



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

www.LiveGreenSaveBlue.com

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

Collected by: CCPCD
Collection Date: 07/28/2020
Submittal Date: 07/28/2020 @ 12:52

Report Date : 9/2/2020
Report Time : 9:19:10AM

Project: MARCO
Report#: 0720_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 # 0720_MRCO_I

<i>Location:</i> JH_PARK		<i>Field ID:</i> AF61196		<i>Lab ID:</i> AF61196		<i>Collect Date/Time:</i> 7/28/20 08:43				
<i>Analyte Name</i>	<i>Method</i>	<i>Result</i>	<i>Acceptable Limits</i>	<i>Qualifier</i>	<i>Units</i>	<i>MDL</i>	<i>PQL</i>	<i>DF</i>	<i>Analysis Date/Time</i>	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.509			mg/L	0.200	0.500	1	08/18/2020	13:34
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	15:47
pH	FDEP FT1100	7.770	6.5 - 8.5		SU			1	07/28/2020	08:43
Specific Conductance	FDEP FT1200	49138			umho/cm			1	07/28/2020	08:43
Dissolved Oxygen Saturation	FDEP FT1500	87	>42		%			1	07/28/2020	08:43
Nitrogen- Total	Nitrogen- Total	0.509	<0.3		mg/L	0.200	0.500	1	08/18/2020	13:34
Chlorophyll a	SM 10200 H	4.8	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	11:22
Pheophytin	SM 10200 H	1.30			mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	3.9			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:51
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.043	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:24

ANALYTICAL RESULTS

Report # 0720_MRCO_I

<i>Location:</i> HC_CENTER		<i>Field ID:</i> AF61197		<i>Lab ID:</i> AF61197		<i>Collect Date/Time:</i> 7/28/20 09:15				
<i>Analyte Name</i>	<i>Method</i>	<i>Result</i>	<i>Acceptable Limits</i>	<i>Qualifier</i>	<i>Units</i>	<i>MDL</i>	<i>PQL</i>	<i>DF</i>	<i>Analysis Date/Time</i>	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.478		I	mg/L	0.200	0.500	1	08/18/2020	13:35
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	15:55
pH	FDEP FT1100	7.850	6.5 - 8.5		SU			1	07/28/2020	09:15
Specific Conductance	FDEP FT1200	47779			umho/cm			1	07/28/2020	09:15
Dissolved Oxygen Saturation	FDEP FT1500	101.2	>42		%			1	07/28/2020	09:15
Nitrogen- Total	Nitrogen- Total	0.478	<0.3	I	mg/L	0.200	0.500	1	08/19/2020	12:45
Chlorophyll a	SM 10200 H	6.5	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	11:22
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	1.5			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:25
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.057	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:26

ANALYTICAL RESULTS

Report # 0720_MRCO_I

Location: COLLIER_BRIDGE		Field ID: AF61198		Lab ID: AF61198		Collect Date/Time: 7/28/20 09:48				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.476		I	mg/L	0.200	0.500	1	08/18/2020	13:37
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	15:52
pH	FDEP FT1100	7.810	6.5 - 8.5		SU			1	07/28/2020	09:48
Specific Conductance	FDEP FT1200	47270			umho/cm			1	07/28/2020	09:48
Dissolved Oxygen Saturation	FDEP FT1500	88.8	>42		%			1	07/28/2020	09:48
Nitrogen- Total	Nitrogen- Total	0.476	<0.3	I	mg/L	0.200	0.500	1	08/19/2020	12:45
Chlorophyll a	SM 10200 H	4.1	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	11:22
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	1.4			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:24
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.049	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:27

ANALYTICAL RESULTS

Report # 0720_MRCO_I

Location: KENDALL		Field ID: AF61199		Lab ID: AF61199		Collect Date/Time: 7/28/20 10:16				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.554			mg/L	0.200	0.500	1	08/18/2020	13:38
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	16:00
pH	FDEP FT1100	7.770	6.5 - 8.5		SU			1	07/28/2020	10:16
Specific Conductance	FDEP FT1200	48535			umho/cm			1	07/28/2020	10:16
Dissolved Oxygen Saturation	FDEP FT1500	81	>42		%			1	07/28/2020	10:16
Nitrogen- Total	Nitrogen- Total	0.554	<0.3		mg/L	0.200	0.500	1	08/18/2020	13:38
Chlorophyll a	SM 10200 H	3.1	<4.9	J	mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	11:22
Pheophytin	SM 10200 H	1.90			mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	3.2			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:23
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.048	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:28

ANALYTICAL RESULTS

Report # 0720_MRCO_I

Location: BARFIELD_BRIDGE		Field ID: AF61200		Lab ID: AF61200		Collect Date/Time: 7/28/20 10:52				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.631			mg/L	0.200	0.500	1	08/20/2020	14:24
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	15:50
pH	FDEP FT1100	7.820	6.5 - 8.5		SU			1	07/28/2020	10:52
Specific Conductance	FDEP FT1200	50891			umho/cm			1	07/28/2020	10:52
Dissolved Oxygen Saturation	FDEP FT1500	83	>42		%			1	07/28/2020	10:52
Nitrogen- Total	Nitrogen- Total	0.631	<0.3		mg/L	0.200	0.500	1	08/20/2020	14:24
Chlorophyll a	SM 10200 H	4.6	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	11:22
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	3.6			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/19/2020	11:11
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:22
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.051	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:29

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: LANDMARK		Field ID: AF61201		Lab ID: AF61201		Collect Date/Time: 7/28/20 09:44				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	41	<130		MPN/100 mL	10	10	10	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.542		J	mg/L	0.200	0.500	1	08/18/2020	13:46
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	18:15
pH	FDEP FT1100	8.170	6.5 - 8.5		SU			1	07/28/2020	09:44
Specific Conductance	FDEP FT1200	46283			umho/cm			1	07/28/2020	09:44
Dissolved Oxygen Saturation	FDEP FT1500	117.4	>42		%			1	07/28/2020	09:44
Nitrogen- Total	Nitrogen- Total	0.542	<0.3	J	mg/L	0.200	0.500	1	08/18/2020	15:05
Chlorophyll a	SM 10200 H	5.0	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	0.90			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:34
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.064	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:30

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: MCILVAINE		Field ID: AF61203		Lab ID: AF61203		Collect Date/Time: 7/28/20 12:05				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.541			mg/L	0.200	0.500	1	08/18/2020	13:51
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	18:18
pH	FDEP FT1100	7.950	6.5 - 8.5		SU			1	07/28/2020	12:05
Specific Conductance	FDEP FT1200	51955			umho/cm			1	07/28/2020	12:05
Dissolved Oxygen Saturation	FDEP FT1500	94.8	>42		%			1	07/28/2020	12:05
Nitrogen- Total	Nitrogen- Total	0.541	<0.3		mg/L	0.200	0.500	1	08/18/2020	13:51
Chlorophyll a	SM 10200 H	2.9	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	4.6			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:35
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/11/2020	10:38
Phosphorus- Total	SM 4500-P E (P	0.037	<0.046	I	mg/L	0.014	0.040	2	08/13/2020	11:06

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: WINDMILL		Field ID: AF61204		Lab ID: AF61204		Collect Date/Time: 7/28/20 08:18				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.767			mg/L	0.200	0.500	1	08/18/2020	13:52
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	16:07
pH	FDEP FT1100	7.870	6.5 - 8.5		SU			1	07/28/2020	08:18
Specific Conductance	FDEP FT1200	47776			umho/cm			1	07/28/2020	08:18
Dissolved Oxygen Saturation	FDEP FT1500	88.4	>42		%			1	07/28/2020	08:18
Nitrogen- Total	Nitrogen- Total	0.767	<0.3		mg/L	0.200	0.500	1	08/18/2020	13:52
Chlorophyll a	SM 10200 H	5.5	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	2.7			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:43
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.059	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:31

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: HUMMINGBIRD		Field ID: AF61205		Lab ID: AF61205		Collect Date/Time: 7/28/20 09:18				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	G	MPN/100 mL	10	10	10	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.790			mg/L	0.200	0.500	1	08/18/2020	13:53
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	18:06
pH	FDEP FT1100	7.880	6.5 - 8.5		SU			1	07/28/2020	09:18
Specific Conductance	FDEP FT1200	47932			umho/cm			1	07/28/2020	09:18
Dissolved Oxygen Saturation	FDEP FT1500	97.4	>42		%			1	07/28/2020	09:18
Nitrogen- Total	Nitrogen- Total	0.790	<0.3		mg/L	0.200	0.500	1	08/18/2020	13:53
Chlorophyll a	SM 10200 H	6.4	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	1.1			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:53
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.045	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:32

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: HOLLYHOCK		Field ID: AF61206		Lab ID: AF61206		Collect Date/Time: 7/28/20 08:54				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		I	mg/L	0.011	0.020	1	07/30/2020	10:11
Enterococci	Enterolert/QT	285	<130		MPN/100 mL	10	10	10	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.608			mg/L	0.200	0.500	1	08/18/2020	13:55
Nitrate-Nitrite (N)	EPA 353.2	0.011		I	mg/L	0.011	0.020	1	07/29/2020	17:58
pH	FDEP FT1100	7.800	6.5 - 8.5		SU			1	07/28/2020	08:54
Specific Conductance	FDEP FT1200	49008			umho/cm			1	07/28/2020	08:54
Dissolved Oxygen Saturation	FDEP FT1500	77.5	>42		%			1	07/28/2020	08:54
Nitrogen- Total	Nitrogen- Total	0.619	<0.3		mg/L		0.500	1	08/18/2020	13:55
Chlorophyll a	SM 10200 H	3.4	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	1.6			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:44
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.054	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:33

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: SWALLOW		Field ID: AF61208		Lab ID: AF61208		Collect Date/Time: 7/28/20 10:10			
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time
CC-Nitrate-N	CC-Nitrate-N	0.028			mg/L	0.011	0.020	1	08/07/2020 14:38
Enterococci	Enterolert/QT	41	<130		MPN/100 mL	10	10	10	07/28/2020 14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.638			mg/L	0.200	0.500	1	08/18/2020 13:56
Nitrate-Nitrite (N)	EPA 353.2	0.028			mg/L	0.011	0.020	1	07/29/2020 17:49
pH	FDEP FT1100	7.870	6.5 - 8.5		SU			1	07/28/2020 10:10
Specific Conductance	FDEP FT1200	46706			umho/cm			1	07/28/2020 10:10
Dissolved Oxygen Saturation	FDEP FT1500	97.4	>42		%			1	07/28/2020 10:10
Nitrogen- Total	Nitrogen- Total	0.666	<0.3		mg/L		0.500	1	08/18/2020 13:56
Chlorophyll a	SM 10200 H	4.7	<4.9		mg/m3	1.00	1.00	1	08/14/2020 11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020 12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020 11:15
Turbidity	SM 2130 B	1.6			NTU	0.10	0.50	1	07/29/2020 07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020 10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020 14:45
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020 10:27
Phosphorus- Total	SM 4500-P E (P	0.056	<0.046		mg/L	0.014	0.040	2	08/06/2020 12:36

ANALYTICAL RESULTS

Report # 0720_MRCO_I

Location: MARCO_BLANK		Field ID: AF61209		Lab ID: AF61209		Collect Date/Time: 7/28/20 09:28			
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	07/30/2020 10:11
Enterococci	Enterolert/QT	1	<130	U	MPN/100 mL	1	1	1	07/28/2020 13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.200		U	mg/L	0.200	0.500	1	08/18/2020 13:58
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020 15:57
pH	FDEP FT1100	NA	6.5 - 8.5		SU			1	07/28/2020 09:28
Specific Conductance	FDEP FT1200	NA			umho/cm			1	07/28/2020 09:28
Dissolved Oxygen Saturation	FDEP FT1500	NA	>42		%			1	07/28/2020 09:28
Nitrogen- Total	Nitrogen- Total	0.200	<0.3	U	mg/L	0.200	0.500	1	08/19/2020 12:45
Chlorophyll a	SM 10200 H	1.0	<4.9	U	mg/m3	1.00	1.00	1	08/14/2020 11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020 11:22
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020 11:15
Turbidity	SM 2130 B	0.10		U	NTU	0.10	0.50	1	07/29/2020 07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020 10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020 14:21
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020 10:27
Phosphorus- Total	SM 4500-P E (P	0.007	<0.046	U	mg/L	0.007	0.020	1	08/06/2020 12:41

ANALYTICAL RESULTS

Report # 0720_MRCO_I

Location: DUP1		Field ID: AF61210		Lab ID: AF61210		Collect Date/Time: 7/28/20 10:18				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130		MPN/100 mL	10	10	10	07/28/2020	13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.644			mg/L	0.200	0.500	1	08/18/2020	13:59
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	18:13
pH	FDEP FT1100	7.770	6.5 - 8.5		SU			1	07/28/2020	10:18
Specific Conductance	FDEP FT1200	48499			umho/cm			1	07/28/2020	10:18
Dissolved Oxygen Saturation	FDEP FT1500	80.7	>42		%			1	07/28/2020	10:18
Nitrogen- Total	Nitrogen- Total	0.644	<0.3		mg/L	0.200	0.500	1	08/18/2020	13:59
Chlorophyll a	SM 10200 H	4.7	<4.9	J	mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	11:22
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	3.0			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:26
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.045			mg/L	0.014	0.040	2	08/06/2020	12:42

ANALYTICAL RESULTS

Report # 0720_MRCO_I

Location: OLDE_MARCO		Field ID: AF61211		Lab ID: AF61211		Collect Date/Time: 7/28/20 08:19				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	20	<130		MPN/100 mL	10	10	10	07/28/2020	13:51
Nitrogen- Total Kjeldahl	EPA 351.2	0.590			mg/L	0.200	0.500	1	08/18/2020	14:00
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	18:10
pH	FDEP FT1100	7.790	6.5 - 8.5		SU			1	07/28/2020	08:19
Specific Conductance	FDEP FT1200	52367			umho/cm			1	07/28/2020	08:19
Dissolved Oxygen Saturation	FDEP FT1500	75.6	>42		%			1	07/28/2020	08:19
Nitrogen- Total	Nitrogen- Total	0.590	<0.3		mg/L	0.200	0.500	1	08/18/2020	14:00
Chlorophyll a	SM 10200 H	2.2	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	11:22
Pheophytin	SM 10200 H	1.80			mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	4.3			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:27
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.036	<0.046	I	mg/L	0.014	0.040	2	08/06/2020	12:38

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: MARCO_BLANK		Field ID: AF61212		Lab ID: AF61212		Collect Date/Time: 7/28/20 08:33				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	2	<130		MPN/100 mL	1	1	1	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.200		U	mg/L	0.200	0.500	1	08/18/2020	14:05
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	17:56
pH	FDEP FT1100	NA	6.5 - 8.5		SU			1	07/28/2020	08:33
Specific Conductance	FDEP FT1200	NA			umho/cm			1	07/28/2020	08:33
Dissolved Oxygen Saturation	FDEP FT1500	NA	>42		%			1	07/28/2020	08:33
Nitrogen- Total	Nitrogen- Total	0.200	<0.3	U	mg/L	0.200	0.500	1	08/19/2020	12:45
Chlorophyll a	SM 10200 H	1.0	<4.9	U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	0.10		U	NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:46
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.007	<0.046	U	mg/L	0.007	0.020	1	08/06/2020	12:43

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: W_WINTERBERRY_BRIDGE		Field ID: AF61603		Lab ID: AF61603		Collect Date/Time: 7/28/20 11:03				
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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.606			mg/L	0.200	0.500	1	08/18/2020	14:23
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	16:02
pH	FDEP FT1100	8.07	6.5 - 8.5		SU			1	07/28/2020	11:03
Specific Conductance	FDEP FT1200	49639			umho/cm			1	07/28/2020	11:03
Dissolved Oxygen Saturation	FDEP FT1500	112.4	>42		%			1	07/28/2020	11:03
Nitrogen- Total	Nitrogen- Total	0.606	<0.3		mg/L	0.200	0.500	1	08/18/2020	14:23
Chlorophyll a	SM 10200 H	5.4	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	2.1			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:47
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/05/2020	10:27
Phosphorus- Total	SM 4500-P E (P	0.047	<0.046		mg/L	0.014	0.040	2	08/06/2020	12:45

ANALYTICAL RESULTS

Report # 0720_MRCO_II

Location: E_WINTERBERRY_BRIDGE		Field ID: AF61608		Lab ID: AF61608		Collect Date/Time: 7/28/20 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	07/30/2020	10:11
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	07/28/2020	14:24
Nitrogen- Total Kjeldahl	EPA 351.2	0.711			mg/L	0.200	0.500	1	08/18/2020	14:27
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	07/29/2020	18:08
pH	FDEP FT1100	7.930	6.5 - 8.5		SU			1	07/28/2020	11:35
Specific Conductance	FDEP FT1200	49932			umho/cm			1	07/28/2020	11:35
Dissolved Oxygen Saturation	FDEP FT1500	98.9	>42		%			1	07/28/2020	11:35
Nitrogen- Total	Nitrogen- Total	0.711	<0.3		mg/L	0.200	0.500	1	08/18/2020	14:27
Chlorophyll a	SM 10200 H	5.7	<4.9		mg/m3	1.00	1.00	1	08/14/2020	11:15
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	07/29/2020	12:10
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	08/14/2020	11:15
Turbidity	SM 2130 B	1.2			NTU	0.10	0.50	1	07/29/2020	07:56
Digestion for TKN	SM 4500 NorgD	Complete						1	08/17/2020	10:59
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	07/28/2020	14:48
Persulfate Digestion for Total P	SM 4500-P B	Complete						1	08/11/2020	10:38
Phosphorus- Total	SM 4500-P E (P	0.031	<0.046	I	mg/L	0.014	0.040	2	08/13/2020	11:07



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Tuesday, July 28, 2020

Sampler: Danny Berger

Meter/Notes: Chris Lienhardt



Certificate No

[4262.01](#)

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

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Danny Berger

Meter / Notes: Chris Lienhardt

Date: 7/28/2020

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	D.O. (% SAT)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF61211	8:19	OLDE_MARCO	29.5	52367	34.35	75.6	4.79	7.79	0.30		1.40	1.40
Collection Device		Pole Sampler; CDI: 11853		Cleaning Protocol: J		Flow:		Staff Gauge:		pH < 2:		YES
Comments: Unable to determine tidal movement. Chart shows outgoing until 3 PM.									Thermally Preserved Within 15 Minutes?	Yes	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)
AF61196	8:43	JH_PARK	30.4	49138	31.95	87.0	5.51	7.77	0.30		3.85	1.30
AF61196B	8:45	JH_PARK	30.6	49649	32.32	80.0	5.04	7.79	3.55		3.85	1.30
Collection Device		Pole Sampler; CDI: 11853		Cleaning Protocol: J		Flow:		Staff Gauge:		pH < 2:		YES
Comments: Visibly outgoing tide.									Thermally Preserved Within 15 Minutes?	Yes	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)
AF61197	9:15	HC_CENTER	30.7	47779	30.95	101.2	6.41	7.85	0.30		1.80	1.80
AF61197B	9:18	HC_CENTER	30.7	47807	30.97	100.4	6.36	7.85	1.50		1.80	1.80
Collection Device		VanDorn; CDI: 08721		Cleaning Protocol: J		Flow:		Staff Gauge:		pH < 2:		YES
Comments: Visibly outgoing tide.									Thermally Preserved Within 15 Minutes?	Yes	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)
AF61209	9:28	HC_CENTER										
Collection Device		VanDorn; CDI: 08721		Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		YES
Comments: FCEB taken from CDI10967 carboy.									Thermally Preserved Within 15 Minutes?	Yes	Sample Type:	FCEB

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Upper 80s and mostly sunny.	
Sampling SOP:	FSQM 03-04	24 HRS Prior Weather:	Low 80s and mostly overcast with some PM rain.	

Prepared By: Christopher Lienhardt Signed: 7/28/2020 12:52:01 PM

Reviewed By: Danny Berger Signed: 7/28/2020 12:45:04 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Danny Berger

Meter / Notes: Chris Lienhardt

Date: 7/28/2020

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)
AF61198	9:48	COLLIER_BRIDGE	30.6	47270	30.59	88.8	5.65	7.81	0.30		1.70	1.70
AF61198B	9:50	COLLIER_BRIDGE	30.6	47397	30.68	80.0	5.09	7.78	1.40		1.70	1.70
Collection Device	VanDorn; CDI: 08721		Cleaning Protocol: J		Flow:		Staff Gauge:			pH < 2:	YES	
Comments:	Visibly outgoing tide.						Thermally Preserved Within 15 Minutes?	Yes	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)
AF61199	10:16	KENDALL	30.6	48535	31.50	81.0	5.13	7.77	0.30		1.00	1.00
Collection Device	VanDorn; CDI: 08721		Cleaning Protocol: J		Flow:		Staff Gauge:			pH < 2:	YES	
Comments:	Visibly outgoing tide.						Thermally Preserved Within 15 Minutes?	Yes	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)
AF61210	10:18	KENDALL	30.6	48499	31.48	80.7	5.11	7.77	0.30		1.00	1.00
Collection Device	VanDorn; CDI: 08721		Cleaning Protocol: J		Flow:		Staff Gauge:			pH < 2:	YES	
Comments:	Visibly outgoing tide.						Thermally Preserved Within 15 Minutes?	Yes	Sample Type:	REP		

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)
AF61200	10:52	BARFIELD_BRIDGE	30.1	50891	33.24	83.0	5.24	7.82	0.30		2.40	1.70
Collection Device	VanDorn; CDI: 08721		Cleaning Protocol: J		Flow:		Staff Gauge:			pH < 2:	YES	
Comments:	Visibly outgoing tide. Boat passed prior to sampling.						Thermally Preserved Within 15 Minutes?	Yes	Sample Type:	SAMP		

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Upper 80s and mostly sunny.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Low 80s and mostly overcast with some PM rain.	

Prepared By: Christopher Lienhardt

Reviewed By: Danny Berger

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Danny Berger

Meter / Notes: Chris Lienhardt

Date: 7/28/2020

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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		Sample Type:		

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?		No
Sites Access By:	Truck	Weather:	Upper 80s and mostly sunny.		
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Low 80s and mostly overcast with some PM rain.		

Prepared By: Christopher Lienhardt

Reviewed By: Danny Berger

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Danny Berger

Meter / Notes: Chris Lienhardt

Date: 7/28/2020

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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		Sample Type:		

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Upper 80s and mostly sunny.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Low 80s and mostly overcast with some PM rain.	

Prepared By: Christopher Lienhardt

Reviewed By: Danny Berger



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	76342					
2C 1L Opaque HDPE/Light-shielded/Ice	AF60875					
3S 250ml HDPE/HZSO4/Ice	CDI 14194	16 drops	RP 15506	Fisher	7/28/2020	DB, CL
4F 60ml Opaque HDPE/Filtered/Ice	AF55358					
5J 120mL HDPE w/Sodium Thiosulfate/Ice	CDI 13471					
14 Whatman Polydisc GW 0.45µm	A29352435					

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

Received By: (Signature)	Date/Time	7/28/20 12:52 PM
Relinquished By: (Signature)	Date/Time	7/28/20 12:52 PM
Received By: (Signature)	Date/Time	

Parameters										Sample Check-In		
Turbidity-PC Chlorophyll-PC, Pheophytin-PC, Prep-Chloro Nitrogen-TKN, Phosphorous-Total, Nitrate-Nitrite, Prep-TKN Nitrite-PC Enterolert-PC 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?	
Bottle Codes										Logged In?		
											Scanned?	

Date	Time	Field pH	Sp. Cond.	Sample Depth	Location	Matrix	1G	2C	3S	4F	5J	Calc	# of sample Containers Submitted						Lab ID #
7/28/2020	8:19	7.79	52367	0.30	OLDE MARCO	SW	1	1	1	1	1								AF61211
7/28/2020	8:43	7.77	49138	0.30	JH_PARK	SW	1	1	1	1	1								AF61196
7/28/2020	9:15	7.85	47779	0.30	HC_CENTER	SW	1	1	1	1	1								AF61197
7/28/2020	9:28	#N/A	#N/A	#N/A	HC_CENTER	SW	1	1	1	1	1								AF61209
7/28/2020	9:48	7.81	47270	0.30	COLLIER_BRIDGE	SW	1	1	1	1	1								AF61198
7/28/2020	10:16	7.77	48535	0.30	KENDALL	SW	1	1	1	1	1								AF61199
7/28/2020	10:18	7.77	48499	0.30	REPLICATE	SW	1	1	1	1	1								AF61210
7/28/2020	10:52	7.82	50891	0.30	BARFIELD_BRIDGE	SW	1	1	1	1	1								AF61200

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 #11	Sampler	7/28/2020 6:43	Incorrect initial entry.	Joshua Gravlin
Field Sheet-B21	Pole Sampler; CDI: 11853	VanDorn; CDI: 08721	Sampler	7/28/2020 9:20	Incorrect initial entry.	Joshua Gravlin
Field Sheet-M54	SAMP	REP	Sampler	7/28/2020 10:24	Incorrect initial entry.	Joshua Gravlin

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CRE/ #####

DATE	TIME	SITE	Barometer	Temp (°C)	Sp Cond (µ	TDS (mg/L	Sal (ppt)	pH	pH (mV)
7/28/2020	#####	af61211	763.5	29.5	52366.5	34038	34.35	7.79	-80.5
7/28/2020	#####	af61196	763.6	30.4	49138	31940	31.95	7.77	-79.1
7/28/2020	#####	af61196	763.6	30.6	49648.8	32272	32.32	7.79	-80.6
7/28/2020	#####	af61197	763.7	30.7	47778.8	31056	30.95	7.85	-84
7/28/2020	#####	af61197	763.7	30.7	47806.8	31074	30.97	7.85	-84.3
7/28/2020	#####	af61197	764	30.6	47270.4	30726	30.59	7.81	-81.7
7/28/2020	#####	af61197	763.9	30.6	47396.6	30808	30.68	7.78	-79.8
7/28/2020	#####	af61199	764	30.6	48534.9	31548	31.5	7.77	-79.5
7/28/2020	#####	af61199	763.9	30.6	48498.7	31524	31.48	7.77	-79.3
7/28/2020	#####	af61199	763.7	30.5	50148.5	32597	32.69	7.81	-82
7/28/2020	#####	af61199	763.7	30.1	50890.9	33079	33.24	7.82	-82.4

ODO (% S:ODO (mg/l	ODO (% LocalB)	
75.9	4.79	75.6
87.4	5.51	87
80.4	5.04	80
101.7	6.41	101.2
100.8	6.36	100.4
89.3	5.65	88.8
80.5	5.09	80
81.4	5.13	81
81.2	5.11	80.7
94.5	5.92	94
83.4	5.24	83

Collier County Pollution Control
Data Export Worksheet

Activity ID	Project ID	Activity Start Date	Activity Stop Date	Municipality	Location ID	Activity Type	Sample Collection Type	Sample Collection Equipment Name	Matrix	Activity Depth	Total Depth (ft)	On Analyte Name	ADAPT Analyte ID	Analyte Method	On Result Value	On Result Unit	Field Blank Batch ID	Equipment Blank Batch ID	Master Activity ID	Tri Blank Batch ID	Value Qualifier	Result Comment	Activity Comments	Sample Name	Sample Co	Sample Co
AF61211F	MARCO	7/28/2020	8/19/ OLDE_MARCO	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen	1980	FDEP FT1500		4.79 mg/L			EB_AFE1209					Unable to determine tidal movement. Chart shows outflow unit 3	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/43 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.85	Dissolved Oxygen	1980	FDEP FT1500		5.51 mg/L			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/45 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	3.55	3.85	Dissolved Oxygen	1980	FDEP FT1500		5.04 mg/L			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61197F	MARCO	7/28/2020	9/15 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Dissolved Oxygen	1980	FDEP FT1500		6.41 mg/L			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61197F	MARCO	7/28/2020	9/18 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Dissolved Oxygen	1980	FDEP FT1500		6.36 mg/L			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/48 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.70	Dissolved Oxygen	1980	FDEP FT1500		5.65 mg/L			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/50 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	1.40	1.70	Dissolved Oxygen	1980	FDEP FT1500		5.09 mg/L			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	10/16 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Dissolved Oxygen	1980	FDEP FT1500		5.13 mg/L			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61210F	MARCO	7/28/2020	10/18 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Dissolved Oxygen	1980	FDEP FT1500		5.11 mg/L			EB_AFE1209		AF61199			Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61202F	MARCO	7/28/2020	10/52 BARFIELD BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Dissolved Oxygen	1980	FDEP FT1500		6.24 mg/L			EB_AFE1209					Visible outflow side. Boat passed prior to sampling.	CLienhard/DBe	Intermedia	Van Dom E	
AF61211F	MARCO	7/28/2020	8/19 OLDE_MARCO	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500		76.6 %			EB_AFE1209					Unable to determine tidal movement. Chart shows outflow unit 3	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/43 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.85	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500		87.0 %			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/45 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	3.55	3.85	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500		80.0 %			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61197F	MARCO	7/28/2020	9/15 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500		101.2 %			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61197F	MARCO	7/28/2020	9/18 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Dissolved Oxygen Saturation	WIN-011	ETN9 FT1100		100.4 %			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/48 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.70	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500		88.8 %			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/50 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	1.40	1.70	Dissolved Oxygen Saturation	WIN-011	ETN9 FT1100		80.0 %			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61199F	MARCO	7/28/2020	10/16 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Dissolved Oxygen Saturation	WIN-011	ETN9 FT1100		81.0 %			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61210F	MARCO	7/28/2020	10/18 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Dissolved Oxygen Saturation	WIN-011	ETN9 FT1100		80.7 %			EB_AFE1209		AF61199			Visible outflow side. Boat passed prior to sampling.	CLienhard/DBe	Intermedia	Van Dom E	
AF61202F	MARCO	7/28/2020	10/52 BARFIELD BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500		83.0 %			EB_AFE1209					Visible outflow side. Boat passed prior to sampling.	CLienhard/DBe	Intermedia	Van Dom E	
AF61211F	MARCO	7/28/2020	8/19 OLDE_MARCO	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	pH	1900	FDEP FT1100		7.79 SU			EB_AFE1209					Unable to determine tidal movement. Chart shows outflow unit 3	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/43 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.85	pH	1900	FDEP FT1100		7.77 SU			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/45 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	3.55	3.85	pH	1900	FDEP FT1100		7.79 SU			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61197F	MARCO	7/28/2020	9/15 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	pH	1900	FDEP FT1100		7.85 SU			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61197F	MARCO	7/28/2020	9/18 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	pH	1900	FDEP FT1100		7.85 SU			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/48 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.70	pH	1900	FDEP FT1100		7.91 SU			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/50 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	1.40	1.70	pH	1900	FDEP FT1100		7.78 SU			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61199F	MARCO	7/28/2020	10/16 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	pH	1900	FDEP FT1100		7.77 SU			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61210F	MARCO	7/28/2020	10/18 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	pH	1900	FDEP FT1100		7.77 SU			EB_AFE1209		AF61199			Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61202F	MARCO	7/28/2020	10/52 BARFIELD BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	pH	1900	FDEP FT1100		7.82 SU			EB_AFE1209					Visible outflow side. Boat passed prior to sampling.	CLienhard/DBe	Intermedia	Van Dom E	
AF61211F	MARCO	7/28/2020	8/19 OLDE_MARCO	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Salinity	1975	FDEP FT1300		34.35 ppt			EB_AFE1209					Unable to determine tidal movement. Chart shows outflow unit 3	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/43 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.85	Salinity	1975	FDEP FT1300		31.95 ppt			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/45 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	3.55	3.85	Salinity	1975	FDEP FT1300		32.32 ppt			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61197F	MARCO	7/28/2020	9/15 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Salinity	1975	FDEP FT1300		30.95 ppt			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61197F	MARCO	7/28/2020	9/18 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Salinity	1975	FDEP FT1300		30.97 ppt			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/48 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.70	Salinity	1975	FDEP FT1300		30.59 ppt			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/50 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	1.40	1.70	Salinity	1975	FDEP FT1300		30.68 ppt			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61199F	MARCO	7/28/2020	10/16 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Salinity	1975	FDEP FT1300		31.50 ppt			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61210F	MARCO	7/28/2020	10/18 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Salinity	1975	FDEP FT1300		31.48 ppt			EB_AFE1209		AF61199			Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61202F	MARCO	7/28/2020	10/52 BARFIELD BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Salinity	1975	FDEP FT1300		33.24 ppt			EB_AFE1209					Visible outflow side. Boat passed prior to sampling.	CLienhard/DBe	Intermedia	Van Dom E	
AF61211F	MARCO	7/28/2020	8/19 OLDE_MARCO	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Depth, Secchi Disk Depth	WIN-010	FDEP FT1700		1.40 m			EB_AFE1209				S	Unable to determine tidal movement. Chart shows outflow unit 3	CLienhard/DBe	Direct Gra	Water Bott	
AF61198F	MARCO	7/28/2020	8/43 JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.85	Depth, Secchi Disk Depth	WIN-010	ETN9 FT1100		1.00 m			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Direct Gra	Water Bott	
AF61197F	MARCO	7/28/2020	9/15 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Depth, Secchi Disk Depth	WIN-010	ETN9 FT1100		1.80 m			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61197F	MARCO	7/28/2020	9/18 HC_CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.70	Depth, Secchi Disk Depth	WIN-010	ETN9 FT1100		1.70 m			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61198F	MARCO	7/28/2020	9/48 COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Depth, Secchi Disk Depth	WIN-010	FDEP FT1700		1.00 m			EB_AFE1209					Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61199F	MARCO	7/28/2020	10/16 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Depth, Secchi Disk Depth	WIN-010	FDEP FT1700		1.00 m			EB_AFE1209		AF61199			Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	
AF61210F	MARCO	7/28/2020	10/18 KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Depth, Secchi Disk Depth	WIN-010	FDEP FT1700		1.00 m			EB_AFE1209		AF61199			Visible outflow side.	CLienhard/DBe	Intermedia	Van Dom E	

AF61200F	MARCO	7/28/2020 10:52	BARFIELD BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Depth, Secchi Disk Depth	WIN-010	FNEP-FT-1700	1.70 m	EB AF61200	Visibley outpoino tide. Boat passed prior to sampling.	CLienhard@Dbe Intermedia Van Dom E		
AF61211F	MARCO	7/28/2020 8:19	OLDE MARCO	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Specific Conductance	1610	FNEP-FT-1700	42766 umho/cm	EB AF61200	Unable to determine tidal movement. Chart shows outpoino until 3	CLienhard@Dbe Direct Gra Water Bott		
AF61198F	MARCO	7/28/2020 8:43	JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.85	Specific Conductance	1610	FNEP-FT-1700	49134 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Direct Gra Water Bott		
AF61198BF	MARCO	7/28/2020 8:40	JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	3.55	3.85	Specific Conductance	1610	FDEP-FT-1200	49649 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61197F	MARCO	7/28/2020 9:15	HC CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Specific Conductance	1610	FDEP-FT-1200	47779 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61197BF	MARCO	7/28/2020 9:18	HC CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Specific Conductance	1610	FDEP-FT-1200	47807 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61198F	MARCO	7/28/2020 9:48	COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.70	Specific Conductance	1610	FDEP-FT-1200	47273 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61198BF	MARCO	7/28/2020 9:50	COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	1.40	1.70	Specific Conductance	1610	FDEP-FT-1200	47397 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61199F	MARCO	7/28/2020 10:16	KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Specific Conductance	1610	FDEP-FT-1200	46335 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61210FD	MARCO	7/28/2020 10:18	KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Specific Conductance	1610	FDEP-FT-1200	48499 umho/cm	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61200F	MARCO	7/28/2020 10:52	BARFIELD BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Specific Conductance	1610	FDEP-FT-1200	50591 umho/cm	EB AF61200	Visibley outpoino tide. Boat passed prior to sampling.	CLienhard@Dbe Intermedia Van Dom E		
AF61211F	MARCO	7/28/2020 8:19	OLDE MARCO	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Temperature, Water	2030	FDEP-FT-1400	29.5 deg C	EB AF61200	Unable to determine tidal movement. Chart shows outpoino until 3	CLienhard@Dbe Direct Gra Water Bott		
AF61198F	MARCO	7/28/2020 8:43	JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.85	Temperature, Water	2030	FDEP-FT-1400	30.4 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Direct Gra Water Bott		
AF61198BF	MARCO	7/28/2020 8:45	JH PARK	Field	Field Testing-Discrete	Misc Field Device	SW	3.55	3.85	Temperature, Water	2030	FDEP-FT-1400	30.6 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Direct Gra Water Bott		
AF61197F	MARCO	7/28/2020 9:15	HC CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Temperature, Water	2030	FDEP-FT-1400	30.7 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61197BF	MARCO	7/28/2020 9:18	HC CENTER	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Temperature, Water	2030	FDEP-FT-1400	30.7 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61198F	MARCO	7/28/2020 9:48	COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.70	Temperature, Water	2030	FDEP-FT-1400	30.6 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61198BF	MARCO	7/28/2020 9:50	COLLIER BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	1.40	1.70	Temperature, Water	2030	FDEP-FT-1400	30.6 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61199F	MARCO	7/28/2020 10:16	KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Temperature, Water	2030	FDEP-FT-1400	30.6 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61210FD	MARCO	7/28/2020 10:18	KENDALL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.00	Temperature, Water	2030	FDEP-FT-1400	30.6 deg C	EB AF61200	Visibley outpoino tide.	CLienhard@Dbe Intermedia Van Dom E		
AF61200F	MARCO	7/28/2020 10:52	BARFIELD BRIDGE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Temperature, Water	2030	FDEP-FT-1400	30.1 deg C	EB AF61200	Visibley outpoino tide. Boat passed prior to sampling.	CLienhard@Dbe Intermedia Van Dom E		
AF61209	MARCO	7/28/2020 9:28	HC CENTER	BLANK	BLANK	BLANK	SW	0.3	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK	FCEB taken from C0110667 carboy.	CLienhard@Dbe Intermedia Van Dom E



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Tuesday, July 28, 2020

Sampler: Krystal Silas

Meter/Notes: Josh Gravlin



Certificate No

[4262.01](#)

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

CCV: Morning		Sonde / Handheld	ProDSS #9	Serial #:	18E104142	
Date/Time:	7/28/20 6:43 AM	Operator:	Josh Gravlin	Project:	MARCO	
*** Conductivity ***					Associated Calibration File:	
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail	Calibration_9_072420.xlsm		
70000	13886	70241	Pass			
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00				All CCV Results Pass?		
10.00	14394	9.98	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.48	99.9	23.8	Pass	8.484	763.1
Notes:						
CCV: Afternoon						
Date/Time:	7/28/2020 13:03	Operator:	Josh Gravlin			
*** Conductivity ***						
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail			
10000	11627	9966	Pass			
70000	13887	70671	Pass			
*** pH ***						
pH (QA Criteria +.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00	14384	7.12	Pass	All CCV Results Pass?		
10.00	14394	10.09	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.41	99.4	24.0	Pass	8.456	763.4
Notes:						
Surface Water Field Workbook Rev 17.1				Effective June 1st, 2020		

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Josh Gravlin

Date: 7/28/2020

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	D.O. (% SAT)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF61204	8:18	WINDMILL	30.3	47776	30.96	88.4	5.64	7.87	0.30		3.80	1.50
AF61204B	8:19	WINDMILL	30.3	50372	32.86	81.7	5.16	7.90	3.50		3.80	1.50
Collection Device		VanDorn; CDI: 05512		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2: Yes		Yes
Comments:		Visibly outgoing tide.						Thermally Preserved Within 15 Minutes?		Yes	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)
AF61212	8:33	WINDMILL										
Collection Device		VanDorn; CDI: 05512		Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2: YES		YES
Comments:		FCEB collected from CDI 08334 carboy.						Thermally Preserved Within 15 Minutes?		Yes	Sample Type: FCEB	

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)
AF61206	8:54	HOLLYHOCK	30.6	49008	31.85	77.5	4.90	7.80	0.30		1.80	1.80
AF61206B	8:55	HOLLYHOCK	30.8	49621	32.29	65.2	4.10	7.80	1.50		1.80	1.80
Collection Device		Pole Sampler; CDI: 13545		Cleaning Protocol: J		Flow: No flow.		Staff Gauge:		pH < 2: Yes		Yes
Comments:		No visible tidal movement. Tide schedule outgoing. Vegetative debris on water surface.						Thermally Preserved Within 15 Minutes?		Yes	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)
AF61205	9:18	HUMMINGBIRD	30.8	47932	31.06	97.4	6.17	7.88	0.30		1.90	1.90
AF61205B	9:20	HUMMINGBIRD	30.9	48264	31.30	84.8	5.35	7.87	1.60		1.90	1.90
Collection Device		Pole Sampler; CDI: 13545		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2: Yes		Yes
Comments:		Visibly outgoing tide.						Thermally Preserved Within 15 Minutes?		Yes	Sample Type: SAMP	

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Partly cloudy. 90s.	
Sampling SOP:	FSQM 03-04	24 HRS Prior Weather:	Similar.	

Prepared By: *Joshua Gravlin* Signed: 7/28/2020 1:41:05 PM

Reviewed By: *Krystal Silas* Signed: 7/28/2020 1:35:14 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Josh Gravlin

Date: 7/28/2020

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)
AF61201	9:44	LANDMARK	29.9	46283	29.89	117.4	7.59	8.17	0.30		2.10	2.10
AF61201B	9:45	LANDMARK	31.7	51319	33.51	119.8	7.39	8.03	1.80		2.10	2.10
Collection Device	Pole Sampler; CDI: 13545		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	Yes
Comments:	Visibly outgoing tide. Vegetative debris and trash on water surface.							Thermally Preserved Within 15 Minutes?	Yes	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)
AF61208	10:10	SWALLOW	30.8	46706	30.17	97.4	6.20	7.87	0.30		2.10	2.10
AF61208B	10:12	SWALLOW	31.0	52277	34.23	156.2	9.69	8.18	1.80		2.10	2.10
Collection Device	Pole Sampler; CDI: 13545		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	Yes
Comments:	Stormwater outflow adjacent to sample site (4 feet) discharging water. Vegetative debris and pollen on water surface.							Thermally Preserved Within 15 Minutes?	Yes	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)
AF61603	11:03	W_WINTERBERRY_BRIDGE	30.9	49639	32.30	112.4	7.06	8.07	0.30			1.50
Collection Device	VanDorn; CDI: 05512		Cleaning Protocol: j			Flow:	Flow.	Staff Gauge:			pH < 2:	YES
Comments:	Visibly outgoing tide. Current too strong to determine total depth.							Thermally Preserved Within 15 Minutes?	Yes	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)
AF61608	11:35	E_WINTERBERRY_BRIDGE	31.3	49932	32.50	98.9	6.16	7.93	0.30			1.90
Collection Device	VanDorn; CDI: 05512		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	Yes
Comments:	Visibly outgoing tide. Current too strong to determine total depth. Strong smell of guano from underneath bridge.							Thermally Preserved Within 15 Minutes?	Yes	Sample Type:	SAMP	

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Partly cloudy. 90s.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar.	

Prepared By: Joshua Gravlin

Reviewed By: Krystal Silas

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Josh Gravlin

Date: 7/28/2020

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)
AF61203	12:05	MCILVAINE	30.7	51955	34.01	94.8	5.92	7.95	0.30		2.80	1.70
AF61203B	12:07	MCILVAINE	30.2	52559	34.47	96.1	6.03	7.97	2.50		2.80	1.70
Collection Device	VanDorn; CDI: 05512		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:				pH < 2:	YES
Comments:	Visibly outgoing tide.							Thermally Preserved Within 15 Minutes?	Yes	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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		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:								Thermally Preserved Within 15 Minutes?		Sample Type:		

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?		No
Sites Access By:	Truck	Weather:	Partly cloudy. 90s.		
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar.		

Prepared By: Joshua Gravlin

Reviewed By: Krystal Silas

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Josh Gravlin

Date: 7/28/2020

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:		Thermally Preserved Within 15 Minutes?			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:		Thermally Preserved Within 15 Minutes?			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:		Thermally Preserved Within 15 Minutes?			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:		Thermally Preserved Within 15 Minutes?			Sample Type:							

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix:	SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Partly cloudy. 90s.		
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar.		

Prepared By:	Joshua Gravlin
Reviewed By:	Krystal Silas



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	76877					
2C 1L Opaque HDPE/Light-shielded/Ice	AF60875 / AF60987					
3S 250ml HDPE/H2SO4/Ice	CDI 14914	16 drops	RP15506	Fisher	7/28/2020	JAG/KS
4F 60ml Opaque HDPE/Filtered/Ice	AF61264 / AF51865 / AF55337 / AF52552					
5J 120mL HDPE w/Sodium Thiosulfate/Ice	CDI 12138 / 13469 / 11458					
14 Whatman Polydisc GW 0.45µm	A15785267 / A17569268 / A29352435					

Project	MARCO	MATRIX CODES
Sample Collector(s):		GW Ground Water
Krystal Silas		SW Surface Water
Sample Collector Signature:		WW Waste Water
		DW Drinking Water
		Other _____
Relinquished By: (Signature) _____		
Date/Time	7/28/20 1:35 PM	
Received By: (Signature) _____		
Date/Time	7/28/20 1:35 PM	
Relinquished By: (Signature) _____		
Date/Time	_____	
Received By: (Signature) _____		
Date/Time	_____	

Parameters											Sample Check-In	
Turbidity-PC Chlorophyll-PC, Pheophytin-PC, Prep-Chloro Nitrogen-TKN, Phosphorous-Total, Nitrate-Nitrite, Prep-TKN Nitrite-PC Enterolert-PC 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?	
											Scanned?	

Date	Time	Field pH	Sp. Cond.	Sample Depth	Location	Matrix	# of sample Containers Submitted											Lab ID #	
							1G	2C	3S	4F	5J	Calc							
7/28/2020	8:18	7.87	47776	0.30	WINDMILL	SW	1	1	1	1	1								AF61204
7/28/2020	8:33	#N/A	#N/A	#N/A	WINDMILL	SW	1	1	1	1	1								AF61212
7/28/2020	8:54	7.80	49008	0.30	HOLLYHOCK	SW	1	1	1	1	1								AF61206
7/28/2020	9:18	7.88	47932	0.30	HUMMINGBIRD	SW	1	1	1	1	1								AF61205
7/28/2020	9:44	8.17	46283	0.30	LANDMARK	SW	1	1	1	1	1								AF61201
7/28/2020	10:10	7.87	46706	0.30	SWALLOW	SW	1	1	1	1	1								AF61208
7/28/2020	11:03	8.07	49639	0.30	W_WINTERBERRY_BRIDGE	SW	1	1	1	1	1								AF61603
7/28/2020	11:35	7.93	49932	0.30	E_WINTERBERRY_BRIDGE	SW	1	1	1	1	1								AF61608
7/28/2020	12:05	7.95	51955	0.30	MCILVAINE	SW	1	1	1	1	1								AF61203

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
------------------------	---------------	------------	------	-------------	-------------------	------------------------------

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CRE/ #####

DATE	TIME	SITE	Barometer	Temp (°C)	Cond (µS/c	Sp Cond (µ	Sal (ppt)	pH	pH (mV)
7/28/2020	#####	windmill	764.4	30.3	52639	47776.2	30.96	7.87	-61.9
7/28/2020	#####	windmill	764.3	30.3	55485.3	50372.3	32.86	7.9	-63.7
7/28/2020	#####	af61206	764.9	30.6	54294.2	49007.6	31.85	7.8	-57.7
7/28/2020	#####	af61206	764.9	30.8	55095	49621.1	32.29	7.8	-57.6
7/28/2020	#####	af61205	764.9	30.8	53249	47931.7	31.06	7.88	-62.5
7/28/2020	#####	af61205	764.9	30.9	53734.7	48264.1	31.3	7.87	-62.1
7/28/2020	#####	af61201	765	29.9	50655.3	46283.3	29.89	8.17	-79.5
7/28/2020	#####	af61201	764.9	31.7	57845.2	51319.2	33.51	8.03	-71.3
7/28/2020	#####	af61208	765.1	30.8	51902.1	46706.3	30.17	7.87	-61.7
7/28/2020	#####	af61208	765	31	58279.8	52276.7	34.23	8.18	-80.2
7/28/2020	#####	w wint	764.7	30.9	55247.8	49638.9	32.3	8.07	-73.7
7/28/2020	#####	e wint	764.9	31.3	55916.4	49931.6	32.5	7.93	-65.3
7/28/2020	#####	mcilvaine	764.9	30.7	57561.5	51954.5	34.01	7.95	-66.5
7/28/2020	#####	mcilvaine	764.9	30.2	57784	52559	34.47	7.97	-67.6

ODO (mg/L) ODO (% LocalB)

5.64	88.4
5.16	81.7
4.9	77.5
4.1	65.2
6.17	97.4
5.35	84.8
7.59	117.4
7.39	119.8
6.2	97.4
9.69	156.2
7.06	112.4
6.16	98.9
5.92	94.8
6.03	96.1

Activity ID	Project ID	Activity Start Date	Activity Type	Municipality Location ID	Activity Type	Sample Collection Type	Sample Collection Equipment Name	Main	Activity Depth	Total Depth (ft)	On Analyte Name	ADAPT Analyte ID	Analyte Method	On Result Value	On Result Unit	Field Blank Batch ID	Equipment Blank Batch ID	Master Activity ID	Tri Blank Batch ID	Value Qualifier	Result Comment	Activity Comments	Sample Name	Sample C1	Sample C2	
AF1204F	MARCO	7/28/2020	819	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.50	Dissolved Oxygen	1880	FDEP FT1500	5.64	mg/L		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1204F	MARCO	7/28/2020	819	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	3.50	3.80	Dissolved Oxygen	1880	FDEP FT1500	5.16	mg/L		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1208F	MARCO	7/28/2020	854	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Dissolved Oxygen	1880	FDEP FT1500	4.30	mg/L		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	855	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Dissolved Oxygen	1880	FDEP FT1500	4.10	mg/L		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1202F	MARCO	7/28/2020	918	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.90	Dissolved Oxygen	1880	FDEP FT1500	6.17	mg/L		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	920	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	1.60	1.90	Dissolved Oxygen	1880	FDEP FT1500	5.35	mg/L		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1201F	MARCO	7/28/2020	944	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	Dissolved Oxygen	1880	FDEP FT1500	7.59	mg/L		EB_AFE1212				Visibly outpouring tide. Vegetative debris and trash on water surface	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1201F	MARCO	7/28/2020	945	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	Dissolved Oxygen	1880	FDEP FT1500	7.39	mg/L		EB_AFE1212				Visibly outpouring tide. Vegetative debris and trash on water surface	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	1010	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	Dissolved Oxygen	1880	FDEP FT1500	6.20	mg/L		EB_AFE1212				Stormwater outflow adjacent to sample site (4 feet) discharging wa	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	1012	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	Dissolved Oxygen	1880	FDEP FT1500	9.89	mg/L		EB_AFE1212				Stormwater outflow adjacent to sample site (4 feet) discharging wa	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1603F	MARCO	7/28/2020	1103	W_WINTERBERRY_BRI	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	0.00	Dissolved Oxygen	1880	FDEP FT1500	7.06	mg/L		EB_AFE1212				Visibly outpouring tide. Current too strong to determine total depth.	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1603F	MARCO	7/28/2020	1103	W_WINTERBERRY_BRI	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	0.00	Dissolved Oxygen	1880	FDEP FT1500	6.16	mg/L		EB_AFE1212				Visibly outpouring tide. Current too strong to determine total depth.	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1208F	MARCO	7/28/2020	1205	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.80	Dissolved Oxygen	1880	FDEP FT1500	5.92	mg/L		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1208F	MARCO	7/28/2020	1207	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	2.50	2.80	Dissolved Oxygen	1880	FDEP FT1500	6.03	mg/L		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1204F	MARCO	7/28/2020	818	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.80	Dissolved Oxygen Saturation	WIN-011	ENR9 FT1100	89.4	%		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1204F	MARCO	7/28/2020	819	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	3.50	3.80	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	81.7	%		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1205F	MARCO	7/28/2020	854	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Dissolved Oxygen Saturation	WIN-011	ENR9 FT1100	77.4	%		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	855	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Dissolved Oxygen Saturation	WIN-011	ENR9 FT1100	67.9	%		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	855	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.90	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	69.4	%		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1205F	MARCO	7/28/2020	918	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.90	Dissolved Oxygen Saturation	WIN-011	ENR9 FT1100	69.4	%		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	920	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	1.60	1.90	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	69.4	%		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1201F	MARCO	7/28/2020	944	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	117.4	%		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1201F	MARCO	7/28/2020	945	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	119.8	%		EB_AFE1212				Visibly outpouring tide. Vegetative debris and trash on water surface	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	1010	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	97.4	%		EB_AFE1212				Stormwater outflow adjacent to sample site (4 feet) discharging wa	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	1012	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	109.2	%		EB_AFE1212				Stormwater outflow adjacent to sample site (4 feet) discharging wa	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1603F	MARCO	7/28/2020	1103	W_WINTERBERRY_BRI	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	0.00	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	112.4	%		EB_AFE1212				Visibly outpouring tide. Current too strong to determine total depth.	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1603F	MARCO	7/28/2020	1103	W_WINTERBERRY_BRI	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	0.00	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	98.9	%		EB_AFE1212				Visibly outpouring tide. Current too strong to determine total depth.	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1203F	MARCO	7/28/2020	1205	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.80	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	94.8	%		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1203F	MARCO	7/28/2020	1207	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	2.50	2.80	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	96.1	%		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1204F	MARCO	7/28/2020	818	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.80	pH	1900	FDEP FT1100	7.87	pH		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1204F	MARCO	7/28/2020	819	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	3.50	3.80	pH	1900	FDEP FT1100	7.90	pH		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1208F	MARCO	7/28/2020	854	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	pH	1900	FDEP FT1100	7.80	pH		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	855	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	pH	1900	FDEP FT1100	7.80	pH		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1205F	MARCO	7/28/2020	918	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.90	pH	1900	FDEP FT1100	7.88	pH		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	920	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	1.60	1.90	pH	1900	FDEP FT1100	7.87	pH		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1201F	MARCO	7/28/2020	944	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	pH	1900	FDEP FT1100	8.17	pH		EB_AFE1212				Visibly outpouring tide. Vegetative debris and trash on water surface	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1201F	MARCO	7/28/2020	945	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	pH	1900	FDEP FT1100	8.03	pH		EB_AFE1212				Visibly outpouring tide. Vegetative debris and trash on water surface	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	1010	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	pH	1900	FDEP FT1100	7.87	pH		EB_AFE1212				Stormwater outflow adjacent to sample site (4 feet) discharging wa	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	1012	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	pH	1900	FDEP FT1100	8.18	pH		EB_AFE1212				Stormwater outflow adjacent to sample site (4 feet) discharging wa	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1603F	MARCO	7/28/2020	1103	W_WINTERBERRY_BRI	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	0.00	pH	1900	FDEP FT1100	7.93	pH		EB_AFE1212				Visibly outpouring tide. Current too strong to determine total depth.	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1603F	MARCO	7/28/2020	1103	W_WINTERBERRY_BRI	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	0.00	pH	1900	FDEP FT1100	7.95	pH		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1203F	MARCO	7/28/2020	1205	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.80	pH	1900	FDEP FT1100	7.97	pH		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1204F	MARCO	7/28/2020	818	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	3.80	Salinity	1975	ENR9 FT1100	70.46	ccm		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1204F	MARCO	7/28/2020	819	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	3.50	3.80	Salinity	1975	ENR9 FT1100	70.46	ccm		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Intermedia	Van Dom	E	
AF1208F	MARCO	7/28/2020	854	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.80	Salinity	1975	FDEP FT1300	31.85	ccm		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	855	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	1.50	1.80	Salinity	1975	FDEP FT1300	32.29	ccm		EB_AFE1212				No visible tidal movement. Tide schedule outgoing. Vegetative deb	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1205F	MARCO	7/28/2020	918	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.90	Salinity	1975	FDEP FT1300	31.06	ccm		EB_AFE1212				Visibly outpouring tide. Flow	JGarvin/KS/Slas	Direct	Gra	Water Bott	
AF1208F	MARCO	7/28/2020	920	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	1.60	1.90	Salinity	1														

