

March 9, 2021

Jason Tomassetti
City of Marco Island
50 Bald Eagle Drive
Marco Island, FL 34145

RE: Workorder: F2100738 MARCO

Dear Jason Tomassetti:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, February 18, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Josh Snead - Laboratory Manager
JSnead@aellab.com

Enclosures

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



SAMPLE SUMMARY

Workorder: F2100738 MARCO

Lab ID	Sample ID	Matrix	Date Collected	Date Received
F2100738001	BARFIELD_BRIDGE	Water	2/18/2021 07:15	2/18/2021 12:00
F2100738002	OLDE_MARCO	Water	2/18/2021 07:30	2/18/2021 12:00
F2100738003	JH_PARK	Water	2/18/2021 07:45	2/18/2021 12:00
F2100738004	KENDALL	Water	2/18/2021 08:00	2/18/2021 12:00
F2100738005	COLLIER_BRIDGE	Water	2/18/2021 08:20	2/18/2021 12:00
F2100738006	HC_CENTER	Water	2/18/2021 08:55	2/18/2021 12:00
F2100738007	LANDMARK	Water	2/18/2021 08:30	2/18/2021 12:00
F2100738008	LANDMARK_DUP	Water	2/18/2021 08:40	2/18/2021 12:00
F2100738009	SWALLOW	Water	2/18/2021 09:25	2/18/2021 12:00
F2100738010	W_WINTERBERRY_BRIDGE	Water	2/18/2021 09:15	2/18/2021 12:00
F2100738011	E_WINTERBERRY_BRIDGE	Water	2/18/2021 09:35	2/18/2021 12:00
F2100738012	MCILVANE	Water	2/18/2021 09:50	2/18/2021 12:00
F2100738013	HOLLYHOCK	Water	2/18/2021 10:10	2/18/2021 12:00
F2100738014	HUMMINGBIRD	Water	2/18/2021 10:20	2/18/2021 12:00
F2100738015	WINDMILL	Water	2/18/2021 10:35	2/18/2021 12:00
F2100738016	EQUIPMENT_BLANK	Water	2/18/2021 10:46	2/18/2021 12:00

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738001**
Sample ID: **BARFIELD_BRIDGE**

Date Received: 02/18/21 12:00 Matrix: Water
Date Collected: 02/18/21 07:15

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth			Analytical Method: DISRES					
Sample Depth	0.3		meters	1			2/18/2021 07:15	X^
Secchi Disc	2		meters	1			2/18/2021 07:15	X^
Total Depth	2.5		meters	1			2/18/2021 07:15	X^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	49560		umhos/cm	1			2/18/2021 07:15	F^
DO Saturation %	55.7		%	1			2/18/2021 07:15	F^
Dissolved Oxygen	3.6		mg/L	1			2/18/2021 07:15	F^
Salinity	32.42		ppt	1			2/18/2021 07:15	F^
Temperature	24.9		°C	1			2/18/2021 07:15	F^
pH	7.77		SU	1			2/18/2021 07:15	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	10		MPN/100 mL	10	10	10	2/18/2021 14:25	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen, Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.50		mg/L	1	0.20	0.12	3/9/2021 11:04	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	3.0		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.48	I	mg/L	1	0.50	0.20	2/23/2021 13:30	G
Analysis Desc: Total Phosphorus,E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.022		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	7.1	1	mg/m3	1	3.0	2.5	3/1/2021 18:15	G

Report ID: 1038664 - 349284

Page 3 of 33

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738001** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **BARFIELD_BRIDGE** Date Collected: 02/18/21 07:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.010	J4	mg/L	1	0.010	0.0060	2/19/2021 17:11	T
Nitrate + Nitrite	0.019	I	mg/L	1	0.020	0.010	2/19/2021 17:11	T
Nitrite (as N)	0.0090	I	mg/L	1	0.010	0.0080	2/19/2021 17:11	T

Lab ID: **F2100738002** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **OLDE_MARCO** Date Collected: 02/18/21 07:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 07:30	X^
Secchi Disc	2.5		meters	1			2/18/2021 07:30	X^
Total Depth	3		meters	1			2/18/2021 07:30	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	50072		umhos/cm	1			2/18/2021 07:30	F^
DO Saturation %	56.1		%	1			2/18/2021 07:30	F^
Dissolved Oxygen	3.64		mg/L	1			2/18/2021 07:30	F^
Salinity	32.79		ppt	1			2/18/2021 07:30	F^
Temperature	24.7		°C	1			2/18/2021 07:30	F^
pH	7.94		SU	1			2/18/2021 07:30	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10		MPN/100 mL	10	10	10	2/18/2021 14:25	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
--	--	--------------------------------	--	--	--	--	--	--

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738002** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **OLDE_MARCO** Date Collected: 02/18/21 07:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.37		mg/L	1	0.20	0.12	3/9/2021 11:06	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	5.0		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.37	I	mg/L	1	0.50	0.20	2/23/2021 13:30	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.005	U	mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	3.2		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0060	U	mg/L	1	0.010	0.0060	2/19/2021 17:13	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	2/19/2021 17:13	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:13	T

Lab ID: **F2100738003** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **JH_PARK** Date Collected: 02/18/21 07:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 07:45	X^
Secchi Disc	4		meters	1			2/18/2021 07:45	X^
Total Depth	4		meters	1			2/18/2021 07:45	X^

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738003**

Date Received: 02/18/21 12:00 Matrix: Water

Sample ID: **JH_PARK**

Date Collected: 02/18/21 07:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49110		umhos/cm	1			2/18/2021 07:45	F^
DO Saturation %	57.2		%	1			2/18/2021 07:45	F^
Dissolved Oxygen	3.68		mg/L	1			2/18/2021 07:45	F^
Salinity	32.08		ppt	1			2/18/2021 07:45	F^
Temperature	25.2		°C	1			2/18/2021 07:45	F^
pH	7.82		SU	1			2/18/2021 07:45	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	20		MPN/100 mL	10	10	10	2/18/2021 14:25	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation						
Total Nitrogen	0.48		mg/L	1	0.20	0.12	3/9/2021 11:09	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	0.92		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.46	I	mg/L	1	0.50	0.20	2/23/2021 13:30	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.036		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	3.2		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.021		mg/L	1	0.010	0.0060	2/19/2021 17:14	T
Nitrate + Nitrite	0.026		mg/L	1	0.020	0.010	2/19/2021 17:14	T

Report ID: 1038664 - 349284

Page 6 of 33

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738003** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **JH_PARK** Date Collected: 02/18/21 07:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:14	T

Lab ID: **F2100738004** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **KENDALL** Date Collected: 02/18/21 08:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
------------	---------	------	-------	----	--------------	--------------	----------	-----

FIELD PARAMETERS

Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 08:00	X^
Secchi Disc	1.5		meters	1			2/18/2021 08:00	X^
Total Depth	1.5		meters	1			2/18/2021 08:00	X^

Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	48425		umhos/cm	1			2/18/2021 08:00	F^
DO Saturation %	55.2		%	1			2/18/2021 08:00	F^
Dissolved Oxygen	3.88		mg/L	1			2/18/2021 08:00	F^
Salinity	31.56		ppt	1			2/18/2021 08:00	F^
Temperature	25.5		°C	1			2/18/2021 08:00	F^
pH	7.71		SU	1			2/18/2021 08:00	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY							
Enterococcus	10		MPN/100 mL	10		10	10	2/18/2021 14:25	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation							
Total Nitrogen	0.44		mg/L	1		0.20	0.12	3/9/2021 11:21	T

Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1							
Turbidity	1.0		NTU	1		0.10	0.10	2/18/2021 14:18	F

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738004** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **KENDALL** Date Collected: 02/18/21 08:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.41	I	mg/L	1	0.50	0.20	2/23/2021 13:30	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.026		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.020		mg/L	1	0.010	0.0060	2/19/2021 17:14	T
Nitrate + Nitrite	0.025		mg/L	1	0.020	0.010	2/19/2021 17:14	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:14	T

Lab ID: **F2100738005** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **COLLIER_BRIDGE** Date Collected: 02/18/21 08:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 08:20	X^
Secchi Disc	5		meters	1			2/18/2021 08:20	X^
Total Depth	5		meters	1			2/18/2021 08:20	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	48704		umhos/cm	1			2/18/2021 08:20	F^
DO Saturation %	47.8		%	1			2/18/2021 08:20	F^
Dissolved Oxygen	3.29		mg/L	1			2/18/2021 08:20	F^
Salinity	31.78		ppt	1			2/18/2021 08:20	F^

Report ID: 1038664 - 349284

Page 8 of 33

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738005**
 Sample ID: **COLLIER_BRIDGE**

Date Received: 02/18/21 12:00 Matrix: Water
 Date Collected: 02/18/21 08:20

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	25.2		°C	1			2/18/2021 08:20	F^
pH	7.77		SU	1			2/18/2021 08:20	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-
 QT Prep,Water Analytical Method: ENTEROLERT/ QUANTI-TRAY

Enterococcus	10	U	MPN/100 mL	10	10	10	2/18/2021 14:25	F
--------------	----	---	------------	----	----	----	-----------------	---

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water Analytical Method: Calculation

Total Nitrogen	0.44		mg/L	1	0.20	0.12	3/9/2021 11:31	T
----------------	------	--	------	---	------	------	----------------	---

Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	0.75		NTU	1	0.10	0.10	2/18/2021 14:18	F
-----------	------	--	-----	---	------	------	-----------------	---

Analysis Desc: TKN, E351.2, Water Preparation Method: Copper Sulfate Digestion
 Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.41	I	mg/L	1	0.50	0.20	2/23/2021 13:30	G
-------------------------	------	---	------	---	------	------	-----------------	---

Analysis Desc: Total Phosphorus, E365.3, Analysis Preparation Method: EPA 365.3
 Analytical Method: EPA 365.3

Total Phosphorus (as P)	0.019		mg/L	1	0.01	0.005	2/22/2021 18:00	G
-------------------------	-------	--	------	---	------	-------	-----------------	---

Analysis Desc: Chlorophylls, SM10200H, Water Analytical Method: SM 10200 H

Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Phaeophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G

Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F Analytical Method: SM 4500NO3-F (Low Level)

Nitrate (as N)	0.025		mg/L	1	0.010	0.0060	2/19/2021 17:15	T
Nitrate + Nitrite	0.029		mg/L	1	0.020	0.010	2/19/2021 17:15	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:15	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738006**
Sample ID: **HC_CENTER**

Date Received: 02/18/21 12:00 Matrix: Water
Date Collected: 02/18/21 08:55

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth			Analytical Method: DISRES					
Sample Depth	0.3		meters	1			2/18/2021 08:55	X^
Secchi Disc	2.5		meters	1			2/18/2021 08:55	X^
Total Depth	2.5		meters	1			2/18/2021 08:55	X^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	48893		umhos/cm	1			2/18/2021 08:55	F^
DO Saturation %	51.8		%	1			2/18/2021 08:55	F^
Dissolved Oxygen	3.57		mg/L	1			2/18/2021 08:55	F^
Salinity	31.92		ppt	1			2/18/2021 08:55	F^
Temperature	25		°C	1			2/18/2021 08:55	F^
pH	7.78		SU	1			2/18/2021 08:55	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	10	U	MPN/100 mL	10	10	10	2/18/2021 14:25	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen, Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.45		mg/L	1	0.20	0.12	3/9/2021 11:33	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	0.81		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.44	I	mg/L	1	0.50	0.20	2/23/2021 13:30	G
Analysis Desc: Total Phosphorus,E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.012		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	8.8		mg/m3	1	3.0	2.5	3/1/2021 18:15	G

Report ID: 1038664 - 349284

Page 10 of 33

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738006** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **HC_CENTER** Date Collected: 02/18/21 08:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0080	I	mg/L	1	0.010	0.0060	2/19/2021 17:16	T
Nitrate + Nitrite	0.010	I	mg/L	1	0.020	0.010	2/19/2021 17:16	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:16	T

Lab ID: **F2100738007** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **LANDMARK** Date Collected: 02/18/21 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 08:30	X^
Secchi Disc	3		meters	1			2/18/2021 08:30	X^
Total Depth	3		meters	1			2/18/2021 08:30	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	48016		umhos/cm	1			2/18/2021 08:30	F^
DO Saturation %	84.9		%	1			2/18/2021 08:30	F^
Dissolved Oxygen	5.9		mg/L	1			2/18/2021 08:30	F^
Salinity	31.29		ppt	1			2/18/2021 08:30	F^
Temperature	24.7		°C	1			2/18/2021 08:30	F^
pH	7.97		SU	1			2/18/2021 08:30	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	2/18/2021 14:25	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
--	--	--------------------------------	--	--	--	--	--	--

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738007** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **LANDMARK** Date Collected: 02/18/21 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.48		mg/L	1	0.20	0.12	3/9/2021 11:35	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	1.3		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.48	I	mg/L	1	0.50	0.20	2/23/2021 13:30	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.066		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	16		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0060	U	mg/L	1	0.010	0.0060	2/19/2021 17:17	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	2/19/2021 17:17	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:17	T

Lab ID: **F2100738008** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **LANDMARK_DUP** Date Collected: 02/18/21 08:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 08:40	X^
Secchi Disc	3		meters	1			2/18/2021 08:40	X^
Total Depth	3		meters	1			2/18/2021 08:40	X^

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738008**
 Sample ID: **LANDMARK_DUP**

Date Received: 02/18/21 12:00 Matrix: Water
 Date Collected: 02/18/21 08:40

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	48442		umhos/cm	1			2/18/2021 08:40	F^
DO Saturation %	84.8		%	1			2/18/2021 08:40	F^
Dissolved Oxygen	5.92		mg/L	1			2/18/2021 08:40	F^
Salinity	31.33		ppt	1			2/18/2021 08:40	F^
Temperature	24.7		°C	1			2/18/2021 08:40	F^
pH	7.97		SU	1			2/18/2021 08:40	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	41		MPN/100 mL	10	10	10	2/18/2021 14:25	F

Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.051		mg/L	1	0.01	0.005	2/22/2021 18:00	G

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation						
Total Nitrogen	0.71		mg/L	1	0.20	0.12	3/9/2021 11:38	T

Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	0.89		NTU	1	0.10	0.10	2/18/2021 14:18	F

Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.71		mg/L	1	0.50	0.20	2/23/2021 13:30	G

Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	18		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G

Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0060	U	mg/L	1	0.010	0.0060	2/19/2021 17:17	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	2/19/2021 17:17	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738008** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **LANDMARK_DUP** Date Collected: 02/18/21 08:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:17	T

Lab ID: **F2100738009** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **SWALLOW** Date Collected: 02/18/21 09:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
------------	---------	------	-------	----	--------------	--------------	----------	-----

FIELD PARAMETERS

Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 09:25	X^
Secchi Disc	2		meters	1			2/18/2021 09:25	X^
Total Depth	3.5		meters	1			2/18/2021 09:25	X^

Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	44304		umhos/cm	1			2/18/2021 09:25	F^
DO Saturation %	39.2		%	1			2/18/2021 09:25	F^
Dissolved Oxygen	2.75		mg/L	1			2/18/2021 09:25	F^
Salinity	28.4		ppt	1			2/18/2021 09:25	F^
Temperature	25.1		°C	1			2/18/2021 09:25	F^
pH	7.57		SU	1			2/18/2021 09:25	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	20		MPN/100 mL	10	10	10	2/18/2021 14:25	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.76		mg/L	1	0.20	0.12	3/9/2021 16:15	T

Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	1.7		NTU	1	0.10	0.10	2/18/2021 14:18	F

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738009** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **SWALLOW** Date Collected: 02/18/21 09:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.72		mg/L	1	0.50	0.20	2/23/2021 13:30	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.036		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	4.8		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.040		mg/L	1	0.010	0.0060	2/19/2021 17:18	T
Nitrate + Nitrite	0.041		mg/L	1	0.020	0.010	2/19/2021 17:18	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:18	T

Lab ID: **F2100738010** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **W_WINTERBERRY_BRIDGE** Date Collected: 02/18/21 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 09:15	X^
Secchi Disc	4		meters	1			2/18/2021 09:15	X^
Total Depth	4.5		meters	1			2/18/2021 09:15	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49551		umhos/cm	1			2/18/2021 09:15	F^
DO Saturation %	61.6		%	1			2/18/2021 09:15	F^
Dissolved Oxygen	4.24		mg/L	1			2/18/2021 09:15	F^
Salinity	32.4		ppt	1			2/18/2021 09:15	F^

Report ID: 1038664 - 349284

Page 15 of 33

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738010** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **W_WINTERBERRY_BRIDGE** Date Collected: 02/18/21 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	25		°C	1			2/18/2021 09:15	F^
pH	7.89		SU	1			2/18/2021 09:15	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-
 QT Prep,Water Analytical Method: ENTEROLERT/ QUANTI-TRAY

Enterococcus	10	U	MPN/100 mL	10	10	10	2/18/2021 14:25	F
--------------	-----------	----------	-------------------	-----------	----	----	-----------------	---

Analysis Desc: TKN,E351.2,Water Preparation Method: Copper Sulfate Digestion
 Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.35	I,J4	mg/L	1	0.50	0.20	2/23/2021 13:30	G
-------------------------	-------------	-------------	-------------	----------	------	------	-----------------	---

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water Analytical Method: Calculation

Total Nitrogen	0.37		mg/L	1	0.20	0.12	3/9/2021 16:18	T
----------------	-------------	--	-------------	----------	------	------	----------------	---

Analysis Desc: Turbidity,E180.1,Water Analytical Method: EPA 180.1

Turbidity	1.6		NTU	1	0.10	0.10	2/18/2021 14:18	F
-----------	------------	--	------------	----------	------	------	-----------------	---

Analysis Desc: Total Phosphorus,E365.3,Analysis Preparation Method: EPA 365.3
 Analytical Method: EPA 365.3

Total Phosphorus (as P)	0.026		mg/L	1	0.01	0.005	2/22/2021 18:00	G
-------------------------	--------------	--	-------------	----------	------	-------	-----------------	---

Analysis Desc: Chlorophylls, SM10200H,Water Analytical Method: SM 10200 H

Corrected Chlorophyll A	4.0		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G

Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F Analytical Method: SM 4500NO3-F (Low Level)

Nitrate (as N)	0.014		mg/L	1	0.010	0.0060	2/19/2021 17:19	T
Nitrate + Nitrite	0.015	I	mg/L	1	0.020	0.010	2/19/2021 17:19	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:19	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738011** Date Received: 02/18/21 12:00 Matrix: Water
Sample ID: **E_WINTERBERRY_BRIDGE** Date Collected: 02/18/21 09:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth			Analytical Method: DISRES					
Sample Depth	0.3		meters	1			2/18/2021 09:35	X^
Secchi Disc	4		meters	1			2/18/2021 09:35	X^
Total Depth	5.5		meters	1			2/18/2021 09:35	X^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	49177		umhos/cm	1			2/18/2021 09:35	F^
DO Saturation %	80		%	1			2/18/2021 09:35	F^
Dissolved Oxygen	5.47		mg/L	1			2/18/2021 09:35	F^
Salinity	32.12		ppt	1			2/18/2021 09:35	F^
Temperature	25.4		°C	1			2/18/2021 09:35	F^
pH	7.87		SU	1			2/18/2021 09:35	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep, Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	10	U	MPN/100 mL	10	10	10	2/18/2021 14:25	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen, Calculated, Water			Analytical Method: Calculation					
Total Nitrogen	0.49		mg/L	1	0.20	0.12	3/9/2021 16:25	T
Analysis Desc: Turbidity, E180.1, Water			Analytical Method: EPA 180.1					
Turbidity	1.3		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN, E351.2, Water			Preparation Method: Copper Sulfate Digestion					
			Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.46	I	mg/L	1	0.50	0.20	2/25/2021 10:16	G
Analysis Desc: Total Phosphorus, E365.3, Analysis			Preparation Method: EPA 365.3					
			Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.009	I	mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H, Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	4.8		mg/m3	1	3.0	2.5	3/1/2021 18:15	G

Report ID: 1038664 - 349284

Page 17 of 33

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738011** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **E_WINTERBERRY_BRIDGE** Date Collected: 02/18/21 09:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.021		mg/L	1	0.010	0.0060	2/19/2021 17:26	T
Nitrate + Nitrite	0.025		mg/L	1	0.020	0.010	2/19/2021 17:26	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:26	T

Lab ID: **F2100738012** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **MCILVANE** Date Collected: 02/18/21 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 09:50	X^
Secchi Disc	2.5		meters	1			2/18/2021 09:50	X^
Total Depth	3.25		meters	1			2/18/2021 09:50	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49633		umhos/cm	1			2/18/2021 09:50	F^
DO Saturation %	70.6		%	1			2/18/2021 09:50	F^
Dissolved Oxygen	4.85		mg/L	1			2/18/2021 09:50	F^
Salinity	32.47		ppt	1			2/18/2021 09:50	F^
Temperature	24.9		°C	1			2/18/2021 09:50	F^
pH	7.89		SU	1			2/18/2021 09:50	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10		MPN/100 mL	10	10	10	2/18/2021 14:25	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
--	--	--------------------------------	--	--	--	--	--	--

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738012**
 Sample ID: **MCILVANE**

Date Received: 02/18/21 12:00 Matrix: Water
 Date Collected: 02/18/21 09:50

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.50		mg/L	1	0.20	0.12	3/9/2021 16:27	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	3.0		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.49	I	mg/L	1	0.50	0.20	2/25/2021 10:16	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.031		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	4.0		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.014		mg/L	1	0.010	0.0060	2/19/2021 17:28	T
Nitrate + Nitrite	0.015	I	mg/L	1	0.020	0.010	2/19/2021 17:28	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:28	T

Lab ID: **F2100738013**
 Sample ID: **HOLLYHOCK**

Date Received: 02/18/21 12:00 Matrix: Water
 Date Collected: 02/18/21 10:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 10:10	X^
Secchi Disc	2		meters	1			2/18/2021 10:10	X^
Total Depth	2		meters	1			2/18/2021 10:10	X^

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738013**
Sample ID: **HOLLYHOCK**

Date Received: 02/18/21 12:00 Matrix: Water
Date Collected: 02/18/21 10:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49625		umhos/cm	1			2/18/2021 10:10	F^
DO Saturation %	64.4		%	1			2/18/2021 10:10	F^
Dissolved Oxygen	4.36		mg/L	1			2/18/2021 10:10	F^
Salinity	32.44		ppt	1			2/18/2021 10:10	F^
Temperature	26		°C	1			2/18/2021 10:10	F^
pH	7.79		SU	1			2/18/2021 10:10	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	2/18/2021 14:25	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation						
Total Nitrogen	0.47		mg/L	1	0.20	0.12	3/9/2021 16:30	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	1.3		NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.47	I	mg/L	1	0.50	0.20	2/25/2021 10:16	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.022		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	5.6		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0060	U	mg/L	1	0.010	0.0060	2/19/2021 17:29	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	2/19/2021 17:29	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738013** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **HOLLYHOCK** Date Collected: 02/18/21 10:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:29	T

Lab ID: **F2100738014** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **HUMMINGBIRD** Date Collected: 02/18/21 10:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
------------	---------	------	-------	----	--------------	--------------	----------	-----

FIELD PARAMETERS

Analysis Desc: FIELD - Sample Depth Analytical Method: DISRES

Sample Depth	0.3		meters	1			2/18/2021 10:20	X^
Secchi Disc	2		meters	1			2/18/2021 10:20	X^
Total Depth	2		meters	1			2/18/2021 10:20	X^

Analysis Desc: Data entry of field measurements Analytical Method: Field Measurements

Conductivity	48819		umhos/cm	1			2/18/2021 10:20	F^
DO Saturation %	54.1		%	1			2/18/2021 10:20	F^
Dissolved Oxygen	3.67		mg/L	1			2/18/2021 10:20	F^
Salinity	31.85		ppt	1			2/18/2021 10:20	F^
Temperature	25.8		°C	1			2/18/2021 10:20	F^
pH	7.78		SU	1			2/18/2021 10:20	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water Analytical Method: ENTEROLERT/ QUANTI-TRAY

Enterococcus	10		MPN/100 mL	10	10	10	2/18/2021 14:25	F
--------------	-----------	--	-------------------	-----------	----	----	-----------------	---

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water Analytical Method: Calculation

Total Nitrogen	0.51		mg/L	1	0.20	0.12	3/9/2021 16:31	T
----------------	-------------	--	-------------	----------	------	------	----------------	---

Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	1.6		NTU	1	0.10	0.10	2/18/2021 14:18	F
-----------	------------	--	------------	----------	------	------	-----------------	---

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738014**
 Sample ID: **HUMMINGBIRD**

Date Received: 02/18/21 12:00 Matrix: Water
 Date Collected: 02/18/21 10:20

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.51		mg/L	1	0.50	0.20	2/25/2021 10:16	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.022		mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	3.2		mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0080	I	mg/L	1	0.010	0.0060	2/19/2021 17:29	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	2/19/2021 17:29	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:29	T

Lab ID: **F2100738015**
 Sample ID: **WINDMILL**

Date Received: 02/18/21 12:00 Matrix: Water
 Date Collected: 02/18/21 10:35

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			2/18/2021 10:35	X^
Secchi Disc	3.5		meters	1			2/18/2021 10:35	X^
Total Depth	4		meters	1			2/18/2021 10:35	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	48928		umhos/cm	1			2/18/2021 10:35	F^
DO Saturation %	64.9		%	1			2/18/2021 10:35	F^
Dissolved Oxygen	4.43		mg/L	1			2/18/2021 10:35	F^
Salinity	31.94		ppt	1			2/18/2021 10:35	F^

Report ID: 1038664 - 349284

Page 22 of 33

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738015**
 Sample ID: **WINDMILL**

Date Received: 02/18/21 12:00 Matrix: Water
 Date Collected: 02/18/21 10:35

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	25.6		°C	1			2/18/2021 10:35	F^
pH	7.85		SU	1			2/18/2021 10:35	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-
 QT Prep,Water Analytical Method: ENTEROLERT/ QUANTI-TRAY

Enterococcus	10	U	MPN/100 mL	10	10	10	2/18/2021 14:25	F
--------------	----	---	------------	----	----	----	-----------------	---

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water Analytical Method: Calculation

Total Nitrogen	0.47		mg/L	1	0.20	0.12	3/9/2021 16:34	T
----------------	------	--	------	---	------	------	----------------	---

Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	1.7		NTU	1	0.10	0.10	2/18/2021 14:18	F
-----------	-----	--	-----	---	------	------	-----------------	---

Analysis Desc: TKN, E351.2, Water Preparation Method: Copper Sulfate Digestion
 Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.47	I	mg/L	1	0.50	0.20	2/25/2021 10:16	G
-------------------------	------	---	------	---	------	------	-----------------	---

Analysis Desc: Total Phosphorus, E365.3, Analysis Preparation Method: EPA 365.3
 Analytical Method: EPA 365.3

Total Phosphorus (as P)	0.031		mg/L	1	0.01	0.005	2/22/2021 18:00	G
-------------------------	-------	--	------	---	------	-------	-----------------	---

Analysis Desc: Chlorophylls, SM10200H, Water Analytical Method: SM 10200 H

Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Phaeophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G

Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F Analytical Method: SM 4500NO3-F (Low Level)

Nitrate (as N)	0.0060	U	mg/L	1	0.010	0.0060	2/19/2021 17:30	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	2/19/2021 17:30	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:30	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: F2100738 MARCO

Lab ID: **F2100738016** Date Received: 02/18/21 12:00 Matrix: Water
 Sample ID: **EQUIPMENT_BLANK** Date Collected: 02/18/21 10:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	1	U	MPN/100 mL	1	1	1	2/18/2021 14:25	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.12	U	mg/L	1	0.20	0.12	3/9/2021 16:35	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	0.10	U	NTU	1	0.10	0.10	2/18/2021 14:18	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.20	U	mg/L	1	0.50	0.20	2/25/2021 10:16	G
Analysis Desc: Total Phosphorus,E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.005	U	mg/L	1	0.01	0.005	2/22/2021 18:00	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	3/1/2021 18:15	G
Analysis Desc: Nitrate+Nitrite Low- Level,SM4500NO3F			Analytical Method: SM 4500NO3-F (Low Level)					
Nitrate (as N)	0.0060	U	mg/L	1	0.010	0.0060	2/19/2021 17:32	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	2/19/2021 17:32	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	2/19/2021 17:32	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS QUALIFIERS

Workorder: F2100738 MARCO

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- [1] SAMPLES 1-16 FILTERED: 2/19/21 12:33
- J4 Estimated Result

PROJECT ACCEPTABLE LIMITS

- < 0.3 Total Nitrogen
- < 0.46 Total Phosphorus
- < 4.9 Chlorophyll A
- < 130 Enterococcus
- > 42 DO Saturation %
- 6.5-8.5 pH

LAB QUALIFIERS

- F DOH Certification #E84492(AEL-F)(FL NELAC Certification)
- F^ Not Certified
- G DOH Certification #E82001(AEL-G)(FL NELAC Certification)
- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: F2100738 MARCO

QC Batch: WCAf/1136 Analysis Method: EPA 180.1
QC Batch Method: EPA 180.1 Prepared:
Associated Lab Samples: F2100738001, F2100738002, F2100738003, F2100738004, F2100738005, F2100738006, F2100738007,

METHOD BLANK: 3790648

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Turbidity	NTU	0.10	0.10 U

METHOD BLANK: 3790653

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Turbidity	NTU	0.10	0.10 U

QC Batch: MICf/1069 Analysis Method: ENTEROLERT/ QUANTI-TRAY
QC Batch Method: ENTEROLERT/ QUANTI-TRAY Prepared:
Associated Lab Samples: F2100738001, F2100738002, F2100738003, F2100738004, F2100738005, F2100738006, F2100738007,

METHOD BLANK: 3791444

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Microbiology			
Enterococcus	MPN/100	1	1 U

QC Batch: WCAf/2057 Analysis Method: SM 4500NO3-F (Low Level)
QC Batch Method: SM 4500NO3-F (Low Level) Prepared:
Associated Lab Samples: F2100738001, F2100738002, F2100738003, F2100738004, F2100738005, F2100738006, F2100738007,

METHOD BLANK: 3792423

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrite (as N)	mg/L	0.0080	0.0080 U
Nitrate (as N)	mg/L	0.0060	0.0060 U
Nitrate + Nitrite	mg/L	0.010	0.010 U

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: F2100738 MARCO

QC Batch: WCAI/2058 Analysis Method: SM 4500NO3-F (Low Level)
QC Batch Method: SM 4500NO3-F (Low Level) Prepared:
Associated Lab Samples: F2100738011, F2100738012, F2100738013, F2100738014, F2100738015, F2100738016

METHOD BLANK: 3792427

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrite (as N)	mg/L	0.0080	0.0080 U
Nitrate (as N)	mg/L	0.0060	0.0060 U
Nitrate + Nitrite	mg/L	0.010	0.010 U

QC Batch: WCAg/1534 Analysis Method: EPA 365.3
QC Batch Method: EPA 365.3 Prepared: 02/22/2021 12:41
Associated Lab Samples: F2100738001, F2100738002, F2100738003, F2100738004, F2100738005, F2100738006, F2100738007

METHOD BLANK: 3793177

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Phosphorus (as P)	mg/L	0.005	0.005 U

QC Batch: WCAg/1537 Analysis Method: EPA 365.3
QC Batch Method: EPA 365.3 Prepared: 02/22/2021 13:46
Associated Lab Samples: F2100738008, F2100738009, F2100738010, F2100738011, F2100738012, F2100738013, F2100738014,

METHOD BLANK: 3793196

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Phosphorus (as P)	mg/L	0.005	0.005 U

QC Batch: WCAg/1544 Analysis Method: EPA 351.2
QC Batch Method: Copper Sulfate Digestion Prepared: 02/22/2021 16:30
Associated Lab Samples: F2100738001, F2100738002, F2100738003, F2100738004, F2100738005, F2100738006, F2100738007,

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: F2100738 MARCO

METHOD BLANK: 3794102

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Kjeldahl Nitrogen	mg/L	0.20	0.20 U

QC Batch: WCAg/1586 Analysis Method: EPA 351.2
 QC Batch Method: Copper Sulfate Digestion Prepared: 02/24/2021 16:55
 Associated Lab Samples: F2100738011, F2100738012, F2100738013, F2100738014, F2100738015, F2100738016

METHOD BLANK: 3797303

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Kjeldahl Nitrogen	mg/L	0.20	0.20 U

QC Batch: WCAg/1613 Analysis Method: SM 10200 H
 QC Batch Method: SM 10200 H Prepared:
 Associated Lab Samples: F2100738001, F2100738002, F2100738003, F2100738004, F2100738005, F2100738006, F2100738007,

METHOD BLANK: 3800317

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Pheophytin A	mg/m3	2.5	2.5 U

METHOD BLANK: 3800319

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Pheophytin A	mg/m3	2.5	2.5 U

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2100738 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2100738001	BARFIELD_BRIDGE			EPA 180.1	WCAf/1136
F2100738002	OLDE_MARCO			EPA 180.1	WCAf/1136
F2100738003	JH_PARK			EPA 180.1	WCAf/1136
F2100738004	KENDALL			EPA 180.1	WCAf/1136
F2100738005	COLLIER_BRIDGE			EPA 180.1	WCAf/1136
F2100738006	HC_CENTER			EPA 180.1	WCAf/1136
F2100738007	LANDMARK			EPA 180.1	WCAf/1136
F2100738008	LANDMARK_DUP			EPA 180.1	WCAf/1136
F2100738009	SWALLOW			EPA 180.1	WCAf/1136
F2100738010	W_WINTERBERRY_BRIDGE			EPA 180.1	WCAf/1136
F2100738011	E_WINTERBERRY_BRIDGE			EPA 180.1	WCAf/1136
F2100738012	MCILVANE			EPA 180.1	WCAf/1136
F2100738013	HOLLYHOCK			EPA 180.1	WCAf/1136
F2100738014	HUMMINGBIRD			EPA 180.1	WCAf/1136
F2100738015	WINDMILL			EPA 180.1	WCAf/1136
F2100738016	EQUIPMENT_BLANK			EPA 180.1	WCAf/1136
F2100738001	BARFIELD_BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738002	OLDE_MARCO			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738003	JH_PARK			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738004	KENDALL			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738005	COLLIER_BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738006	HC_CENTER			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738007	LANDMARK			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738008	LANDMARK_DUP			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738009	SWALLOW			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738010	W_WINTERBERRY_BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738011	E_WINTERBERRY_BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738012	MCILVANE			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738013	HOLLYHOCK			ENTEROLERT/ QUANTI-TRAY	MICf/1069

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2100738 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2100738014	HUMMINGBIRD			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738015	WINDMILL			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738016	EQUIPMENT_BLANK			ENTEROLERT/ QUANTI-TRAY	MICf/1069
F2100738001	BARFIELD_BRIDGE			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738002	OLDE_MARCO			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738003	JH_PARK			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738004	KENDALL			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738005	COLLIER_BRIDGE			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738006	HC_CENTER			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738007	LANDMARK			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738008	LANDMARK_DUP			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738009	SWALLOW			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738010	W_WINTERBERRY_BRID GE			SM 4500NO3-F (Low Level)	WCAt/2057
F2100738011	E_WINTERBERRY_BRIDG E			SM 4500NO3-F (Low Level)	WCAt/2058
F2100738012	MCILVANE			SM 4500NO3-F (Low Level)	WCAt/2058
F2100738013	HOLLYHOCK			SM 4500NO3-F (Low Level)	WCAt/2058
F2100738014	HUMMINGBIRD			SM 4500NO3-F (Low Level)	WCAt/2058
F2100738015	WINDMILL			SM 4500NO3-F (Low Level)	WCAt/2058
F2100738016	EQUIPMENT_BLANK			SM 4500NO3-F (Low Level)	WCAt/2058
F2100738001	BARFIELD_BRIDGE	EPA 365.3	WCAG/1534	EPA 365.3	WCAG/1536
F2100738002	OLDE_MARCO	EPA 365.3	WCAG/1534	EPA 365.3	WCAG/1536
F2100738003	JH_PARK	EPA 365.3	WCAG/1534	EPA 365.3	WCAG/1536
F2100738004	KENDALL	EPA 365.3	WCAG/1534	EPA 365.3	WCAG/1536
F2100738005	COLLIER_BRIDGE	EPA 365.3	WCAG/1534	EPA 365.3	WCAG/1536
F2100738006	HC_CENTER	EPA 365.3	WCAG/1534	EPA 365.3	WCAG/1536

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2100738 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2100738007	LANDMARK	EPA 365.3	WCAG/1534	EPA 365.3	WCAG/1536
F2100738008	LANDMARK_DUP	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738009	SWALLOW	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738010	W_WINTERBERRY_BRIDGE	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738011	E_WINTERBERRY_BRIDGE	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738012	MCILVANE	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738013	HOLLYHOCK	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738014	HUMMINGBIRD	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738015	WINDMILL	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738016	EQUIPMENT_BLANK	EPA 365.3	WCAG/1537	EPA 365.3	WCAG/1538
F2100738001	BARFIELD_BRIDGE	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738002	OLDE_MARCO	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738003	JH_PARK	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738004	KENDALL	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738005	COLLIER_BRIDGE	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738006	HC_CENTER	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738007	LANDMARK	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738008	LANDMARK_DUP	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738009	SWALLOW	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738010	W_WINTERBERRY_BRIDGE	Copper Sulfate Digestion	WCAG/1544	EPA 351.2	WCAG/1558
F2100738011	E_WINTERBERRY_BRIDGE	Copper Sulfate Digestion	WCAG/1586	EPA 351.2	WCAG/1603
F2100738012	MCILVANE	Copper Sulfate Digestion	WCAG/1586	EPA 351.2	WCAG/1603
F2100738013	HOLLYHOCK	Copper Sulfate Digestion	WCAG/1586	EPA 351.2	WCAG/1603
F2100738014	HUMMINGBIRD	Copper Sulfate Digestion	WCAG/1586	EPA 351.2	WCAG/1603
F2100738015	WINDMILL	Copper Sulfate Digestion	WCAG/1586	EPA 351.2	WCAG/1603
F2100738016	EQUIPMENT_BLANK	Copper Sulfate Digestion	WCAG/1586	EPA 351.2	WCAG/1603
F2100738001	BARFIELD_BRIDGE			SM 10200 H	WCAG/1613
F2100738002	OLDE_MARCO			SM 10200 H	WCAG/1613

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2100738 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2100738003	JH_PARK			SM 10200 H	WCAG/1613
F2100738004	KENDALL			SM 10200 H	WCAG/1613
F2100738005	COLLIER_BRIDGE			SM 10200 H	WCAG/1613
F2100738006	HC_CENTER			SM 10200 H	WCAG/1613
F2100738007	LANDMARK			SM 10200 H	WCAG/1613
F2100738008	LANDMARK_DUP			SM 10200 H	WCAG/1613
F2100738009	SWALLOW			SM 10200 H	WCAG/1613
F2100738010	W_WINTERBERRY_BRIDGE			SM 10200 H	WCAG/1613
F2100738011	E_WINTERBERRY_BRIDGE			SM 10200 H	WCAG/1613
F2100738012	MCILVANE			SM 10200 H	WCAG/1613
F2100738013	HOLLYHOCK			SM 10200 H	WCAG/1613
F2100738014	HUMMINGBIRD			SM 10200 H	WCAG/1613
F2100738015	WINDMILL			SM 10200 H	WCAG/1613
F2100738016	EQUIPMENT_BLANK			SM 10200 H	WCAG/1613
F2100738001	BARFIELD_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2100738001	BARFIELD_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2100738001	BARFIELD_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738002	OLDE_MARCO	Calculation	CLCt/	Calculation	CLCt/
F2100738002	OLDE_MARCO	DISRES	FLDx/	DISRES	FLDx/
F2100738002	OLDE_MARCO	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738003	JH_PARK	Calculation	CLCt/	Calculation	CLCt/
F2100738003	JH_PARK	DISRES	FLDx/	DISRES	FLDx/
F2100738003	JH_PARK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738004	KENDALL	Calculation	CLCt/	Calculation	CLCt/
F2100738004	KENDALL	DISRES	FLDx/	DISRES	FLDx/
F2100738004	KENDALL	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738005	COLLIER_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2100738005	COLLIER_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2100738005	COLLIER_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738006	HC_CENTER	Calculation	CLCt/	Calculation	CLCt/
F2100738006	HC_CENTER	DISRES	FLDx/	DISRES	FLDx/
F2100738006	HC_CENTER	Field Measurements	FLDf/	Field Measurements	FLDf/

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2100738 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2100738007	LANDMARK	Calculation	CLCt/	Calculation	CLCt/
F2100738007	LANDMARK	DISRES	FLDx/	DISRES	FLDx/
F2100738007	LANDMARK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738008	LANDMARK_DUP	Calculation	CLCt/	Calculation	CLCt/
F2100738008	LANDMARK_DUP	DISRES	FLDx/	DISRES	FLDx/
F2100738008	LANDMARK_DUP	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738009	SWALLOW	Calculation	CLCt/	Calculation	CLCt/
F2100738009	SWALLOW	DISRES	FLDx/	DISRES	FLDx/
F2100738009	SWALLOW	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738010	W_WINTERBERRY_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2100738010	W_WINTERBERRY_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2100738010	W_WINTERBERRY_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738011	E_WINTERBERRY_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2100738011	E_WINTERBERRY_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2100738011	E_WINTERBERRY_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738012	MCILVANE	Calculation	CLCt/	Calculation	CLCt/
F2100738012	MCILVANE	DISRES	FLDx/	DISRES	FLDx/
F2100738012	MCILVANE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738013	HOLLYHOCK	Calculation	CLCt/	Calculation	CLCt/
F2100738013	HOLLYHOCK	DISRES	FLDx/	DISRES	FLDx/
F2100738013	HOLLYHOCK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738014	HUMMINGBIRD	Calculation	CLCt/	Calculation	CLCt/
F2100738014	HUMMINGBIRD	DISRES	FLDx/	DISRES	FLDx/
F2100738014	HUMMINGBIRD	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738015	WINDMILL	Calculation	CLCt/	Calculation	CLCt/
F2100738015	WINDMILL	DISRES	FLDx/	DISRES	FLDx/
F2100738015	WINDMILL	Field Measurements	FLDf/	Field Measurements	FLDf/
F2100738016	EQUIPMENT_BLANK	Calculation	CLCt/	Calculation	CLCt/

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.





Work Order: F2100738
Client: City of Marco Island
Project ID: MARCO

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.
Analysis: All holding times were met.

III. Method

Analysis: SM 4500NO3-F (Low Level)
Preparation:

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: All acceptance criteria were met.
Spikes: The matrix spike recovery of Nitrate for F2100738001 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and %RPD were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required.
Internal Standard: All acceptance criteria were met.
Samples: All acceptance criteria were met.
Other: All acceptance criteria were met.
Serial Dilution: All acceptance criteria were met.
Duplicates: All acceptance criteria were met.



Work Order: F2100738
Client: City of Marco Island
Project ID: MARCO

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.
Analysis: All holding times were met.

III. Method

Analysis: EPA 351.2
Preparation: Copper Sulfate Digestion

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: .
Spikes The matrix spike duplicate recovery of TKN for F2100738010 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS), Matrix Spike (MS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. No further corrective action was required.
Samples: All acceptance criteria were met.
Other: All acceptance criteria were met.
Duplicates: The relative percent difference (RPD) for the following analyte(s) in the replicate matrix spike analyses of F2100738010 was outside control criteria: TKN. Failing RPD indicates inconsistency in the parent sample matrix. All spike recoveries in the associated LCS were within acceptable limits, indicating the analytical batch was in control. No further corrective action was needed.



Advanced Environmental Laboratories, Inc.
 Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: ER4492
 Jacksonville: 6681 Southpoint Pkwy., FL 32216 - 904.363.9350 • Lab ID: ER8574
 Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: ER11095

Altamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.337.1594 • Lab ID: ES3076
 Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: ER4492
 Jacksonville: 6681 Southpoint Pkwy., FL 32216 - 904.363.9350 • Lab ID: ER8574
 Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: ER11095

Gainesville
 Miramar
 Tampa



Client Name: City of Marco Island Project Name: MARCO

Address: 50 Bald Eagle Dr. Project Number: PO Number:

Phone: 239-300-1462 FDEP Facility No.: FDEP Facility Addr:

FAX: Jason Tomassetti

Contact: Jason Tomassetti

Turn Around Time: Standard X Rush Special Instructions:

AEL Profile #: 658884 ADAPT EQUIS Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED				BOTTLE SIZE & TYPE	
			DATE	TIME			NO2/NO3/TURB	TKN/TP/TN	CHLOR-A	ENTERO		
	BARFIELD_BRIDGE	Grab	2/18/21	0715	SW	4	X	X	X	X		
	OLDE_MARCO	Grab		0730	SW	4	X	X	X	X		
	JH_PARK	Grab		0745	SW	4	X	X	X	X		
	KENDALL	Grab		0800	SW	4	X	X	X	X		
	COLLIER_BRIDGE	Grab		0820	SW	4	X	X	X	X		
	HC_CENTER	Grab		0855	SW	4	X	X	X	X		
	LANDMARK	Grab		0830	SW	4	X	X	X	X		
	LANDMARK_DUP	Grab		0840	SW	4	X	X	X	X		
	SWALLOW	Grab		0625	SW	4	X	X	X	X		
	WEST_WINTERBERRY_BRIDGE	Grab		0915	SW	4	X	X	X	X		

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Received on ice: Yes No Temp taken from sample: Temp from blank Where required, pH checked

DCN: AD-D054web Form last revised 08/07/2019 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

Temp. when received (observed) 7.4 °C Temp. when received (corrected) 7.4 °C

FOR DRINKING WATER USE:
 (When PWS information not otherwise supplied) PWS ID: _____
 Contact Person: _____
 Supplier of Water: _____
 Site-Address: _____



Advanced Environmental Laboratories, Inc.

- Altamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E83076
- Fort Myers: 13110 Westlins Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84482
- Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
- Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095
- Gainesville: 4665 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
- Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
- Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84599

Client Name: **City of Marco Island** Project Name: **MARCO**

Address: **50 Bald Eagle Dr.** Project Number: **PO Number:**

Phone: **239-300-1462** FDEP Facility No:

FAX: **Jason Tomassetti** FDEP Facility Addr:

Contact: **Special Instructions:**

Turn Around Time: **Standard X Rush**

AEL Profile #: **65884** ADAPT EQUIS Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED				BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
			DATE	TIME			NO2/NO3/TURB	TKN/TP/TN	CHLOR-A	ENTERO		
	EAST_WINTERBERRY_BRIDGE	Grab	2/18/21	0935	SW	4	X	X	X	X		011
	MCILVANE	Grab		0950	SW	4	X	X	X	X		012
	HOLLYHOCK	Grab		1010	SW	4	X	X	X	X		013
	HUMMINGBIRD	Grab		1030	SW	4	X	X	X	X		014
	WINDMILL	Grab		1035	SW	4	X	X	X	X		015
	EQUIPMENT_BLANK	Grab		1046	SW	4	X	X	X	X		016

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge Preservation Code: I = ice H=(HCl) S=(H2SO4) N=(HNO3) T=(Sodium Thiosulfate)

Received on ice Yes No Temp taken from sample Temp from blank Where required, pH checked

DCIN: AD-D051web-Fejm last revised 08/07/2019 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V (E: 1A)

Relinquished by: *[Signature]* Date: 2/18/21 Time: 1200 Received by: *[Signature]* Date: 2/18/21 Time: 1200

FOR DRINKING WATER USE:
 (When PWS Information not otherwise supplied) PWS ID: _____
 Contact Person: _____
 Supplier of Water: _____
 Site-Address: _____

ADVANCED ENVIROMENTAL LABORATORIES INC

FIELD YSI MULTI-METER & HACH 2100Q

DAILY CCV FOR FIELD METERS

YSI - METER ID :	F4N	Micro TPW TURBIDITY ID:	F3V
YSI - PROBE ID :	F4N-1		

PRE WORK DAY CHECK	DATE:	2/17/2021	TIME:	16:30
--------------------	-------	-----------	-------	-------

PH 7 BUFFER VALUE :	7.00	+ / - .2 PH UNITS	READING:	7.01
PH 7 BUFFER ID :	FR2-5E1	pH 7= -60mV to +60mV	mV READING:	—————
COND. STAND. VALUE:	30100	+ / - 5%	READING:	30111
COND. STAND. ID:	FR2-2J1			

pH 4 should be at least 165 mV more positive than pH 7 , pH 10 should be at least 165 mV more negative than pH 7

DO TEMP.FROM METER :			READING:	22.0
DO MG/L CHART:			READING:	8.72
DO MG/L FROM METER :			READING:	8.81
DO % READING FROM METER:			READING:	100.8

TURBIDITY STD: ID :	10NTU	RANGE (9 - 11)	READING:	NA
---------------------	-------	------------------	----------	----

C.C.V. CHECK DONE BEFORE FIELD USE BY :

POST WORK DAY CHECK	DATE:	2/18/2021	TIME:	14:30
---------------------	-------	-----------	-------	-------

PH 7 BUFFER VALUE :	7.00	+ / - .2 PH UNITS	READING:	6.97
PH 7 BUFFER ID :	FR2-5E1	pH 7= -60mV to +60mV	mV READING:	—————
COND. STAND. VALUE:	30100	+ / - 5%	READING:	29207
COND. STAND. ID:	FR2-2J1			

pH 4 should be at least 165 mV more positive than pH 7 , pH 10 should be at least 165 mV more negative than pH 7

DO TEMP.FROM METER :			READING:	22.8
DO MG/L CHART:			READING:	8.58
DO MG/L FROM METER :			READING:	8.68
DO % READING FROM METER:			READING:	100.7

TURBIDITY STD: ID :	10NTU	RANGE (9 - 11)	READING:	NA
---------------------	-------	------------------	----------	----

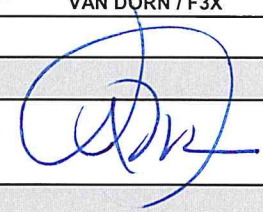
C.C.V. CHECK DONE AFTER FIELD USE BY :

Advanced Environmental Laboratories, Inc

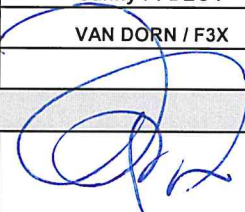
Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
---------------------	-----------------------------	-------------------	-------------------------------

Water Sample Parameters								
SAMPLE LOCATION	BARFIELD BRIDGE	BARFIELD BRIDGE	OLDE MARCO	OLDE MARCO	JH PARK	JH PARK	KENDALL	KENDALL
SAMPLE TIME	0715	0720	0730	0735	0745	0750	0800	0805
SAMPLE DEPTH	0.30m top	2.0m	0.30m top	2.0m	0.30m top	2.5m	0.30m top	1.0m
TOTAL DEPTH	2.5m	2.5m	3.0m	3.0m	4.0m	4.0m	1.5m	1.5m
TEMP /C	24.7	24.9	24.8	24.7	25.2	25.2	25.5	25.5
D.O. mg / L	3.60	3.55	3.64	3.79	3.68	3.69	3.88	3.70
D.O. % sat.	55.7	55.4	56.1	59.6	57.2	59.1	55.2	53.2
CONDUCTIVITY(umhos)	49560	49708	50072	50129	49110	49122	48425	48445
SALINITY ppt.	32.42	32.52	32.79	32.84	32.08	32.08	31.56	31.58
pH su.	7.77	7.8	7.94	7.94	7.82	7.83	7.71	7.72
SECCHI DEPTH	2.0m	2.0m	2.5m	2.5m	4.0m	4.0m	1.5m	1.5m

FIELD COMMENTS:	Outgoing Tide Low Flow	Outgoing Tide Low Flow	Outgoing Tide Low Flow	Outgoing Tide Low Flow
WEATHER :	Sunny 78 DEG F	Sunny 78 DEG F	Sunny 78 DEG F	Sunny 78 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X

Authentication			
SAMPLED BY: (PRINT) /	Paul Manard / AEL	Sampler's Signature	Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			2/18/21

Advanced Environmental Laboratories, Inc

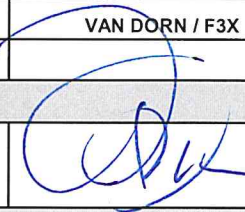
Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS					
Water Sample Parameters								
SAMPLE LOCATION	COLLIER BRIDGE	COLLIER BRIDGE	HC CENTER	HC CENTER	LANDMARK	LANDMARK	LANDMARK DUP	LANDMARK DUP
SAMPLE TIME	0820	0825	0855	0900	0830	0835	0840	0845
SAMPLE DEPTH	0.30m top	4.0m	0.30m top	1.5m	0.30m top	2.0m	0.30m top	2.0m
TOTAL DEPTH	5.0m	5.0m	2.5m	2.5m	3.0m	3.0m	3.0m	3.0m
TEMP /C	25.2	25.3	25.0	25.0	24.7	25.5	24.7	25.3
D.O. mg / L	3.29	3.28	3.57	4.45	5.90	6.24	5.92	6.25
D.O. % sat.	47.8	47.9	51.8	64.6	84.9	91.0	84.8	91.4
CONDUCTIVITY(umhos)	48704	48907	48893	49000	48016	49166	48442	49352
SALINITY ppt.	31.78	31.92	31.92	32.00	31.29	32.12	31.33	32.14
pH su.	7.77	7.74	7.78	7.78	7.97	7.99	7.97	7.98
SECCHI DEPTH	5.0m	5.0m	2.5m	2.5m	3.0m	3.0m	3.0m	3.0m
FIELD COMMENTS:	Outgoing Tide Low Flow		Outgoing Tide No Flow		Outgoing Tide No Flow. Acvtive Construction in adjoining lot		Outgoing Tide No Flow. Acvtive Construction in adjoining lot	
WEATHER :	Sunny 71 DEG F		Sunny 75 DEG F		Sunny 71 DEG F		Sunny 77 DEG F	
FIELD EQUIP. USED: ID # :	VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X	
Authentication								
SAMPLED BY: (PRINT) /	Paul Manard / AEL			Sampler's Signature				Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES								2/18/21

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
---------------------	-----------------------------	-------------------	-------------------------------

Water Sample Parameters								
SAMPLE LOCATION	SWALLOW	SWALLOW	WEST WB BRIDGE	WEST WB BRIDGE	EAST WB BRIDGE	EAST WB BRIDGE	MCILVANE	MCILVANE
SAMPLE TIME	0925	0930	0915	0920	0935	0940	0950	0955
SAMPLE DEPTH	0.30m top	2.5m	0.30m top	3.0m	0.30m top	4.0m	0.30m top	2.0m
TOTAL DEPTH	3.5m	3.5m	4.5m	4.5m	5.5m	5.5m	3.25m	3.25m
TEMP /C	25.1	25.0	25.0	24.9	25.4	25.3	24.9	24.8
D.O. mg / L	2.75	2.44	4.24	5.08	5.47	4.26	4.85	3.99
D.O. % sat.	39.2	35.5	61.6	73.8	80.0	62.3	70.6	58.0
CONDUCTIVITY(umhos)	44304	49650	49551	49556	49177	49410	49633	49780
SALINITY ppt.	28.40	32.48	32.40	32.41	32.12	32.29	32.47	32.58
pH su.	7.57	7.70	7.89	7.88	7.87	7.85	7.89	7.87
SECCHI DEPTH	2.0m	2.0m	4.0m	4.0m	4.0m	4.0m	2.5m	2.5m

FIELD COMMENTS:	Outgoing Tide No Flow. Shady	Outgoing Tide No Flow	Outgoing Tide Med Flow	Outgoing Tide No Flow
WEATHER :	75 DEG F	76 DEG F	78 DEG F	78 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X

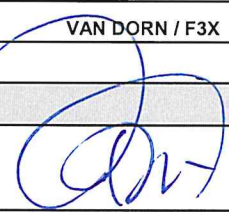
Authentication			
SAMPLED BY: (PRINT) /	Paul Manard / AEL	Sampler's Signature	Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			2/18/21

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
---------------------	-----------------------------	-------------------	-------------------------------

Water Sample Parameters								
SAMPLE LOCATION	HOLLY HOCK	HOLLY HOCK	HUMMING BIRD	HUMMING BIRD	WINDMILL	WINDMILL	EQUIP BLANK	
SAMPLE TIME	1010	1015	1020	1025	1035	1040	1046	
SAMPLE DEPTH	0.30m top	1.0m	0.30m top	1.0m	0.30m top	2.5m	NA	
TOTAL DEPTH	2.0m	2.0m	2.0m	2.0m	4.0m	4.0m	NA	
TEMP /C	26.0	25.9	25.8	25.9	25.6	25.4	NA	
D.O. mg / L	4.36	3.48	3.67	2.88	4.43	3.71	NA	
D.O. % sat.	64.4	51.6	54.1	42.7	64.9	54.1	NA	
CONDUCTIVITY(umhos)	49625	49634	48819	49014	48928	49454	NA	
SALINITY ppt.	32.44	32.45	31.85	31.99	31.94	32.32	NA	
pH su.	7.79	7.78	7.78	7.73	7.85	7.83	NA	
SECCHI DEPTH	2.0m	2.0m	2.0m	2.0m	3.5m	3.5m	NA	

FIELD COMMENTS:	Outgoing tide No Flow	Outgoing tide No Flow	Outgoing tide Loe Flow. Shady under bridge. Lots of Bats and droppings.	NA
WEATHER :	78 DEG F	78 DEG F	78 DEG F	78 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X

Authentication			
SAMPLED BY: (PRINT) /	Paul Manard / AEL	Sampler's Signature	Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			2/18/21