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POLLUTION CONTROL

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Report To: Tonia Selmeski
City of Marco Island
50 Bald Eagle Drive
Marco Island, FL 34145

Collected by: CCPCD
Collection Date: 01/15/2020
Submittal Date: 01/15/2020 @ 13:27

Report Date : 2/10/2020
Report Time : 2:16:36PM

Project: MARCO
Report#: 0120_MRCO_I

Data Qualifier Code Key:

- I: The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- U: The compound was analyzed for but not detected
- Q: Sample held beyond acceptable holding time
- J: Estimate value; the reported value failed to meet established criteria for either precision or accuracy
- V: Analyte detected in both the sample and the associated method blank
- B: Colony count is generated from plates in which the total number of colonies is outside the method indicated ideal range
- Y: The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
- G: Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.

Analyses performed using EPA or Standard Methods and certified to meet NELAC Standards. Data qualifiers assigned according to F.A.C. 62-160. Results contained in this report relate only to the samples collected.



Respectfully Submitted,

Nosbel Perez

Nosbel Perez
Laboratory Supervisor

ANALYTICAL RESULTS

Report # 0120_MRCO_I

Location: OLDE_MARCO		Field ID: AF58656		Lab ID: AF58656		Collect Date/Time: 1/15/20 08:23				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.057	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	16:07
Nitrogen- Total Kjeldahl	EPA 351.2	0.567			mg/L	0.230	0.500	1	01/21/2020	13:42
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/15/2020	17:06
pH	FDEP FT1100	7.6	6.5 - 8.5		SU			1	01/15/2020	08:23
Dissolved Oxygen Saturation	FDEP FT1500	85.8	>42		%			1	01/15/2020	08:23
Nitrogen- Total	Nitrogen- Total	0.567	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	2.3	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	6.4			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	18:50

ANALYTICAL RESULTS

Report # 0120_MRCO_I

Location: JH_PARK		Field ID: AF58657		Lab ID: AF58657		Collect Date/Time: 1/15/20 09:16				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130		MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.053	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	17:15
Nitrogen- Total Kjeldahl	EPA 351.2	0.669			mg/L	0.230	0.500	1	01/21/2020	13:40
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/15/2020	17:08
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	09:16
Dissolved Oxygen Saturation	FDEP FT1500	87.9	>42		%			1	01/15/2020	09:16
Nitrogen- Total	Nitrogen- Total	0.669	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	3.1	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	3.2			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	18:51

ANALYTICAL RESULTS

Report # 0120_MRCO_I

Location: HC_CENTER		Field ID: AF58658		Lab ID: AF58658		Collect Date/Time: 1/15/20 09:52				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	

CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130		MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.053	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	16:14
Nitrogen- Total Kjeldahl	EPA 351.2	0.567			mg/L	0.230	0.500	1	01/21/2020	13:43
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/15/2020	17:11
pH	FDEP FT1100	7.6	6.5 - 8.5		SU			1	01/15/2020	09:52
Dissolved Oxygen Saturation	FDEP FT1500	87.3	>42		%			1	01/15/2020	09:52
Nitrogen- Total	Nitrogen- Total	0.567	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	2.5	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	1.7			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	18:52

ANALYTICAL RESULTS

Report # 0120_MRCO_I

Location: COLLIER_BRIDGE		Field ID: AF58659		Lab ID: AF58659		Collect Date/Time: 1/15/20 10:22				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.018		I	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.055	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	14:44
Nitrogen- Total Kjeldahl	EPA 351.2	0.709			mg/L	0.230	0.500	1	01/21/2020	13:39
Nitrate-Nitrite (N)	EPA 353.2	0.018		I	mg/L	0.011	0.020	1	01/15/2020	17:13
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	10:22
Dissolved Oxygen Saturation	FDEP FT1500	94	>42		%			1	01/15/2020	10:22
Nitrogen- Total	Nitrogen- Total	0.727	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	3.4	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.10			mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	2.2			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	18:52

ANALYTICAL RESULTS

Report # 0120_MRCO_I

Location: KENDALL		Field ID: AF58660		Lab ID: AF58660		Collect Date/Time: 1/15/20 10:49				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56

Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.057	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	14:53
Nitrogen- Total Kjeldahl	EPA 351.2	0.725			mg/L	0.230	0.500	1	01/21/2020	13:44
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:01
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	10:49
Dissolved Oxygen Saturation	FDEP FT1500	88.4	>42		%			1	01/15/2020	10:49
Nitrogen- Total	Nitrogen- Total	0.725	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	3.2	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.40			mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	5.7			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	18:57

ANALYTICAL RESULTS

Report # 0120_MRCO_I

Location: BARFIELD_BRIDGE		Field ID: AF58661		Lab ID: AF58661		Collect Date/Time: 1/15/20 08:43				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.051	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	17:09
Nitrogen- Total Kjeldahl	EPA 351.2	0.674			mg/L	0.230	0.500	1	01/21/2020	14:23
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:08
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	08:43
Dissolved Oxygen Saturation	FDEP FT1500	88.5	>42		%			1	01/15/2020	08:43
Nitrogen- Total	Nitrogen- Total	0.674	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	4.0	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	5.5			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:00

ANALYTICAL RESULTS

Report # 0120_MRCO_II

Location: LANDMARK		Field ID: AF58662		Lab ID: AF58662		Collect Date/Time: 1/15/20 09:55				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.061	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	17:12

Nitrogen- Total Kjeldahl	EPA 351.2	0.658		mg/L	0.230	0.500	1	01/21/2020	13:21
Nitrate-Nitrite (N)	EPA 353.2	0.011		U mg/L	0.011	0.020	1	01/16/2020	11:11
pH	FDEP FT1100	7.8	6.5 - 8.5	SU			1	01/15/2020	09:55
Dissolved Oxygen Saturation	FDEP FT1500	97.2	>42	%			1	01/15/2020	09:55
Nitrogen- Total	Nitrogen- Total	0.658	<0.3	mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	2.1	<4.9	mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed					1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	0.75		NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete					1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U mg/L	0.002	0.005	1	01/15/2020	19:01

ANALYTICAL RESULTS

Report # 0120_MRCO_II

Location: W_WINTERBERRY_BRIDGE		Field ID: AF58663		Lab ID: AF58663		Collect Date/Time: 1/15/20 11:07			
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time
CC-Nitrate-N	CC-Nitrate-N	0.035			mg/L	0.011	0.020	1	01/16/2020 15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020 15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020 09:30
Phosphorus- Total	EPA 200.8	0.078	<0.046	I	mg/L	0.032	0.080	8	01/22/2020 15:03
Nitrogen- Total Kjeldahl	EPA 351.2	0.540			mg/L	0.230	0.500	1	01/21/2020 13:22
Nitrate-Nitrite (N)	EPA 353.2	0.035			mg/L	0.011	0.020	1	01/16/2020 11:13
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020 11:07
Dissolved Oxygen Saturation	FDEP FT1500	87	>42		%			1	01/15/2020 11:07
Nitrogen- Total	Nitrogen- Total	0.575	<0.3		mg/L	0.230	0.500	1	02/05/2020 10:25
Chlorophyll a	SM 10200 H	4.4	<4.9		mg/m3	1.00	1.00	1	01/31/2020 09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020 07:55
Pheophytin	SM 10200 H	1.20			mg/m3	1.00	1.00	1	01/31/2020 09:45
Turbidity	SM 2130 B	6.0			NTU	0.10	0.50	1	01/17/2020 07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020 12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020 19:02

ANALYTICAL RESULTS

Report # 0120_MRCO_II

Location: MCILVAINE		Field ID: AF58664		Lab ID: AF58664		Collect Date/Time: 1/15/20 12:00			
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020 15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020 15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020 09:30
Phosphorus- Total	EPA 200.8	0.069	<0.046	I	mg/L	0.032	0.080	8	01/22/2020 15:06
Nitrogen- Total Kjeldahl	EPA 351.2	0.230		U	mg/L	0.230	0.500	1	01/21/2020 14:22
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020 11:16

pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	12:00
Dissolved Oxygen Saturation	FDEP FT1500	84.7	>42		%			1	01/15/2020	12:00
Nitrogen- Total	Nitrogen- Total	0.230	<0.3	U	mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	4.5	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	2.40			mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	8.6			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:03

ANALYTICAL RESULTS

Report # 0120_MRCO_II

Location: WINDMILL		Field ID: AF58665		Lab ID: AF58665		Collect Date/Time: 1/15/20 08:26				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.047	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	15:18
Nitrogen- Total Kjeldahl	EPA 351.2	0.543			mg/L	0.230	0.500	1	01/21/2020	13:19
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:18
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	08:26
Dissolved Oxygen Saturation	FDEP FT1500	88.3	>42		%			1	01/15/2020	08:26
Nitrogen- Total	Nitrogen- Total	0.543	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	4.7	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	2.20			mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	5.9			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:04

ANALYTICAL RESULTS

Report # 0120_MRCO_II

Location: HUMMINGBIRD		Field ID: AF58666		Lab ID: AF58666		Collect Date/Time: 1/15/20 09:20				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.054	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	15:55
Nitrogen- Total Kjeldahl	EPA 351.2	0.703			mg/L	0.230	0.500	1	01/21/2020	13:24
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:20
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	09:20
Dissolved Oxygen Saturation	FDEP FT1500	88.6	>42		%			1	01/15/2020	09:20

Nitrogen- Total	Nitrogen- Total	0.703	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	3.6	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	2.2			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:05

ANALYTICAL RESULTS

Report # 0120_MRCO_II

Location: HOLLYHOCK		Field ID: AF58667		Lab ID: AF58667		Collect Date/Time: 1/15/20 09:03				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.067	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	15:58
Nitrogen- Total Kjeldahl	EPA 351.2	0.696			mg/L	0.230	0.500	1	01/21/2020	13:29
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:23
pH	FDEP FT1100	7.7	6.5 - 8.5		SU			1	01/15/2020	09:03
Dissolved Oxygen Saturation	FDEP FT1500	76	>42		%			1	01/15/2020	09:03
Nitrogen- Total	Nitrogen- Total	0.696	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	5.4	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.90			mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	7.5			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:06

ANALYTICAL RESULTS

Report # 0120_MRCO_II

Location: E_WINTERBERRY_BRIDGE		Field ID: AF58668		Lab ID: AF58668		Collect Date/Time: 1/15/20 11:27				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.054	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	16:01
Nitrogen- Total Kjeldahl	EPA 351.2	0.640			mg/L	0.230	0.500	1	01/21/2020	13:17
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:25
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	11:27
Dissolved Oxygen Saturation	FDEP FT1500	96.1	>42		%			1	01/15/2020	11:27
Nitrogen- Total	Nitrogen- Total	0.640	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	4.5	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45

Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	5.0			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:08

ANALYTICAL RESULTS

Report # 0120_MRCO_II

<i>Location:</i> SWALLOW		<i>Field ID:</i> AF58669		<i>Lab ID:</i> AF58669		<i>Collect Date/Time:</i> 1/15/20 10:42				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						8	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.061	<0.046	I	mg/L	0.032	0.080	8	01/22/2020	16:04
Nitrogen- Total Kjeldahl	EPA 351.2	0.781			mg/L	0.230	0.500	1	01/21/2020	13:13
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	12:25
pH	FDEP FT1100	7.8	6.5 - 8.5		SU			1	01/15/2020	10:42
Dissolved Oxygen Saturation	FDEP FT1500	77.1	>42		%			1	01/15/2020	10:42
Nitrogen- Total	Nitrogen- Total	0.781	<0.3		mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	4.1	<4.9		mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	3.5			NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:12

ANALYTICAL RESULTS

Report # 0120_MRCO_II

<i>Location:</i> MARCO_BLANK		<i>Field ID:</i> AF58670		<i>Lab ID:</i> AF58670		<i>Collect Date/Time:</i> 1/15/20 11:35				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	1	<130	U	MPN/100 mL	1	1	1	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						1	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.004	<0.046	U	mg/L	0.004	0.010	1	01/22/2020	15:12
Nitrogen- Total Kjeldahl	EPA 351.2	0.230		U	mg/L	0.230	0.500	1	01/21/2020	13:18
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:47
pH	FDEP FT1100	NA	6.5 - 8.5		SU			1	01/15/2020	11:35
Dissolved Oxygen Saturation	FDEP FT1500	NA	>42		%			1	01/15/2020	11:35
Nitrogen- Total	Nitrogen- Total	0.230	<0.3	U	mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	1.0	<4.9	U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45

Turbidity	SM 2130 B	0.10		U	NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:15

ANALYTICAL RESULTS

Report # 0120_MRCO_I

<i>Location:</i> MARCO_BLANK		<i>Field ID:</i> AF58671		<i>Lab ID:</i> AF58671		<i>Collect Date/Time:</i> 1/15/20 09:25				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	01/16/2020	15:28
Enterococci	Enterolert/QT	1	<130	U	MPN/100 mL	1	1	1	01/15/2020	15:56
Digestion for Metals	EPA 200.8	Completed						1	01/21/2020	09:30
Phosphorus- Total	EPA 200.8	0.004	<0.046	U	mg/L	0.004	0.010	1	01/22/2020	15:15
Nitrogen- Total Kjeldahl	EPA 351.2	0.230		U	mg/L	0.230	0.500	1	01/21/2020	13:31
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	01/16/2020	11:28
pH	FDEP FT1100	NA	6.5 - 8.5		SU			1	01/15/2020	09:25
Dissolved Oxygen Saturation	FDEP FT1500	NA	>42		%			1	01/15/2020	09:25
Nitrogen- Total	Nitrogen- Total	0.230	<0.3	U	mg/L	0.230	0.500	1	02/05/2020	10:25
Chlorophyll a	SM 10200 H	1.0	<4.9	U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	01/17/2020	07:55
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	01/31/2020	09:45
Turbidity	SM 2130 B	0.10		U	NTU	0.10	0.50	1	01/17/2020	07:50
Digestion for TKN	SM 4500 NorgD	Complete						1	01/17/2020	12:03
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	01/15/2020	19:09



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Wednesday, January 15, 2020

Sampler: Kamila Perez

Meter/Notes: Geoff Rosenaw



Certificate No

[4262.01](#)

Client: City of Marco Island
Project: Marco Island
Run: I

CCV: Morning		Sonde / Handheld	ProDSS #8	Serial #:	16A101840		
Date/Time:	1/15/20 7:06 AM	Operator:	Josh Gravlin	Project:	MARCO		
*** Conductivity ***					Associated Calibration File:		
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail	Calibration_8_011020.xlsm			
70000	13302	70047	Pass				
*** pH ***							
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail				
4.00	12628	3.98	Pass				
7.00				All CCV Results Pass?			
10.00				Yes			
*** Dissolved Oxygen ***							
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure	
CCV Readings --->	8.66	100.8	23.3	Pass	8.597	766	
Notes:							
CCV: Afternoon		Date/Time:	1/15/2020 12:46	Operator:	Geoff Rosenaw		
*** Conductivity ***							
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail				
10000	11626	9984	Pass				
70000	13302	71289	Pass				
*** pH ***							
pH (QA Criteria +.2)	CDI#	Reading	Pass/Fail				
4.00							
7.00	13179	6.99	Pass				
10.00	13196	10.01	Pass				
*** Dissolved Oxygen ***					All CCV Results Pass?		
					Yes		
*** Dissolved Oxygen ***							
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure	
CCV Readings --->	8.46	100.3	24.3	Pass	8.427	765.1	
Notes:							
Surface Water Field Workbook Rev 16.3 Effective January 10th, 2019							

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_I_011520
3 of 11

Program: MARCO

Run: I

Sample Collector: Kamila Perez

Meter / Notes: Geoff Rosenaw

Date: 1/15/2020

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	ODO (% LocalB)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58656	8:23	OLDE_MARCO	22.7	51984	34.24	85.8	6.13	7.62	0.30		1.10	1.10
Collection Device		Pole Sampler; CDI: 10882		Cleaning Protocol: J		Flow: [REDACTED]		Staff Gauge:		pH < 2:		YES
Comments: Visible outgoing tide. Erosion control issues upstream of site. One photo by GGR.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58661	8:43	BARFIELD_BRIDGE	22.9	51952	34.22	88.5	6.30	7.76	0.30		1.70	1.00
AF58661B	8:45	BARFIELD_BRIDGE	22.9	51978	34.24	87.7	6.24	7.79	1.40		1.70	1.00
Collection Device		Pole Sampler; CDI: 10882		Cleaning Protocol: J		Flow: [REDACTED]		Staff Gauge:		pH < 2:		YES
Comments: Boat passed during collection of turbidity sample. No visible impact to sample. Visible outgoing tide.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58657	9:16	JH_PARK	23.2	50692	33.28	87.9	6.26	7.76	0.30		2.10	1.00
AF58657B	9:18	JH_PARK	23.2	50752	33.33	87.7	6.24	7.78	1.80		2.10	1.00
Collection Device		Pole Sampler; CDI: 10882		Cleaning Protocol: J		Flow: [REDACTED]		Staff Gauge:		pH < 2:		YES
Comments: Visible outgoing tide. Vegetative debris in water.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58671	9:25	JH_PARK							[REDACTED]			
Collection Device		Sample Container		Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		YES
Comments: FB taken from CDI 13267.											Sample Type:	FB

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Low 80s. No rain.	
Sampling SOP:	FSQM 03-03	24 HRS Prior Weather:	Similar.	

Prepared By: **Geoff Rosenaw** Signed: 1/15/2020 1:24:41 PM
Reviewed By: **Kamila Diddle** Signed: 1/15/2020 1:26:02 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_I_011520
4 of 11

Program: MARCO

Run: I

Sample Collector: Kamila Perez

Meter / Notes: Geoff Rosenaw

Date: 1/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58658	9:52	HC_CENTER	22.9	50119	32.87	87.3	6.26	7.64	0.30		1.70	1.70
AF58658B	9:54	HC_CENTER	23.0	50428	33.09	84.0	6.01	7.72	1.40		1.70	1.70
Collection Device	Pole Sampler; CDI: 10882		Cleaning Protocol: J			Flow:		Staff Gauge:		pH < 2:	YES	
Comments:	Visible outgoing tide.										Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58659	10:22	COLLIER_BRIDGE	23.2	50207	32.92	94.0	6.71	7.80	0.30		1.40	1.40
Collection Device	Pole Sampler; CDI: 10882		Cleaning Protocol: J			Flow:		Staff Gauge:		pH < 2:	YES	
Comments:	Visible outgoing tide.										Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58660	10:49	KENDALL	23.6	50446	33.09	88.4	6.26	7.80	0.30		0.60	0.60
Collection Device	Pole Sampler; CDI: 10882		Cleaning Protocol: J			Flow:		Staff Gauge:		pH < 2:	YES	
Comments:	Visible outgoing tide.										Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Low 80s. No rain.	
Sampling SOP Used:	FSQM 03-03	24 HRS Prior Weather:	Similar.	

Prepared By: Geoff Rosenaw

Reviewed By: Kamila Diddle

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Kamila Perez

Meter / Notes: Geoff Rosenaw

Date: 1/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Low 80s. No rain.	
Sampling SOP Used:	FSQM 03-03	24 HRS Prior Weather:	Similar.	

Prepared By: Geoff Rosenaw

Reviewed By: Kamila Diddle

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Kamila Perez

Meter / Notes: Geoff Rosenaw

Date: 1/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Field Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Low 80s. No rain.	
Sampling SOP Used:	FSQM 03-03	24 HRS Prior Weather:	Similar.	

Prepared By: Geoff Rosenaw

Reviewed By: Kamila Diddle



Collier County Pollution Control Department Chain of Custody

3339 Tamiami Trail East, Bldg. Ste. 304 Naples, Florida 34112

Phone: (239) 252-2502 FAX: (239) 252-6479

NELAC Certification: #E45464

Client Information

Name: Rhonda Watkins
 Company Name: Collier County Natural Resources
 Address: 2685 South Horseshoe Drive Ste 103, Fl 34104
 Phone: (239) 252-2502 Ext. 6049
 Fax: (239) 252-6479

Project	MARCO	MATRIX CODES	PRESERVATION CODES	Lot#	Prs. Vol.	Prs. Lot#	Prs. Supp.	Prs. Date	Initials
Sample Collector(s):		GW Ground Water	1G 1000mL HDPE/Ice	74670					
Kamila Perez		SW Surface Water	2C 1L Opaque HDPE/Light-shielded/Ice	AF58238					
Sample Collector Signature:		WW Waste Water	3S 125ml HDPE/H2SO4/Ice	CDI 13020	6 Drops	RP14269	Fisher	1/15/2020	KP, GR
Relinquished By: (Signature)		DW Drinking Water	4F 60ml Opaque HDPE/Filtered/Ice	AF55337					
		Other	5J 120mL HDPE w/Sodium Thiosulfate/Ice	CDI12141					
			6N 250ml HDPE/H2SO4	CDI13006	18 Drops	RP14269	Fisher	1/15/2020	KP, GR
			14 Whatman Polydisc GW 0.45µm	A24365266					

Received By: (Signature)	Date/Time	Parameters										Sample Check-In						
		Turbidity-PC	Chlorophyll-PC, Pheophytin-PC, Prep-Chloro	Nitrogen-TKN-PC, Prep-TKN	Nitrite-PC, Nitrate-Nitrite-PC	Enterolert-PC	Phosphorus-CP-PC, Prep Metals	TN-PC, CC-Nitrate-N-PC					Sample(s) Intact?	Rec'd in wet ice?	Temp °C:			
	1/15/20 1:27 PM																	
Relinquished By: (Signature)																		
	1/15/20 1:27 PM																	
Received By: (Signature)																		

Date	Time	Field pH	Sp. Cond.	Sample Depth	Location	Matrix	Bottle Codes										# of sample Containers Submitted	Lab ID #		
							1G	2C	3S	4F	5J	6N	Calc							
1/15/2020	8:23	7.62	51984	0.30	OLDE MARCO	SW	1	1	1	1	1	1								
1/15/2020	8:43	7.76	51952	0.30	BARFIELD BRIDGE	SW	1	1	1	1	1	1								
1/15/2020	9:16	7.76	50692	0.30	JH PARK	SW	1	1	1	1	1	1								
1/15/2020	9:25	#N/A	#N/A	#N/A	JH PARK	SW	1	1	1	1	1	1								
1/15/2020	9:52	7.64	50119	0.30	HC_CENTER	SW	1	1	1	1	1	1								
1/15/2020	10:22	7.80	50207	0.30	COLLIER BRIDGE	SW	1	1	1	1	1	1								
1/15/2020	10:49	7.80	50446	0.30	KENDALL	SW	1	1	1	1	1	1								

Notes:

Collier County Pollution Control Surface Water Field Workbook
Audit Trail Worksheet

Sheet & Cell Reference	Initial Value	Changed To	User	Date & Time	Reason For Change	Analyst E-verified Signature
Calibration-D1	ProDSS #9	ProDSS #8	Sampler	1/15/2020 7:06	Incorrect initial entry.	Joshua Gravlin
Field Sheet-B15	Boat passed during collection of turbidity sample. No visible impact to sample.	Boat passed during collection of turbidity sample. No visible impact to sample. Visible outgoing tide.	Sampler	1/15/2020 8:58	Incorrect initial entry.	Joshua Gravlin
Chain of Custody-H9:K9			Sampler	1/15/2020 12:50		Joshua Gravlin
Chain of Custody-H8		74670 AF58238	Sampler	1/15/2020 12:50	Incorrect initial entry.	Joshua Gravlin
Chain of Custody-H9	AF58238	CDI12141	Sampler	1/15/2020 12:50	Incorrect initial entry.	Joshua Gravlin
Chain of Custody-H9	CDI12141		Sampler	1/15/2020 12:51	Incorrect initial entry.	Joshua Gravlin
Chain of Custody-H7	CDI13006		Sampler	1/15/2020 12:52	Incorrect initial entry.	Joshua Gravlin
Calibration-D34		10.4	Sampler	1/15/2020 13:11	Incorrect initial entry.	Joshua Gravlin
Calibration-D34		1/10/1900 9:36	Sampler	1/15/2020 13:13	13179	Joshua Gravlin
AF58656 Pictures-A1:A2			geoffreyrosenaw	1/17/2020 14:56		Geoff Rosenaw
AF58656 Pictures-A1:A2			geoffreyrosenaw	1/17/2020 14:56		Geoff Rosenaw
AF58656 Pictures-11:13			geoffreyrosenaw	1/17/2020 14:57		Geoff Rosenaw
AF58656 Pictures-11:13			geoffreyrosenaw	1/17/2020 14:57		Geoff Rosenaw
AF58656 Pictures-12:13			geoffreyrosenaw	1/17/2020 14:57		Geoff Rosenaw
AF58656 Pictures-J1:J2			geoffreyrosenaw	1/17/2020 14:57		Geoff Rosenaw

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 1/15/2020 18:04

DATE	TIME	SITE	DATA ID	Barometer (mmHg)	Temp (°C)	Cond (µS/cm)	Sp Cond (µS/cm)	Sal (ppt)	pH	pH (mV)	ODO (mg/L)	ODO (% LocalB)
1/15/2020	8:23:09 AM	af58656		767.4	22.7	49702	51983.8	34.24	7.62	-56.3	6.13	85.8
1/15/2020	8:43:00 AM	af58661		767.2	22.9	49903.2	51952.3	34.22	7.76	-64	6.3	88.5
1/15/2020	8:45:09 AM	af58661		767.3	22.9	49880.9	51978.3	34.24	7.79	-66.2	6.24	87.7
1/15/2020	9:16:30 AM	af58657		767.3	23.2	48934	50691.5	33.28	7.76	-64.1	6.26	87.9
1/15/2020	9:18:05 AM	af58657		767.2	23.2	48989.2	50752.3	33.33	7.78	-65.5	6.24	87.7
1/15/2020	9:52:52 AM	af58658		767.3	22.9	48115.9	50119.4	32.87	7.64	-57.3	6.26	87.3
1/15/2020	9:54:04 AM	af58658		767.2	23	48523.2	50428.1	33.09	7.72	-62	6.01	84
1/15/2020	10:22:28 AM	af58659		767.5	23.2	48499.1	50207.4	32.92	7.8	-66.5	6.71	94
1/15/2020	10:49:55 AM	af58660		767.4	23.6	49083.7	50445.7	33.09	7.8	-66.5	6.26	88.4



Description: One of 2 erosion and sediment control issues upstream of OLDE_MARCO site.



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Wednesday, January 15, 2020

Sampler: Samantha Gibson

Meter/Notes: Josh Gravlin



Certificate No

[4262.01](#)

Client: City of Marco Island
Project: Marco Island
Run: II

CCV: Morning		Sonde / Handheld	ProDSS #11	Serial #:	19E104158	
Date/Time:	1/15/20 6:59 AM	Operator:	Josh Gravlin	Project:	MARCO	
*** Conductivity ***				Associated Calibration File:		
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail	Calibration_11_011020.xlsm		
70000	13302	70142	Pass			
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail			
4.00	12628	4.07	Pass			
7.00				All CCV Results Pass?		
10.00				Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.68	100.2	22.9	Pass	8.662	765.9
Notes:						
CCV: Afternoon		Date/Time:	1/15/2020 13:26	Operator:	Josh Gravlin	
*** Conductivity ***						
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail			
10000	11626	9916	Pass			
70000	13302	70195	Pass			
*** pH ***						
pH (QA Criteria +.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00	13179	7.09	Pass	All CCV Results Pass?		
10.00	13196	10.07	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.74	99.5	22.0	Pass	8.797	764.5
Notes:						
Surface Water Field Workbook Rev 16.3 Effective January 10th, 2019						

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_II_011520
3 of 10

Program: MARCO

Run: II

Sample Collector: Samantha Gibson

Meter / Notes: Josh Gravlin

Date: 1/15/2020

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	ODO (% LocalB)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58665	8:26	WINDMILL	23.3	50835	33.39	88.3	6.27	7.78	0.30		2.50	1.20
AF58665B	8:28	WINDMILL	23.3	51155	33.62	84.9	6.02	7.79	2.20		2.50	1.20
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	Yes
Comments: Visibly outgoing tide. Vegetative debris on water surface.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58667	9:03	HOLLYHOCK	23.6	51594	33.94	76.0	5.36	7.72	0.30		1.00	1.00
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	No flow.	Staff Gauge:			pH < 2:	Yes
Comments: No visible tidal movement. Surface film present. Vegetative debris present on water surface.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58666	9:20	HUMMINGBIRD	23.1	50242	32.95	88.6	6.33	7.75	0.30		1.00	1.00
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	Yes
Comments: Dead fish in water near sample site. Bird in water near sample site. Vegetative debris on water surface.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58662	9:55	LANDMARK	23.1	50816	33.37	97.2	6.93	7.85	0.30		1.20	1.20
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	No flow.	Staff Gauge:			pH < 2:	Yes
Comments: Lawn clippings visible on water surface. No visible tidal movement; low-slack scheduled for 11:30.											Sample Type:	SAMP

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. High in the 80s	
Sampling SOP:	FSQM 03-03	24 HRS Prior Weather:	Similar	

Prepared By: *Joshua Gravlin* Signed: 1/15/2020 1:50:36 PM

Reviewed By: **Samantha Gibson** Signed: 1/15/2020 1:51:38 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_II_011520
4 of 10

Program: MARCO

Run: II

Sample Collector: Samantha Gibson

Meter / Notes: Josh Gravlin

Date: 1/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58669	10:42	SWALLOW	23.0	50346	33.03	77.1	5.52	7.81	0.30		1.30	1.20
Collection Device:		Pole Sampler; CDI: 11853		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2:		Yes
Comments: Surface film present; likely dust and pollen. Vegetative debris on water surface. House on bay under construction has failing silt fence.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58663	11:07	W_WINTERBERRY_BRIDGE	22.8	51353	33.78	87.0	6.22	7.84	0.30		3.10	1.30
AF58663B	11:09	W_WINTERBERRY_BRIDGE	22.8	51478	33.87	88.5	6.33	7.87	2.80		3.10	1.30
Collection Device:		VanDorn; CDI: 06978		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2:		Yes
Comments: Visibly incoming tide. Large group of rays downstream of sample site. Surface film present on water surface. Vegetative debris on water surface.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58668	11:27	E_WINTERBERRY_BRIDGE	23.6	50863	33.40	96.1	6.79	7.83	0.30		1.40	1.30
Collection Device:		Pole Sampler; CDI: 11853		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2:		Yes
Comments: Vegetative debris on water surface. Visibly incoming tide. Construction across canal; proper erosion controls in place; large amount of dust blowing across canal towards sample site.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58670	11:35	E_WINTERBERRY_BRIDGE										
Collection Device:		Sample Container		Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		Yes
Comments: FB collected from CDI 13270 carboy. Construction across canal from sample site; significant amount of dust blowing across canal towards sample site.											Sample Type:	FB

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. High in the 80s	
Sampling SOP Used:	FSQM 03-03	24 HRS Prior Weather:	Similar	

Prepared By: Joshua Gravlin

Reviewed By: Samantha Gibson

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

MARCO_II_011520
5 of 10

Program: MARCO

Run: II

Sample Collector: Samantha Gibson

Meter / Notes: Josh Gravlin

Date: 1/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF58664	12:00	MCILVAINE	22.9	51531	33.91	84.7	6.04	7.84	0.30		1.20	1.00
Collection Device:		Pole Sampler; CDI: 11853		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2:		Yes
Comments: Vegetative debris on water surface. Visibly incoming tide.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device:				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device:				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device:				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. High in the 80s	
Sampling SOP Used:	FSQM 03-03	24 HRS Prior Weather:	Similar	

Prepared By: Joshua Gravlin
Reviewed By: Samantha Gibson

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Samantha Gibson

Meter / Notes: Josh Gravlin

Date: 1/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Field Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:			Staff Gauge:		pH < 2:	
Comments:											Sample Type:	

Bottles Per Site / Shipped Per Site:	6 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. High in the 80s	
Sampling SOP Used:	FSQM 03-03	24 HRS Prior Weather:	Similar	

Prepared By: Joshua Gravlin
Reviewed By: Samantha Gibson



Collier County Pollution Control Department Chain of Custody

3339 Tamiami Trail East, Bldg. Ste. 304 Naples, Florida 34112

Phone: (239) 252-2502 FAX: (239) 252-6479

NELAC Certification: #E45464

Client Information

Name: Rhonda Watkins
Company Name: Collier County Natural Resources
Address: 2685 South Horseshoe Drive Ste 103, Fl 34104
Phone: (239) 252-2502 Ext. 6049
Fax: (239) 252-6479

PRESERVATION CODES	Lot#	Prs. Vol.	Prs. Lot#	Prs. Supp.	Prs. Date	Initials
1G 1000mL HDPE/Ice	74670					
2C 1L Opaque HDPE/Light-shielded/Ice	AF58250					
3S 125ml HDPE/H2SO4/Ice	CDI 13020	8 drops	RP 14268	Fisher	1/15/2020	JAG
4F 60ml Opaque HDPE/Filtered/Ice	AF55358					
5J 120mL HDPE w/Sodium Thiosulfate/Ice	CDI 12141					
6N 250ml HDPE/H2SO4	CDI 13006	16 drops	RP 14268	Fisher	1/15/2020	JAG
14 Whatman Polydisc GW 0.45µm	A24365266					

Project	MARCO	MATRIX CODES
Sample Collector(s):		GW Ground Water
Samantha Gibson		SW Surface Water
Sample Collector Signature:		WW Waste Water
		DW Drinking Water
		Other _____
Relinquished By: (Signature)		

Received By: (Signature)	Date/Time	1/15/20 1:52 PM
Relinquished By: (Signature)	Date/Time	1/15/20 1:52 PM
Received By: (Signature)	Date/Time	

Parameters										Sample Check-In		
Turbidity-PC Chlorophyll-PC, Pheophytin-PC, Prep-Chloro Nitrogen-TKN-PC, Prep-TKN Nitrite-PC, Nitrate-Nitrite-PC Enterolert-PC Phosphorus-CP-PC, Prep Metals TN-PC, CC-Nitrate-N-PC											Sample(s) Intact?	
											Rec'd in wet ice?	
											Temp °C:	
											Proper Samp ID?	
											Rec'd within hold time?	
											Acid preserved samples pH<2?	
											Logged In?	

Date	Time	Field pH	Sp. Cond.	Sample Depth	Location	Matrix	Bottle Codes						Calc	# of sample Containers Submitted	Scanned?	Lab ID #
							1G	2C	3S	4F	5J	6N				
1/15/2020	8:26	7.78	50835	0.30	WINDMILL	SW	1	1	1	1	1	1				AF58665
1/15/2020	9:03	7.72	51594	0.30	HOLLYHOCK	SW	1	1	1	1	1	1				AF58667
1/15/2020	9:20	7.75	50242	0.30	HUMMINGBIRD	SW	1	1	1	1	1	1				AF58666
1/15/2020	9:55	7.85	50816	0.30	LANDMARK	SW	1	1	1	1	1	1				AF58662
1/15/2020	10:42	7.81	50346	0.30	SWALLOW	SW	1	1	1	1	1	1				AF58669
1/15/2020	11:07	7.84	51353	0.30	W_WINTERBERRY_BRIDGE	SW	1	1	1	1	1	1				AF58663
1/15/2020	11:27	7.83	50863	0.30	E_WINTERBERRY_BRIDGE	SW	1	1	1	1	1	1				AF58668
1/15/2020	11:35	#N/A	#N/A	#N/A	E_WINTERBERRY_BRIDGE	SW	1	1	1	1	1	1				AF58670
1/15/2020	12:00	7.84	51531	0.30	MCILVAINE	SW	1	1	1	1	1	1				AF58664

Notes:

Collier County Pollution Control Surface Water Field Workbook
Audit Trail Worksheet

Sheet & Cell Reference	Initial Value	Changed To	User	Date & Time	Reason For Change	Analyst E-verified Signature
Field Sheet-L44	Lawn clippings visible on water surface. No visible tidal movement; low-slack scheduled for 11:30.	1.3 Lawn clippings visible on water surface. No visible tidal movement; low-slack scheduled for 11:30.	3.1 Sampler	1/15/2020 11:15	Incorrect initial entry.	Joshua Gravlin
Field Sheet-B29	Lawn clippings visible on water surface. No visible tidal movement; low-slack scheduled for 11:30.	Lawn clippings visible on water surface. No visible tidal movement; low-slack scheduled for 11:30.	PCL	1/15/2020 13:50	Spelling	Joshua Gravlin

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 1/15/2020 17:25

DATE	TIME	SITE	Barometer (mmHg)	Temp (°C)	Sp Cond (µS/cm)	TDS (mg/L)	Sal (ppt)	pH	pH (mV)	ODO (% Sat)	ODO (mg/L)	ODO (% LocalB)
1/15/2020	8:26:27 AM	af58665	767.1	23.3	50835	33043	33.39	7.78	-75.2	89.1	6.27	88.3
1/15/2020	8:28:02 AM	af58665	767	23.3	51155.4	33251	33.62	7.79	-75.8	85.7	6.02	84.9
1/15/2020	9:03:09 AM	af58667	767.1	23.6	51593.7	33536	33.94	7.72	-71.6	76.7	5.36	76
1/15/2020	9:20:21 AM	af58666	767.1	23.1	50242.1	32657	32.95	7.75	-73.4	89.4	6.33	88.6
1/15/2020	9:55:38 AM	af58662	767.1	23.1	50816.2	33030	33.37	7.85	-79	98.1	6.93	97.2
1/15/2020	10:42:29 AM	af58669	767.1	23	50346.3	32725	33.03	7.81	-76.9	77.8	5.52	77.1
1/15/2020	11:07:40 AM	wwint	766.8	22.8	51353	33379	33.78	7.84	-78.3	87.8	6.22	87
1/15/2020	11:09:08 AM	wwint	766.8	22.8	51478.2	33461	33.87	7.87	-80.5	89.3	6.33	88.5
1/15/2020	11:27:10 AM	af58668	767.1	23.6	50863.1	33061	33.4	7.83	-78	97	6.79	96.1
1/15/2020	12:00:28 PM	af58664	766.7	22.9	51531.2	33495	33.91	7.84	-78.3	85.4	6.04	84.7

