

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2015-06-01-68

Algal Bloom Response - As needed

Requester: Elizabeth Miller

Field Report Prepared By: Ryan Yang

Customer: SO-DIST

Collected By: Ben Passmarer

Send Final Report To: Kirby Wolfe

Project ID: BLOOM-RESP

Sampling Agency: DEP South-Roc

PMAS:

Ben Passmarer

Lab ID *	Location: <u>Algae 1 - Below Franklin Locks</u>			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Eastern	Bottle Group(s)**	
				☒ Grab	Date: <u>6/3/15</u>	Time: <u>1315</u>	Central	Central		
	Field ID			Tot Res Chlorine (mg/L)		Diss Oxygen (mg/L)		Storet Station Number		
	Matrix (include type e.g. Salt, Fresh, etc): <u>Fresh</u>			Temp (C): <u>30.5</u>	pH: <u>8.2</u>	Sample Depth ☒ m <u>0.3</u> ☐ ft	☐ Salinity (PPT)	NPDES Number		
	Latitude: <u>26.72270</u>	☒ dd ☐ dms	Longitude: <u>-81.70039</u>	☒ dd ☐ dms	Comments: <u>D.O.% - 97</u>					A, B + C
Lab ID *	Location: <u>Algae 2 - Above Franklin Locks</u>			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Eastern	Bottle Group(s)**	
				☒ Grab	Date: <u>3/6/15</u>	Time: <u>1440</u>	Central	Central		
	Field ID			Tot Res Chlorine (mg/L)		Diss Oxygen (mg/L)		Storet Station Number		
	Matrix (include type e.g. Salt, Fresh, etc): <u>Fresh</u>			Temp (C): <u>30.4</u>	pH: <u>8.3</u>	Sample Depth ☒ m <u>0.3</u> ☐ ft	☐ Salinity (PPT)	NPDES Number		
	Latitude: <u>26.71983</u>	☒ dd ☐ dms	Longitude: <u>-81.65681</u>	☒ dd ☐ dms	Comments: <u>D.O.% - 103</u>					A B C
Lab ID *	Location			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Eastern	Bottle Group(s)**	
				☐ Grab	Date	Time	Central	Central		
	Field ID			Tot Res Chlorine (mg/L)		Diss Oxygen (mg/L)		Storet Station Number		
	Matrix (include type e.g. Salt, Fresh, etc)			Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPT)	NPDES Number		
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Comments					
Lab ID *	Location			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Eastern	Bottle Group(s)**	
				☐ Grab	Date	Time	Central	Central		
	Field ID			Tot Res Chlorine (mg/L)		Diss Oxygen (mg/L)		Storet Station Number		
	Matrix (include type e.g. Salt, Fresh, etc)			Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPT)	NPDES Number		
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Comments					
Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time		
<u>Ben Passmarer</u>	<u>6/3/15 1730</u>	<u>UPS</u>	<u>[Signature]</u>	<u>6/3/15 09:15</u>						

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

Page 1 of 2

Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: A	Bottle Type: W-MCYST-AA	BG-WD250	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 2	Preservative: **NONE**	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: DTY-QN-C PKD-QN-C	BP-1L	# of Bottles: 2	Preservative: Lugols	Enter Number of Bottles Sent to Lab	2

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 V2)

WATERBODY <i>Caloosahatchee River</i>		DATE (M/D/YY) <i>6/3/15</i>	TIME: (AM) <i>1440</i>	Case ID#
COUNTY: <i>Lee</i>	LOCATION: <i>Algae 2 Above Franklin Lake</i>	NEAREST TOWN/CITY: <i>Alva</i>		
Visit Type: Initial ☐ Recon ☐ Sampling ☒ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: <i>DEP Labs</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>Microcystin</i>				
Estimated size of bloom:		Impounded: ☒ yes ☐ no	Stream/River/Canal <i>150 m wide</i>	
Lake/Estuary Typical depth <i>m deep</i>	Inflows: ☐ yes ☐ no	Typical Transect <i>5.5 m deep</i>		
Outflows: ☐ yes ☐ no	Water velocity <i>0.02 m/s</i>			
		Left bank Middle Right bank		

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐
Description of Bloom/ Latitude <i>26.71983</i> Longitude <i>-81.65681</i>
Present Weather conditions <i>Slightly cloudy wind ≥ 5 mph out of E, SE mid 80s</i>
Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map) Last rain event <i>6/2/15</i>
Sketch bloom area on the attached map. Indicate wind direction. Rainfall amount <i>± 1 in</i>

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	D.O. %	Secch(m)
Top	<i>0.3</i>	<i>30.4</i>	<i>8.3</i>	<i>7.7</i>	<i>467</i>	<i>103</i>	
Mid-depth							<i>0.9</i>
Bottom	<i>5.0</i>	<i>28.9</i>	<i>7.3</i>	<i>5.1</i>	<i>474</i>	<i>67</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		Abundance: Periphyton ☐ Absent ☒ Rare ☐ Common ☐ Abundant ☐ Fish ☐ Aquatic Macrophytes ☐ Iron/sulfur Bacteria ☒					

VISIT TEAM: <i>Kyan Yang</i> <i>Ben Pisswasser</i>	AGENCY: <i>DEP-South Roc</i>
--	---------------------------------

Effective Date: 08/04/2014
Revision Date: 08/04/2014
Author: E. Miller
AB-17-1.7

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-05 v2)

WATERBODY <i>Caloosahatchee River</i>		DATE (M/D/YY): <i>6/3/15</i>	TIME: (AM) <i>1315</i>	Case ID#
COUNTY: <i>Lee</i>	LOCATION: <i>Algae 1 Below Franklin Locks</i>		NEAREST TOWN/CITY: <i>Alva</i>	
Visit Type: Initial ☐ Recon ☐ Sampling ☒ Follow-up ☐	Samples collected: ☒ yes ☐ no	Samples submitted to: <i>DEP Lab</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>Microcystin</i>				
Estimated size of bloom:		Impounded: ☐ yes ☒ no	Stream/River/Canal <i>150 m wide</i>	
Lake/Estuary Typical depth <i>m deep</i>	Inflows: ☐ yes ☐ no	Typical Transect <i>4.3 m deep</i>		
Outflows: ☐ yes ☐ no	Water velocity <i>0.02 m/s</i>			
		Left bank	Middle	Right bank

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐		
Description of Bloom/	Latitude <i>26.71983</i>	Longitude <i>-81.65681</i>
Present Weather conditions <i>Slightly cloudy wind 25 mph E, SE mid 80's</i>		
Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)	Last rain event <i>6/2/15</i>	
Sketch bloom area on the attached map. Indicate wind direction.	Rainfall amount <i>1.2 in</i>	

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	<i>D.O. %</i>	Secch(m)	
Top	<i>0.3</i>	<i>30.5</i>	<i>8.2</i>	<i>7.3</i>	<i>766</i>	<i>97</i>	<i>0.8</i>	
Mid-depth								
Bottom	<i>3.8</i>	<i>28.9</i>	<i>7.8</i>	<i>4.9</i>	<i>825</i>	<i>65</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				Abundance:				
				Periphyton	Absent	Rare	Common	Abundant
				Fish	☐	☒	☐	☐
				Aquatic Macrophytes	☐	☐	☒	☐
				Iron/sulfur Bacteria	☒	☐	☐	☐

VISIT TEAM:

Ryan Young
Ben Passwater

AGENCY:

DEP-South ROC

Date of Request: 13-MAY-2015
 Created By: MILLER_EB On: 13-MAY-2015
 Modified By: WATTS_J On: 13-MAY-2015
 Customer: SO-DIST
 Project: BLOOM-RESP
 Division:
 District: South District
 Sampling Event: Algal Bloom Response - As needed

Send Coolers To:

Phone: 239-332-6975 SC 748-6975
 FLDEP South District Office
 2295 Victoria Ave. Suite 364
 Fort Myers, FL 33901-3381
 Attn: Kirby Wolfe

Program Module Number:

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 13-MAY-2015
 Biology Request Reviewed By: MILLER_EB On: 13-MAY-2015
 Sampling Kit Required: YES Ship on: 27-MAY-2015
 Sampling Kit Shipped: YES On: 26-MAY-2015
 Sampling Kit Packed By: KITCHEN_S
 Date to Receive Samples: 01-JUN-2015
 Received By: SHAIK_A On: 03-JUN-2015

Send Final Report To:

FLDEP South District Office
 2295 Victoria Ave. Suite 364
 Fort Myers, FL 33901-3381
 Attn: Kirby Wolfe

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

Comments: Analyze upon receipt.

2 - vials of sulfuric acid

Suite A is for water column sampling.

Suite B is for full algal count for water and scum if applic.

Suite C is for algal dominant assess. of water and scum if applic.

There are two sets of bottles per suite in case you need one water column and one scum sample but you do not have to fill both if a surface scum is not present.

Suite A (Water) With 2 Samples:

Bottle Type: BP-1L	Number of Bottles: 2	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: BG-WD250	Number of Bottles: 2	Preserved With: ICE
W-MCYST-AA	Template:	(DEP SOP LC-038-1 (based on EPA 8321B)) Microcystins in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 2	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
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: 2	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Suite B (Biological) With 2 Samples:

Bottle Type: PT-50ML	Number of Bottles: 2	Preserved With: **NONE**
BLOOM-ID	Template: DEFAULT	(SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Suite C (Water) With 2 Samples:

Bottle Type: BP-1L	Number of Bottles: 2	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.

Log-in Checklist

RQ- 2015-06-01-68

Shipping Method: UPS

Date/Time of Receipt: 6/4/15/9:55

Cooler ID	Cooler Temperature*	No. Sample Containers in Cooler	Evidence Tape				Tracking # (fill out only if waybill copy is damaged)
			Present?		*Intact?		
Yes	No	Yes	No	Yes	No		
Red	0.4	12		✓			

*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

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

**Chain Of Custody/ Field Sheet(s) Included? Yes ☒ No ☐

CONTAINER CHECK

**Evidence Tape on Bottles? Yes ☐ No ☒ If yes, is it intact? Yes ☐ No ☐

**Caps on tight? Yes ☒ No ☐ **Containers intact? Yes ☒ No ☐

**Sufficient Sample Volume: Yes ☒ No ☐

CHLORINE CHECK (Blue dot on container)

Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required.					
Analysis	Yes	No	Analysis	Yes	No
W-1,4 DIOX			W-PCB-R		
W-AHERB-AA (-AHB-AA-R)			W-PC-AA-SF		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)			W-PESTNP-R		
W-ENDO-AA			W-PSCL-TQ		
W-GLYPH			W-PSNP-TQ		
W-NP-AA-SF			W-PST-CL-R		
W-PAH (-R)					

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

**Acid Preserved Samples: pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: AB

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

Coolers Unpacked/Checked by: AB Date: 6-4-15 NCRs (Y/N)? —

Event ID: Algal Bloom Response - As needed
S0-DIST-2015-06-04-01 (BLOOM-RESP)
 Date Received: 04-JUN-2015 09:15
 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

ENCORE SAMPLES

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

Were Encore samples received? Yes_____ No_____

Date and Time Placed in Freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes_____ No_____

If no, were samples shipped on dry ice? Yes_____ No_____

FOR CLEAN LAB USE ONLY – Methyl Mercury Preservation Check:

Samples Preserved within 48 hours? Yes_____ No_____

Date and time samples preserved: _____

Additional Comments:

UPS Next Day Air®
UPS Worldwide Express®
Shipping Document

SHIPMENT FROM

SHIPMENT NO.

1YR217

REFERENCE NUMBER

TELEPHONE

2213 V... Ave
 ... FL 33401

DELIVERY TO

...
 ... FL 33401

TELEPHONE

... 850 248 8085
 ...
 ... FL 33401

01019112003

WEIGHT	LTR	PAK	WEIGHT	DIMENSIONAL WEIGHT If Applicable	LARGE PACKAGE	SHIPPER RELEASE
	☐	☐	45		☐	☐

☐ EXPRESS (INT'L)
☐ DOCUMENTS ONLY
☐

SATURDAY DELIVERY

J458 645 9370



J458 645 9370

Shipper authorizes UPS to act as forwarding agent for export control and customs purposes. Shipper certifies that these commodities, technology or software, if exported from the United States, will be exported in accordance with the Export Administration Regulations. Deviation contrary to law is prohibited.

UPS Next Day Air®

J458 645 9370



J458 645 9370

TRACKING NUMBER

DATE OF SHIPMENT

EXPORT

DELIVERY