# MIROMAR LAKES COMMUNITY DEVELOPMENT DISTRICT





NOVEMBER 28, 2023

PREPARED BY:

JPWARD & ASSOCIATES, LLC, 2301 NORTHEAST 37<sup>TH</sup> STREET, FORT LAUDERDALE, FL 33308 T: 954-658-4900 E: JimWard@JPWardAssociates.com

## MIROMAR LAKES COMMUNITY DEVELOPMENT DISTRICT

November 21, 2023

Board of Supervisors

Miromar Lakes Community Development District

Dear Board Members:

The regular meeting of the Board of Supervisors of the Miromar Lakes Community Development District will be held on **Tuesday, November 28, 2023**, at **2:00 P.M.** in the Library at the **Beach Clubhouse, 18061 Miromar Lakes Parkway, Miromar Lakes, Florida 33913**.

The following WebEx link and telephone number are provided to join/watch the meeting remotely: https://districts.webex.com/districts/j.php?MTID=m5dfcf3536cc1e59a90c9eaef91233337

Access Code: 2345 727 7269, Event Password: Jpward

Phone: **408-418-9388** and enter the access code **2345 727 7269**, password: **Jpward** (**579274** from phones) to join the meeting.

#### Agenda

- 1. Call to Order & Roll Call.
- 2. Consideration of Minutes of October 12, 2023 Regular Meeting.
- 3. Staff Reports.
  - I. District Attorney.
  - II. District Engineer
  - III. District Asset Manager.
    - a) Operations Report November 1, 2023.
    - b) Waterway Inspection Report October 2023.
    - c) Water Quality Report August 2023.
  - IV. District Manager
    - a) No meeting December 14, 2023.
    - b) Financial Statement for period ending October 31, 2023 (unaudited).
- 4. Supervisor's Requests and Audience Comments.
  - I. Supervisor Mike Weber: Ravenna Water Management System turnover.
- 5. Announcement of Next Meeting January 11, 2024.

#### 6. Adjournment.

The first order of business is the call to order & roll call.

The second order of business is the consideration of the Minutes from the Miromar Lakes Community Development District Board of Supervisors Regular Meeting held on October 12, 2023.

The third order of business are the staff reports by the District Attorney, District Engineer, and District Asset Manager.

The fourth order of business is a request from Supervisor Mike Weber to discuss the Ravenna Water Management System turnover.

The balance of the agenda is standard in nature, and I look forward to seeing you at the meeting. If you have any questions and/or comments before the meeting, please do not hesitate to contact me directly at (954) 658-4900.

Sincerely yours,

**Miromar Lakes Community Development District** 

amus A Ward

James P. Ward District Manager

#### The Fiscal Year 2024 meeting schedule is as follows:

October 12, 2023	November 9, 2023
December 14, 2023 - Canceled	January 11, 2024
February 8, 2024	March 14, 2024
April 11, 2024	May 9, 2024
June 13, 2024	July 11, 2024
August 8, 2024	September 12, 2024

1 2 3 4		NUTES OF MEETING MIROMAR LAKES TY DEVELOPMENT DISTRICT
5 6 7 8 9		rvisors of the Miromar Lakes Community Development District , at 2:00 P.M. in the Library at the Beach Clubhouse, 18061 lorida 33913.
10	Present and constituting a quorun	n:
11	Alan Refkin	Chair
12	Michael Weber	Vice Chair
13	Patrick Reidy	Assistant Secretary
14	Mary LeFevre	Assistant Secretary
15	Doug Ballinger	Assistant Secretary
16	boog bannger	A solution of every
17	Also present were:	
18	James P. Ward	District Manager
19	Charlie Krebs	District Engineer
20	Greg Urbancic	District Attorney
21	Bruce Bernard	Asset Manager
22	Richard Freeman	Asset Manager
23	Menara rreeman	Abset Mulliger
24	Audience:	
25	Heather Chapman	HOA Manager
26	neutrer endpindir	nontwanager
27	All residents' names were not i	ncluded with the minutes. If a resident did not identify
28	themselves or the audio file did	not pick up the name, the name was not recorded in these
29	minutes.	
30		
31		
32	FIRST ORDER OF BUSINESS	Call to Order/Roll Call
33 34 35 36 37	District Manager James P. Ward called the roll call; all Members of the Board were pro	e meeting to order at approximately 2:00 p.m. He conducted esent, constituting a quorum.
37 38 39	SECOND ORDER OF BUSINESS Co	onsideration of Minutes
40 41	September 14, 2023 – Regular Meeting M	inutes
42 43 44	Mr. Ward noted there was one name spe deletions, or corrections for the Minutes; t	lling correction. He asked if there were any other additions, here were none.
45 46 47		ary LeFevre, seconded by Mike Weber, and tember 14, 2023, Regular Meeting Minutes ed.

48 49			
49 50	тни	RD ORDER OF BUSINESS	Staff Reports
51			
52	١.	District Attorney	
53			
54		No report.	
55			
56	н.	District Engineer	
57			
58		No report.	
59 60		Accest Managar	
60 61		Asset Manager	
61 62	2	) Operations Report October 1, 2023	
63	aj		
64		Mr. Richard Freeman indicated the fount	ain at Port Romano was repaired and reinstalled. He
65			has begun. He indicated he would bring information
66		regarding further lake bank maintenance t	
67			
68		Mr. Bruce Bernard stated that they were re	eviewing proposals for lake bank repair.
69			
70	IV.	District Manager	
71			
72	a)	) Financial Statement for period ending Ser	otember 30, 2023 (unaudited)
73			
74		-	bod with \$533,000 dollars in excess falling into this year.
75 76			subject to audit changes. He noted there would most
76 77			y, but this number was above the anticipated \$340,000 the \$1.5 million dollar mark going into September 30,
78		2024.	the 51.5 minion donar mark going into September 50,
79		2027.	
80		Ms. Mary LeFeyre stated if this were true i	t might then be possible to lower assessments.
81			
82		Mr. Pat Reidy indicated at least a discus	sion could be had at that point regarding assessment
83		rates. He noted from a cash position the	e CDD was in a much better position than it was a few
84		years ago.	
85			
86		Mr. Ward agreed.	
87			
88			
89	FOL	URTH ORDER OF BUSINESS	Supervisor's Requests and Audience Comments
90		Mand a dist the second second second second second	
91 02	ivir.	. Ward asked if there were any Supervisor's re	equests.
92 93	Mc	LeFevre asked for an undate regarding the	transfer of drainage permits to the HOA as opposed to
95 94		CDD.	transier of dramage permits to the non as opposed to
94 95	ule		

96 Mr. Charlie Krebs explained Miromar granted permission to assemble a package regarding the drainage

97 permits, and the next which would come through would be Phase 2 for Costa Maggiore, following which

98 would be Avellino, but Avellino was under construction with many vacant lots. He stated before the

District accepted anything from Avellino, he wanted to be sure the construction was almost completed.He noted Costa Maggiore Phase 2 was almost completed and after Avellino, next was Messina across

101 from FGCU, and the others were still under construction and permitting.

102

103 Mr. Refkin asked if there were any update regarding Ravenna.

104

105 Mr. Weber noted last month he provided an update. He stated following the meeting he made some 106 phone calls and received an email from an HOA Board Member laying out what the HOA would accept 107 from the CDD, which he found odd. He indicated he then reached out to Boris, the President of the 108 HOA, who was unaware of the email, but made it clear the HOA wished to get Ravenna transferred to 109 the CDD and wished to know what the CDD's expectations were. He stated he then spoke with Jim 110 Ward who spoke with Staff and outlined what was needed to bring Ravenna to a state in which the CDD would accept the transfer: 1) New filter fabric was needed to overlap the old fabric ensuring there was 111 112 no uncovered rip rap; the existing fabric did not need to be recovered, only the gaps between the fabric 113 needed to be covered with new fabric; 2) the CDD needed a signed and sealed letter from an Engineer indicating the installation was completed in accordance with plans and specifications; 3) all outstanding 114 115 permits must be closed; 4) the CDD and Engineers would do period inspections and a final inspection for 116 the CDD Board before acceptance; and 5) the CDD would accept a 2 to 1 slope. He stated the 2 to 1 117 slope was a point of contention, especially in the email he received, in which the email author was 118 demanding a 3 to 1 slope. He stated the CDD would accept a 2 to 1 slope for transfer, but of course 119 preferred a 3 to 1 slope. He stated the 2 to 1 slope meant the CDD would have more maintenance going 120 forward. He noted the review and interpretation of the Ravenna legal documents regarding the transfer 121 was something Ravenna needed to determine; the CDD needed a letter from Ravenna's attorney stating 122 Ravenna's approval of the transfer was done in accordance with Ravenna's declarations and bylaws. He 123 indicated he would continue conversations to obtain a signoff on the CDD's requests and then hopefully 124 move forward. He stated it sounded positive and Ravenna wished to move forward especially given 125 Ravenna was facing a huge assessment it would not have faced if this had been done sooner.

126

128

130

127 Mr. Refkin complemented Mr. Weber for his efforts in this regard.

129 Ms. LeFevre asked if the email was sent to Mr. Weber without Boris's knowledge.

131 Mr. Weber responded in the affirmative; apparently Boris had been unaware of the email. He stated he 132 would provide another update next month.

133

135

137

139

134 Mr. Refkin asked about the cane toads.

136 Mr. Freeman responded installation of new traps was being considered.

138 Mr. Ballinger asked if the 350 grass carp had been placed in the lake.

140 Mr. Freeman responded in the affirmative.

141

142 Discussion ensued regarding the 350 grass carp.

143

Mr. Ward asked if there were more Board questions or comments; there were none. He asked if there
were any audience comments or questions; there were none.

147		
148	FIFTH ORDER OF BUSINESS	Announcement of Next Meeting
149		
150	Announcement of Next Meeting – I	November 9, 2023
151		
152		
153	SIXTH ORDER OF BUSINESS	Adjournment
154		
155	Mr. Ward adjourned the meeting at	approximately 2:15 p.m.
156		
157	On MOTION made	by Alan Refkin, seconded by Mary LeFevre, and
158	with all in favor, the	e meeting was adjourned.
159		
160		
161		Miromar Lakes Community Development District
162		
163		
164		
165		
166		
167	Jamas D. Ward Cogratary	Alan Defkin, Chairman
107	James P. Ward, Secretary	Alan Refkin, Chairman

## MIROMAR LAKES COMMUNITY DEVELOPMENT DISTRICT

Monthly Asset Manager's Report October 2023

## Prepared For: James Ward District Manager

Prepared By:



# Calvin, Giordano & Associates, Inc.

A SAFEbuilt COMPANY

CGA Project No. 13-5692 November 1, 2023

## MIROMAR LAKES COMMUNITY DEVELOPMENT DISTRICT

#### TABLE OF CONTENTS

I.	PURPOSE	. 3
II.	CURRENT ASSET UPDATES	3
III.	LOCATION MAP.	5
IV.	DISTRICT ASSET MANAGER PHOTOS	6

## MIROMAR LAKES COMMUNITY DEVELOPMENT DISTRICT

#### I. PURPOSE

The purpose of this report is to provide the District Manager with an update on recent inspectionrelated activities. We will continue to provide updated monthly inspection reports on the status of ongoing field activities.

#### **II. CURRENT ASSET UPDATES**

The following items are currently outstanding:

#### 1. Lake Maintenance

- Aquatic vendor treated grasses, brush, and invasive weeds along the shoreline of lakes #6H, 6I, 6M, 6N, 6O, 6P, 6J, 6K, 6M, 6N, 6O, and the beach club marina rip rap. Selectively treated torpedo grass and vines in the littoral areas of lakes #3D, 3E, 6K, 6R, 6P and 6J. They treated the dead floating eel grass that was getting pushed into the coves of the peninsula marina. Treated submerged aquatic vegetation (Hydrilla) in lake #6J. Treated surface algae in lakes #6H, 6K, 6L and 6R. Treated planktonic algae in lake 3D, 6C, 6P, and 6R. Selectively treated grasses, vines, and invasive alligator weed in the littoral areas of lakes #6P and 6J. Also, hand pulled all the weeds around the shoreline of lake #3D.
- The cane toad vendor has quoted the CDD for 35 bait stations. The vendor has suggested that if he trapped only 2 toads/station per week, that's 70 adult toads per cycle. Considering each female can lay 20,000 eggs in each lake. The vendor is currently averaging 5 toads per test box "2" within Bellini. This is a suggestion to help migrate the tadpole population and keep them at a manageable control level. The CDD is suggesting a total of 35 boxes be installed around select lakes throughout the community. Boxes will be owned by the cane toad vendor on a rental basis by the CDD.

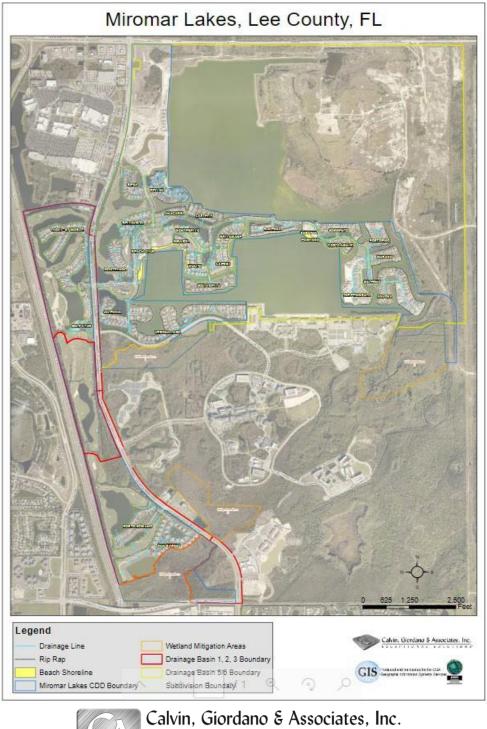
#### 2. <u>Capital</u>

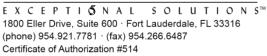
• The submersed vegetation coverage is in good range at the moment. The lake has approximately 15% coverage in vegetation. The next step in the process is to focus on limiting growth in undesired areas. The peninsula area is problematic at the moment. The aquatic vendor will continue treating dock/boat slips and shorelines where growth interferes with water uses/access. CDD staff is working with the vendor on vegetation guidelines to determine where we will allow submerged weeds to be present. Once the vegetation management guidelines are finalized. The aquatic vendor can incorporate this strategy into their regular visits and knock back the vegetation using herbicides to prevent damaging the habit that will be needed in the next few processes. • The fishery vendor wrapped up their vegetation mapping project and calculated 9-10 acres of emergent vegetation along the shoreline throughout the lake. They will assess and confirm if any additional emergent vegetation can be established. Over the next few weeks, Then the fishery vendor will update the Fisheries Management Plan and propose next steps based on the progress made over the past 12 months.

#### 3. <u>Future Items</u>

- Follow up with lake bank restoration vendor on proposal for repairs to FY 24 capital.
- Periodic inspection of Ravenna riprap shoreline installation will take place.

#### **III. LOCATION MAP**





### IV. DISTRICT ASSET MANAGERS PHOTOS





treatment.











Reason for Inspection: Routine Scheduled

Inspection Date: 2023-10-20

**Prepared for:** 

Miromar Lakes CDD 10160 Miromar Lakes Blvd. Fort Myers, Florida 33913

**Prepared by:** 

Bailey Hill, Aquatic Specialist

FORT MYERS FIELD OFFICE SOLITUDELAKEMANAGEMENT.COM 888.480. LAKE (5253)

Miromar Lakes CDD	Waterway Inspection Report	2023-10-2
TA	ABLE OF CONTENTS	
		Pg
SITE ASSESSMENTS		
<b>PONDS</b> 1A 1B 1C		3
<b>PONDS</b> 2A 3A 3B		4
<b>PONDS</b> 3C 6A 6B		5
PONDS 6C 6D 6E		6
PONDS 6F 6G 6H		7
<b>PONDS</b> 6I 6J 6K		8
PONDS 6L 6M 6N		9
<b>PONDS</b> 60 6P 6R		10
<b>PONDS</b> 5/6-1 5/6-2 5/6-3		11
PONDS 5/6-4		12
MANAGEMENT /COMMENTS SUMMARY	Y	12 13
0112 mm		

888.480.Lake (5253)

2023-10-20

#### Site: 1A

#### **Comments:**

Normal growth observed

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels. Some minor growth of chara observed, monitor and treat as needed.

#### Action Required:

Re-inspect next visit

#### **Target:**

Species non-specific

#### Site: 1B

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific

#### Site: 1C

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels. Minor surface algae observed.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific









2023-10-20

#### Site: 2A

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### Action Required:

Routine maintenance next visit

#### **Target:**

Species non-specific

#### Site: 3A

#### **Comments:**

Site looks good Shoreline is well maintained.

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific

#### Site: 3B

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### Action Required:

Routine maintenance next visit

#### **Target:**

Species non-specific









#### SOLITUDE LAKE MANAGEMENT

2023-10-20

#### Site: 3C

#### **Comments:**

Normal growth observed

Shoreline is well maintained. Algae has shown improvement, continue to monitor and treat as needed.

#### Action Required:

Routine maintenance next visit

#### **Target:**

Surface algae

#### Site: 6A

#### **Comments:**

Normal growth observed

Shoreline has shown improvement since last inspection, continue to treat torpedograss and vine growth. Algae and submersed are controlled

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Shoreline weeds

#### Site: 6B

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae has improved since last visit, only minor accumulation observed.

#### **Action Required:**

Routine maintenance next visit

SOLITUDE LAKE MANAGEMENT

#### **Target:**

Species non-specific













2023-10-20

#### Site: 6C

#### **Comments:**

#### Site looks good

Shoreline is well maintained. New growth of hydrilla observed, monitor and treat as needed. Lake is lightly planktonic.

#### Action Required:

Routine maintenance next visit

#### **Target:**

Species non-specific

#### Site: 6D

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific

#### Site: 6E

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Routine maintenance next visit

SOLITUDE LAKE MANAGEMENT

#### **Target:**

Species non-specific









2023-10-20

#### Site: 6F

#### **Comments:**

Requires attention

Spot treat dog fennel and torpedograss in littorals. Algae and submersed vegetation are at controlled levels. Some plankton observed.

#### Action Required:

Routine maintenance next visit

#### **Target:**

Shoreline weeds

#### Site: 6G

#### **Comments:**

Normal growth observed

Treatment was evident, continue to spot treat in littorals. Algae and submersed vegetation are at controlled levels. Surface algae has improved since last visit.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Shoreline weeds

#### Site: 6H

#### **Comments:**

Site looks good

Site looks good. Shoreline has shown significant improvement. Algae and submersed vegetation are at controlled levels. Minimal surface algae observed.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific









#### SOLITUDE LAKE MANAGEMENT

888.480.LAKE (5253)

7

2023-10-20

#### Site: 6I

#### **Comments:**

Normal growth observed

Shoreline has shown significant improvement. Spot treat patch of cattails in thallia and grasses along hedge. Algae and submersed vegetation are

**Action Required:** 

Routine maintenance next visit

#### **Target:**

Shoreline weeds

#### Site: <sup>6J</sup>

#### **Comments:**

Requires attention

Spot treat sedge and torpedograss. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Re-inspect next visit

#### **Target:**

Shoreline weeds

#### Site: 6K

#### **Comments:**

Normal growth observed

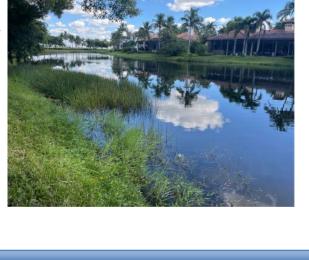
Previous treatment was evident. Spot treat patches of water sprite at the edge of the littorals. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Re-inspect next visit

#### **Target:**

Shoreline weeds









#### SOLITUDE LAKE MANAGEMENT

2023-10-20

#### Site: 6L

#### **Comments:**

Treatment in progress

Treatment for torpedograss was evident, growth along hedge needs treatment. Algae and submersed vegetation are at controlled levels.

**Action Required:** 

Re-inspect next visit

#### **Target:**

Torpedograss

## Site: 6M

#### **Comments:**

Normal growth observed

Shoreline is well maintained, treat minimal torpedograss. Algae and submersed vegetation are at controlled levels. Lake is slightly planktonic.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Torpedograss

#### Site: 6N

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels. Lake is slightly planktonic.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific













1-800-432-4302

2023-10-20

#### **Site:** 60

#### **Comments:**

Treatment in progress

Treatment for shoreline weeds was in progress. Observed significant improvement since last inspection. Algae and submersed vegetation are at controlled levels.

#### Action Required:

Re-inspect next visit

#### **Target:**

Shoreline weeds

#### Site: 6P

#### **Comments:**

Site looks good

Shoreline is well maintained. Minimal growth notes. Algae and submersed vegetation are at controlled levels. Dye was added to prevent plankton growth.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific

#### Site: 6R

#### **Comments:**

Normal growth observed

Shoreline shows improvement, continue to treat torpedograss and pennywort. Planktonic algae bloom was recently treated, continue to treat as needed.

#### **Action Required:**

Re-inspect next visit

Target: Shoreline weeds











1-800-432-4302

2023-10-20

#### Site: 5/6-1

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### Action Required:

Routine maintenance next visit

#### **Target:**

Species non-specific

## **Site:** 5/6-2

#### **Comments:**

Normal growth observed

Shoreline is well maintained. Spot treat minimal torpedograss growth. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Torpedograss

#### **Site:** 5/6-3

#### **Comments:**

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Routine maintenance next visit

#### **Target:**

Species non-specific









#### SOLITUDE LAKE MANAGEMENT

888.480.LAKE (5253)

11

#### Miromar Lakes CDD

#### Waterway Inspection Report

#### **Site:** 5/6-4

#### **Comments**:

Site looks good

Shoreline is well maintained. Algae and submersed vegetation are at controlled levels.

#### **Action Required:**

Routine maintenance next visi





#### Target:

Species non-specific

#### **Management Summary**

Observations and Action Items:

- Overall the lakes are in good condition. The golf course is well maintained and the only issues found were shoreline weed growth within the communities. Targets include: torpedograss, vines, dog fennel, water sprite, and pennywort. All sites that previously required attention were addressed and showed significant improvement during this inspection. The technician will continue to target weed growth in sites 6F and 6J.

- Lakes 6G, 6F, 6M, and 6N were slightly planktonic. However, no major blooms were observed during this inspection. The technician will continue to monitor these lakes and treat them as needed.

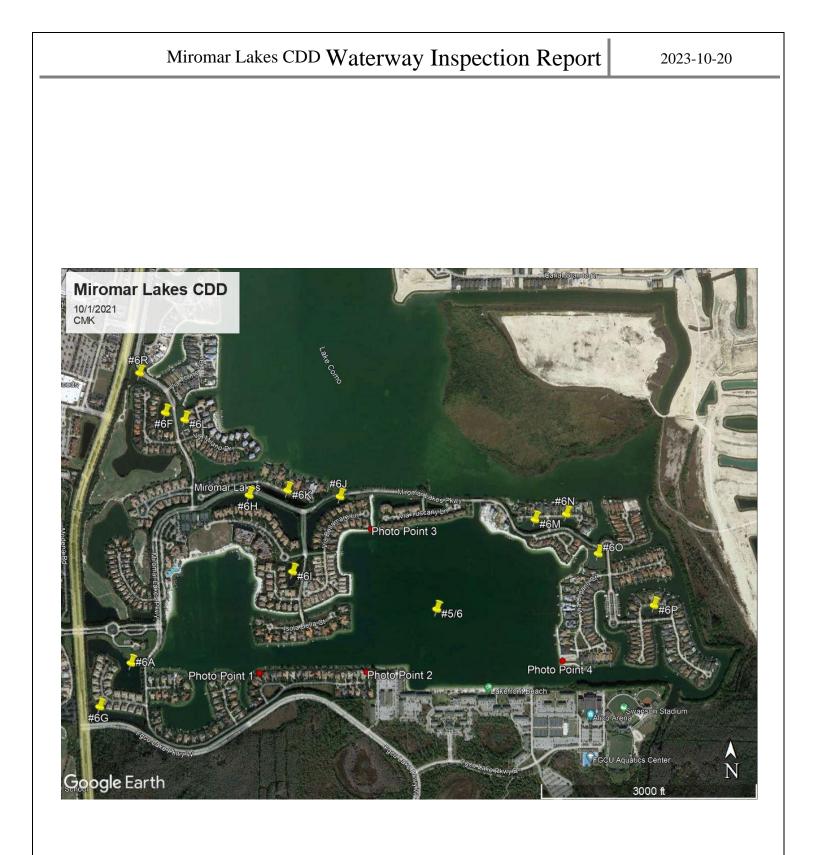
- The next quality control report will be due January 2024.

## Miromar Lakes CDD

## Waterway Inspection Report

2023-10-20

Site	Comments	Target	Action Required				
1A	Normal growth observed	Species non-specific	Re-inspect next visit				
1B	Site looks good	Species non-specific	Routine maintenance next visit				
1C	Site looks good	Species non-specific	Routine maintenance next visit				
2A	Site looks good	Species non-specific	Routine maintenance next visit				
3A	Site looks good	Species non-specific	Routine maintenance next visit				
3B	Site looks good	Species non-specific	Routine maintenance next visit				
3C	Normal growth observed	Surface algae	Routine maintenance next visit				
6A	Normal growth observed	Shoreline weeds	Routine maintenance next visit				
6B	Site looks good	Species non-specific	Routine maintenance next visit				
6C	Site looks good	Species non-specific	Routine maintenance next visit				
6D	Site looks good	Species non-specific	Routine maintenance next visit				
6E	Site looks good	Species non-specific	Routine maintenance next visit				
6F	Requires attention	Shoreline weeds	Routine maintenance next visit				
6G	Normal growth observed	Shoreline weeds	Routine maintenance next visit				
6H	Site looks good	Species non-specific	Routine maintenance next visit				
6I	Normal growth observed	Shoreline weeds	Routine maintenance next visit				
6J	Requires attention	Shoreline weeds	Re-inspect next visit				
6K	Normal growth observed	Shoreline weeds	Re-inspect next visit				
6L	Treatment in progress	Torpedograss	Re-inspect next visit				
6M	Normal growth observed	Torpedograss	Routine maintenance next visit				
6N	Site looks good	Species non-specific	Routine maintenance next visit				
60	Treatment in progress	Shoreline weeds	Re-inspect next visit				
6P	Site looks good	Species non-specific	Routine maintenance next visit				
6R	Normal growth observed	Shoreline weeds	Re-inspect next visit				
5/6-1	Site looks good	Species non-specific	Routine maintenance next visit				
5/6-2	Normal growth observed	Torpedograss	Routine maintenance next visit				
5/6-3	Site looks good	Species non-specific	Routine maintenance next visit				
5/6-4	Site looks good	Species non-specific	Routine maintenance next visit				



2023-10-20



888.480.Lake (5253)

2675 Winkler Ave, STE 180 Fort Myers, Florida 33901 USA www.ghd.com



Our ref: 11225022-11

November 15, 2023

Mr. Bruce Bernard Calvin, Giordano & Associates, Inc. 1800 Eller Drive, Suite 600 Fort Lauderdale, FL, 33316

#### Miromar Lakes Water Quality Sampling Report – August 2023

Dear Mr. Bernard,

GHD Services Inc. (GHD) is pleased to present the results of our water quality sampling services for Lakes 3 and 6 – Miromar Lakes.

## 1. Water Quality Sampling – August 2023

The August 2023 sampling event consisted of the collection of surface water samples from a total of five (5) test locations (WQL #1 through #4 and #6) from Lake 6. One (1) surface water sample has historically been taken near the outfall of Lake 3 within the Miromar Lakes Golf Club (WQL #5). However, during the time of the August 2023 sampling event, the golf course was under construction and access was not granted to the sampling location by golf course personnel. The sampling locations are depicted on **Figure 1**.

The sampling plan includes sample collection at the following locations and depths:

Sample Identification	Sampling Location	Sample Depth
WQ Location #1	Rip Rap in front of the Miromar Lakes Pkwy Bridge	18 inches
WQ Location #2	Mouth of Canal (west of Via Portofino Way)	18 inches
WQ Location #3A	Back of Weir (southeast of Via Navona Way)	18 inches
WQ Location #4	Beachfront (east of the Miromar Lakes Pkwy & Montlelago Ct.)	18 inches
WQ Location #5	Lake 3 Outfall within the Miromar Lakes Golf Club	18 inches
WQ Location #6	Front of Weir (southeast of Via Navona Way)	36 inches

Conductivity, dissolved oxygen, pH, and temperature were measured in the field with a calibrated YSI Model 556 multi-parameter water quality meter. Turbidity and total water depth were measured at the time of sample collection. Surface Water Field Sheets are attached. Field data is summarized in **Table 1**.

Samples from WQL #1 through #4 and #6 are collected using direct grab sampling methods. The sample from WQL #5 is collected using the direct-dip sampling method with an extendable dipper. The samples are capped, labeled, packed on ice, and transported to Benchmark EnviroAnalytical, Inc., in North Port, Florida. Benchmark EnviroAnalytical, Inc. is certified by the State of Florida and NELAP (National Environmental Laboratory Accreditation Conference). Laboratory analyses are conducted for 5-day biochemical oxygen demand (BOD5),

→ The Power of Commitment

total suspended solids (TSS), total nitrogen, nitrogen speciation (ammonia, total Kjeldahl nitrogen [TKN], and nitrate + nitrite), total phosphorus, ortho phosphorus (lab filtered), and chlorophyll-*a*.

All samples collected during the August 2023 sampling event were prepared and analyzed within the method required holding times. The laboratory data have been reviewed with respect to authenticity, precision, limits of detection, and accuracy of the data. The laboratory analytical results are summarized in the attached **Laboratory Analytical Reports.** 

Trend graphs have been prepared for each monitor location for laboratory analytical results and select field measurements. The trend graphs include water quality action levels for select parameters as developed and presented in the Lake Management Plan for Miromar Lakes. GHD recommends that if a single measurement exceeds an action level that the District notify their lake maintenance contractor to inspect the lake(s) for evidence of potential algal blooms and treat as needed. If a subsequent measurement exceeds an action level, it is recommended that the District investigates potential reasons behind the change and take appropriate action(s) as applicable based on the findings.

## 2. Analytical Summary

Please note that all averages below are based off of the results from WQL #1 through #4 and WQL #6, as WQL #5 was unable to be accessed during the August 2023 sampling event. It appears that between the prior sampling event in March 2023 and the recent sampling event conducted on August 7, 2023:

- BOD5 levels remained consistent and low. The BOD5 concentration at all sampling locations was below the method detection limit ([MDL], noted by an "U" following the result).
- The chlorophyll-*a* concentration slightly increased at all sampling locations. The average concentration of chlorophyll-*a* increased from 5.42 mg/m<sup>3</sup> in March 2023 to 7.29 mg/m<sup>3</sup> in August 2023. No location revealed chlorophyll-*a* results in exceedance of the action limit defined as 20 mg/m<sup>3</sup>.
- Dissolved oxygen (milligrams per liter [mg/L] and %) trends have historically varied but remain relatively consistent when compared with historical trends for August in previous years. Across all sampling locations, the average dissolved oxygen percent for the August 2023 sampling event has increased by 4.9% when compared to the previous sampling event (from 88.8 % in March to 93.7% in August).
- The average concentration of total nitrogen remained relatively consistent across all sample locations when compared to the previous sampling event (from 0.674 mg/L in March to 0.662 mg/L in August).
- The average concentration of total phosphorus remained consistent across all sample locations when compared to the previous sampling event (from 0.028 mg/L in March to 0.029 mg/L in August).
- The concentration of ortho phosphorus remained relatively consistent across all sampling locations.
- The turbidity increased at all locations (from an average of 3.0 NTU in March to 9.68 NTU in August).
- The average concentration of total suspended solids slightly increased since the previous sampling event (from 2.57 mg/L in March to 2.84 mg/L in August).
- The average conductivity decreased at all locations (from 349.8 umhos/cm in April to 319.8 umhos/cm in August).
- The average pH slightly increased from the previous sampling event (from 8.23 SU in March to 8.40 in August).
- The average temperature increased by about 7.46°C (from 25.06°C in March to 32.52°C in August).

Based on historical data, it appears the concentration of BOD tends to be elevated during April/May, especially at WQL #5. While the BOD has historically fluctuated, including detections above the action level (2 mg/L), the BOD generally does not remain above its action level for more than one monitoring event. The last action level

2

exceedance for BOD was observed in May 2020 at WQL #5. This month, the concentration of BOD at all sample locations was undetected and far below the action level. During the months of April/May, the lake maintenance contractor may need to inspect the lakes, and specifically WQL #5, more often for evidence of potential algal blooms and treat as needed.

The concentrations of chlorophyll-*a* were far below the action level of 20 milligrams per meter cubed (mg/m<sup>3</sup>) at all sampling locations. During the previous sampling event, the concentration at WQL #5 neared the action level but remained below at 19.5 mg/m<sup>3</sup>. As previously mentioned, WQL #5 was unable to be accessed for the current sampling event due to golf course construction. Chlorophyll-*a* concentrations appear to be low and stable at the locations that were able to be sampled. Previously, a cyclic trend for chlorophyll-*a* concentration was observed at WQL #5. Generally, it appears that there are relatively high chlorophyll-*a* concentrations within WQL #5 during the warmer months (March through August), and low concentrations in the colder months (September through February). Chlorophyll-*a* concentrations at WQL #5 will be closely monitored during the next sampling event to delineate and confirm the observed cyclic trend.

The dissolved oxygen remains significantly above the action level for dissolved oxygen percent (%) (a minimum of 38%). Overall, the concentration of DO has increased across sampling locations since the previous March 2023 sampling event. The only exception to this is WQL #1, where the DO content decreased. The dissolved oxygen content in WQL #3 was closely monitored due to a significant decrease during the previous sampling event. Since March, the dissolved oxygen content in WQL #3 has increased and is now consistent with the other sampling locations. GHD will continue to monitor the dissolved oxygen content in WQL #3 as it has historically fluctuated. This is most likely due to the physical location of the water quality sample, as it is taken directly behind a weir and in a location that contains moderate vegetation growth.

The dissolved oxygen readings at the monitoring locations fluctuate throughout the year as anticipated given the temperature of the water and biological activity. The dissolved oxygen concentration typically fluctuates throughout the year with apparent lows during the latter part of the year (September through December). The results from the August 2023 sampling event are consistent with historical results for August. Based on historical trends, GHD recommends the District notify their lake maintenance contractor to continue to watch for evidence of algal blooms during the September to December months.

For the August 2023 sampling event, overall, total nitrogen remained relatively consistent when compared to the previous sampling event, slightly decreasing at WQL #1 and #6, remaining relatively consistent at WQL #2 and #6, and slightly increasing at WQL #3. All locations remain well below the action level defined for total nitrogen (1.25 mg/L) and are consistent with historical results.

During the August 2023 monitoring event, the concentrations of total phosphorus slightly decreased at WQL #1, remained relatively consistent at WQL #3, #4, and #6, and slightly increased at WQL #2. The total phosphorus concentration was detected between the MDL and the practical quantitation limit ([PQL], noted by an "I" following the result) at WQL #1, #3, and #6. Total phosphorus as detected at WQL #2 with a concentration of 0.032 mg/L and at WQL #4 with a concentration of 0.036 mg/L. Results for total phosphorus are consistent with historical levels and below the action limits, defined as 0.05 mg/L.

Turbidity has fluctuated in the past. The turbidity observed across all sampling locations during the August sampling is higher than historical levels and has increased since the previous sampling event (from an average of 3.0 NTU in March to 9.68 NTU in August), but remains well under the action level, defined as 32 NTU for the parameter.

While the concentration of total suspended solids (TSS) has fluctuated, it generally remains below the action level of 8 mg/L. The results from the August 2023 sampling event revealed that the TSS concentration has

decreased at WQL #3 and #6, remained consistent at WQL #2, and increased at WQL #1 and #4. All locations remain far below the action level.

The conductivity at all monitoring locations during the August 2023 sampling event has decreased when compared to the previous sampling event. Results remain steady and consistent with historical levels for conductivity. Conductivity levels between locations remain consistent with one another. Historically, WQL #5 has a higher level of conductivity, due to its proximity to the golf course, whereas the other sampling locations are from Lake 6 in the residential development area. Therefore, the variation from WQL #5 to the other locations is expected.

The average pH across all water quality locations was calculated to be 8.40 SU, slightly higher than the previous sampling event (8.23 SU), ranging between 8.14 SU at WQL #3 to 8.55 SU at WQL #4. All sampling locations displayed an increasing trend in pH when compared to the previous sampling event except WQL #3, which displayed a decreasing trend. The pH at sampling location WQL #4 slightly exceeds the upper action limit defined as 8.5 SU. The pH across all locations has historically fluctuated and is dependent on many factors. A cyclic increasing and decreasing trend in pH is observed since the beginning of sampling records in April 2016. The lowest pHs across all locations appear to occur towards the end of the year (October to December), whereas the highest appear to occur between April and June.

A Trophic State Index calculation (defined by FAC 62-303.200 and the Water Quality Assessment for the State of Florida 305(b) Report) was used to help classify the quality of water based on each water body's chlorophyll*a*, total phosphorous, and total nitrogen concentration. A ratio of total nitrogen to total phosphorus was calculated for each water body to determine general conditions. For this sample event, the breakdown of the sample locations is below:

- Nutrient Balanced (10<TN/TP<30) WQL #1, #2, #3, #4, and #6
- Phosphorus Limited (TN/TP<10) None
- Nitrogen Limited (TN/TP>30) None

As can be seen above, all sampling locations were found to be nutrient balanced during the August 2023 sampling event.

A TSI value was calculated based on the TN/TP ratio for each location. A TSI of 0-59 is "good", a value of 60-69 is "fair", and a value of 70+ is "poor". Based on the results of this sampling event, each sampling location's calculated TSI value is:

WQL #1	WQL #2	WQL #3	WQL #4	WQL #5	WQL #6
43.24	45.40	44.87	47.64	NS	45.48

## 3. Conclusions and Recommendations

Water quality conditions from the August 2023 appear to remain relatively consistent since the previous March 2023 sampling event. Overall, increasing trends were observed in dissolved oxygen, consistent trends were observed in BOD5, total nitrogen, and total phosphorus, and increasing trends were observed in pH and chlorophyll-*a*.

The pH levels at all sampling locations continue to increase. The pH at WQL #4 slightly exceeds the defined upper action limit of 8.5 SU (8.55 SU). GHD expects the pH to decrease before the next sampling event but recommends lake maintenance to closely monitor the pH to ensure WQL #4 does not remain above the upper

action limit. Continued close monitoring of the pH at all sampling locations is recommended due to the fact that pH is a vital parameter for algal growth within freshwater bodies. Cyanobacteria (blue-green algae) prefers basic water (between a pH of 7.5 and 10 SU).

The chlorophyll-*a* concentration slightly increased at all sampling locations, however all locations sampled display concentrations far under the defined action level. During the previous sampling event, the chlorophyll-*a* concentration at WQL #5 neared the action level of 20 mg/m<sup>3</sup> (19.5 mg/m<sup>3</sup>). GHD was unable to sample WQL #5 due to construction occurring on the golf course at the time of sampling. GHD recommends that lake maintenance completes frequent visual inspections of WQL #5 to ensure no algal growth is occurring. GHD will continue to monitor the sampling locations closely, especially at WQL #5, in order to ensure levels remain under the action level and to define and confirm the cyclic pattern observed of the concentration rising during the warmer months before dropping in the colder months.

Based on these conclusions, GHD recommends continued water quality monitoring at this time. Due to the previous chlorophyll-*a* spike observed in WQL #5, GHD recommends the District notify their lake maintenance contractor to increase visual monitoring and inspect the Miromar Lakes Golf Club lakes for evidence of potential algal blooms and treat as needed.

The next tri-annual sampling event is planned for December 2023.

Please call if you have questions or need additional information. Regards,

Jessica Walm

**Jessica Walsh** Environmental Engineer

239-944-0709 Jessica.Walsh@ghd.com

Lori Coolidge Senior Geologist

813-476-9940 Lori.Coolidge@ghd.com

Encl: Attachments: Laboratory Data Compliance Memo Table Figure Trend Graphs Laboratory Analytical Reports Surface Water Field Sheets

# Attachment 1 Table 1

#### Table 1

#### Analytical Results Summary Surface Water Quality Monitoring Miromar Lakes, Fort Myers, Florida August 2023

										Au	-													
Sample Location/Sample	ID:												cation #1											
Sample Date:		04/27/16	08/03/16	10/31/16	01/31/17	05/04/17	08/02/17	12/06/17	04/26/18	08/22/18	12/11/18	04/16/19	10/24/19	02/17/20	06/03/20	10/21/20	03/03/21	08/05/21	10/26/21	02/17/22	08/22/22	11/28/22	03/27/23	08/07/23
Field Parameters	Units										1.0.7													
Total Water Depth	Feet	7.66	NS	6.1	5.83	3.5	6.2	4.89	2.90	5.7	4.95	6.83	7.2	4.2	3.9	6.5	5.4	6.0	6.0	6.0	5.0	8	8	NM
Sample Depth	Feet	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Conductivity, field	umhos/cm	408	353	387	369.3	405	413.1	348.2	407.3	354.6	312.7	387.3	348.4	369	689	300	292	358	304	304	295	337	356.9	322.3
Dissolved oxygen (DO), field	mg/L	8.03	5.91	7.53	8.13	7.95	5.91	6.95	6.89	7.39	8.54	6.49	6.1	8.02	6.05	7.07	7.51	7.0	5.74	5.74	6.12	7.43	7.70	6.25
Dissolved oxygen (DO), field	%	100.9*	79.3	89.4	88.5	101.6	79.6	83.0	87.6	98.9	96.0	80.9	78.1	94.5	77.0	87.1	90.6	93.1	72.3	72.3	83.1	90.1	93.4	87.4
pH, field	s.u.	8.44	8.19	7.92	8.13	7.97	8.23	8.08	8.37	8.24	8.31	8.13	8.36	8.26	8.29	8.57	8.82	8.10	8.32	8.50	8.64	7.77	7.95	8.36
Temperature, field	Deg C	27.08	30.8	24	19.5	28.0	31	24.3	27.7	30.6	21.1	26.6	28.1	23.44	29.1	26.6	25.0	29.91	27.4	27.4	31.5	25.3	25.2	32.6
Turbidity, field	NTU	2.41	3.44	3.55	4.64	8.16	5.05	3.02	2.90	5.53	4.39	3.32	3.71	1.66	3.63	2.42	1.58	1.87	1.82	1.82	2.93	1.48	2.94	8.4
Secchi Disk	Depth	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.80	4.20	3.90	6.0	5.4	6.0	NS	5.0	NS	NS	NS	NS
Wet Parameters	Units																							
Ammonia-N	mg/L	U	0.026 I	U	0.035	0.008 U	0.008 U	0.026 I	0.008 U	0.022 I	0.008 U	0.008 U	0.017 I	0.008 U	0.008 U	0.008 U	0.008 U	0.008 I	0.008 U	0.008 U	0.008 I	0.008 U	0.008 U	0.008 U
TAN criteria calculation	mg/L	0.24	0.29	0.67	0.66	0.48	0.27	0.52	0.26	0.27	0.45	0.42	0.26	0.42	0.28	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total kjeldahl nitrogen (TKN)	mg/L	0.626	0.878	0.911	0.968	0.611	0.580	0.629	0.551	0.565	0.632	0.619	0.588	0.632	0.591	0.05 U	0.480	0.474	0.531	0.430	0.630	0.689	0.712	0.600
Total nitrogen	mg/L	0.626	0.878	0.911	0.974	0.616	0.592	0.629	0.565	0.574	0.639	0.619	0.588	0.639	0.591	0.05 U	0.480	0.474	0.531	0.430	0.818	0.876	0.736	0.613
Nitrite/Nitrate	mg/L	U	U	U	0.006 I	0.005 I	0.012 I	0.004 U	0.014 I	0.009 I	0.007 I	0.006 U	0.006 U	0.007 I	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.188	0.187	0.024	0.013 I
Ortho phosphorus (Field Filtered)	mg/L	0.074	0.071	0.030	0.012	0.027	0.038	0.026	0.014	0.017	0.014	0.024	0.026	0.028	0.051	0.0126	0.024	0.011	0.014	0.003 I	0.018	0.007 I	0.023	0.012
Total phosphorus	mg/L	0.087	0.091	0.068	0.038	0.027 I	0.041	0.121	0.017 I	0.018 I	0.026 I	0.034	0.063	0.035	0.053	0.011 I	0.059	0.022	0.030 I	0.017 I	0.017 I	0.018 I	0.031 I	0.024 I
Chlorophyll	mg/m3	5.91	7.32	7.86	11.1	8.42	9.27	5.25	10.1	10.1	6.92	3.72	7.81	3.71	3.96	5.76	3.55	7.44	7.06	3.36	8.28	17.3	4.68	6.40
Total suspended solids (TSS)	mg/L	2.35	3.49	4.80	7.00	7.80	6.15	3.67	3.67	4.00	4.20	1.20 I	2.20 I	3.50	3.20	2.40	2.00 I	2.80	0.667 I	2.50	2.20	3.90	2.35	3.44
Biochemical oxygen demand (total		0 700 1	U	U	4.001	4 40 1	4.05.1	4.0.11	4.401	0.701	4.05.1	4.041	4 00 1	4.0.11	4.0.11	4.0.11	4.0.11	4.0.11	4.0.11	4.0.11	4.0.11	4.0.11	4.0.11	4.0.11
BOD5)	mg/L	0.706 I	U	U	1.06 I	1.40 I	1.05 I	1.0 U	1.16 I	2.72 I	1.85 I	1.24 I	1.03 I	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Sample Location/Sample	ID:											WQ Lo	cation #2	/ WQL2										
Sample Date:		04/27/16	08/03/16	10/31/16	01/31/17	05/04/17	08/02/17	12/06/17	04/26/18	08/22/18	12/11/18	04/16/19	10/24/19	02/17/20	06/03/20	10/21/20	03/03/21	08/05/21	10/26/21	02/17/22	08/22/22	11/28/22	03/27/23	08/07/23
Field Parameters	Units																							
Total Water Depth	Feet	7.43	NS	9.2	8.56	6	6.2	8.01	6.00	10.2	8.65	8.31	10.4	7.8	6.35	9.0	8.8	10.25	7.5	8.5	6.0	15	11	NM
Sample Depth	Feet	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Conductivity, field	umhos/cm	422	359	384	385.7	414	435.0	638.9	417.0	363.7	321.2	411.8	346.4	373	701	300	303	346	305	322	293	339	359.5	314.8
Dissolved oxygen (DO), field	mg/L	7.67	5.55	7.12	8.05	7.87	6.21	6.58	6.95	7.52	9.90	6.88	6.27	8.12	5.86	4.64	7.04	7.09	8.64	8.18	7.63	7.36	6.88	7.0
Dissolved oxygen (DO), field	%	97.4	74.0	84.7	87.6	101.8	82.9	77.7	88.0	100.2	110.0	85.9	81.0	96.2	77.2	51.1	86.9	93.7	99.9	90.4	99.2	89.6	89.4	100
pH, field	s.u.	8.37	8.07	7.68	7.97	8.21	8.11	7.89	8.31	8.03	8.06	8.25	8.27	8.49	8.31	8.26	8.72	8.0	8.22	8.44	8.56	7.97	8.26	8.41
Temperature, field	Deg C	27.62	30.4	24.1	19.5	28.7	30.5	23.7	27.5	30.4	20.5	26.7	28.5	23.9	30.1	27.1	25.5	29.87	27.4	20.2	31.6	25.6	25.3	32.7
,	9	-							<b></b>											-		1.13	3.14	8.2
LUPDIDITY TIEID	NIU	3 97	31 71	4 38		7 15	3 12	3 20	8 22	3 75	5 76	3 37	3 55	2 18	3 4 9	240	.341	/44	/ 13	2.07	290			-
Turbidity, field Secchi Disk	NTU Depth	3.97 NS	31.71 NS	4.38 NS	4.66	7.15 NS	3.12 NS	3.20 NS	8.22 NS	3.75 NS	5.76 NS	3.37 NS	3.55 5.30	2.18 NS	3.49 5.5	2.40	3.41	2.44	2.13 NS	2.07	2.90 NS		NS	NS
Secchi Disk	Depth	3.97 NS	31.71 NS	4.38 NS		7.15 NS	3.12 NS	3.20 NS	8.22 NS	3.75 NS	5.76 NS	3.37 NS	3.55 5.30	2.18 NS	3.49 5.5	2.40 6.5	7.0	7.0	2.13 NS	2.07 7.0	2.90 NS	NS	NS	NS
	Depth Units	NS	NS		4.66 NS	NS	NS	NS	NS	NS	NS	NS	5.30	NS	5.5	6.5	7.0	7.0	NS	7.0	NS	NS		
Secchi Disk Wet Parameters Ammonia-N	Depth Units mg/L	NS U	NS 0.019 I	NS U	4.66 NS 0.071	NS 0.008 U	NS 0.008 U	NS 0.036	NS 0.008 U	NS 0.008 U	NS 0.008 U	NS 0.027	5.30 0.008 U	NS 0.008 U	5.5 0.008 U	6.5 0.009 I	7.0 0.008 U	7.0 0.017 l	NS 0.008 U	7.0 0.008 U	NS 0.008 U		0.008 U	0.008 U
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation	Depth Units mg/L mg/L	NS U 0.26	NS 0.019 I 0.36	NS U 0.90	4.66 NS 0.071 0.84	NS 0.008 U 0.32	NS 0.008 U 0.34	NS 0.036 0.71	NS 0.008 U 0.30	NS 0.008 U 0.38	NS 0.008 U 0.69	NS 0.027 0.34	5.30 0.008 U 0.30	NS 0.008 U 0.28	5.5 0.008 U 0.25	6.5 0.009 I NS	7.0 0.008 U NS	7.0 0.017 I NS	NS 0.008 U NS	7.0 0.008 U NS	NS 0.008 U NS	NS 0.008 U NA	0.008 U NS	0.008 U NS
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN)	Depth Units mg/L mg/L mg/L	NS U 0.26 0.745	NS 0.019 I 0.36 1.15	NS U 0.90 0.888	4.66 NS 0.071 0.84 1.04	NS 0.008 U 0.32 0.507	NS 0.008 U 0.34 0.641	NS 0.036 0.71 0.710	NS 0.008 U 0.30 0.675	NS 0.008 U 0.38 0.613	NS 0.008 U 0.69 0.693	NS 0.027 0.34 0.606	5.30 0.008 U 0.30 0.605	NS 0.008 U 0.28 0.403	5.5 0.008 U 0.25 0.556	6.5 0.009 I NS 0.500	7.0 0.008 U NS 0.450	7.0 0.017 I NS 0.469	NS 0.008 U NS 0.542	7.0 0.008 U NS 0.538	NS 0.008 U NS 0.635	NS 0.008 U NA 0.704	0.008 U NS 0.610	0.008 U NS 0.632
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen	Depth Units mg/L mg/L mg/L mg/L	NS U 0.26 0.745 0.745	NS 0.019 I 0.36 1.15 1.15	NS U 0.90 0.888 0.900	4.66 NS 0.071 0.84 1.04 1.04	NS 0.008 U 0.32 0.507 0.514	NS 0.008 U 0.34 0.641 0.645	NS 0.036 0.71 0.710 0.710	NS 0.008 U 0.30 0.675 0.690	NS 0.008 U 0.38 0.613 0.618	NS 0.008 U 0.69 0.693 0.698	NS 0.027 0.34 0.606 0.606	5.30 0.008 U 0.30 0.605 0.605	NS 0.008 U 0.28 0.403 0.403	5.5 0.008 U 0.25 0.556 0.556	6.5 0.009 I NS 0.500 0.500	7.0 0.008 U NS 0.450 0.450	7.0 0.017 I NS 0.469 0.469	NS 0.008 U NS 0.542 0.542	7.0 0.008 U NS 0.538 0.538	NS 0.008 U NS 0.635 0.806	NS 0.008 U NA 0.704 0.717	0.008 U NS 0.610 0.632	0.008 U NS 0.632 0.643
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate	Depth Units mg/L mg/L mg/L mg/L mg/L	NS U 0.26 0.745 0.745 U	NS 0.019 I 0.36 1.15 1.15 U	NS U 0.90 0.888 0.900 0.012 I	4.66 NS 0.071 0.84 1.04 1.04 U	NS 0.008 U 0.32 0.507 0.514 0.007 I	NS 0.008 U 0.34 0.641 0.645 0.004 I	NS 0.036 0.71 0.710 0.710 0.004 U	NS 0.008 U 0.30 0.675 0.690 0.015 I	NS 0.008 U 0.38 0.613 0.618 0.005 I	NS 0.008 U 0.69 0.693 0.698 0.006 I	NS 0.027 0.34 0.606 0.606 0.006 U	5.30 0.008 U 0.30 0.605 0.605 0.006 U	NS 0.008 U 0.28 0.403 0.403 0.006 U	5.5 0.008 U 0.25 0.556 0.006 U	6.5 0.009 I NS 0.500 0.500 0.006 U	7.0 0.008 U NS 0.450 0.450 0.006 U	7.0 0.017 I NS 0.469 0.469 0.006 U	NS 0.008 U NS 0.542 0.542 0.006 U	7.0 0.008 U NS 0.538 0.538 0.006 U	NS 0.008 U NS 0.635 0.806 0.171	NS 0.008 U NA 0.704 0.717 0.013 I	0.008 U NS 0.610 0.632 0.022 I	0.008 U NS 0.632 0.643 0.011 I
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered)	Depth Units mg/L mg/L mg/L mg/L mg/L mg/L	NS U 0.26 0.745 0.745 U 0.077	NS 0.019 I 0.36 1.15 1.15 U 0.070	NS U 0.90 0.888 0.900 0.012 I 0.064	4.66 NS 0.071 0.84 1.04 1.04 U 0.015	NS 0.008 U 0.32 0.507 0.514 0.007 I 0.028	NS 0.008 U 0.34 0.641 0.645 0.004 I 0.050	NS 0.036 0.71 0.710 0.710 0.004 U 0.025	NS 0.008 U 0.30 0.675 0.690 0.015 I 0.015	NS 0.008 U 0.38 0.613 0.618 0.005 I 0.020	NS 0.008 U 0.69 0.693 0.698 0.006 I 0.008	NS 0.027 0.34 0.606 0.606 0.006 U 0.002 U	5.30 0.008 U 0.30 0.605 0.605 0.006 U 0.055	NS 0.008 U 0.28 0.403 0.403 0.006 U 0.035	5.5 0.008 U 0.25 0.556 0.556 0.006 U 0.053	6.5 0.009 I NS 0.500 0.500 0.006 U 0.0288	7.0 0.008 U NS 0.450 0.450 0.006 U 0.026	7.0 0.017 I NS 0.469 0.469 0.006 U 0.016	NS 0.008 U NS 0.542 0.542 0.006 U 0.015	7.0 0.008 U NS 0.538 0.538 0.006 U 0.010	NS 0.008 U NS 0.635 0.806 0.171 0.010	NS 0.008 U NA 0.704 0.717 0.013 I 0.005 I	0.008 U NS 0.610 0.632 0.022 I 0.016	0.008 U NS 0.632 0.643 0.011 I 0.026
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered) Total phosphorus	Depth Units mg/L mg/L mg/L mg/L mg/L mg/L	NS U 0.26 0.745 0.745 U 0.077 0.079	NS 0.019 I 0.36 1.15 1.15 U 0.070 0.087	NS U 0.90 0.888 0.900 0.012 I 0.064 0.066	4.66 NS 0.071 0.84 1.04 1.04 U 0.015 0.0311	NS 0.008 U 0.32 0.507 0.514 0.007 I 0.028 0.054	NS 0.008 U 0.34 0.641 0.645 0.004 I 0.050 0.065	NS 0.036 0.71 0.710 0.710 0.004 U 0.025 0.042	NS 0.008 U 0.30 0.675 0.690 0.015 I 0.015 0.023 I	NS 0.008 U 0.38 0.613 0.618 0.005 I 0.020 0.008 U	NS 0.008 U 0.69 0.693 0.698 0.006 I 0.008 0.009 I	NS 0.027 0.34 0.606 0.606 0.006 U 0.002 U 0.008 U	5.30 0.008 U 0.30 0.605 0.605 0.006 U 0.055 0.073	NS 0.008 U 0.28 0.403 0.403 0.006 U 0.035 0.069	5.5 0.008 U 0.25 0.556 0.556 0.006 U 0.053 0.062	6.5 0.009 I NS 0.500 0.500 0.006 U 0.0288 0.012 I	7.0 0.008 U NS 0.450 0.450 0.006 U 0.026 0.032	7.0 0.017 I NS 0.469 0.469 0.006 U 0.016 0.017 I	NS 0.008 U NS 0.542 0.542 0.006 U 0.015 0.036	7.0 0.008 U NS 0.538 0.538 0.006 U 0.010 0.020 I	NS 0.008 U NS 0.635 0.806 0.171 0.010 0.021 I	NS 0.008 U NA 0.704 0.717 0.013 I 0.005 I 0.031 I	0.008 U NS 0.610 0.632 0.022 I 0.016 0.028 I	0.008 U NS 0.632 0.643 0.011 I 0.026 0.032
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered) Total phosphorus Chlorophyll	Depth Units mg/L mg/L mg/L mg/L mg/L mg/L mg/M3	NS U 0.26 0.745 0.745 U 0.077 0.079 6.59	NS 0.0191 0.36 1.15 1.15 U 0.070 0.087 7.28	NS U 0.90 0.888 0.900 0.0121 0.064 0.066 8.08	4.66 NS 0.071 0.84 1.04 1.04 U 0.015 0.0311 11.7	NS 0.008 U 0.32 0.507 0.514 0.007 I 0.028 0.054 7.76	NS 0.008 U 0.34 0.641 0.645 0.004 I 0.050 0.065 7.13	NS 0.036 0.71 0.710 0.710 0.004 U 0.025 0.042 5.42	NS 0.008 U 0.30 0.675 0.690 0.015 I 0.015 0.023 I 8.35	NS 0.008 U 0.38 0.613 0.618 0.005 I 0.020 0.008 U 9.06	NS 0.008 U 0.69 0.693 0.698 0.006 I 0.008 0.009 I 8.80	NS 0.027 0.34 0.606 0.606 0.006 U 0.002 U 0.002 U 0.008 U 5.28	5.30 0.008 U 0.30 0.605 0.605 0.006 U 0.055 0.073 9.11	NS 0.008 U 0.28 0.403 0.403 0.006 U 0.035 0.069 4.34	5.5 0.008 U 0.25 0.556 0.006 U 0.053 0.062 5.11	6.5 0.009 I NS 0.500 0.500 0.006 U 0.0288 0.012 I 6.13	7.0 0.008 U NS 0.450 0.450 0.006 U 0.026 0.032 2.04	7.0 0.017 I NS 0.469 0.469 0.006 U 0.016 0.017 I 5.95	NS 0.008 U NS 0.542 0.006 U 0.015 0.036 7.37	7.0 0.008 U NS 0.538 0.538 0.006 U 0.010 0.020 I 3.72	NS 0.008 U NS 0.635 0.806 0.171 0.010 0.021 I 11.6	NS 0.008 U NA 0.704 0.717 0.013 I 0.005 I 0.031 I 17.7	0.008 U NS 0.610 0.632 0.022 I 0.016 0.028 I 5.26	0.008 U NS 0.632 0.643 0.011 I 0.026 0.032 6.95
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered) Total phosphorus Chlorophyll Total suspended solids (TSS)	Depth Units mg/L mg/L mg/L mg/L mg/L mg/L	NS U 0.26 0.745 0.745 U 0.077 0.079 6.59 4.21	NS 0.019 I 0.36 1.15 1.15 U 0.070 0.087 7.28 3.90	NS U 0.90 0.888 0.900 0.012 I 0.064 0.066 8.08 4.60	4.66 NS 0.071 0.84 1.04 1.04 U 0.015 0.0311 11.7 7.20	NS 0.008 U 0.32 0.507 0.514 0.007 I 0.028 0.054	NS 0.008 U 0.34 0.641 0.645 0.004 I 0.050 0.065 7.13 2.60	NS 0.036 0.71 0.710 0.710 0.004 U 0.025 0.042 5.42 3.60	NS 0.008 U 0.30 0.675 0.690 0.015 I 0.015 0.023 I	NS 0.008 U 0.38 0.613 0.618 0.005 I 0.020 0.008 U 9.06 1.00 I	NS 0.008 U 0.69 0.693 0.698 0.006 I 0.008 0.009 I	NS 0.027 0.34 0.606 0.606 0.006 U 0.002 U 0.008 U	5.30 0.008 U 0.30 0.605 0.605 0.006 U 0.055 0.073 9.11 2.40	NS 0.008 U 0.28 0.403 0.403 0.006 U 0.035 0.069	5.5 0.008 U 0.25 0.556 0.556 0.006 U 0.053 0.062	6.5 0.009 I NS 0.500 0.500 0.006 U 0.0288 0.012 I 6.13 2.40	7.0 0.008 U NS 0.450 0.450 0.006 U 0.026 0.032	7.0 0.017 I NS 0.469 0.469 0.006 U 0.016 0.017 I	NS 0.008 U NS 0.542 0.006 U 0.015 0.036 7.37 2.00 I	7.0 0.008 U NS 0.538 0.538 0.006 U 0.010 0.020 I	NS 0.008 U NS 0.635 0.806 0.171 0.010 0.021 I 11.6 2.00 I	NS 0.008 U NA 0.704 0.717 0.013 I 0.005 I 0.031 I 17.7 4.50	0.008 U NS 0.610 0.632 0.022 I 0.016 0.028 I	0.008 U NS 0.632 0.643 0.011 I 0.026 0.032
Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered) Total phosphorus Chlorophyll	Depth Units mg/L mg/L mg/L mg/L mg/L mg/L mg/M3	NS U 0.26 0.745 0.745 U 0.077 0.079 6.59	NS 0.0191 0.36 1.15 1.15 U 0.070 0.087 7.28	NS U 0.90 0.888 0.900 0.0121 0.064 0.066 8.08	4.66 NS 0.071 0.84 1.04 1.04 U 0.015 0.0311 11.7	NS 0.008 U 0.32 0.507 0.514 0.007 I 0.028 0.054 7.76	NS 0.008 U 0.34 0.641 0.645 0.004 I 0.050 0.065 7.13	NS 0.036 0.71 0.710 0.710 0.004 U 0.025 0.042 5.42	NS 0.008 U 0.30 0.675 0.690 0.015 I 0.015 0.023 I 8.35	NS 0.008 U 0.38 0.613 0.618 0.005 I 0.020 0.008 U 9.06	NS 0.008 U 0.69 0.693 0.698 0.006 I 0.008 0.009 I 8.80	NS 0.027 0.34 0.606 0.606 0.006 U 0.002 U 0.002 U 0.008 U 5.28	5.30 0.008 U 0.30 0.605 0.605 0.006 U 0.055 0.073 9.11	NS 0.008 U 0.28 0.403 0.403 0.006 U 0.035 0.069 4.34	5.5 0.008 U 0.25 0.556 0.006 U 0.053 0.062 5.11	6.5 0.009 I NS 0.500 0.500 0.006 U 0.0288 0.012 I 6.13	7.0 0.008 U NS 0.450 0.450 0.006 U 0.026 0.032 2.04	7.0 0.017 I NS 0.469 0.469 0.006 U 0.016 0.017 I 5.95	NS 0.008 U NS 0.542 0.006 U 0.015 0.036 7.37	7.0 0.008 U NS 0.538 0.538 0.006 U 0.010 0.020 I 3.72	NS 0.008 U NS 0.635 0.806 0.171 0.010 0.021 I 11.6	NS 0.008 U NA 0.704 0.717 0.013 I 0.005 I 0.031 I 17.7	0.008 U NS 0.610 0.632 0.022 I 0.016 0.028 I 5.26	0.008 U NS 0.632 0.643 0.011 I 0.026 0.032 6.95

#### Table 1

#### Analytical Results Summary Surface Water Quality Monitoring Miromar Lakes, Fort Myers, Florida August 2023

Sample Location/Sample	יחו											WOLoc	ation #3A											
Sample Date:	. UI.	04/27/16	08/03/16	10/31/16	01/31/17	05/04/17	08/02/17	12/06/17	04/26/18	08/22/18	12/11/18	04/16/19	10/24/19		06/03/20	10/21/20	03/03/21	08/05/21	10/26/21	02/17/22	08/22/22	11/28/22	03/27/23	08/07/23
Field Parameters	Units	04/2//10	00/03/10	10/31/10	01/31/17	05/04/17	06/02/17	12/00/17	04/20/10	00/22/10	12/11/10	04/10/19	10/24/19	02/17/20	00/03/20	10/21/20	03/03/21	00/05/21	10/20/21	02/11/22	00/22/22	11/20/22	03/21/23	00/07/23
Total Water Depth	Feet	3.78	3.64	3.52	2.81	1.5	4.6	3.35	3.2	3.6	5.87	2.95	4.5	3	1.5	4.0	3.0	3.33	3.75	2.0	3.33	4	2	NM
Sample Depth	Feet	1.5	1.5	1.5	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.5	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Conductivity, field	umhos/cm	406	329	255	375.7	430	200.4	339	418.9	365.1	323	391.9	373.2	381	690	293	297	363	313	321	296	330	344.4	331.5
Dissolved oxygen (DO), field	mg/L	7.31	4.78	2.93	7.40	14.02	1.38	6.49	6.16	7.33	8.44	5.82	2.05	5.77	6.49	6.41	5.62	3.15	8.43	6.70	6.88	8.25	5.53	6.25
Dissolved oxygen (DO), field	111g/L %	91.8	62.9	34.3	81.5	14.02	17.42	76.4	78.2	97.9	94.3	72.7	2.05	68.5	85.4	80.5	70.2	39.0	98.9	73.5	93.2	96.4	68.2	87.2
pH. field		8.44	8.0	6.99	7.96	9.32	6.91	7.97	8.15	8.13	7.53	8.21	7.34	7.93	8.44	8.38	8.49	7.16	7.97	8.49	93.2 8.57	8.07	8.24	8.14
Temperature, field	s.u. Deg C	27.0	29.7	23.2	20.1	33.7	27.3	23.5	27.6	30.5	20.8	26.7	26.8	23.77	29.3	27.0	25.4	26.24	27.6	19.7	31.3	25.8	25.5	32.7
Turbidity, field	NTU	7.64	78.77	3.48	5.42	86.9	2.99	3.05	3.94	3.63	4.20	2.20	20.0	1.31	3.49	27.0	4.13	1.77	27.0	2.17	2.11	1.32	2.45	9.6
Turblaity, neia	NIO		-		-						-	-	Lake	Lake	Lake				-				-	
Secchi Disk	Depth	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Bottom	Bottom	Bottom	4.0	3.0	3.33	NS	2.0	NS	NS	NS	NS
Wet Parameters	Units																							
Ammonia-N	mg/L	U	0.029 I	0.044	0.027 I	0.008 U	0.008 U	0.009 I	U	0.023 I	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.009 I	0.008 U	0.035	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U
TAN criteria calculation	mg/L	0.25	0.42	1.54	0.82	0.04	1.22	0.65	0.38	0.32	1.29	0.37	1.02	0.67	0.21	NS	NS	NS	NS	NS	NS	NA	NS	NS
Total kjeldahl nitrogen (TKN)	mg/L	0.581	0.949	1.11	1.06	3.73	0.642	0.634	0.645	0.621	0.949	0.598	0.635	0.451	0.510	0.216	0.526	0.546	0.565	0.607	0.809	0.694	0.558	0.644
Total nitrogen	mg/L	0.581	0.949	1.13	1.06	3.73	0.650	0.634	0.658	0.626	0.954	0.598	0.635	0.451	0.510	0.216	0.526	0.546	0.565	0.607	0.982	0.710	0.570	0.659
Nitrite/Nitrate	mg/L	U	U	0.021	U	0.008 I	0.008 I	0.004 U	0.013 I	0.005 I	0.006 I	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.173	0.016 I	0.012 I	0.015 I
Ortho phosphorus (Field Filtered)	mg/L	0.073	0.012	0.051	0.012	0.018	0.029	0.031	0.016	0.020	0.025	0.014	0.060	0.043	0.048	0.0199	0.030	0.017	0.012	0.009	0.017	0.013	0.024	0.017
Total phosphorus	mg/L	0.088	0.026 I	0.052	0.033	0.090	0.039	0.048	0.024 I	0.008 U	0.019 I	0.018 I	0.066	0.069	0.064	0.012 I	0.046	0.021 I	0.017 I	0.022 I	0.020 I	0.013 I	0.025 I	0.024 I
Chlorophyll	mg/m3	5.76	8.71	10.1	10.4	249	10.1	4.83	7.85	10.6	8.15	4.60	7.88	3.79	5.10	5.52	4.00	7.06	7.99	4.09	9.16	15.4	6.22	7.66
Total suspended solids (TSS)	mg/L	7.06	6.42	5.11	7.20	95.0	3.80	4.00	3.60	6.00	4.33	2.60	2.40	1.50 I	4.80	2.40	4.20	2.00 I	3	1.75 I	1.67 I	5.00	3.27	2.08 I
Biochemical oxygen demand (total BOD5)	mg/L	U	U	U	1.111	10.6	1.39 I	1.0 U	1.12	1.66 I	1.191	2.32	1.27	1.0 U	1.0 U	1.0 U	1.30	1.32 I	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
										1.001	1.101	2.02.	1.21						1.0 0					
										1.001	1.101	2.021							1.0 0					
Sample Location/Sample	D:		•				ation #3B /	/ WQL3B				_					Ň	/Q Locatio	n #6 / WQI	_6				
Sample Date:	e ID:	04/27/16	08/03/16	10/31/16	01/31/17	WQ Loc 05/04/17	ation #3B / 08/02/17		04/26/18	08/22/18	12/11/18	04/16/19	10/24/19	02/17/20	06/03/20						08/22/22	11/28/22	03/27/23	08/07/23
Sample Date: Field Parameters	Units		08/03/16			05/04/17	08/02/17	/ WQL3B 12/06/17	04/26/18	08/22/18	12/11/18	04/16/19	10/24/19	02/17/20	06/03/20	10/21/20	W 03/03/21	/Q Locatio 08/05/21	n #6 / WQI 10/26/21	_6 02/17/22				
Sample Date: Field Parameters Total Water Depth	Units Feet	3.78	4	3.52	2.98	<b>05/04/17</b> 2	<b>08/02/17</b> 4.6	/ WQL3B 12/06/17 6.94	<b>04/26/18</b> 3.2	<b>08/22/18</b> 3.6	<b>12/11/18</b> 5.87	<b>04/16/19</b> 3.50	<b>10/24/19</b> 12.5	<b>02/17/20</b> 17.6	<b>06/03/20</b> 15.5	<b>10/21/20</b> 10.5	<b>W</b> 03/03/21 14.4	/Q Locatio 08/05/21 12.3	n #6 / WQI 10/26/21 10.5	<b>-6</b> <b>02/17/22</b> 14.0	5.5	19	13	NM
Sample Date: Field Parameters	Units	3.78 3	4 3	3.52 3	2.98 2.5	05/04/17 2 1.5	08/02/17 4.6 3	/ WQL3B 12/06/17 6.94 3.0	04/26/18 3.2 NS	08/22/18 3.6 3	<b>12/11/18</b> 5.87 3	<b>04/16/19</b> 3.50 3	<b>10/24/19</b> 12.5 3	02/17/20 17.6 3	<b>06/03/20</b> 15.5 3	<b>10/21/20</b> 10.5 1.5	03/03/21 14.4 3	/Q Locatio 08/05/21 12.3 3	n #6 / WQI 10/26/21 10.5 3.0	<b>6</b> 02/17/22 14.0 1.5	5.5 1.5	19 1.5	13 1.5	NM 1.5
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field	Units Feet	3.78 3 405	4 3 341	3.52 3 369	2.98 2.5 313.1	05/04/17 2 1.5 406	08/02/17 4.6 3 384.1	/ WQL3B 12/06/17 6.94 3.0 338.6	04/26/18 3.2 NS NS	08/22/18 3.6 3 354.5	<b>12/11/18</b> 5.87 3 322.4	<b>04/16/19</b> 3.50 3 391.3	<b>10/24/19</b> 12.5 3 340.8	02/17/20 17.6 3 362	<b>06/03/20</b> 15.5 3 688	<b>10/21/20</b> 10.5 1.5 290	<b>W</b> 03/03/21 14.4 3 295	/Q Locatio 08/05/21 12.3 3 365	n #6 / WQI 10/26/21 10.5 3.0 305	-6 02/17/22 14.0 1.5 319	5.5 1.5 294	19 1.5 324	13 1.5 346.1	NM 1.5 318.4
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field	Units Feet Feet umhos/cm mg/L	3.78 3 405 7.32	4 3 341 6.22	3.52 3 369 6.82	2.98 2.5 313.1 6.58	05/04/17 2 1.5 406 8.46	<b>08/02/17</b> 4.6 3 384.1 5.59	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87	04/26/18 3.2 NS NS NS	<b>08/22/18</b> 3.6 3 354.5 7.39	<b>12/11/18</b> 5.87 3 322.4 6.32	<b>04/16/19</b> 3.50 3 391.3 5.7	<b>10/24/19</b> 12.5 3 340.8 5.63	<b>02/17/20</b> 17.6 3 362 8.44	<b>06/03/20</b> 15.5 3 688 6.49	<b>10/21/20</b> 10.5 1.5 290 6.66	<b>W</b> 03/03/21 14.4 3 295 7.43	/Q Locatio 08/05/21 12.3 3 365 6.82	n #6 / WQI 10/26/21 10.5 3.0 305 8.25	<b>6</b> <b>02/17/22</b> 14.0 1.5 319 8.40	5.5 1.5 294 7.52	19 1.5 324 7.88	13 1.5 346.1 7.79	NM 1.5 318.4 7.05
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field	Units Feet Feet umhos/cm mg/L %	3.78 3 405 7.32 91.1	4 3 341 6.22 82.8	3.52 3 369 6.82 81.2	2.98 2.5 313.1 6.58 67.9	05/04/17 2 1.5 406 8.46 109.3	08/02/17 4.6 3 384.1 5.59 74.0	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8	04/26/18 3.2 NS NS NS NS	<b>08/22/18</b> 3.6 3 354.5 7.39 98.8	<b>12/11/18</b> 5.87 3 322.4 6.32 70.6	<b>04/16/19</b> 3.50 3 391.3 5.7 71.2	<b>10/24/19</b> 12.5 3 340.8 5.63 72.4	<b>02/17/20</b> 17.6 3 362 8.44 99.2	<b>06/03/20</b> 15.5 3 688 6.49 85.7	<b>10/21/20</b> 10.5 1.5 290 6.66 83.4	<b>03/03/21</b> 14.4 3 295 7.43 90.4	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4	<b>-6</b> <b>02/17/22</b> 14.0 1.5 319 8.40 90.8	5.5 1.5 294 7.52 99.8	19 1.5 324 7.88 96.1	13 1.5 346.1 7.79 94.4	NM 1.5 318.4 7.05 99.3
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field	Units Feet Feet umhos/cm mg/L % s.u.	3.78 3 405 7.32 91.1 8.46	4 3 341 6.22 82.8 8.14	3.52 3 369 6.82 81.2 7.68	2.98 2.5 313.1 6.58 67.9 7.77	05/04/17 2 1.5 406 8.46 109.3 8.12	<b>08/02/17</b> 4.6 3 384.1 5.59 74.0 8.10	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00	04/26/18 3.2 NS NS NS NS NS NS	<b>08/22/18</b> 3.6 3 354.5 7.39 98.8 8.18	<b>12/11/18</b> 5.87 3 322.4 6.32 70.6 8.08	<b>04/16/19</b> 3.50 3 391.3 5.7 71.2 8.22	<b>10/24/19</b> 12.5 3 340.8 5.63 72.4 8.16	02/17/20 17.6 3 362 8.44 99.2 8.5	<b>06/03/20</b> 15.5 3 688 6.49 85.7 8.51	<b>10/21/20</b> 10.5 1.5 290 6.66 83.4 8.63	<b>03/03/21</b> 14.4 3 295 7.43 90.4 8.74	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25	<b>-6</b> <b>02/17/22</b> 14.0 1.5 319 8.40 90.8 8.48	5.5 1.5 294 7.52 99.8 8.76	19 1.5 324 7.88 96.1 8.12	13 1.5 346.1 7.79 94.4 8.26	NM 1.5 318.4 7.05 99.3 8.52
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field	Units Feet Feet umhos/cm mg/L % s.u. Deg C	3.78 3 405 7.32 91.1 8.46 26.55	4 3 341 6.22 82.8 8.14 30.3	3.52 3 369 6.82 81.2 7.68 24.1	2.98 2.5 313.1 6.58 67.9 7.77 16.9	<b>05/04/17</b> 2 1.5 406 8.46 109.3 8.12 28.6	<b>08/02/17</b> 4.6 3 384.1 5.59 74.0 8.10 30.0	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3	04/26/18 3.2 NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8	04/16/19 3.50 391.3 5.7 71.2 8.22 26.7	<b>10/24/19</b> 12.5 3 340.8 5.63 72.4 8.16 28.3	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4	<b>10/21/20</b> 10.5 1.5 290 6.66 83.4 8.63 29.3	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2	/Q Locatio 08/05/21 12.3 365 6.82 90.3 7.59 30.07	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 85.4 8.25 27.6	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6	5.5 1.5 294 7.52 99.8 8.76 31.4	19 1.5 324 7.88 96.1 8.12 25.5	13 1.5 346.1 7.79 94.4 8.26 25.1	NM 1.5 318.4 7.05 99.3 8.52 32.4
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field	Units Feet umhos/cm mg/L % s.u. Deg C NTU	3.78 3 405 7.32 91.1 8.46 26.55 7.98	4 3 341 6.22 82.8 8.14 30.3 10.03	3.52 3 369 6.82 81.2 7.68 24.1 3.15	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38	<b>05/04/17</b> 2 1.5 406 8.46 109.3 8.12 28.6 3.93	<b>08/02/17</b> 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84	04/26/18 3.2 NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26	12/11/18 5.87 322.4 6.32 70.6 8.08 20.8 7.10	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83	<b>10/21/20</b> 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13	<b>V</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 85.4 8.25 27.6 1.79	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89	19 1.5 324 7.88 96.1 8.12 25.5 1.38	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Depth	3.78 3 405 7.32 91.1 8.46 26.55	4 3 341 6.22 82.8 8.14 30.3	3.52 3 369 6.82 81.2 7.68 24.1	2.98 2.5 313.1 6.58 67.9 7.77 16.9	<b>05/04/17</b> 2 1.5 406 8.46 109.3 8.12 28.6	<b>08/02/17</b> 4.6 3 384.1 5.59 74.0 8.10 30.0	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3	04/26/18 3.2 NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8	04/16/19 3.50 391.3 5.7 71.2 8.22 26.7	<b>10/24/19</b> 12.5 3 340.8 5.63 72.4 8.16 28.3	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4	<b>10/21/20</b> 10.5 1.5 290 6.66 83.4 8.63 29.3	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2	/Q Locatio 08/05/21 12.3 365 6.82 90.3 7.59 30.07	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 85.4 8.25 27.6	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6	5.5 1.5 294 7.52 99.8 8.76 31.4	19 1.5 324 7.88 96.1 8.12 25.5	13 1.5 346.1 7.79 94.4 8.26 25.1	NM 1.5 318.4 7.05 99.3 8.52 32.4
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters	Units Feet Umhos/cm mg/L % s.u. Deg C NTU Depth Units	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS	4 341 6.22 82.8 8.14 30.3 10.03 NS	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS	04/26/18 3.2 NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80	02/17/20 17.6 3 62 8.44 99.2 8.5 23.28 1.48 8.00	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20	<b>10/21/20</b> 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0	<b>V</b> <b>03/03/21</b> 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 8.5.4 8.25 27.6 1.79 NS	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.15 I	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U	WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I	04/26/18 3.2 NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U	<b>10/21/20</b> 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 7.0 0.009 I	<b>03/03/21</b> 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U	-6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation	Units Feet Umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35	WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.63	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.066	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.28	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U NS	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U NS	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN)	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Deg C NTU Depth Units mg/L mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24 0.736	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32 0.880	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90 1.04	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29 2.90	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37 0.462	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35 0.715	WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.63 0.731	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30 0.757	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.066 0.722	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36 0.683	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36 0.612	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.28 0.414	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19 0.490	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS 0.05 U	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U NS 0.559	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I NS 0.448	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS 0.496	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS 0.782	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U NS 0.539	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA 0.656	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS 0.658	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS 0.618
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen	Units Feet Umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L mg/L mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24 0.736 0.744	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32 0.880 0.880	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90 1.04 1.05	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29 2.90 2.90	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37 0.462 0.472	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35 0.715 0.715	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.63 0.731 0.731	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30 0.757 0.763	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.66 0.722 0.727	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36 0.683 0.683	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36 0.612 0.612	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.28 0.414 0.414	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19 0.490 0.490	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS 0.05 U 0.05 U	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 7.5 0.008 U NS 0.559 0.559	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I NS 0.448 0.448	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS 0.496 0.496	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS 0.782 0.782	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U NS 0.539 0.539	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA 0.656 0.678	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS 0.658 0.670	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS 0.618 0.629
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L mg/L mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24 0.736 0.744 0.008 I	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32 0.880 0.880 U	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90 1.04 1.05 0.012 I	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29 2.90 2.90 U	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37 0.462 0.472 0.010 I	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35 0.715 0.715 0.004 U	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.63 0.731 0.731 0.004 U	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30 0.757 0.763 0.006 I	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.66 0.722 0.727 0.006 I	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36 0.683 0.683 0.006 U	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36 0.612 0.612 0.006 U	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.28 0.414 0.414 0.006 U	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19 0.490 0.490 0.006 U	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS 0.05 U 0.05 U 0.05 U 0.006 U	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U NS 0.559 0.559 0.006 U	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I NS 0.448 0.448 0.006 U	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS 0.496 0.496 0.496 0.006 U	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS 0.782 0.782 0.782 0.006 U	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U NS 0.539 0.539 0.006 U	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA 0.656 0.678 0.022 I	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS 0.658 0.670 0.012 I	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS 0.618 0.629 0.011 I
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered)	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L mg/L mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24 0.736 0.744 0.008 I 0.088	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32 0.880 0.880 U 0.064	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90 1.04 1.05 0.012 I 0.029	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29 2.90 2.90 U 0.012	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37 0.462 0.472 0.010 I 0.029	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35 0.715 0.715 0.715 0.004 U 0.226	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.63 0.731 0.731 0.004 U 0.272	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30 0.757 0.763 0.006 I 0.020	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.66 0.722 0.727 0.006 I 0.022	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36 0.683 0.683 0.086 U 0.027	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36 0.612 0.612 0.612 0.006 U 0.063	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.28 0.414 0.414 0.006 U 0.032	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19 0.490 0.490 0.490 0.006 U 0.059	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.006 U 0.0155	<b>V</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U NS 0.559 0.559 0.006 U 0.026	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I NS 0.448 0.448 0.006 U 0.002 I	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS 0.496 0.496 0.496 0.006 U 0.014	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS 0.782 0.782 0.782 0.782 0.006 U 0.010	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U NS 0.539 0.539 0.006 U 0.014	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA 0.656 0.678 0.022 I 0.002 U	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS 0.658 0.670 0.012 I 0.015	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS 0.618 0.629 0.0111 0.023
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered) Total phosphorus	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L mg/L mg/L mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24 0.736 0.744 0.008 1 0.088 0.092	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32 0.880 0.880 0.880 U 0.064 0.098	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90 1.04 1.05 0.012 I 0.029 0.031 I	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29 2.90 2.90 U 0.012 0.168	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37 0.462 0.0472 0.010 I 0.029 0.054	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35 0.715 0.715 0.704 U 0.226 1.08	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.028 I 0.63 0.731 0.731 0.004 U 0.272 0.501	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30 0.757 0.763 0.006 I 0.020 0.013 I	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.66 0.722 0.727 0.006 I 0.022 0.033	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36 0.683 0.683 0.006 U 0.027 0.029 I	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36 0.612 0.006 U 0.063 0.067	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.28 0.414 0.414 0.006 U 0.032 0.035	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19 0.490 0.490 0.006 U 0.059 0.064	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS 0.05 U 0.05 U 0.05 U 0.05 U 0.0155 0.016 I	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U NS 0.559 0.559 0.006 U 0.026 0.055	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I NS 0.448 0.006 U 0.002 I 0.023 I	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS 0.008 U NS 0.496 0.496 0.006 U 0.014 0.038	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS 0.782 0.782 0.782 0.006 U 0.010 0.020 I	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U NS 0.539 0.539 0.539 0.006 U 0.014 0.015 I	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA 0.656 0.678 0.022 I 0.002 U 0.008 U	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS 0.658 0.670 0.012 I 0.015 0.023 I	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS 0.618 0.629 0.011 I 0.023 0.029 I
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered) Total phosphorus	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L mg/L mg/L mg/L mg/L mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24 0.736 0.744 0.008 I 0.088 0.092 5.99	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32 0.880 0.880 U 0.064 0.098 7.05	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90 1.04 1.05 0.012 I 0.029 0.031 I 7.57	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29 2.90 2.90 U 0.012 0.168 64.5	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37 0.462 0.472 0.472 0.010 I 0.029 0.054 5.44	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35 0.715 0.715 0.715 0.004 U 0.226 1.08 9.14	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.63 0.731 0.004 U 0.272 0.501 3.94	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30 0.757 0.763 0.006 I 0.020 0.013 I 10.8	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.66 0.722 0.727 0.006 I 0.022 0.033 7.61	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36 0.683 0.683 0.006 U 0.027 0.029 I 5.38	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36 0.612 0.0612 0.0612 0.063 0.067 8.86	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.008 U 0.28 0.414 0.414 0.006 U 0.032 0.035 3.18	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19 0.490 0.490 0.006 U 0.059 0.064 4.95	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS 0.05 U 0.05 U 0.006 U 0.0155 0.016 I 4.80	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U NS 0.559 0.006 U 0.026 0.055 2.48	/Q Locatio 08/05/21 12.3 3 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I NS 0.448 0.006 U 0.002 I 0.023 I 7.62	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS 0.496 0.496 0.496 0.006 U 0.014 0.038 6.69	-6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS 0.782 0.006 U 0.010 0.020 I 4.19	5.5 1.5 294 7.52 99.8 8.76 3.14 2.89 NS 0.008 U NS 0.539 0.006 U 0.014 0.015 I 8.55	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA 0.656 0.678 0.022 I 0.002 U 0.008 U 8.09	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS 0.658 0.670 0.012 I 0.015 0.023 I 5.68	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS 0.618 0.629 0.011 1 0.023 0.029 1 7.62
Sample Date: Field Parameters Total Water Depth Sample Depth Conductivity, field Dissolved oxygen (DO), field Dissolved oxygen (DO), field pH, field Temperature, field Turbidity, field Secchi Disk Wet Parameters Ammonia-N TAN criteria calculation Total kjeldahl nitrogen (TKN) Total nitrogen Nitrite/Nitrate Ortho phosphorus (Field Filtered) Total phosphorus	Units Feet Feet umhos/cm mg/L % s.u. Deg C NTU Depth Units mg/L mg/L mg/L mg/L	3.78 3 405 7.32 91.1 8.46 26.55 7.98 NS U 0.24 0.736 0.744 0.008 1 0.088 0.092	4 3 341 6.22 82.8 8.14 30.3 10.03 NS 0.151 0.32 0.880 0.880 0.880 U 0.064 0.098	3.52 3 369 6.82 81.2 7.68 24.1 3.15 NS U 0.90 1.04 1.05 0.012 I 0.029 0.031 I	2.98 2.5 313.1 6.58 67.9 7.77 16.9 21.38 NS 0.097 1.29 2.90 2.90 U 0.012 0.168	05/04/17 2 1.5 406 8.46 109.3 8.12 28.6 3.93 NS 0.008 U 0.37 0.462 0.0472 0.010 I 0.029 0.054	08/02/17 4.6 3 384.1 5.59 74.0 8.10 30.0 4.15 NS 0.008 U 0.35 0.715 0.715 0.704 U 0.226 1.08	/ WQL3B 12/06/17 6.94 3.0 338.6 5.87 68.8 8.00 23.3 2.84 NS 0.028 I 0.028 I 0.63 0.731 0.731 0.004 U 0.272 0.501	04/26/18 3.2 NS NS NS NS NS NS NS NS NS NS NS NS NS	08/22/18 3.6 3 354.5 7.39 98.8 8.18 30.6 26.26 NS 0.015 I 0.30 0.757 0.763 0.006 I 0.020 0.013 I	12/11/18 5.87 3 322.4 6.32 70.6 8.08 20.8 7.10 NS 0.008 U 0.66 0.722 0.727 0.006 I 0.022 0.033	04/16/19 3.50 3 391.3 5.7 71.2 8.22 26.7 2.17 NS 0.008 U 0.36 0.683 0.683 0.006 U 0.027 0.029 I	10/24/19 12.5 3 340.8 5.63 72.4 8.16 28.3 4.85 5.80 0.008 U 0.36 0.612 0.006 U 0.063 0.067	02/17/20 17.6 3 362 8.44 99.2 8.5 23.28 1.48 8.00 0.008 U 0.28 0.414 0.414 0.006 U 0.032 0.035	06/03/20 15.5 3 688 6.49 85.7 8.51 29.4 2.83 7.20 0.008 U 0.19 0.490 0.490 0.006 U 0.059 0.064	10/21/20 10.5 1.5 290 6.66 83.4 8.63 29.3 2.13 7.0 0.009 I NS 0.05 U 0.05 U 0.05 U 0.05 U 0.0155 0.016 I	<b>W</b> 03/03/21 14.4 3 295 7.43 90.4 8.74 25.2 1.75 7.5 0.008 U NS 0.559 0.559 0.006 U 0.026 0.055	/Q Locatio 08/05/21 12.3 3 365 6.82 90.3 7.59 30.07 2.19 6.4 0.012 I NS 0.448 0.006 U 0.002 I 0.023 I	n #6 / WQI 10/26/21 10.5 3.0 305 8.25 85.4 8.25 27.6 1.79 NS 0.008 U NS 0.008 U NS 0.496 0.496 0.006 U 0.014 0.038	6 02/17/22 14.0 1.5 319 8.40 90.8 8.48 19.6 2.79 7.0 0.008 U NS 0.782 0.782 0.782 0.006 U 0.010 0.020 I	5.5 1.5 294 7.52 99.8 8.76 31.4 2.89 NS 0.008 U NS 0.539 0.539 0.539 0.006 U 0.014 0.015 I	19 1.5 324 7.88 96.1 8.12 25.5 1.38 NS 0.008 U NA 0.656 0.678 0.022 I 0.002 U 0.008 U	13 1.5 346.1 7.79 94.4 8.26 25.1 2.50 NS 0.008 U NS 0.658 0.670 0.012 I 0.015 0.023 I	NM 1.5 318.4 7.05 99.3 8.52 32.4 10.1 NS 0.008 U NS 0.618 0.629 0.011 I 0.023 0.029 I

#### Table 1

## Analytical Results Summary Surface Water Quality Monitoring Miromar Lakes, Fort Myers, Florida August 2023

Sample Location/Sample	ID:											WQ Lo	cation #4	/ WQL4										<u> </u>
Sample Date:		04/27/16	08/03/16	10/31/16	01/31/17	05/04/17	08/02/17	12/06/17	04/26/18	08/22/18	12/11/18	04/16/19	10/24/19	02/17/20	06/03/20	10/21/20	03/03/21	08/05/21	10/26/21	02/17/22	08/22/22	11/28/22	03/27/23	08/07/23
Field Parameters	Units																							
Total Water Depth	Feet	12	7.77	14.88	7.91	5.0	10.7	7.9	6.90	11.8	10.7	14.20	15.4	13.55	12.55	13.0	8.01	7.2	7.0	5.5	6.0	NS	12	NM
Sample Depth	Feet	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	NM	1.5	1.5	1.5	1.5
Conductivity, field	umhos/cm	403	340	373	361.8	405	404.8	342.0	399.7	342	310.3	382.1	337.0	363	682	286	291	349	302	318	293	317	342.1	312.1
Dissolved oxygen (DO), field	mg/L	7.72	6.55	7.14	8.06	8.33	5.02	5.73	7.13	6.96	7.84	7.28	6.42	8.45	6.42	1.41	7.75	7.31	6.69	8.22	7.06	7.96	8.19	6.91
Dissolved oxygen (DO), field	%	96.4	88.3	85.6	88.3	106.6	66.8	68.2	89.2	92.9	87.8	90.2	82.8	99.4	83.4	17.0	93.5	94.2	89.1	90.6	97.8	94.8	98.6	94.5
pH, field	s.u.	8.58	8.31	7.59	8.10	7.65	8.16	8.08	8.39	8.34	7.99	7.97	8.38	8.58	8.57	8.66	8.80	6.62	8.21	8.26	8.76	7.94	8.42	8.55
Temperature, field	Deg C	26.71	31.1	24.5	19.8	28.1	30.3	24.1	26.8	30.5	20.9	26.3	28.5	23.49	29.9	27.5	24.8	29.95	27.6	19.7	31.9	24	24.2	32.2
Turbidity, field	NTU	1.87	2.04	4.44	3.02	3.11	1.81	2.48	3.38	3.56	4.10	2.72	2.58	1.04	2.48	1.85	2.28	1.76	3.19	3.14	2.07	0.98	3.95	12.1
Secchi Disk	Depth	NS	5.50	8.50	7.00	6.5	8.01	7.2	NS	5.5	NS	NS	NS	NS										
Wet Parameters	Units																							
Ammonia-N	mg/L	U	0.023 I	U	0.012 I	0.008 U	0.008 U	0.026 I	0.008 U	0.014 I	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.025 I	0.008 U	0.008 U	0.071	0.008 U	0.008 U	0.008 U
TAN criteria calculation	mg/L	0.20	0.23	0.96	0.68	0.72	0.31	0.53	0.27	0.23	0.74	0.54	0.25	0.24	0.16	NS	NS	NS	NS	NS	NS	NA	NS	NS
Total kjeldahl nitrogen (TKN)	mg/L	0.868	0.887	0.780	0.976	0.518	0.570	0.612	0.610	0.640	0.885	0.615	0.126 I	0.371	0.633	0.05 U	0.538	0.469	0.555	0.430	0.784	0.579	0.743	0.752
Total nitrogen	mg/L	0.868	0.887	0.808	0.976	0.524	0.570	0.612	0.623	0.645	0.885	0.615	0.126	0.371	0.633	0.05 U	0.538	0.469	0.555	0.446	0.969	0.596	0.764	0.768
Nitrite/Nitrate	mg/L	U	U	0.028	U	0.006 I	0.004 U	0.004 U	0.013 I	0.005 I	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.016 I	0.185	0.017 I	0.021 I	0.016 I
Ortho phosphorus (Field Filtered)	mg/L	0.094	0.017	0.024	0.017	0.030	0.044	0.027	0.019	0.017	0.022	0.026	0.065	0.037	0.042	0.0180	0.021	0.012	0.016	0.010	0.016	0.002 I	0.020	0.023
Total phosphorus	mg/L	0.101	0.021 I	0.027 I	0.038	0.048	0.067	0.038	0.030 I	0.044	0.043	0.038	0.070	0.064	0.064	0.014 I	0.043	0.032	0.043	0.020 I	0.017 I	0.018 I	0.035	0.036
Chlorophyll	mg/m3	4.92	7.11	7.78	9.09	3.94	9.31	4.62	8.66	10.5	8.43	3.43	7.38	2.75	3.78	5.05	1.74	5.39	7.27	3.82	14.2	6.85	5.24	7.80
Total suspended solids (TSS)	mg/L	2.33	2.84	3.60	5.20	3.26	2.60	1.60 I	2.00 I	5.50	2.33	3.40	3.20	1.25 I	3.40	1.80 I	0.570 U	3.60	2.00 I	1.25 I	0.570 U	5.40	2.55	3.80
Biochemical oxygen demand (total BOD5)	mg/L	U	U	U	1.09 I	1.0 U	1.0 U	1.0 U	1.16 I	1.47 I	1.0 U	1.0 U	1.07 I	1.0 U	1.0 U	1.51 I	1.0 U							

Sample Location/Sample	ID:											WQ Lo	cation #5	/ WQL5										
Sample Date:		04/27/16	08/03/16	10/31/16	01/31/17	05/04/17	08/02/17	12/06/17	04/26/18	08/22/18	12/11/18	04/16/19	10/24/19	02/17/20	06/03/20	10/21/20	03/03/21	08/05/21	10/26/21	02/17/22	08/22/22	11/28/22	03/27/23	08/07/23
Field Parameters	Units																							
Total Water Depth	Feet	NS	2	2.03	1.42	2.5	4.32	2.84	S	2.7	1.10	1.50	1.98	1.72	<1	2.0	2.5	NM	4.0	2.0	2.5	NS	NM	NS
Sample Depth	Feet	NS	1.5	1.5	0.5	1.5	1.5	1.5	S	1.5	0.5	0.75	1.0	1	<1	1.5	1.5	1.5	1.5	0.5	1.5	1.5	1.5	NS
Conductivity, field	umhos/cm	NS	411	515	462.0	464	478.4	447.9	464.1	405.1	427.2	475.8	465.0	480	802	373	409	82.9	423	438	397.6	429	475.8	NS
Dissolved oxygen (DO), field	mg/L	NS	4.84	6.22	6.88	8.50	8.03	4.21	5.47	6.09	4.21	5.00	3.20	7.6	5.18	7.65	3.05	6.07	4.69	8.40	6.31	7.13	6.56	NS
Dissolved oxygen (DO), field	%	NS	64.7	77.2	72.2	111.1	109.1	49.6	68.2	81.2	46.1	61.0	41.3	89.3	69.0	96.5	37.5	80.6	60.1	53.4	85.1	87.4	81.8	NS
pH, field	s.u.	NS	7.83	7.77	7.65	7.77	8.10	7.58	7.61	7.80	6.38	6.44	7.99	8.35	8.28	8.18	8.04	8.12	8.01	8.15	8.41	8.40	8.17	NS
Temperature, field	Deg C	NS	30.6	26.4	17.7	29.3	31.5	23.6	26.6	30.4	19.8	25.4	28.4	23.42	30.3	27.4	25.3	30.19	27.9	20.6	32.2	25.7	26.3	NS
Turbidity, field	NTU	NS	2.08	3.62	3.60	5.77	4.65	1.99	4.93	3.40	4.18	4.98	4.71	2.45	5.74	2.96	2.27	4.05	17.12	2.10	2.30	1.22	2.88	NS
Secchi Disk	Depth	NS	Lake Bottom	Lake Bottom	Lake Bottom	NS																		
Wet Parameters	Units																							
Ammonia-N	mg/L	NS	0.033	U	0.008 I	0.008 U	0.008 U	0.034	0.008 U	0.010 I	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.023 I	0.008 U	NS					
TAN criteria calculation	mg/L	NS	0.49	0.70	1.40	0.58	0.32	1.03	0.82	0.52	2.19	1.51	0.46	0.36	0.26	NS	NS	NS	NS	NS	NS	NA	NS	NS
Total kjeldahl nitrogen (TKN)	mg/L	NS	0.845	0.786	0.962	0.754	0.756	0.838	1.11	0.857	0.944	0.902	0.807	0.688	1.08	0.137 I	0.755	0.720	0.668	0.925	0.883	0.717	0.982	NS
Total nitrogen	mg/L	NS	0.845	0.794	0.962	0.762	0.760	0.854	1.13	0.863	0.957	0.902	0.807	0.688	1.08	0.137	0.755	0.720	0.668	0.925	1.06	0.737	1.01	NS
Nitrite/Nitrate	mg/L	NS	U	0.008 I	U	0.008 I	0.004 I	0.016	0.016	0.006 I	0.013 I	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.177	0.020 I	0.029	NS
Ortho phosphorus (Field Filtered)	mg/L	NS	0.022	0.042	0.017	0.027	0.019	0.022	0.016	0.015	0.019	0.023	0.050	0.038	0.055	0.075	0.029	0.014	0.008	0.010	0.016	0.011	0.026	NS
Total phosphorus	mg/L	NS	0.065	0.042	0.036	0.035	0.067	0.046	0.027 I	0.025 I	0.024 I	0.028 I	0.081	0.049	0.102	0.084	0.067	0.035	0.027 I	0.034	0.024 I	0.017 I	0.030 I	NS
Chlorophyll	mg/m3	NS	15.1	12.5	13.9	16.0	25.0	17.3	27.6	19.8	15.4	23.4	15.7	12.6	30.4	22.7	4.93	22.9	16.5	5.08	21.7	10.0	19.5	NS
Total suspended solids (TSS)	mg/L	NS	4.10	4.80	5.00	8.11	11.0	0.570 U	6.20	4.00	3.00	7.60	2.40	3.25	9.00	4.20	3.00	5.40	2.33	1.50 I	2.00 I	5.40	3.00	NS
Biochemical oxygen demand (total BOD5)	mg/L	NS	1.31 I	1.56 I	1.36 I	2.41 I	2.14 I	1.64 I	3.38 I	1.15 I	1.38 I	3.39 I	1.54 I	1.32 I	3.01 I	1.73	1.0 U	1.55 I	1.0 U	1.32 I	1.22	1.02 I	1.56 I	NS

Notes:

s

 Sample collected from edge of lake
 Not detected at the associated reporting limit
 Not detected at the associated reporting limit
 Reported value is between method detection limit and the practical quantitation limit
 Reported value is between method detection limit and the practical quantitation limit U \*

NM - Not Measured

# Attachment 2 Figure 1





Tri-Annual Water Quality Sampling Report Lakes 3 and 6 - Miromar Lakes Fort Myers, Lee County, Florida

Sampling Location Map

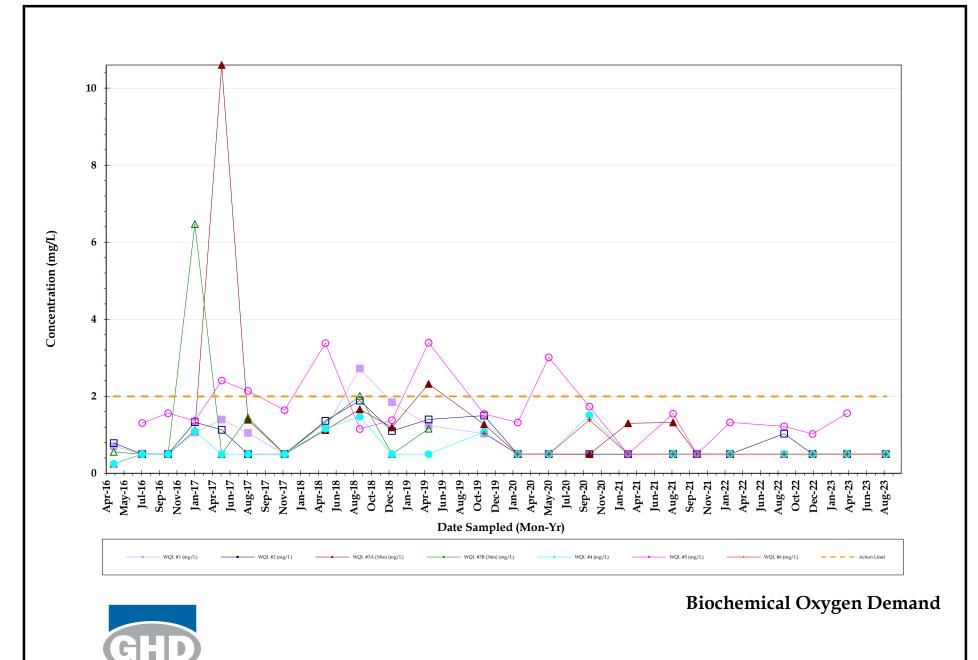
11225022-08

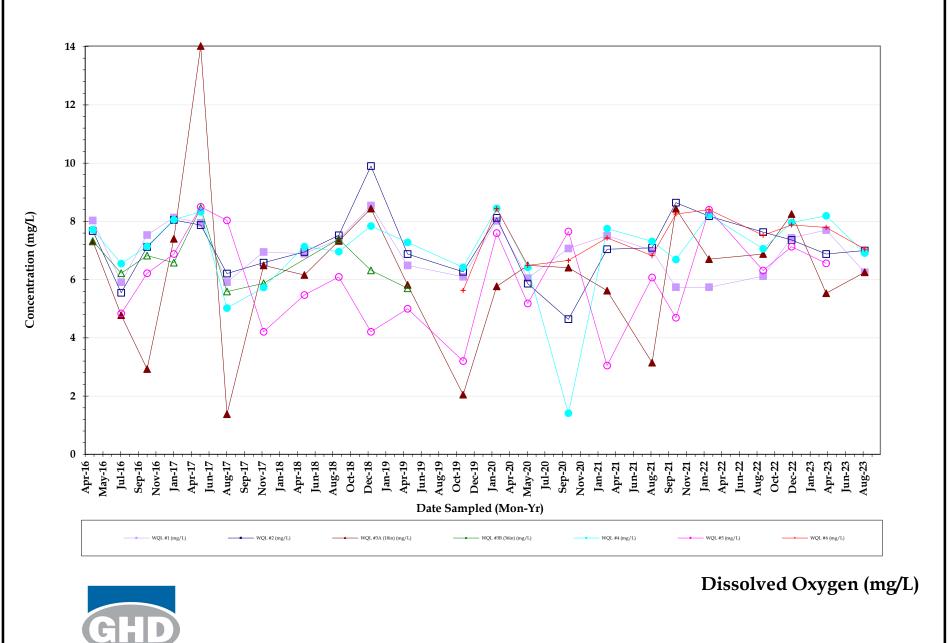
March 2023

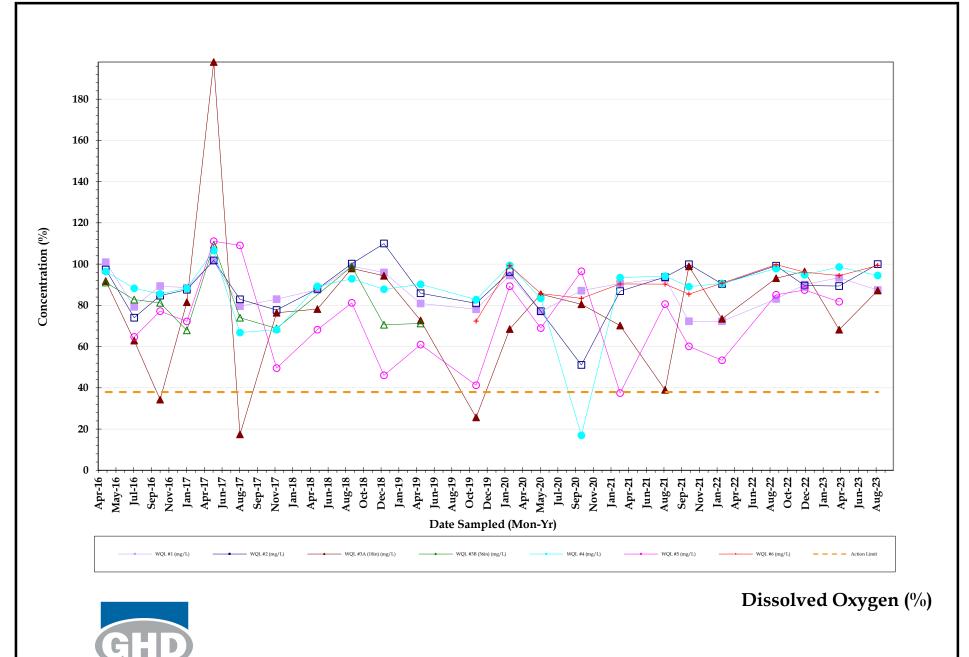
Figure 1

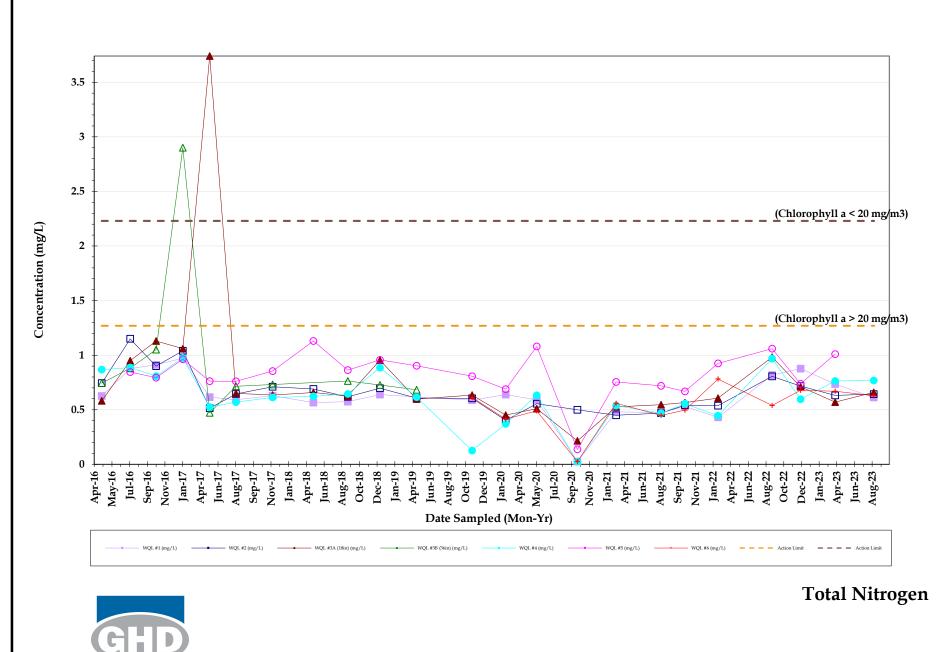
# Attachment 3

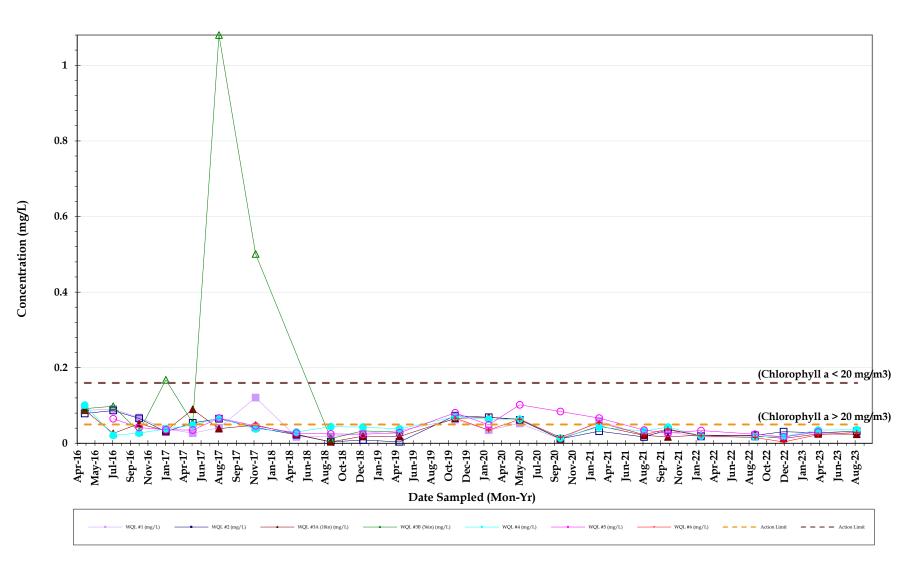
# **Trend Graphs**





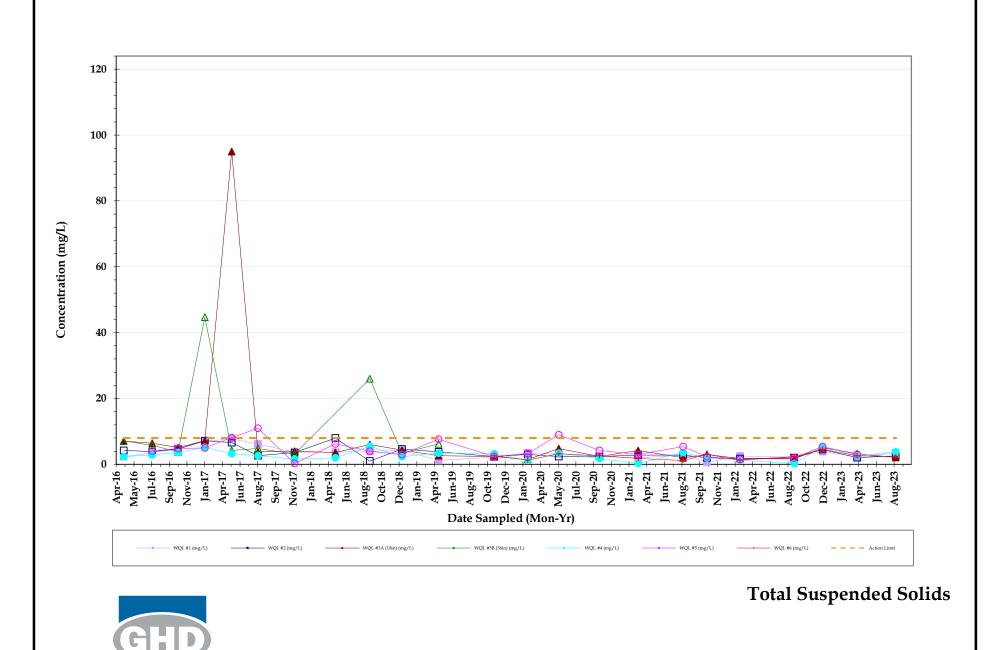


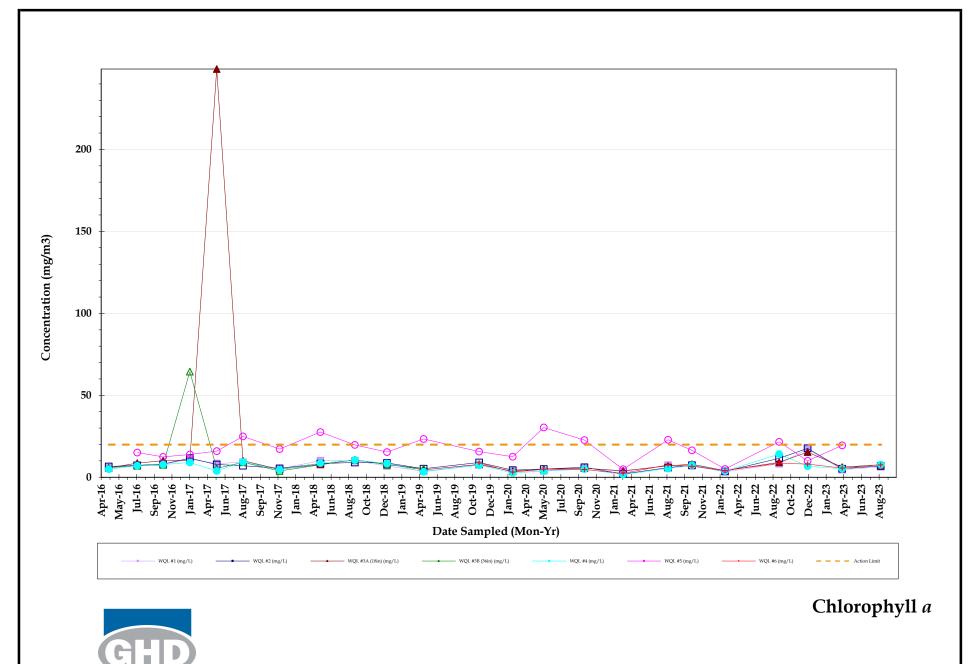


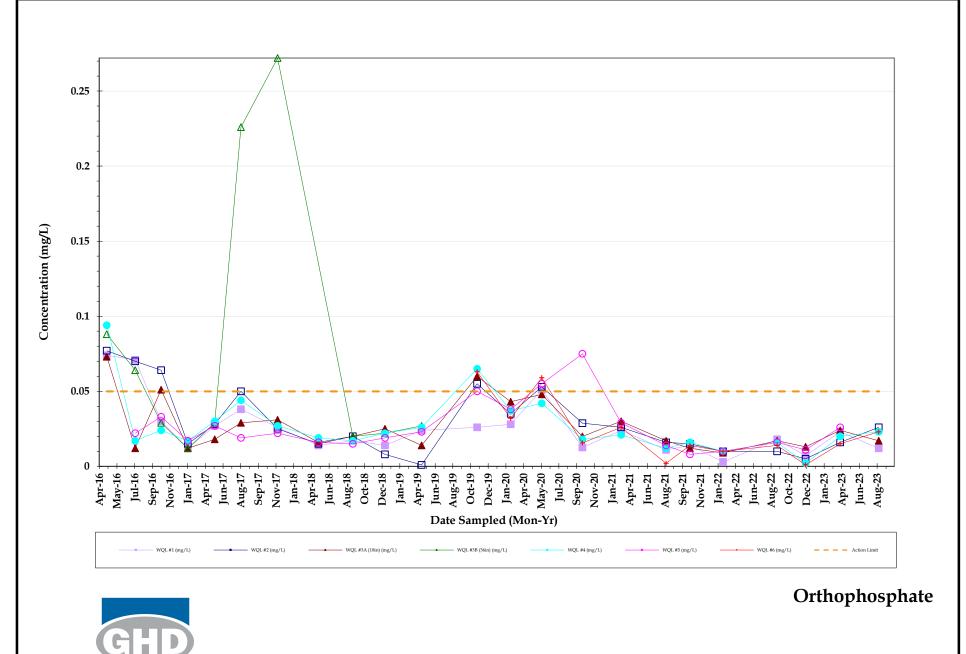


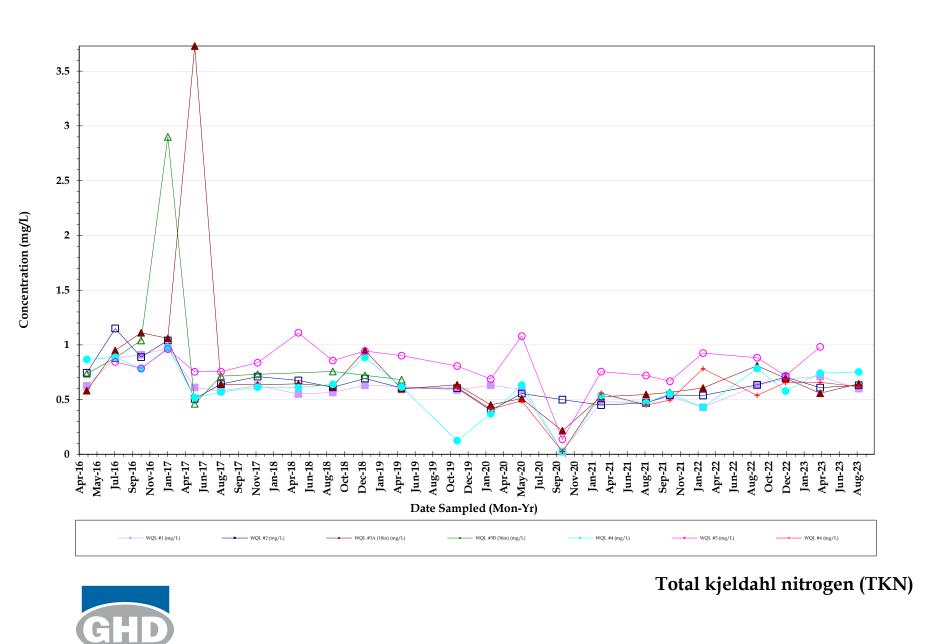
**H**: | )

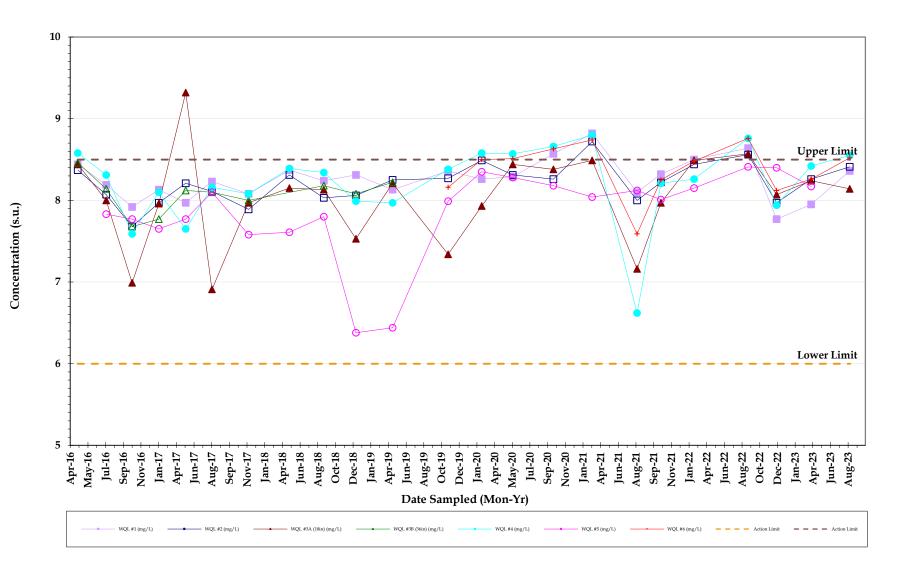
## **Total Phosphorus**





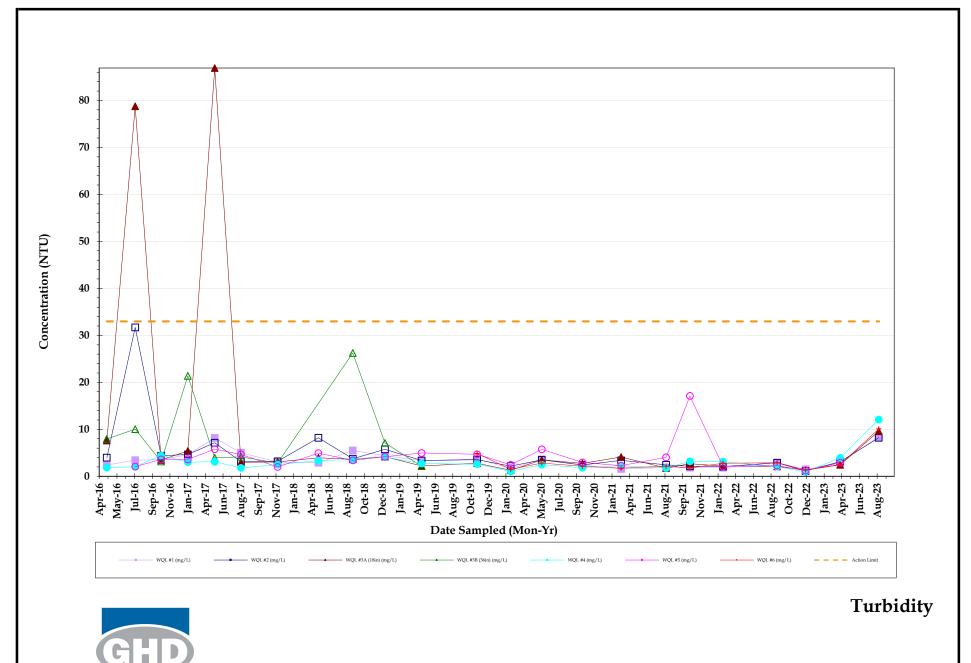




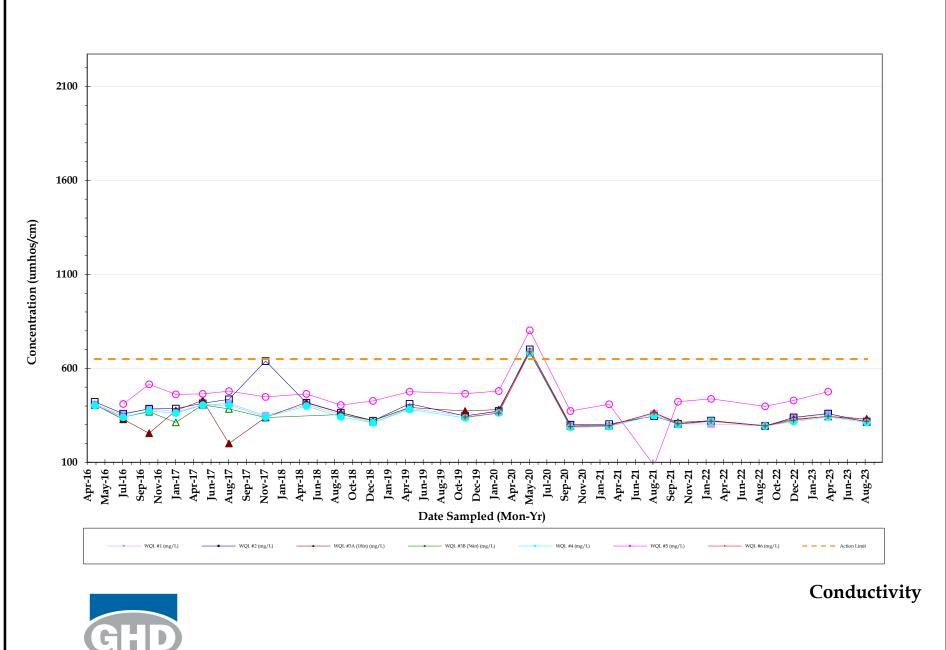


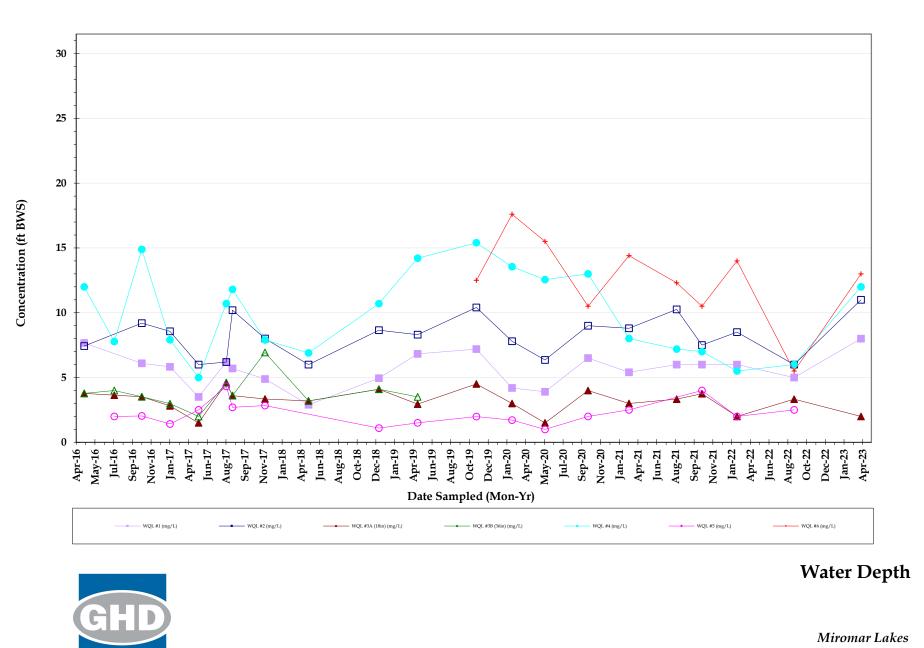
e:)

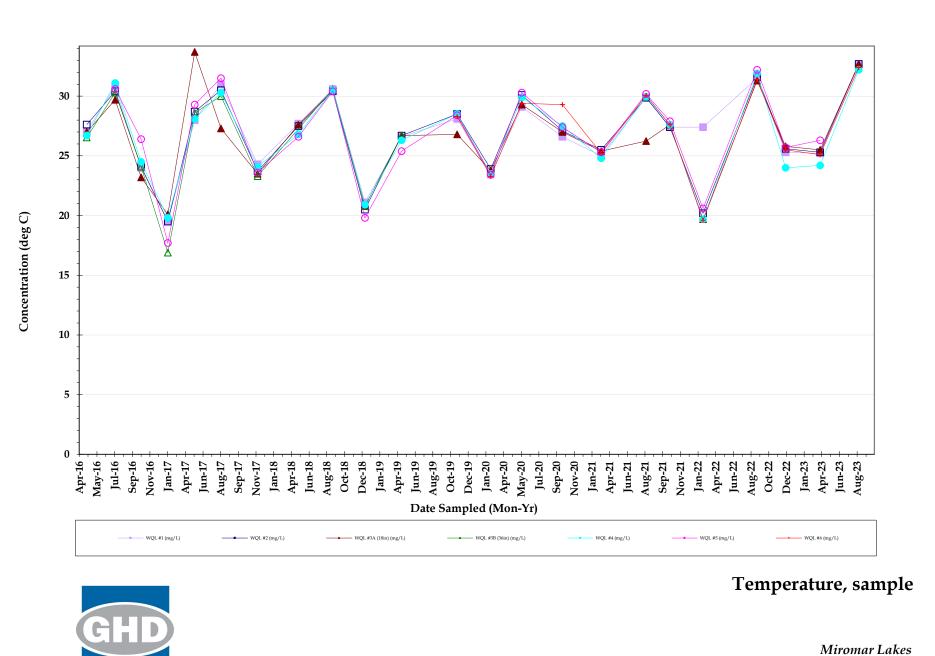
pH, Field



Miromar Lakes Water Quality Surface Water Sample results AUGUST 2023







# **Attachment 4**

# **Laboratory Analytical Reports**



## ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number: 23080476

G H D Services, Inc 2675 Winkler Ave., Fort Myers, FL 339	Ste.180 01		D T	Project Na Date Rece Time Rece Project #:	ived : eived :	MIROMAR LAKE 08/08/2023 15:14 11225022-00		
Submission Number:	23080476					Sample Date:	08/07/2023	
Sample Number:	001					Sample Time:		
Sample Description:	WQL #1					Sample Metho	od: Grab	
Parameter		Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
AMMONIA NITROGEN		0.008 U	MG/L	0.008	0.032	350.1	08/09/2023 18:05	LK
TOTAL KJELDAHL NITROG	EN	0.600	MG/L	0.05	0.20	351.2	08/09/2023 17:27	MS
ORTHO PHOSPHORUS AS	Р	0.012	MG/L	0,002	0.008	365,3	08/09/2023 10:15	JS
TOTAL PHOSPHORUS AS	Р	0.024 1	MG/L	0.008	0.032	365.3	09/01/2023 13:54	JS/TH
CHLOROPHYLL A		6.40	MG/M3	0.25	1.00	445.0	08/15/2023 12:13	СН
TOTAL SUSPENDED SOLID	DS	3.44	MG/L	0.570	2.280	SM2540D	08/10/2023 12:00	MA
BIOCHEMICAL OXYGEN DE	Emand	1 U	MG/L	1	4	SM5210B	08/09/2023 13:12	LD/MA LD
NITRATE+NITRITE AS N		0.013 I	MG/L	0.006	0.024	SYSTEA EASY	08/09/2023 12:48	MS
TOTAL NITROGEN		0.613	MG/L	0.05	0.20	SYSTEA+351	08/09/2023 12:48	MS/MS
Submission Number:	23080476					Sample Date:	08/07/2023	
Sample Number:	002					Sample Time:	12:30	
Sample Description:	WQL #2					Sample Metho	od: Grab	
Parameter		Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
AMMONIA NITROGEN		0.008 U	MG/L	0.008	0.032	350.1	08/10/2023 16:32	LK
TOTAL KJELDAHL NITROG	EN	0,632	MG/L	0.05	0.20	351.2	08/09/2023 17:22	MS
ORTHO PHOSPHORUS AS	P	0.028	MG/L	0.002	0.008	365.3	08/09/2023 10:15	JS
TOTAL PHOSPHORUS AS	P	0.032	MG/L	0.008	0.032	2 365.3	09/01/2023 13:55	JS/TH
CHLOROPHYLL A		6.95	MG/M3	0.25	1.00	445.0	08/15/2023 12:13	СН
TOTAL SUSPENDED SOLIE	os	2,55	MG/L	0.570	2.280	SM2540D	08/10/2023 12:00	MA
BIOCHEMICAL OXYGEN DE	EMAND	1 U	MG/L	1	4	SM5210B	08/09/2023 13:12	LD/MA LD
NITRATE+NITRITE AS N		0.011 I	MG/L	0.006	0.024	SYSTEA EASY	08/09/2023 12:49	MS
TOTAL NITROGEN		0.643	MG/L	0.05	0.20	SYSTEA+351	08/09/2023 12:49	MS/MS

FDOH Certification #E84167

BENCHMARK

— EnviroAnalytical, Inc.

Submission Number:	23080476					Sample Date:	08/07/2023	
Sample Number:	003					Sample Time:	12:20	
Sample Description:	WQL #3					Sample Metho	d: Grab	
Parameter		Result	Units	MDL.	PQL	Procedure	Analysis Date/Time	Analyst
AMMONIA NITROGEN		0.008 U	MG/L	0.008	0.032	350.1	08/10/2023 16:33	LK
TOTAL KJELDAHL NITROGEI	N	0.644	MG/L	0.05	0.20	351.2	08/09/2023 17:23	MS
ORTHO PHOSPHORUS AS P		0.017	MG/L	0.002	0.008	365.3	08/09/2023 10:16	JS
TOTAL PHOSPHORUS AS P		0.024	MG/L	0.008	0.032	365.3	09/01/2023 10:47	JS/TH
CHLOROPHYLL A		7.68	MG/M3	0.25	1.00	445.0	08/15/2023 12:13	СН
TOTAL SUSPENDED SOLIDS		2.08	MG/L	0,570	2.280	SM2540D	08/10/2023 12:00	MA
BIOCHEMICAL OXYGEN DEM	IAND	1 U	MG/L	1	4	SM5210B	08/09/2023 13:12	LD/MA LD
NITRATE+NITRITE AS N		0.015 I	MG/L	0,006	0.024	SYSTEA EASY	08/09/2023 12:49	MS
TOTAL NITROGEN		0.659	MG/L	0.05	0.20	SYSTEA+351	08/09/2023 12:49	MS/MS
Submission Number:	23080476					Sample Date:	08/07/2023	
Sample Number: (	004					Sample Time:	11:55	
Sample Description:	WQL #4					Sample Metho	d: Grab	
Parameter		Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
AMMÓNIA NITROGEN		0.008 U	MG/L	0.008	0.032	350,1	08/10/2023 16:35	LK
FOTAL KJELDAHL NITROGEI	N .	0,752	MG/L	0.05	0.20	351.2	08/09/2023 17:32	MS
ORTHO PHOSPHORUS AS P		0.023	MG/L	0.002	0.008	365.3	08/09/2023 10:18	JS
TOTAL PHOSPHORUS AS P		0.036	MG/L	0.008	0.032	365.3	09/01/2023 13:56	JS/TH
CHLOROPHYLL A		7.80	MG/M3	0,25	1.00	445.0	08/15/2023 12:13	СН
TOTAL SUSPENDED SOLIDS		3.80	MG/L	0.570	2.280	SM2540D	08/10/2023 12:00	MA
BIOCHEMICAL OXYGEN DEM	IAND	1 U	MG/L	1	4	SM5210B	08/09/2023 13:12	LD/MA LD
NITRATE+NITRITE AS N		0.016	MG/L	0.006	0.024	SYSTEA EASY	08/09/2023 12:50	MS
TOTAL NITROGEN		0.768	MG/L	0.05	0.20	SYSTEA+351	<b>08/09/2023</b> 12:50	MS/MS
Submission Number: 2	23080476				•••••••••	Sample Date:	08/07/2023	
Sample Number:	005					Sample Time:	12:10	
Sample Description:	NQL #6					Sample Metho		
Parameter		Result	Units	MDL	PQL	Procedure	Analysis Date/Time	Analyst
AMMONIA NITROGEN		0,008 U	MG/L	0.008	0,032	350,1	08/10/2023 16:37	LK
TOTAL KJELDAHL NITROGEN	4	0.618	MG/L	0,05	0.20	351.2	08/09/2023 17:34	MS
ORTHO PHOSPHORUS AS P		0.023	MG/L	0.002	0.008	365.3	08/09/2023 10:19	JS
FOTAL PHOSPHORUS AS P		0,029	MG/L	0.008	0.032	365,3	09/01/2023 13:57	JS/TH
CHLOROPHYLL A		7.62	MG/M3	0,25	1.00	445.0	08/15/2023 12:13	СН
TOTAL SUSPENDED SOLIDS		2.31	MG/L	0.570	2.280	SM2540D	08/10/2023 12:00	MA

1711 12th Street East \* Palmetto, FL 34221 \* Phone (941) 723-9986 \* Fax (941) 723-6061

FDOH Certification #E84167

BENCHMARK - EnviroAnalytical, Inc.

NITRATE+NITRITE AS N	0.011	MG/L	0.006	0.024	SYSTEA EASY	08/09/2023 12:50	MS
TOTAL NITROGEN	0.629	MG/L	0.05	0.20	SYSTEA+351	08/09/2023 12:50	MS/MS

Dale D. Dixon / Laboratory Director

Kathleen Gauthier - Technical Director/QC Officer

Haley Richardson - QA Officer

#### DATA QUALIFIERS THAT MAY APPLY:

- A = Value reported is an average of two or more determinations.
- B = Results based upon colony counts outside the ideal range.
- H = Value based on field kit determination. Results may not be accurate.
- I = Reported value is between the laboratory MDL and the PQL.
- J1 = Estimated value. Surrogate recovery limits exceeded.
- J2 = Estimated value. No quality control criteria exists for component.
- J3 = Estimated value, Quality control criteria for precision or accuracy not met. J4 = Estimated value, Sample matrix interference suspected.
- J5 = Estimated value. Data questionable due to improper lab or field protocols.
- $$\label{eq:K} \begin{split} K &= Off\text{-scale low. Value is known to be < the value reported.} \\ L &= Off\text{-scale high. Value is known to be > the value reported.} \end{split}$$
- N = Presumptive evidence of presence of material,

O = Sampled, but analysis lost or not performed.

Q = Sample held beyond accepted hold time.

#### NOTES:

- MBAS calculated as LAS; molecular weight = 340.
- PQL = 4xMDL.
- ND = Not detected at or above the adjusted reporting limit.

G1 = Accuracy standard does not meet method control limits, but does meet lab control limits that are in agreement with USEPA generated data. USEPA letter available upon request, G2 = Accuracy standard exceeds acceptable control limits, Duplicate and spike values are within control limits. Reported data are usable.

For questions or comments regarding these results, please contact us at (941) 723-9986, Results relate only to the samples.

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be blased high. Standard, Duplicate and Spike values are within control limits, Reported data are usable.

Y = Analysis performed on an improperty preserved sample. Data may be inaccurate,

Z = Too may colonies were present (TNTC). The numeric value represents the filtration volume. I = Data deviate from historically established concentration ranges. ? = Data rejected and should not be used. Some or all of QC data were outside criteria, and

the presence or absence of the analyte cannot be determined from the data.

= Not reported due to interference. Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface

water samples are supplied by the laboratory,

#### COMMENTS:

Chtorophyll A lab filtered at E85086 on 08/08/2023 at 0923.





		Laboratory Submission #											33		0	4	
rge couler	1. 1. 1		-	େମ		0		$\sim$	Ň	5	S		nufacturing sta		Time: 1520	11.144	5Tu
Kit Shipped to client via UPS Standard in 1 large cooler 3653 <u>ind.com</u> ) : 34043123	92hasse		Unique bottle ID	Chlorophyll a (45.0) Fintered e BEAS 8/8/23 0923	Plain	1 x 500mL Opaque Plastic	÷	٠	*	•	*		. 40mL vials are pre-preserved at ma	cceptability. ure:0.6'C 5:2.9°C	Date: 8/8/23	8/8/23	51813
Kit Shipped to client 239-210-8653 <u>(Wvatt@shd.com</u> ) 2022 PO# 34043123			Unique bottle ID <sup>m</sup>	TSS (SN2540D)	Plain	1 x 1 Quart Plastic	Yan	, ji	*	7	1		pm-preserved at manufactoring stag	Laboratory Sample Acceptability. pH <2 : # BEA Tempcrature <b>6 'C'</b> <b>BEA5 Temp: 2, 9 °C</b>	k hutenick	BEA	Ben
n Tucker ( <u>Andrew</u>	Laboratory Submission #	Parameters, Preservative <sup>4</sup> , Container Type <sup>3</sup> / Total # of Containers = 4	Unique bottle ID 10	Ortho-Phos (Lab Filtered) (365.3)	Plain	1 x ½ Pint Plastic	×	×	м,	•			T), or sindge (SLDG). r the manufacture: Micro bottles are	He	Brool	J.	Chra
GHD Services, Inc. (HSA ENG) 2675 Winkler Ave. Suite 180 Ft. Myers Fl 33901 Erik Isem (239) 215-3914 Sharmo Email EDD Reports to: Andrew Wyatt Email EDD Reports to: Andrew Wyatt	Laborato	Parameters, Preservati	Unique bottle ID 13	BOD5 (SM5210B)	Plain	1 x 1 Quart Plastic	. 04;	:30	с Х	11 <b>55</b> '	Mailo		vater (SSW), soïl, sediment (SDMN NO, do not lave expitation dates per	. <sup>m.</sup> wise noted.	Received By & Affiliation: (Print & Sign) Dinhu Ryntur L	Received By & Affiliation: (Printle Sign) Staven //eide	lera Mc Bour
Client: GHD S 2675 Wir Ft, Myen Erik Isen Email El	Profile: 840, QC Report		Unique bottle ID	NO3-NO2 (353.2) TKN (351.2) NH3 (350.1) TP (365.3) T-N (Cale.)	1.1mL 1:4 H2SO4 pH-2.d Lot # 23-04	1 x ½ Pint Plastic	813133 12140	517123, 12:30	817/23 12:00	Date/Time: を1子しる 、W	bate/Time: 517/23 13	Date/Time:	firesh surface water (FSW), saline surface v 42.8°Ey. i ter bladed in the fot. NaThto, H.SO, and HJ	reallysisks piler's statumes or initials, and any field mumber or ID. bottles unless otherwise noted.	Time: Rece 3, 30 pm	Time: Rece	121M 17
eipt at	Å	Sample	Matrix <sup>2</sup>	I	<b>_I</b> . <b>_</b>		SW	SW	SW	SW	SW	SW	ace water (SW), or equal to 6°C i tife to the bottles	uameters for and lection, sampler form. iffied bc	Date: \$(7),33	Date 8/8/23	818123
<b>c.</b> 6-9986 ced upon rec m ID #258		Sample 5					Grab	Grab	Grab	Grab	Grab	Grab	ndwater (GW), surfa noutd be less than o rvative used is spee	pe, citent ID, and pa date and time of col the sample custody LEW, CEIT	Date:	bate:	Ø
Benchmark EA, Inc. 1711 1.2 <sup>th</sup> St. East Palmetto, FL 34221 (941) 723-9986 / (800) 736-9986 (941) 723-6061-fax Sample Temperature checked upon receipt at BEA with Temperature Gun ID #258	ar Lakes WQM												agab (G) or whether it was a composite (C). Exing discharged to drinking water (DW), grout its place (P) or glass (G). Joliction. The temperature of Minuther of Drazes	i preservative contained in the bottle, sample yr dael after contaction with intermeter allack inter appropriate sample prior to collection. g cont. Plaste note special sampling overus on at feed by BEA using n	null.	Brook Watenice	BEA
Benchmark F.A South 1001 Corporate Avenue, Suite 102 North Port, FL 34289 (941) 625-3137 / (800) 736-9986 (941) 423-7336 fax Sample Temperature checked upon receipt at BEAS with Temperature Gun ID #7	Chain of Custody Form: Miromar Lakes WQM Proiert Nimber: 11225022-00	Station	A				-4707-4-	24702	54707	H#707~	~ 0r#6	•	<ol> <li>"Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).</li> <li>"Sample Marker the sample was a grab (G) or whether it was a composite (C).</li> <li>"Sample Marker the sample whether the sample was a grab (G) or whether it was a composite (C).</li> <li>"Complex Marker the sample whether the sample was a grab (G) or whether it was a composite (C).</li> <li>"Complex Marker the sample whether the sample was a grab (G) or whether it was a composite (C).</li> <li>"Complex Marker the sample whether the same discharger of a diriking water (GW), grant marker water (SSW), sail, sediment (SDMNT), or sindge (SLDG).</li> <li>"Complex Marker the same marker the combiner is phase (F) or glass (G).</li> <li>"Complex Marker the same or more the same preserved at manufacturing stage. 40mL vais as pre-preserved at manufacture marker the same transfer the same tran</li></ol>		1 Collector & Affiliation: (Print & Sign) (Mod Af Control of Mod I a Mud 2)	2 Relinquised By & Affiliation: 4 Bro	Stava Neider La

Kit Shipped to client via UPS Standard in 1 large cooler

Client:

Par 4014

BENCHMARK C

NELAP Certification #E84167

Submission Number: 23080476

Submission Number: Project Name:		23080476 MIROMAR LAKES WQM QTLY	מא מדורץ				QC F	QC REPORI	RT		
SUBMISSION NUMBER	SAMPLE NUMBER	METHOD	ANALYTE	ANALYSIS DATE/TIME	QC FLAG	QC VALUE	SAMPLE RESULT	LR RESULT	LR %RSD	SPK RESULT	STD-SPK %REC
23080485 - 001	691297	350.1	AMMONIA NITROGEN	08/10/2023 17:13	LR		0.034	0.035	1.84		
		350.1	AMMONIA NITROGEN	08/10/2023 17:50	MB	0.00	0.000				
23080418 - 001	691178	350.1	AMWONIA NITROGEN	08/10/2023 16:24	SPK	1.00	0.020			0.934	91.0
		350.1	AMMONIA NITROGEN	08/10/2023 17:07	STD	1.00	0.998				<b>39.8</b>
23080422 - 001	691182	351.2	TOTAL KJELDAHL NITROGEN	08/09/2023 16:21	LR		24.600	23.900	2.05		
		351.2	TOTAL KJELDAHL NITROGEN	08/09/2023 16:33	MB	0.00	0.000				
23080424 - 002	691187	351.2	TOTAL KJELDAHL NITROGEN	08/09/2023 17:09	SPK	2.00	06.790			2.710	95.8
		351.2	TOTAL KJELDAHL NITROGEN	08/09/2023 17:26	STD	2.00	2.090				104.0
23080484 - 001	691288	365.3	ORTHO PHOSPHORUS AS P	08/09/2023 11:00	LR		0.133	0.133	0.00		
		365.3	ORTHO PHOSPHORUS AS P	08/09/2023 12:20	MB	00.0	0.000				
23080424 - 001	691186	365.3	ORTHO PHOSPHORUS AS P	08/09/2023 14:21	SPK	0.20	0.197			0.407	105.0
		365.3	ORTHO PHOSPHORUS AS P	08/09/2023 13:28	STD	0.20	0.201				101.0
23080624 - 011	691508	365.3	TOTAL PHOSPHORUS AS P	09/01/2023 17:13	LR		0.210	0.212	0.84		
		365.3	TOTAL PHOSPHORUS AS P	09/01/2023 17.13	MB	0.00	0.000				
23080663 - 001	691585	365.3	TOTAL PHOSPHORUS AS P	09/01/2023 17:13	SPK	0.20	0.148			0.340	96.0
		365.3	TOTAL PHOSPHORUS AS P	09/01/2023 17:13	STD	0.20	0.185				92.3
23080476 - 001	691273	445.0	СНГОКОРНҮЦ А	08/15/2023 12:13	LR		6.404	6.490	0.96		
23080360 - 001	691098	SM2540D	TOTAL SUSPENDED SOLIDS	08/10/2023 12:00	LR		104.000	112.000	5.24		
		SM2540D	TOTAL SUSPENDED SOLIDS	08/10/2023 12:00	MB	0.00	0.000				
		SM2540D	TOTAL SUSPENDED SOLIDS	08/10/2023 12:00	STD	951.00	1012.000				106.4
23080526 - 001	691368	SM5210B	BIOCHEMICAL OXYGEN DEMAND	08/09/2023 13:12	LR		1930.000	1310.000	27.06		
		SM5210B	BIOCHEMICAL OXYGEN DEMAND	08/09/2023 13:12	MB	00.00	0.000				
23080424 - 001	691186	SYSTEA EASY	NITRATE+NITRITE AS N	08/09/2023 12:32	LR		2.320	2.320	0.00		
		SYSTEA EASY	NITRATE+NITRITE AS N	08/09/2023 12:23	MB	0.00	0.000				
23080424 - 002	691187	SYSTEA EASY	NITRATE+NITRITE AS N	08/09/2023 12:39	SPK	2.00	0.490			2.430	97.2

QC FLAGS: MB or BLK = METHOD BLANK LR = LAB REPLICATE MSD = MATRIX SPIKE DUPLICATE STD or LCS = STANDARD SPK or MS = MATRIX SPIKE

QC QC FLAG VALUE	12:24 STD 0.25	
ANALYSIS DATE/TIME	08/09/2023	
ANALYTE	NITRATE+NITRITE AS N	
METHOD	SYSTEA EASY	
SAMPLE NUMBER		
SUBMISSION NUMBER	-	Comments:

.

# **Attachment 5**

# **Surface Water Field Sheets**

STATION ID:	WOL # 1
LOCATION:	Upstreum of broge
DATE/TIME:	8/7123 (240
ALL TIMES ARE:	eTZ or CTZ (circle one)

WATERBODY TYPE:	Small Lake (>4 and <10HA)	Large Lake (>10HA)
(Circle One)	(collect samples in middle of open water)	(collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)

Water	Characteristics

TOTAL WATER DEI (Average of 2 measu	urements)		(feet)	Sample Depth	:	(feet)
STREAM FLOW:	(Circle One if applicable)		Flow Selow within Banks	Flood Condi	tions	(,
WATER LEVEL:	(Circle One)	Lo	w Normat High			
WATER SAMPLE C	OLLECTION DEVICE (Circle One)	Va	an Dorn Direct Grab with Sample Bottle	Dipper	Other	

Field Measure	The second	Meter ID	)#		Field Meas Read By: (	<b>urements</b> ïnitials)	
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1240	105	8.36	6.25	87.4	32.6	322.3	8.4
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
						5	

\*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: Samples immediately placed on ice?

Yes ) No

Haydon

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy Nullen, Connor PERSONNEL ON SITE: Son

**REMARKS:** 

STATION ID:

WQU#2

					OCATION:	_(	omer a	+ tom
				D	ATE/TIME:		omer a 8   7   2 3	1230
				A	LL TIMES A	RE:	ETZ or (circle of	CTZ one)
	WATERBO		ll Lake(>4 an ect samples in	d <10HA) middle of oper	n water)		10HA) es at selected lo	cation point)
			l Stream ect samples in	representative		arge River	es in representat	ive area)
1	Water Chara							
			m	(fee	t)	Sample De	epth:	1.5
	(Average of	2 measurements) (Circle One if		$\sim$				feet)
	STREAM FL				within Banks	Flood Co	onditions	
	WATER LEY		Lov			D	Others	
	WATER SA	MPLE COLLECTION DEV (Circle One)	ICE Var		Grab with le Bottle	Dipper	Other	
			Marta - 10			Field Meas		
	Id Measurer ne (24 hr.)	Surface Depth Collected	Meter IE pH* (SU)	D.O.(mg./L)	D.O. (%)	Read By: ( Temp (°C)	Conductivity	Turbidity
		(feet)	G.u.			22-7	(µmhos/cm)	(NTU)
10	230	1.5	8.41	7:0	100	32.1	314. 8	8.2 Turkidity
In	ne (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
	*nH of	preserved sample: numb	ar of drops of s	sulfuric acid adu	ded in field to	achieve nH c	f less than 2 <sup>.</sup>	
	0	es immediately placed on	6					Yes No
								U
WE	ATHER CO	NDITIONS: (circle) rainin	ng, clear, p	artly cloudy, N	windy			
PE	RSONNEL C	ON SITE: U	IM,	CH				
RE	MARKS:							

STATION ID:	WQ2#3
LOCATION:	adjacent tower
DATE/TIME:	8/7/23 1220
ALL TIMES ARE:	ETZ or CTZ (circle one)

	WATERBODY TYPE: (Circle One)		Small Lake (>4 and <10HA) (collect samples in middle of open water)			Large-Lake (>10HA) (collect samples at selected location point)			
			Small Stream (collect samples in representative area)				Large River (collect samples in representative area)		
	Water Chara	cteristics							
TOTAL WATER DEPTH: (Average of 2 measurements)			MM (feet)			)	Sample Depth:(feet)		
	STREAM FL	(Circle On OW: applicable.		NoT	Flow v	vithin Banks	Flood Co	onditions	
	WATER LEV	/EL: (Circle On	e)	Low	Norma	High			
	WATER SAMPLE COLLECTION (Circle One			E Van		Grab-with le Bottle	Dipper	Other	
Fie	eld Measuren	nents		Meter ID	#		Field Meas Read By: (		
-	ne (24 hr.)	Surface Depth Col (feet)	ected	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1	220	1.5		8.14	6.25	87.2	32.7	331.5	9.6
~	ne (24 hr.)	Bottom Depth Coll (feet)	ected	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
					L				
		preserved sample:		• • • • • • • • • • • • • • • • • • • •	ulfuric acid add	ded in field t	o achieve pH c	of less than 2:	Yes No
	Sample	es immediately place	ed on ice	97					CTES NO
W	EATHER CO	NDITIONS: (circle)	raining	, clear, p	artly cloudy, v	vindy			
PE	ERSONNEL C	ON SITE:	M	Mil	(M)				
					· I ·				
RE	EMARKS:								

			STATION ID:		NQL#	4	
			LOCATION:	L	22 jacono	t to bucip	
			DATE/TIME:	-4	817123	1155	
			ALL TIMES A	RE: C	ETZ_or	CTZ one)	
[							
WATERBO (Circle		Lake (>4 and <10HA) t samples in middle of o		arge Lake (> (collect samp	10HA) les at selected lo	cation point)	
	Small S (collect	Stream samples in representat		Large River (collect sampl	es in representat	tive area)	
Water Chara	cteristics						
(Average of	TOTAL WATER DEPTH:     nm     (feet)     Sample Depth:     I = S       (Average of 2 measurements)     (Circle One if     (feet)     (feet)						
STREAM FI	••••••••••••••••••••••••••••••••••••••		ow within Banks	Flood C	onditions		
WATER LE	VEL: (Circle One) MPLE COLLECTION DEVIC (Circle One)	E Van Dorn Di	rect Grab with ample Bottle	Dipper	Other		
Field Measurer	nante	Meter ID#		Field Meas Read By:			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU) D.O.(mg./		Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)	
1155	1.5	8.55 6.91	94.5	3202	312.1	12.1	
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU) D.O.(mg./	′L) D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)	
*pH of	preserved sample: number	of drops of sulfuric acid	added in field to	achieve pH	of less than 2:		
	es immediately placed on ice					(Pes) No	
WEATHER CO	NDITIONS: (circle) raining	, clear partly cloudy	, windy				
PERSONNEL (	DN SITE: MV	nich					
	La	top from Selection					
REMARKS:		1					

STATION ID:	WQL#5
LOCATION:	ad pront to brough
DATE/TIME:	8 7123
ALL TIMES ARE:	ETZ or CTZ (circle one)

WATERBODY TYPE:	Small Lake (>4 and <10HA)	Large Lake (>10HA)
(Circle One)	(collect samples in middle of open water)	(collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)

TOTAL WATER DEI (Average of 2 measu			(feet)		Sample Dept	th:	(feet)
STREAM FLOW:	(Circle One if applicable)	No Flow	Flow within	n Banks	Flood Con	ditions	
WATER LEVEL:	(Circle One)	Low	Normal	High			
WATER SAMPLE C	OLLECTION DEVICE (Circle One)	Van Dorn	Direct Gra Sample Bo		Dipper	Other _	

					Field Meas	urements	
Field Measure	ments	Meter ID	)#		Read By: (	(initials)	
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (ºC)	Conductivity (µmhos/cm)	Turbidity (NTU)

\*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining clear. partly cloudy, windy

PERSONNEL ON SITE:

Water Characteristics

(ourse personnel ded not allow ) accesso Sample Wasn't collected **REMARKS:** 

			SI	TATION ID:		WQL	#6	-
			LC	OCATION:		p Streen	1 6 NOFu 3 1210	ru.
			D	ATE/TIME:		8/712	3 1210	
			AI	L TIMES AF	re:	ETZ or circle o	CTZ	
								٦
WATERBOI (Circle		Lake (>4 and t samples in i	d <10HA) middle of open		arge Lake (> (collect sampl	IOHA) es at selected lo	cation point)	
	Small Sma Small Small Sma		epresentative a		arge River collect sample	es in representat	ive area)	
Water Chara	cteristics							7
	TOTAL WATER DEPTH: (feet) Sample Depth: (feet) (feet)							
STREAM FL	(Circle One if _OW: applicable)	No F	Flow v	vithin Banks	Flood C	onditions		
WATER LEV	VEL: (Circle One)	Low	Norma	al) High				
WATER SA	MPLE COLLECTION DEVIC (Circle One)	CE Van		Grab with le Bottle	Dipper	Other		_
Field Measurer	nents	Meter ID	#		Field Meas Read By:			
Time (24 hr.)	Surface Depth Collected	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity	Turbidity (NTU)	7
1210	(feet)	8.52	7.05	99.3	32.4	(µmhos/cm) 318° 4	10-1	
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)	
*pH of	preserved sample: number	r of drops of s	ulfuric acid ado	ded in field to	achieve pH o	of less than 2:		
	es immediately placed on ic				- 10015 C		Yes No	
WEATHER CO	NDITIONS: (circle) raining	, clear, p	artly cloudy, v	vindv				
PERSONNEL	inni	h, C	Al	intay				
		,,						
REMARKS:								

# **Attachment 6**

# Laboratory Data Compliance Memo



# **Data Compliance Report**

#### November 07, 2023

То	Mr. Bruce Bernard Manager of Field Operations Calvin, Giordano & Associates, Inc. 1800 Eller Drive, Suite 600 Fort Lauderdale, FL 33316	Contact No.	716-205-1977
Copy to	File	Email	Sheri.Finn@ghd.com
From	Sheri Finn/eew/28	Project No.	11225022
Project Name	Miromar Lakes Surface Water Sampling		
Subject	Analytical Results Compliance Report Surface Water Quality Monitoring Miromar Lakes Fort Myers, Florida August 2023		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

## 1. Compliance Review

Samples were collected in August 2023 in support of the Miromar Lakes Surface Water Quality Monitoring sampling. The analytical results are summarized in Table 1. All samples were prepared and analyzed within the method required holding times. The method blank results were non-detect. All reported laboratory control sample (LCS) analyses demonstrated acceptable accuracy. Laboratory duplicate analyses were performed for some analytes. All results were acceptable, indicating good analytical precision. The matrix spike (MS) results were evaluated per the laboratory limits. The MS analyses performed were acceptable, demonstrating good analytical accuracy.

Based on this compliance review, the results in Table 1 are acceptable for use.

Regards L-L-

Sheri Finn Analyst

# MIROMAR LAKES COMMUNITY DEVELOPMENT DISTRICT



# FINANCIAL STATEMENTS - OCTOBER 2023

FISCAL YEAR 2024

PREPARED BY:

JPWARD & ASSOCIATES, LLC, 2301 NORTHEAST 37<sup>TH</sup> STREET, FORT LAUDERDALE, FL 33308 T: 954-658-4900 E: JimWard@JPWardAssociates.com JPWard and Associates, LLC Community Development District Advisors

## Miromar Lakes Community Development District

## Table of Contents

Balance Sheet – All Funds	1-2
Statement of Revenue, Expenditures and Changes in Fund Balance	
General Fund	3-5
Debt Service Fund Series 2015 Series 2022	6 7

JPWard & Associates, LLC

2301 NORTHEAST 37 STREET FORT LAUDERDALE, FLORIDA 33308

## Miromar Lakes Community Development District Balance Sheet for the Period Ending October 31, 2023

			Governmental Fun	ds				
					Capital Projects			
			Debt Service Funds		Fund	Accoun General Long	t Groups General Fixed	Totals (Memorandum
	General Fund	Series 2012	Series 2015	Series 2022	Series 2022	Term Debt	Assets	(Memorandum Only)
Assets								
Cash and Investments								
General Fund - Invested Cash	\$ 1,079,436	\$-	\$-	\$-	\$-	\$-	\$ -	\$ 1,079,436
Debt Service Fund	-	-	-	-	-	-	-	-
Interest Account	-	-	-	28	-	-	-	28
Sinking Account	-	-	-	0	-	-	-	0
Reserve Account	-	-	452,250	-	-	-	-	452,250
Revenue	-	-	516,989	164,803	-	-	-	681,792
Prepayment Account	-	-	-	-	-	-	-	-
Escrow Fund Account	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Cost of Issuance	-	-	-	-	-	-	-	-
Due from Other Funds								
General Fund	-	-	1,615	2,266	-	-	-	3,881
Debt Service Fund(s)			-	-	-	-	-	-
Market Valuation Adjustments	-	-	-	-	-	-	-	-
Accrued Interest Receivable	-	-	-	-	-	-	-	-
Assessments Receivable	-	-	-	-	-	-	-	-
Accounts Receivable	-	-	-	-	-	-	-	-
Amount Available in Debt Service Funds	-	-	-	-	-	1,137,951	-	1,137,951
Amount to be Provided by Debt Service Funds	-	-	-	-	-	14,467,049	-	14,467,049
Investment in General Fixed Assets (net of								
depreciation)		-		-	-	-	36,514,917	36,514,917
Total Assets	s\$ 1,079,436	\$-	\$ 970,854	\$ 167,097	\$-	\$ 15,605,000	\$ 36,514,917	\$ 54,337,305

## Miromar Lakes Community Development District Balance Sheet for the Period Ending October 31, 2023

			Governmental Fur	nds					
			Debt Service Fund	s	Capital Projects Fund	Accoun General Long	t Groups General Fixed	Totals (Memorandum	
	General Fund	Series 2012	Series 2015	Series 2022	Series 2022	Term Debt	Assets	Only)	
Liabilities									
Accounts Payable & Payroll Liabilities	\$ 1,601	\$-	\$-	\$-	\$ -	\$-	\$-	\$ 1,601	
Due to Other Funds									
General Fund	-	-	-	-	-	-	-	-	
Debt Service Fund(s)	3,881	-	-	-	-	-	-	3,881	
Other Developer	-	-	-	-	-	-	-	-	
Bonds Payable									
Current Portion - Series 2012	-	-	-	-	-	0	-	-	
Current Portion - Series 2015	-	-	-	-	-	0	-	-	
Current Portion - Series 2022	-	-	-	-	-	0	-	-	
Long Term - Series 2012	-	-	-	-	-	0	-	-	
Long Term - Series 2015	-	-	-	-	-	8,645,000	-	8,645,000	
Long Term - Series 2022	-	-	-	-	-	6,960,000	-	6,960,000	
Total Liabilities	\$ 5,482	\$-	\$-	\$-	\$-	\$ 15,605,000	\$-	\$ 15,610,482	
Fund Equity and Other Credits									
Investment in General Fixed Assets	-	-	-	-	-	-	36,514,917	36,514,917	
Fund Balance	-	-	-	-	-	-	-	-	
Restricted									
Beginning: October 1, 2022 (Unaudited)	-	690,801	965,334	164,130	-	-	-	1,820,265	
Results from Current Operations	-	(690,801)	5,520	2,967	-	-	-	(682,313)	
Unassigned									
Beginning: October 1, 2022 (Unaudited)	1,050,708	-	-	-	-	-	-	-	
Allocation of Fund Balance									
System-Wide Reserves	200,000	-	-	-	-	-	-	-	
Reserve For First Three Months Operations	850,708	-	-	-	-	-	-	850,708	
Results of Current Operations	23,246	-	-	-	-	-	-	23,246	
Total Fund Equity and Other Credits		\$0	\$ 970,854	\$ 167,097	\$-	\$ -	\$ 36,514,917	\$ 38,726,822	
Total Liabilities, Fund Equity and Other Credits	\$ 1.079.436	\$ 0	\$ 970,854	\$ 167,097	\$ -	\$ 15,605,000	\$ 36,514,917	\$ 54,337,305	

### Miromar Lakes Community Development District General Fund Statement of Revenues, Expenditures and Changes in Fund Balance Through October 31, 2023

Description	October	Year to Date	Total Annual Budget	% of Budget
Revenue and Other Sources				
Carryforward	\$-	-	-	N/A
Interest				
Interest - General Checking	-	-	75	0%
Special Assessment Revenue				
Special Assessments - On-Roll	2,741	2,741	1,007,091	0%
Special Assessments - Off-Roll	45,253	45,253	181,010	25%
Miscellaneous Revenue	-	-	-	N/A
Easement Encroachments	-	-	-	N/A
Intragovernmental Transfer In		-	-	N/A
Total Revenue and Other Sources:	\$ 47,993	47,993	\$ 1,188,176	4%
expenditures and Other Uses				
Legislative				
Board of Supervisor's - Fees	1,000	1,000	12,000	8%
Board of Supervisor's - Taxes	77	77	918	8%
Executive				
Professional Management	3,500	3,500	42,000	8%
Financial and Administrative				
Audit Services	-	-	4,500	0%
Accounting Services	-	-	-	N/A
Assessment Roll Services	1,500	1,500	18,000	8%
Arbitrage	-	-	1,500	0%
Bond Re-amortization	-	-	-	N/A
Other Contractual Services				
Legal Advertising	305	305	1,200	25%
Trustee Services	-	-	9,300	0%
Dissemination	-	-	-	N/A
Bond Amortization Schedules	-	-	-	N/A
Property Appraiser/Tax Collector Fees	-	-	1,300	0%
Bank Services	-	-	250	0%
Travel and Per Diem				N/A

### Miromar Lakes Community Development District General Fund Statement of Revenues, Expenditures and Changes in Fund Balance Through October 31, 2023

۵

Description	October	Year to Date	Total Annual Budget	% of Budget
Postage, Freight & Messenger	70	70	300	23%
Insurance	17,300	17,300	8,100	214%
Printing & Binding	-	-	300	0%
Website Maintenance	-	-	1,200	0%
Office Supplies	-	-	-	N/A
Subscription & Memberships	-	-	175	0%
Legal Services				
Legal - General Counsel	385	385	18,000	2%
Legal - Encroachments	312	312	-	N/A
Other General Government Services				
Engineering Services - General Services	-	-	7,000	0%
Asset Maps/Cost Estimates	-	-	-	N/A
Asset Administrative Services	-	-	10,000	0%
Reserve Analysis	-	-	-	N/A
Encroachment Agreements	-	-	-	N/A
Contingencies	-	-	-	N/A
Sub-Total:	24,448	24,448	136,043	18%
Stormwater Management Services				
Professional Services				
Asset Management	-	-	46,000	0%
NPDES	-	-	3,500	0%
Mitigation Monitoring	-	-	-	N/A
Stormwater Management Services				
Water MGT - Debris Removal	-	-	-	N/A
Utility Services				
Electric - Aeration Systems	299	299	5,000	6%
Repairs & Maintenance				
Lake System				
Aquatic Weed Control	-	-	80,000	0%
Lake Bank Maintenance	-	-	2,500	0%
Water Quality Testing	-	-	19,000	0%
Water Control Structures	-	-	28,000	0%
Grass Carp Installation				N/A

## Miromar Lakes Community Development District General Fund Statement of Revenues, Expenditures and Changes in Fund Balance Through October 31, 2023

escription	00	tober	Yea	ar to Date		tal Annual Budget	% of Budge	
Litoral Shelf Barrier/Replanting		-		-		-	N/A	
Cane Toad Removal		-		-		37,000	0%	
Midge Fly Control		-		-		35,000	0%	
Aeration System		-		-		8,000	0%	
Fish Re-Stocking		-		-		98,000	0%	
Contingencies		-		-		15,375	0%	
Wetland System								
Routine Maintenance		-		-		54,000	0%	
Water Quality Testing		-		-		-	N/A	
Contingencies		-		-		2,700	0%	
Capital Outlay								
Aeration Systems		-		-		12,000	0%	
Littortal Shelf Replanting/Barrier		-		-		6,000	0%	
Lake Bank Restoration		-		-		108,500	0%	
Turbidity Screens		-		-		-	N/A	
Erosion Restoration		-		-		-	N/A	
Video Stormwater Pipes/Repairs		-		-		52,000	0%	
Contingencies		-		-		-	N/A	
Sub-Total:		299		299		612,575	0%	
Other Current Charges								
Hendry County - Panther Habitat Taxes		-		-		-	N/A	
Payroll Expenses		-		-		-	N/A	
Reserves for General Fund								
Water Management System		-		-		-	N/A	
Disaster Relief Reserve		-		-		-	N/A	
Sub-Total:		-		-		-	N/A	
Total Expenditures and Other Uses:	\$	24,747	\$	24,747	\$	748,618	3%	
Net Increase/ (Decrease) in Fund Balance		23,246		23,246		439,558		
Fund Balance - Beginning	1,050,708		1,050,708		1,050,708			
		073,954		1,073,954	\$	1,490,266		

## Miromar Lakes Community Development District Debt Service Fund - Series 2015 Bonds Statement of Revenues, Expenditures and Changes in Fund Balance Through October 31, 2023

					Tot	al Annual	% of
Description	Oct	tober	Year to	Date	ĺ	Budget	Budget
Revenue and Other Sources							
Carryforward	\$	-		-	\$	-	N/A
Interest Income							
Reserve Account		1,836		1,836		12,000	15%
Interest Account		-		-		-	N/A
Sinking Fund Account		-		-		-	N/A
Prepayment Account		-		-		-	N/A
Revenue Account		2,070		2,070		20	10348%
Special Assessment Revenue							
Special Assessments - On-Roll		1,615		1,615		593,699	0%
Special Assessments - Off-Roll		-		-		325,534	0%
Special Assessments - Prepayments		-		-		-	N/A
Net Inc (Dec) Fair Value Investments		-		-		-	N/A
Operating Transfers In (From Other Funds)		-		-		-	N/A
Bond Proceeds		-		-		-	N/A
Total Revenue and Other Sources:	\$	5,520	\$	5,520	\$	931,253	N/A
expenditures and Other Uses							
Debt Service							
Principal Debt Service - Mandatory							
Series 2015 Bonds		-		-	\$	510,000	0%
Principal Debt Service - Early Redemptions							
Series 2015 Bonds		-		-		-	N/A
Interest Expense							
Series 2015 Bonds		-		-		407,250	0%
Original Issue Discount		-		-		-	N/A
Operating Transfers Out (To Other Funds)		-		-		-	N/A
Total Expenditures and Other Uses:	\$	-		-	\$	917,250	N/A
Net Increase/ (Decrease) in Fund Balance		5,520		5,520		14,003	
Fund Balance - Beginning	9	65,334	96	5,334		-	
Fund Balance - Ending		70,854		0,854	\$	14,003	

## Miromar Lakes Community Development District Debt Service Fund - Series 2022 Bonds Statement of Revenues, Expenditures and Changes in Fund Balance Through October 31, 2023

					Tot	tal Annual	% of	
Description	0	ctober	Year to	Date	Budget		Budget	
Revenue and Other Sources								
Carryforward	\$	-		-	\$	-	N/A	
Interest Income								
Reserve Account		-		-		-	N/A	
Interest Account		0		0		-	N/A	
Sinking Fund Account		-		-		-	N/A	
Prepayment Account		-		-		-	N/A	
Revenue Account		701		701		-	N/A	
Escrow Fund Account		-		-		-	N/A	
Special Assessment Revenue								
Special Assessments - On-Roll		2,266		2,266		856,835	0%	
Special Assessments - Off-Roll		-		-		-	N/A	
Special Assessments - Prepayments		-		-		-	N/A	
Net Inc (Dec) Fair Value Investments		-		-		-	N/A	
Operating Transfers In (From Other Funds)		-		-		-	N/A	
Total Revenue and Other Sources:	\$	2,967	\$	2,967	\$	856,835	N/A	
xpenditures and Other Uses								
Debt Service								
Principal Debt Service - Mandatory								
Series 2022 Bonds		-		-	\$	635,000	N/A	
Principal Debt Service - Early Redemptions								
Series 2022 Bonds		-		-		-	N/A	
Interest Expense								
Series 2022 Bonds		-		-		168,324	N/A	
Original Issue Discount		-		-		-	N/A	
Operating Transfers Out (To Other Funds)		-		-		-	N/A	
Total Expenditures and Other Uses:	\$	-		-	\$	803,324	N/A	
Net Increase/ (Decrease) in Fund Balance		2,967		2,967		53,511		
Fund Balance - Beginning		164,130	16	4,130		-		
Fund Balance - Ending	\$	167,097	16	7,097	\$	53,511		