



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ-2021-05-24-52		Collected By: Drew Liddick, Andrew Luning								
Customer: WQAP	Field Report Prepared By: Drew Liddick									
Project ID: HAB-Resp	Sampling Agency: 3EROC									
Location: L308 - Canal side		Comments:								
Field ID: 6EHABO045		Coordinates:								
		Collection Equip:								
WIN ID:		High Tide Time:	Low Tide Time:							
Matrix: Fresh	Grab	Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)
05/24/2021	1100	76.0	6.27	25.0	7.84	0.3	2.0	0.6	399.5	0.19
	1059	77.1	6.38	25.0	7.83	1.5			400	0.19
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface	☐ Clear	☒ Scum	☒ Globs	☒ Slick						
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid	☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____	☐ N/A					
Algae Distribution	☒ Suspended in water column	☒ On surface	☐ Other: _____	☐ N/A						
Water Odors	☐ Normal	☒ Sewage	☐ Petroleum	☒ Chemical	☒ Other: Ozone					
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice	☐ H2SO4	☐ <2	1	B			
	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter		☒ Ice		1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice	Lugols? Y / N		1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
FDEP	05/24/2021	1								

1600
1205



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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RQ- 2021-05-24-52		Collected By: Drew Liddick; Andrew Lucering									
Customer: WQA	Field Report Prepared By: Drew Liddick										
Project ID: HAB-Resp	Sampling Agency: SEROC										
Location: 6308 Lakeside		Comments:									
Field ID: 6EHAB0044		Coordinates:									
		Collection Equip:									
WIN ID:	High Tide Time:	Low Tide Time:									
Matrix: Fresh	Grab	Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A									
Water Quality											
Date	Time ☐ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)	
05/24/2021	1040	81.1	6.64	25.2	7.84	0.3	3.0	0.5	398.4	0.19	
	1039	74.6	6.14	24.8	7.77	2.5			399.4	0.19	
Bloom Observations											
Algal Bloom Observed? ☒ Yes ☐ No											
Water Surface	☐ Clear	☐ Scum	☒ Globs		☒ Slick						
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid		☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown		☐ Other: _____			☐ N/A			
Algae Distribution	☒ Suspended in water column		☒ On surface		☐ Other: _____			☐ N/A			
Water Odors	☐ Normal	☐ Sewage	☐ Petroleum		☒ Chemical			☐ Other: Ozone			
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group				
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A				
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B				
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice		☒ H2SO4	☒ <2	1	B			
	Acid Lot:		Exp:								
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice		1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? Y / N		1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time					
FDEP	05/24/2021	1									

4600
1205



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2021-05-03-64		Collected By: Drew Liddick; Jordan Skaggs									
Customer: WQAP		Field Report Prepared By: Drew Liddick									
Project ID: HAB-Resp		Sampling Agency: SEROC									
Location: 5308 (Lakeside)		Comments:									
Field ID: 5EHAB0033		Coordinates: 26.984851, -80.621610									
WIN ID:		Collection Equip:									
Matrix: Fresh		High Tide Time: Low Tide Time:									
Grab		Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A									
Water Quality											
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)	
05/10/2021	1500										
	1459										
Bloom Observations											
Algal Bloom Observed? ☐ Yes ☐ No											
Water Surface ☐ Clear ☐ Scum ☐ Globs ☐ Slick											
Water Clarity ☐ Clear ☐ Slightly Turbid ☐ Turbid ☐ Opaque											
Bloom Color ☐ Green ☐ Red ☐ Brown ☐ Other: ☐ N/A											
Algae Distribution ☐ Suspended in water column ☐ On surface ☐ Other: ☐ N/A											
Water Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Other:											
Parameter Suite		Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group	
Bloom ID (PT-50mL)		☐ BLOOM-ID				☐ Ice					
Chlorophyll (BP-1L)		☐ CHLSUITE-W				☐ Ice					
Toxins (BG-WD250)		☐ W-MCYST-AA				☐ Ice					
Preserved Nutrients (500mL HDPE)		☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☐ Ice	☐ H2SO4	☐ <2			
		Acid Lot:		Exp:							
Filtered Nutrients (P125mL)		☐ W-PO4-F		☐ Field Filtered 0.45µm Filter		☐ Ice					
				Filter Lot #							
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice	Lugols? Y / N				
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time		



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RQ - 2021-05-03-64		Collected By: Andrew Luerling; Sabrina Fischer									
Customer: WQAP	Field Report Prepared By: Andrew Luerling										
Project ID: HAB-Resp	Sampling Agency: SEKOC										
Location: 580		Comments:									
Field ID: SEHAB0032		Coordinates: 27.111757, -80.285338									
		Collection Equip:									
WIN ID:	High Tide Time:		Low Tide Time:								
Matrix: Fresh	Grab	Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A									
Water Quality											
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)	
05/06/2021	1415	83.0	6.14	31.1	7.89	0.3	5.1		668	0.32	
	1414	40.7	3.12	28.9	7.21	5.0			1515	0.76	
Bloom Observations											
Algal Bloom Observed? ☒ Yes ☐ No											
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick							
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid	☐ Opaque							
Bloom Color	☐ Green	☐ Red	☐ Brown	☐ Other: _____	☐ N/A						
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: _____	☐ N/A						
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____						
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group				
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A				
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B				
	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4		☒ <2	1	B				
Preserved Nutrients (500mL HDPE)	Acid Lot:		Exp:								
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter		☒ Ice		1	B				
	Filter Lot #										
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? Y / N		1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time						
FDEP	05/06/2021 1700	1									



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RQ - 2021-05-03-64		Collected By: Andrew Luerling; Sabrina Fischer								
Customer: WQAP	Field Report Prepared By: Andrew Luerling									
Project ID: HAB-Resp	Sampling Agency: SEROZ									
Location: M-Canal		Comments:								
Field ID: 4E HAB0031		Coordinates:								
		Collection Equip:								
WIN ID:	High Tide Time:		Low Tide Time:							
Matrix: Fresh	Grab	Tide: ☐ Rising ☐ Falling ☐ Slack	☒ N/A							
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)
05/06/2021	1245	86.2	6.31	31.9	8.18	0.3	2.0		420.1	0.20
	1244	51.9	3.89	30.5	7.88	1.5			421.9	0.20
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☐ No (Unclear; Filamentous) ✓										
Water Surface	☐ Clear	☐ Scum	☒ Globs	☒ Sluck						
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid	☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____	☐ N/A					
Algae Distribution	☐ Suspended in water column		☒ On surface	☐ Other: _____	☐ N/A					
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____					
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice	☒ H2SO4	☒ <2	1	B			
	Acid Lot: _____		Exp: _____							
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter		☒ Ice		1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice	Lugols? Y / N		1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
FDEP	05/06/2021 1700	4								



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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RQ - 2021-05-03-64		Collected By: Andrew Luerding; Sabina Fischer								
Customer: WQAP	Field Report Prepared By: Andrew Luerding									
Project ID: HAB-Resp	Sampling Agency: SEROC									
Location: Lake Melva		Comments:								
Field ID: SEHAB0030		Coordinates: 26.148001, -80.120965								
		Collection Equip:								
WIN ID:		High Tide Time:	Low Tide Time:							
Matrix: Fresh	Grab	Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
05/06/2021	1100	100.1	7.60	29.7	7.85	0.3			324.1	0.15
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Surface	☒ Clear	☐ Scum	☐ Globbs	☐ Slick						
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☐ Green	☐ Red	☐ Brown	☐ Other: _____	☐ N/A					
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: _____	☐ N/A					
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____					
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice	☒ H2SO4	☒ <2	1	B			
	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter		☒ Ice		1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice	Lugols? Y / N		1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
FDEP	05/06/2021 1700	1								



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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RQ - 2021-05-03-64		Collected By: Drew Liddick, Andrew Lanning, Sabrina Fische								
Customer: WQAP	Field Report Prepared By: Drew Liddick									
Project ID: HAB-Resp	Sampling Agency: SEROZ									
Location: Lake Okechobee (East Lake Shoal)		Comments:								
Field ID: SE1TAB0029		Coordinates: 27.119270, -80.798614								
WIN ID:		Collection Equip:								
Matrix: Fresh		High Tide Time:	Low Tide Time:							
Grab		Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)
05/04/2021	1200	97.1	7.59	28.1	8.25	0.3	3.2	0.05	382	
	1159	89.7	7.01	27.5	7.85	2.7			382	
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface	☐ Clear	☐ Scum	☒ Globs	☒ Slick						
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid	☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____	☐ N/A					
Algae Distribution	☒ Suspended in water column	☒ On surface	☐ Other: _____	☐ N/A						
Water Odors	☐ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☒ Other: Ozone					
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice	☒ H2SO4	☒ <2	1	B			
	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter		☒ Ice		1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice	Lugols? Y / N		1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
FDEP	05/04/2021	1								

1600



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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RQ - 2021-05-03-64		Collected By: Drew Liddick; Andrew Luerding								
Customer: WQAP		Field Report Prepared By: Drew Liddick								
Project ID: HAB-Resp		Sampling Agency: SEROC								
Location: Pahokee Marina (opening to Marina)		Comments: See comments on SEHAB0027								
Field ID: SEHAB0028		Coordinates: 26.82669294; -80.66608268								
		Collection Equip:								
WIN ID:		High Tide Time:								
Matrix: Fresh		Low Tide Time:								
Grab		Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTth)
05/03/2021	1200	95.2	7.47	28.5	8.26	0.3	3.8	0.4	375.3	0.18
	1159	28.8	2.33	27.0	7.47	3.3			388.2	0.19
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface ☐ Clear ☒ Scum ☒ Globs ☐ Slick										
Water Clarity ☐ Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque										
Bloom Color ☒ Green ☐ Red ☐ Brown ☐ Other: ☐ N/A										
Algae Distribution ☒ Suspended in water column ☒ On surface ☐ Other: ☐ N/A										
Water Odors ☐ Normal ☒ Sewage ☐ Petroleum ☒ Chemical ☒ Other: Ozone										
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B			
	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4 ☒ <2			1	D			
Preserved Nutrients (500mL HDPE)	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice		1	B		
			Filter Lot #							
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☐ Ice		Lugols? Y / N		1	B		
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
FDEP	05/03/2021 1600	1								



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RQ - 2021-05-03-64		Collected By: Drew Liddick; Andrew Luvring									
Customer: WQAP		Field Report Prepared By: Drew Liddick									
Project ID: HAB-Resp		Sampling Agency: SEROL									
Location: Palmdale Marina (central ramp launch dock)		Comments: Extreme Event!; 1/3 of Marina still covered in scum; clean-up teams present & active Hazardous									
Field ID: SEHAB0027		Coordinates: 26.82526631; -80.66786383									
WIN ID:		Collection Equip:									
Matrix: Fresh		High Tide Time:									
Grab		Low Tide Time:									
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A											
Water Quality											
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)	
05/03/2021	1145	68.3	5.27	28.5	7.77	0.3	2.8	0.4	382.7	0.18	
	1144	3.3	0.29	27.1	6.64	2.3			443.7	0.21	
Bloom Observations											
Algal Bloom Observed? ☒ Yes ☐ No											
Water Surface ☐ Clear ☒ Scum ☒ Globbs ☒ Slick											
Water Clarity ☐ Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque											
Bloom Color ☒ Green ☐ Red ☐ Brown ☐ Other: ☐ N/A											
Algae Distribution ☒ Suspended in water column ☒ On surface ☐ Other: ☐ N/A											
Water Odors ☐ Normal ☒ Sewage ☐ Petroleum ☒ Chemical ☒ Other: Ozone											
Parameter Suite	Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group		
Bloom ID (PT-50mL)	☒ BLOOM-ID				☒ Ice			1	A		
Chlorophyll (BP-1L)	☒ CHLSUITE-W				☒ Ice			1	B		
Toxins (BG-WD250)	☒ W-MCYST-AA				☒ Ice			1	B		
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B		
	Acid Lot:		Exp:								
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice			1	B		
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C				☒ Ice		Lugols? Y / N	1	B		
Relinquished By:	Date/Time		Number of Coolers Shipped		Received By:		Date/Time				
FDEP	05/03/2021		1								
1600											



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2021-03-22-40		Collected By: Sabrina Fischer; Andrew Luening								
Customer: WQAP		Field Report Prepared By: Andrew Luening								
Project ID: HAB-Resp		Sampling Agency: SEROC								
Location: Palmdale Marina		Comments: Extreme Event!; Thick Scum Layer; Multi-Colored; Hazardous								
Field ID: 5E/HAB0022		Coordinates: 26.82526631, -80.66786383								
WIN ID:		Collection Equip:								
Matrix: Fresh		High Tide Time: Low Tide Time:								
Grab		Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (umho/cm)	Salinity (PPTH)
04/26/2021	1545	66.9	5.16	28.8	8.01	0.3	2.8		383.0	0.18
		12.4	1.00	26.4	7.29	2.8			398.1	0.19
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface ☐ Clear ☒ Scum ☒ Globs ☒ Slick										
Water Clarity ☐ Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque										
Bloom Color ☒ Green ☐ Red ☐ Brown ☐ Other: ☐ N/A										
Algae Distribution ☒ Suspended in water column ☒ On surface ☐ Other: ☐ N/A										
Water Odors ☐ Normal ☒ Sewage ☐ Petroleum ☒ Chemical ☒ Other: Ozone										
Parameter Suite	Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group	
Bloom ID (PT-50mL)	☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)	☒ CHLSUITE-W				☒ Ice			1	B	
Toxins (BG-WD250)	☒ W-MCYST-AA				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ 2	1	B	
	Acid Lot:				Exp:					
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter				☒ Ice			1	B	
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C				☒ Ice		Lugols? Y / N	1	B	
Relinquished By:	Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
FDEP	04/26/2021 1700		1							



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2021-04-27-03		Collected By: Sabrina Fischer; Andrew Luening								
Customer: WQAP		Field Report Prepared By: Andrew Luening								
Project ID: HAB-Resp		Sampling Agency: SEROL								
Location: (Lakeside) 6308		Comments:								
Field ID: 6E HAB0021		Coordinates: 26.984851; -80.62610								
WIN ID:		Collection Equip:								
Matrix: Fresh		High Tide Time:								
Grab		Low Tide Time:								
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A										
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
04/26/2021	1510	7.28	26.8	8.01	0.3				372.6	0.18
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface ☐ Clear ☐ Scum ☐ Globbs ☒ Slick										
Water Clarity ☐ Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque										
Bloom Color ☒ Green ☐ Red ☐ Brown ☐ Other: ☐ N/A										
Algae Distribution ☐ Suspended in water column ☒ On surface ☐ Other: ☐ N/A										
Water Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Other:										
Parameter Suite		Parameter Methods		Preservation		pH Check		#Bottles Sent to Lab		Bottle Group
Bloom ID (PT-50mL)		☒ BLOOM-ID		☒ Ice				1		A
Chlorophyll (BP-1L)		☒ CHLSUITE-W		☒ Ice				1		B
Toxins (BG-WD250)		☒ W-MCYST-AA		☒ Ice				1		B
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4		☒ <2		1		B
		Acid Lot:		Exp:						
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice		1		B
		Filter Lot #:								
Quantitative Algae		☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? Y / N		1		B
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time		
FDEP		04/26/2021		1						
		1700								



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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RQ - 2021-03-22-40		Collected By: Jordan Skaggs; Andrew Luering								
Customer: WQAP	Field Report Prepared By: Jordan Skaggs									
Project ID: HAB-Resp	Sampling Agency: SEROL									
Location: Lake Melva		Comments:								
Field ID: SEHAB0019		Coordinates:								
		Collection Equip:								
WIN ID:	High Tide Time:	Low Tide Time:								
Matrix: Fresh	Grab	Tide:	☐ Rising ☐ Falling ☐ Slack ☒ N/A							
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
04/14/2021	0840	94.2	7.65	25.9	7.87	0.3	0.7	0.8	328.4	0.16
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick						
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☐ Green	☐ Red	☐ Brown	☐ Other: _____	☐ N/A					
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: _____	☐ N/A					
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____					
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice	☒ H2SO4	☒ <2	1	B			
	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice	1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? Y / N		1	B		
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time				
FDEP	04/14/2021	1								

1600



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2021-03-22-40		Collected By: Drew Liddick; Jordan Skaggs								
Customer: WQAP		Field Report Prepared By: Drew Liddick								
Project ID: HAB-Resp		Sampling Agency: SEROL								
Location: (Wastewater) 53082		Comments:								
Field ID: 5EHAB0018		Coordinates: 26.984851, -80.621610								
		Collection Equip:								
WIN ID:		High Tide Time: Low Tide Time:								
Matrix: Fresh		Grab Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
04/12/2021	1255	94.8	8.10	23.2	8.03	0.3	3.5	0.4	365.1	0.17
	1254	91.6	7.87	22.9	7.96	3.0			365.4	0.17
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface ☐ Clear ☐ Scum ☒ Globbs ☒ Slick										
Water Clarity ☐ Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque										
Bloom Color ☒ Green ☐ Red ☐ Brown ☐ Other: ☐ N/A										
Algae Distribution ☒ Suspended in water column ☒ On surface ☐ Other: ☐ N/A										
Water Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☒ Other: Ozone										
Parameter Suite		Parameter Methods			Preservation		pH Check	#Bottles Sent to Lab	Bottle Group	
Bloom ID (PT-50mL)		☒ BLOOM-ID			☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W			☒ Ice			1	B	
Toxins (BG-WD250)		☐ W-MCYST-AA			☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot:			Exp:					
Filtered Nutrients (P125mL)		☒ W-PO4-F			☒ Field Filtered 0.45µm Filter		☒ Ice	1	B	
		Filter Lot #								
Quantitative Algae		☒ DTY-QN-C / PKD-QN-C			☒ Ice		Lugols? Y / N	1	B	
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time		
FDEP		04/12/2021 1600		1						



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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RQ - 2021-03-22-40		Collected By: Drew Liddick; Jordan Skaggs	
Customer: WQAP	Field Report Prepared By: Drew Liddick		
Project ID: HAB-RESP	Sampling Agency: SERC		
Location: Pahokee Marina		Comments:	
Field ID: SEHAB0017		Coordinates: 26.82526631	
		Collection Equip: 80.66786383	
WIN ID:	High Tide Time:		Low Tide Time:
Matrix: Fresh	Grab	Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A	

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
04/12/2021	1220	85.8	7.36	22.9	7.79	0.3			370.0	0.18
	1219	83.7	7.21	22.7	7.68	1.7	2.2	0.4	370.0	0.18

Bloom Observations					
Algal Bloom Observed? ☐ Yes ☒ No					
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick	
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid	☐ Opaque	
Bloom Color	☐ Green	☐ Red	☐ Brown	☐ Other: _____ ☐ N/A	
Algae Distribution	☐ Suspended in water column		☐ On surface	☐ Other: _____ ☐ N/A	
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-50mL)	☒ BLOOM-ID	☒ Ice		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	B
Toxins (BG-WD250)	☒ W-MCYST-AA	☒ Ice		1	B
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☒ <2	1	B
	Acid Lot:	Exp:			
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45µm Filter	☒ Ice		1	B
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C	☒ Ice	Lugols? Y / N	1	B

Relinquished By: FDEP	Date/Time: 04/12/2021 1600	Number of Coolers Shipped: 1	Received By:	Date/Time:
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Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2021-03-22-40		Collected By: Drew Liddick, Andrew Luenig								
Customer: WQAP	Field Report Prepared By: Drew Liddick									
Project ID: HAB-REBP	Sampling Agency: SEKOL									
Location: S86		Comments:								
Field ID: SEHAB0016		Coordinates: 27.111757, -80.285338								
		Collection Equip:								
WIN ID:	High Tide Time:	Low Tide Time:								
Matrix: Fresh	Grab	Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)
03/29/2021	1100	80.2	6.52	25.8	7.60	0.3	4.0	0.5	431.0	0.21
	1059	76.4	6.28	25.3	7.50	3.5			430.2	0.21
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick						
Water Clarity	☐ Clear	☐ Slightly Turbid	☒ Turbid	☐ Opaque						
Bloom Color	☐ Green	☐ Red	☐ Brown	Other: _____	☐ N/A					
Algae Distribution	☐ Suspended in water column		☐ On surface	Other: _____	☐ N/A					
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	Other: _____					
Parameter Suite	Parameter Methods			Preservation	pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID			☒ Ice		1	A			
Chlorophyll (BP-1L)	☐ CHLSUITE-W			☒ Ice		1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA			☒ Ice		1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice	☒ H2SO4	☒ <2	1	B		
	Acid Lot: _____			Exp: _____						
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter	☒ Ice		1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C			☒ Ice	Lugols? Y / N	1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
FDEP	03/29/2021 1600	1								



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2021-03-22-40		Collected By: Drew Liddick; Andrew Luening								
Customer: WQAP		Field Report Prepared By: Drew Liddick								
Project ID: HAB-RESP		Sampling Agency: SERO								
Location: 5308 (Canalside)		Comments:								
Field ID: SE HAB0015		Coordinates: 26.985349, -80.620926								
WIN ID:		Collection Equip:								
Matrix: Fresh		High Tide Time:								
Grab		Low Tide Time:								
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A										
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
03/29/2021	1000	95.7	7.77	25.9	7.99	0.3	1.1	0.5	370.8	0.18
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface ☐ Clear ☐ Scum ☒ Globs ☐ Slick										
Water Clarity ☐ Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque										
Bloom Color ☒ Green ☐ Red ☐ Brown ☐ Other: ☐ N/A										
Algae Distribution ☒ Suspended in water column ☒ On surface ☐ Other: ☐ N/A										
Water Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Other: ☐ N/A										
Parameter Suite		Parameter Methods		Preservation		pH Check		#Bottles Sent to Lab		Bottle Group
Bloom ID (PT-50mL)		☒ BLOOM-ID		☒ Ice				1		A
Chlorophyll (BP-1L)		☒ CHLSUITE-W		☒ Ice				1		B
Toxins (BG-WD250)		☒ W-MCYST-AA		☒ Ice				1		B
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice		☒ H2SO4		☒ <2		1 B
Acid Lot:				Exp:						
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice				1 B
Quantitative Algae		☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? Y / N				1 B
Relinquished By: FDEP		Date/Time: 03/29/2021		Number of Coolers Shipped: 1		Received By:		Date/Time:		
		1600								

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET

(7-6-06 V2)

WATERBODY Lake Melva		DATE (M/D/YY): 1/07/21	TIME: (AM) 12:35	Case ID#: HAB-SE-0026
COUNTY:		LOCATION:		NEAREST TOWN/CITY:
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: ☐				
Estimated size of bloom: ☐ Impounded: ☐ yes ☐ no		Stream/River/Canal ☐ m wide Specify		
Lake/Estuary Typical depth: ☐ deep Inflows: ☐ yes ☐ no Outflows: ☐ yes ☐ no		Typical Transect: ☐ m deep ☐ m deep ☐ m deep 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				
Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map) Last rain event				
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):	Sal	% Sal	Secch(m)
Top	0.3	21.7	7.63	8.95	282.7	0.13	102.5	2.5
Mid-depth								
Bottom								

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: SE ROC

AGENCY: Alex Miranda
Alex Miranda