With 6 Samples:

Bottle Type: P-500ML	Number of Bottles: 6	Preserved With: ICE And H2SO4
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 6	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group D (Water) With 6 Samples:

Bottle Type: BP-1L	Number of Bottles: 6	Preserved With: Lugols
DTY-QN-C	Template: DEFAULT	(SOP-AB05_1) No. of diatom taxa of quantitative phytoplankton sample.
PKD-QN-C	Template: DEFAULT	(SOP-AB05) No. of wet taxa of quantitative phytoplankton sample.

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.