

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-533-8600



To: Natural Resources Management
1500 Monroe St
Fort Myers FL 33901
RE: Tidal Caloosa

Report Date: 7/31/2024

Below are the results of samples submitted to this laboratory on 7/17/2024

Laboratory ID	AF96671	Collection date and time	7/17/2024 11:00 AM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #387		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.63		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Pheophytin	2.27		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	7/18/2024	10:17 AM	SM5210B-2016
Color	48.8		CU	1.25	5.00	7/18/2024	6:04 AM	SM21 2120 C
Specific Conductance, By Client	17400		µmhos/cm			7/17/2024	11:00 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	5.61		mg/L			7/17/2024	11:00 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/17/2024	3:09 PM	Enterolert®
Ammonia as N	0.021	I	mg/L as N	0.014	0.056	7/19/2024	9:33 AM	EPA 350.1
Nitrite as N	0.013		mg/L as N	0.003	0.012	7/18/2024	2:10 PM	EPA 353.2
Nitrate as N	0.117		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrate + Nitrite as N	0.130		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrogen, Organic	0.91		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN - NH3
Phosphorus, Ortho as P	0.092		mg/L as P	0.005	0.020	7/18/2024	6:41 AM	EPA 365.1
pH, Field (electrometric) by Client	8.08		units			7/17/2024	11:00 AM	FDEP FT1100
Salinity by meter by Client	10.16		SU			7/17/2024	11:00 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.5		meters			7/17/2024	11:00 AM	FDEP FT 1700
Depth of Water Body	1.9		Meters			7/17/2024	11:00 AM	FS2100
Field Temperature by client	36.0		°C			7/17/2024	11:00 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.93		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	7/25/2024	3:24 PM	SM5310B-2014
Phosphorus, Total as P	0.13		mg/L as P	0.006	0.024	7/23/2024	6:49 AM	EPA 365.1
Total Suspended Solids	1.30	I	mg/L	0.6	2.4	7/18/2024	8:55 AM	SM2540D-2015

Report Format: NELAC

DOH #E45049



Laboratory ID	AF96671	Collection date and time	7/17/2024 11:00 AM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #387		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Turbidity (Nephelometric)	1.62		NTU	0.2	0.8	7/18/2024	1:33 PM	EPA 180.1

Laboratory ID	AF96672	Collection date and time	7/17/2024 10:30 AM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #326		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.69	I	mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Pheophytin	2.32		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	7/18/2024	10:17 AM	SM5210B-2016
Color	34.9		CU	1.25	5.00	7/18/2024	6:04 AM	SM21 2120 C
Specific Conductance, By Client	29400		µmhos/cm			7/17/2024	10:30 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	4.49		mg/L			7/17/2024	10:30 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/17/2024	3:09 PM	Enterolert®
Ammonia as N	0.025	I	mg/L as N	0.014	0.056	7/19/2024	9:33 AM	EPA 350.1
Nitrite as N	0.008	I	mg/L as N	0.003	0.012	7/18/2024	2:10 PM	EPA 353.2
Nitrate as N	0.040		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrate + Nitrite as N	0.048		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrogen, Organic	0.80		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN - NH3
Phosphorus, Ortho as P	0.068		mg/L as P	0.005	0.020	7/18/2024	6:41 AM	EPA 365.1
pH, Field (electrometric) by Client	7.91		units			7/17/2024	10:30 AM	FDEP FT1100
Salinity by meter by Client	18.02		SU			7/17/2024	10:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.5		meters			7/17/2024	10:30 AM	FDEP FT 1700
Depth of Water Body	2.8		Meters			7/17/2024	10:30 AM	FS2100
Field Temperature by client	31.4		°C			7/17/2024	10:30 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.82		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	EPA 351.2
Nitrogen, Total	0.87		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN + NOX
Total Organic Carbon (NPOC)	9.7		mg/L	1	4	7/25/2024	3:24 PM	SM5310B-2014
Phosphorus, Total as P	0.098		mg/L as P	0.006	0.024	7/23/2024	6:49 AM	EPA 365.1
Total Suspended Solids	3.10		mg/L	0.6	2.4	7/18/2024	8:55 AM	SM2540D-2015
Turbidity (Nephelometric)	1.17		NTU	0.2	0.8	7/18/2024	1:33 PM	EPA 180.1



Laboratory ID	AF96673	Collection date and time	7/17/2024 11:35 AM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #418		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.97		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Pheophytin	8.06		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	7/18/2024	10:17 AM	SM5210B-2016
Color	74.8		CU	1.25	5.00	7/18/2024	6:04 AM	SM21 2120 C
Specific Conductance, By Client	1300		µmhos/cm			7/17/2024	11:35 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.56		mg/L			7/17/2024	11:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/17/2024	3:09 PM	Enterolert®
Ammonia as N	0.046	I	mg/L as N	0.014	0.056	7/19/2024	9:33 AM	EPA 350.1
Nitrite as N	0.017		mg/L as N	0.003	0.012	7/18/2024	2:10 PM	EPA 353.2
Nitrate as N	0.140		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrate + Nitrite as N	0.157		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrogen, Organic	0.76		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN - NH3
Phosphorus, Ortho as P	0.126		mg/L as P	0.005	0.020	7/18/2024	6:41 AM	EPA 365.1
pH, Field (electrometric) by Client	8.36		units			7/17/2024	11:35 AM	FDEP FT1100
Salinity by meter by Client	0.64		SU			7/17/2024	11:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.1		meters			7/17/2024	11:35 AM	FDEP FT 1700
Depth of Water Body	1.6		Meters			7/17/2024	11:35 AM	FS2100
Field Temperature by client	30.6		°C			7/17/2024	11:35 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.81		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	EPA 351.2
Nitrogen, Total	0.97		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN + NOX
Total Organic Carbon (NPOC)	18		mg/L	1	4	7/25/2024	3:24 PM	SM5310B-2014
Phosphorus, Total as P	0.17		mg/L as P	0.006	0.024	7/23/2024	6:49 AM	EPA 365.1
Total Suspended Solids	1.90	I	mg/L	0.6	2.4	7/18/2024	8:55 AM	SM2540D-2015
Turbidity (Nephelometric)	2.29		NTU	0.2	0.8	7/18/2024	1:33 PM	EPA 180.1

Laboratory ID	AF96674	Collection date and time	7/17/2024 12:30 PM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #442		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.38		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Pheophytin	4.05		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	7/18/2024	10:17 AM	SM5210B-2016
Color	104		CU	1.25	5.00	7/18/2024	6:04 AM	SM21 2120 C
Specific Conductance, By Client	600		µmhos/cm			7/17/2024	12:30 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.21		mg/L			7/17/2024	12:30 PM	FDEP FT1500

Report Format: NELAC

DOH #E45049



Laboratory ID	AF96674	Collection date and time	7/17/2024 12:30 PM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #442		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Enterococci	10	U	MPN/100mL	10		7/17/2024	3:09 PM	Enterolert®
Ammonia as N	0.029	I	mg/L as N	0.014	0.056	7/19/2024	9:33 AM	EPA 350.1
Nitrite as N	0.054		mg/L as N	0.003	0.012	7/18/2024	2:10 PM	EPA 353.2
Nitrate as N	0.213		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrate + Nitrite as N	0.267		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrogen, Organic	0.97		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN - NH3
Phosphorus, Ortho as P	0.145		mg/L as P	0.005	0.020	7/18/2024	6:41 AM	EPA 365.1
pH, Field (electrometric) by Client	8.12		units			7/17/2024	12:30 PM	FDEP FT1100
Salinity by meter by Client	0.26		SU			7/17/2024	12:30 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.0		meters			7/17/2024	12:30 PM	FDEP FT 1700
Depth of Water Body	2.6		Meters			7/17/2024	12:30 PM	FS2100
Field Temperature by client	31.5		°C			7/17/2024	12:30 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.0		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN + NOX
Total Organic Carbon (NPOC)	21		mg/L	1	4	7/25/2024	3:24 PM	SM5310B-2014
Phosphorus, Total as P	0.19		mg/L as P	0.006	0.024	7/23/2024	6:49 AM	EPA 365.1
Total Suspended Solids	1.000	I	mg/L	0.6	2.4	7/18/2024	8:55 AM	SM2540D-2015
Turbidity (Nephelometric)	2.08		NTU	0.2	0.8	7/18/2024	1:33 PM	EPA 180.1

Laboratory ID	AF96675	Collection date and time	7/17/2024 1:00 PM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #454		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	5.75		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Pheophytin	4.35		mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Biochemical Oxygen Demand 5 day	1.7		mg/L	0.3	1.2	7/18/2024	10:17 AM	SM5210B-2016
Color	130		CU	1.25	5.00	7/18/2024	6:04 AM	SM21 2120 C
Specific Conductance, By Client	500		µmhos/cm			7/17/2024	1:00 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	3.63		mg/L			7/17/2024	1:00 PM	FDEP FT1500
Enterococci	10		MPN/100mL	10		7/17/2024	3:09 PM	Enterolert®
Ammonia as N	0.014	I	mg/L as N	0.014	0.056	7/19/2024	9:33 AM	EPA 350.1
Nitrite as N	0.090		mg/L as N	0.003	0.012	7/18/2024	2:10 PM	EPA 353.2
Nitrate as N	0.228		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrate + Nitrite as N	0.318		mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrogen, Organic	0.97		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN - NH3

Report Format: NELAC

DOH #E45049



Laboratory ID	AF96675	Collection date and time	7/17/2024 1:00 PM
Location Code	CRNEP_RS	Sample Collector	RIESTADT/JAEGER
Sample Description	Grid #454		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Phosphorus, Ortho as P	0.167		mg/L as P	0.005	0.020	7/18/2024	6:41 AM	EPA 365.1
pH, Field (electrometric) by Client	7.93		units			7/17/2024	1:00 PM	FDEP FT1100
Salinity by meter by Client	0.25		SU			7/17/2024	1:00 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.6		meters			7/17/2024	1:00 PM	FDEP FT 1700
Depth of Water Body	1.5		Meters			7/17/2024	1:00 PM	FS2100
Field Temperature by client	31.7		°C			7/17/2024	1:00 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.98		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN + NOX
Total Organic Carbon (NPOC)	21		mg/L	1	4	7/25/2024	3:24 PM	SM5310B-2014
Phosphorus, Total as P	0.22		mg/L as P	0.006	0.024	7/23/2024	6:49 AM	EPA 365.1
Total Suspended Solids	3.55		mg/L	0.6	2.4	7/18/2024	8:55 AM	SM2540D-2015
Turbidity (Nephelometric)	6.17		NTU	0.2	0.8	7/18/2024	1:33 PM	EPA 180.1

Laboratory ID	AF96676	Collection date and time	7/17/2024 2:30 PM
Location Code	CRNEP_EQ	Sample Collector	RIESTADT/JAEGER
Sample Description	Equipment Blank Grid #454		

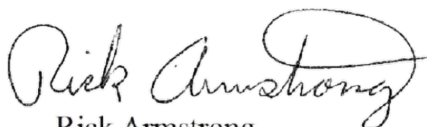
Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.50	U	mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Pheophytin	0.50	U	mg/M3	0.5	2	7/29/2024	1:02 PM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	7/18/2024	10:17 AM	SM5210B-2016
Color	1.25	U	CU	1.25	5.00	7/18/2024	6:04 AM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		7/17/2024	3:09 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	7/19/2024	9:33 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	7/18/2024	2:10 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	7/18/2024	2:10 PM	EPA 353.2
Nitrogen, Organic	0.1000	U	mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	7/18/2024	6:41 AM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	7/23/2024	6:42 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	7/23/2024	6:42 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	7/25/2024	3:24 PM	SM5310B-2014
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	7/23/2024	6:49 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	7/18/2024	8:55 AM	SM2540D-2015
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	7/18/2024	1:33 PM	EPA 180.1



Qualifiers:

- I The value is less than, or equal to, the laboratory's practical quantitation limit (PQL) and greater than the minimum detection limit (MDL).
- U Indicates that the compound was analyzed for but not detected.

Unless noted otherwise, these test results meet all the requirements of the 2016 NELAC/ TNI Standards. The results provided herein relate only to the samples cited as they were received by the laboratory. All questions regarding this report should be directed to Rick Armstrong, Laboratory Manager.


Rick Armstrong
Lab Manager
Lee County Environmental Lab



LCEL

Lee County Environmental Laboratory
60 S Danley Dr Unit 2
Fort Myers, FL 33907
Phone: (239) 533-8600

Analysis Request

&

Chain of Custody Record

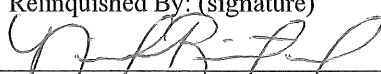
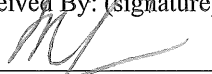
Lab Certification: E45049
LCEL F COC 20150828R1

LCEL does not accept any samples used for evidentiary purposes

Report/Result Information

Billing/Invoice Information

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Name: Tidal Caloosa		Name: DNRM		Matrix Codes: DW-Drinking water GW- Ground water WW-Waste water SW-Surface water WWS-Wastewater Sludge S-Sediment O-Other		Preservative Codes: NP-No Preservative N-Nitric Acid S-Sulfuric Acid H-Hydrochloric Acid SH-Sodium Hydroxide ST-Sodium Thiosulfate O-Other				
Distrib List: FDEP - South		RE: CCHMN-Tidal Caloosa								
Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901		Address: 1500 Monroe St Ft Myers, FL 33901								
Phone: (239) 344-5719		Phone: (239) 533-8109								
Sample Collector(s) (please print): Nicole Reistad/Monica Jaeger		Sample Collector Signature: 		Analyses Required \$Chloroa, _prep O-PO4, Color, NOX TOC NH3, TKN, TN, T-PO4, NO3, ONIT Turb, NO2, TSS, Bod, Bodi Enterro						
Relinquished By: (signature) 	Date 07/17/24	Time 1505	Received By: (signature) 							
Relinquished By: (signature)	Date	Time	Received By: (signature)							
Relinquished By: (signature)	Date	Time	Received By: (signature)							
Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 3.4°C				NP	NPF	S	S	NP	ST	
Collection Date Time	Sample Description & Location		Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
07/17/24 1100	CRNEP_RS #387		SWE	1	1	1	1	2	1	AF96671
07/17/24 1030	CRNEP_RS #326		SWE	1	1	1	1	2	1	AF96672
07/17/24 1135	CRNEP_RS #418		SWE	1	1	1	1	2	1	AF96673
07/17/24 1230	CRNEP_RS #442		SWE	1	1	1	1	2	1	AF96674
07/17/24 1300	CRNEP_RS #454		SWE	1	1	1	1	2	1	AF96675
07/17/24 1430	CRNEP_EQ # @ 454		SWE	1	1	1	1	2	1	AF96676

**SAMPLES SHOULD BE IN WET ICE & LESS THAN 6° C (42.8°F)
OR THEY MAYBE QUALIFIED***

*Qualified = the data may not be accurate and regulatory agencies may not accept qualified data.

CCHMN TIDAL CALOOSAHATCHEE DATA SHEET

Site WIN Code:

Date: 07/17/2024	Site# 387	Region: 1 2	Blank Time:	Blank WIN Code:
Time: 1100	Sonde: President 3 4 5		DUP Time:	Duplicate WIN Code:
Collecting Agency: FDEP	Camacho		Bottom Time:	Bottom WIN Code:
GPS Selected:	GPS Actual:	Weather Conditions:		
Lat: 26.5309192	Lat: 26.53169	Wind dir/spd: E/5 (mph or knots (circle))		
Long: -81.96697775	Long: -81.96683	Wave ht: 0.01 ft m (Circle)		
Samplers/FDEP: NR MJ		Cld cover (%): 10 Hazy Clear Fog Rain		
Sampler Signature: [Signature]		Tide Level: LS LR LF L=Low; M=Mid, H=High		
Water Depth & Secchi:		MR MF HR HS HF S=Slack, R=Rising, F=Falling		
Total Depth/m	Disappearance Depth/m	Reappearance Depth/m	Secchi Average/m	Water Data: (0.01)
1.9	1.5	1.5	1.5	Time: 1100
BOTTOM TYPE: seagrass (mud) sand hard bottom UNK				Sample Depth (m)
PAR Data: (umol/m ² /s)				Water Temp. (°C)
Air Sensor	Shallow In-Water Sensor	Deep In-Water Sensor		Conductivity (mS/cm)
Depth (m)	Deck	0.5 m	1.0 m	Salinity (°/oo)
Reading:				Dissolved Oxygen (mg/l)
Time:				Dissolved Oxygen (%)
Depth (m)	Deck	m	m	pH
Reading:				
Time:				
Depth (m)	Deck	m	m	
Reading:				
Time:				
Additional Comments & Observations: site was in the TWR, so we sampled directly west of the coordinates outside the channel.				
Pre/Post PAR readings; (Only on 1st & last sample of trip)				
Time:				
Air:	UW Shallow:	UW Deep:		Type
				FLO
				SID

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CCHMN TIDAL CALOOSAHATCHEE DATA SHEET

Site WIN Code:

Date: 07/17/2024	Site# 326	Region: 1 2	Blank Time:	Blank WIN Code:							
Time: 1030	Sonde: President 3 4 5		DUP Time:	Duplicate WIN Code:							
Collecting Agency: FDEP	Camacho		Bottom Time:	Bottom WIN Code:							
GPS Selected:	GPS Actual:	Weather Conditions:									
Lat: 26.53295123	Lat: 26.53319	Wind dir/spd: E/S mph or knots (circle)									
Long: -82.00618082	Long: -82.00611	Wave ht: 0.01 ft (m (Circle))									
Samplers/FDEP: NR MJ		Cld cover (%): 10 Hazy Clear Fog Rain									
Sampler Signature: [Signature]		Tide Level: LS LR LF L=Low, M=Mid, H=High									
		MR MF HR HS HF S=Slack, R=Rising, F=Falling									
Water Depth & Secchi:				Water Data: (0.01)							
Total Depth/m	Disappearance Depth/m	Reappearance Depth/m	Secchi Average/m	Time:	Sample Depth (m)	Water Temp. (°C)	Conductivity (mS/cm)	Salinity (‰)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (%)	pH
2.8	2.5	2.5	2.5	1030	0.5	31.4	29373	18.02	4.49	67.1	7.91
BOTTOM TYPE: seagrass mud sand hard bottom UNK				1032	1	31.2	32479	20.14	5.03	75.9	8.07
PAR Data: (umol/m²/s)	Air Sensor	Shallow In-Water Sensor	Deep In-Water Sensor	1033	2	31.1	34296	21.38	5.36	81.1	8.08
Depth (m)	Deck	0.5 m	1.0 m		3						
Reading:					4						
Time:					5						
Depth (m)	Deck	m	m		6						
Reading:					7						
Time:				1034	Bottom Depth 2.3	31.1	34387	21.45	5.36	81.2	8.06
Depth (m)	Deck	m	m		Blank						
Reading:				Additional Comments & Observations:							
Time:											
Pre/Post PAR readings; (Only on 1st & last sample of trip)						Time:		Type	SID		
Air: UW Shallow: UW Deep:								FLO			

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CCHMN TIDAL CALOOSAHATCHEE DATA SHEET

Site WIN Code:

Date: 07/17/2024	Site# 418	Region: 1 2	Blank Time:	Blank WIN Code:						
Time: 1135	Sonde: President 3 4 5		DUP Time:	Duplicate WIN Code:						
Collecting Agency: FDEP	Camacho		Bottom Time:	Bottom WIN Code:						
GPS Selected:	GPS Actual:	Weather Conditions:								
Lat: 26.59998945	Lat: 26.60017	Wind dir/spd: E/5 mph or knots (circle)								
Long: -81.91654156	Long: -81.91649	Wave ht: 0.01 ft (m) (Circle)								
Samplers/FDEP: (NR) (MJ)		Cld cover (%): 10 Hazy Clear Fog Rain								
Sampler Signature: [Signature]		Tide Level: LS LR LF L=Low; M=Mid, H=High								
		MR MF HR (HS) HF S=Slack, R=Rising, F=Falling								
Water Depth & Secchi:				Water Data: (0.01)						
Total Depth/m	Disappearance Depth/m	Reappearance Depth/m	Secchi Average/m	Sample Depth (m)	Water Temp. (°C)	Conductivity (mS/cm)	Salinity (‰)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (%)	pH
1.6	1.1	1.1	1.1	0.5	30.6	1294	0.64	6.56	88.0	8.36
BOTTOM TYPE: seagrass (mud) sand hard bottom UNK				1						
PAR Data: (umol/m ² /s)	Air Sensor	Shallow In-Water Sensor	Deep In-Water Sensor	2						
				3						
Depth (m)	Deck	0.5 m	1.0 m	4						
Reading:				5						
Time:				6						
Depth (m)	Deck	m	m	7						
Reading:				1137 Bottom Depth 1.1	30.4	1438	0.71	6.47	86.4	8.22
Time:				Blank						
Depth (m)	Deck	m	m	Additional Comments & Observations:						
Reading:										
Time:										
Pre/Post PAR readings; (Only on 1st & last sample of trip) Time:								Type	SID	
Air: UW Shallow: UW Deep:								FLO		

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CCHMN TIDAL CALOOSAHATCHEE DATA SHEET

Site WIN Code:

Date: 07/17/2024	Site# 442	Region: 1 2	Blank Time:	Blank WIN Code:
Time: 1230	Sonde: President	3 4 5	DUP Time:	Duplicate WIN Code:
Collecting Agency: FDEP	Camacho		Bottom Time:	Bottom WIN Code:
GPS Selected:	GPS Actual:	Weather Conditions:		
Lat: 26.66224818	Lat: 26.66223	Wind dir/spd: E/S mph or knots (circle)		
Long: -81.86951581	Long: -81.86950	Wave ht: 0.01 ft (m (Circle))		
Samplers/FDEP: (NR) MJ		Cld cover (%): 10 Hazy (Clear) Fog Rain		
Sampler Signature: [Signature]		Tide Level: LS LR LF L=Low; M=Mid, H=High		
Water Depth & Secchi:		MR MF HR (HS) HF S=Slack, R=Rising, F=Falling		
Total Depth/m	Disappearance Depth/m	Reappearance Depth/m	Secchi Average/m	Water Data: (0.01)
2.6	1.0	1.0	1.0	Time: Sample Depth (m) Water Temp. (°C) Conductivity (mS/cm) Salinity (°/oo) Dissolved Oxygen (mg/l) Dissolved Oxygen (%) pH
BOTTOM TYPE: seagrass mud sand hard bottom UNK				1230 0.5 31.5 550 0.26 6.21 84.3 8.12
PAR Data: (umol/m²/s)	Air Sensor	Shallow In-Water Sensor	Deep In-Water Sensor	1231 1 31.1 552 0.26 5.92 79.9 8.04
Depth (m)	Deck	0.5 m	1.0 m	1232 2 31.0 552 0.26 5.78 78.6 8.02
Reading:				3
Time:				4
Depth (m)	Deck	m	m	5
Reading:				6
Time:				7
Depth (m)	Deck	m	m	Bottom Depth 2.1 31.0 552 0.26 5.81 78.4 8.09
Reading:				Blank
Time:				
Additional Comments & Observations:				
Pre/Post PAR readings; (Only on 1st & last sample of trip) Time:				Type
Air: UW Shallow: UW Deep:				SID
				FLO

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CCHMN TIDAL CALOOSAHATCHEE DATA SHEET

Site WIN Code:

Date: 07/17/2024	Site# 454	Region: 1 2	Blank Time: 1430	Blank WIN Code:	
Time: 1300	Sonde: President 3 4 5		DUP Time:	Duplicate WIN Code:	
Collecting Agency: FDEP	Camacho		Bottom Time:	Bottom WIN Code:	
GPS Selected:	GPS Actual:	Weather Conditions:			
Lat: 26.69051863	Lat: 26.69056	Wind dir/spd: E/5 mph or knots (circle)			
Long: -81.82372896	Long: -81.82370	Wave ht: 0.00 ft (m (Circle))			
Samplers/FDEP: NR MJ		Cld cover (%): 10 Hazy (Circle) Fog Rain			
Sampler Signature: [Signature]		Tide Level: LS LR LF L=Low; M=Mid, H=High			
		MR MF HR HS HF S=Slack, R=Rising, F=Falling			
Water Depth & Secchi:		Water Data: (0.01)			
Total Depth/m	Disappearance Depth/m	Reappearance Depth/m	Secchi Average/m	Sample Depth (m)	Water Temp. (°C)
1.5	0.6	0.6	0.6	0.5	32.0
BOTTOM TYPE: seagrass (mud) sand hard bottom UNK				1	31.7
PAR Data: (umol/m ² /s)	Air Sensor	Shallow In-Water Sensor	Deep In-Water Sensor	2	
Depth (m)	Deck	0.5 m	1.0 m	3	
Reading:				4	
Time:				5	
Depth (m)	Deck	m	m	6	
Reading:				7	
Time:				Bottom Depth	30.9
Depth (m)	Deck	m	m	Blank	532
Reading:					0.25
Time:					2.78
					37.5
					7.87
Additional Comments & Observations:					
Pre/Post PAR readings; (Only on 1st & last sample of trip)				Time:	
Air: UW Shallow: UW Deep:				Type	
				SID	
				FLO	

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Sample Project Name		CCHMN RANDOM (Tidal Caloosa)		Lot Number		Expiry	
Number of sample sites:		6		H2SO4		3121040	
Sites:				ST		230913	
387, 326, 418, 442, 454, EB				TOC		3GJ0321	
						10/10/2050	
				Filter BC#		16713	
Note: All sample bottles submitted should be in ice.							
Analysis Number	Analysis	BottleType & Volume	Preservative (see codes)	Number of bottles per site	Total Bottles	Preservative codes:	
1	MMomug2QT	Plastic -100 mL	ST	1	6	NP = No preservative	
2	Entero	Plastic -100 mL	ST	Use bottle from analysis 1		NPF = No preservative Filtered	
3	Chloroa	Plastic - Amber 1 L	NP	1	6	N = Nitric Acid	
4	Chloroa_prep	Plastic - Amber 1 L	NP	Use bottle from analysis 3		S = Sulfuric Acid	
5	BOD	Plastic- 1 L	NP	2	12	ZA = Zinc Acetate	
6	BODI	Plastic- 1 L	NP	Use bottle from analysis 5		NAOH = Sodium Hydroxide	
7	Color	Plastic- 250ml	NPF	Use bottle from analysis 13		HCL= Hydrochloric Acid	
8	NOX	Plastic- 250ml	S	1	6	ST = Sodium Thiosulfate	
9	NO2	Plastic- 1 L	NP	Use bottle from analysis 5		SM = Iodide Azide & Manganous Sulfate	
10	NO3	Calculated Field				MCAA = Momochlorohaloacetic Acid	
11	TSS	Plastic- 1 L	NP	Use bottle from analysis 5		NH4CL = Ammonium Chloride	
12	Turb	Plastic- 1 L	NP	Use bottle from analysis 5		EDA = Ethylenediamine	
13	O-PO4	Plastic- 250ml	NPF	1	6	H2SO4= Sulfuric Acid	
14	Silica	Plastic- 250ml	NPF	Use bottle from analysis 13		AA= Ascorbic Acid	
15	TKN	Plastic- 250ml	S	Use bottle from analysis 8			
16	TN	Calculated Field					
17	T-PO4	Plastic- 250ml	S	Use bottle from analysis 8		Shipping= 0	
18	NH3	Plastic- 250ml	S	Use bottle from analysis 8			
19	TOC	Glass - 40 mL Vial	S	1	6		
				TOTAL BOTTLES:	42		
Bottles:							
Plastic 1 litre	20240508-950						
Plastic 250 mL	20240207-250						
NOTE: Put 1 syringes and #sites + 2 extra filters in kit							
* Every month you start with 5 sites and an EQ Blank. The bottom sites are added when needed.							
Location code for Bottom sites is CRNEP_RSBOT							
Location code for Blank site is CRNEP_EQ							
Completed By:		Mishel Mullan		Verified By:		Mishel Mullan	