

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: 6/10/2021

Below are the results of samples submitted to this laboratory on 5/26/2021

Laboratory ID	AE87119	Collection date and time	5/26/2021 11:15 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #423		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.41	I	mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Pheophytin	3.85		mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.1	I	mg/L	0.3	1.2	5/27/2021	11:21 AM	SM 5210 B
Color	37.6		CU	1.25	5.00	5/26/2021	2:55 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.22		mg/L			5/26/2021	11:15 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/26/2021	2:44 PM	Enterolert®
Ammonia	0.015	I	mg/L as N	0.014	0.056	5/28/2021	8:58 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	5/27/2021	10:34 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrogen, Organic	0.84		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN - NH3
Phosphorus, Ortho	0.052		mg/L as P	0.004	0.016	5/26/2021	2:40 PM	EPA 365.1
Salinity by meter by Client	8.01		SU			6/1/2021	11:15 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.05		meters			6/1/2021	11:15 AM	FDEP FT 1700
Silica, dissolved as SiO2	5.2		mg/L as SiO2	0.1	0.4	5/26/2021	2:40 PM	SM4500-SiO2 C
Depth of Water Body	1.2		Meters			6/1/2021	11:15 AM	FS2100
Nitrogen, Kjeldahl, Total	0.85		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	EPA 351.2
Nitrogen, Total	0.85		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN + NOX
Total Organic Carbon	13		mg/L	1	4	5/28/2021	6:27 AM	SM 5310 B
Phosphorus, Total	0.089		mg/L as P	0.006	0.024	5/27/2021	9:05 AM	EPA 365.1
Total Suspended Solids	4.25		mg/L	0.6	2.4	5/27/2021	9:47 AM	SM 2540 D
Turbidity (Nephelometric)	3.04		NTU	0.2	0.8	5/27/2021	11:53 AM	EPA 180.1



Laboratory ID	AE87120	Collection date and time	5/26/2021 12:05 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #454		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	13.40		mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Pheophytin	5.44		mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.7		mg/L	0.3	1.2	5/27/2021	11:21 AM	SM 5210 B
Color	47.9		CU	1.25	5.00	5/26/2021	2:55 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.51		mg/L			5/26/2021	12:05 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/26/2021	2:44 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	5/28/2021	8:58 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	5/27/2021	10:34 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrogen, Organic	0.98		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN - NH3
Phosphorus, Ortho	0.036		mg/L as P	0.004	0.016	5/26/2021	2:40 PM	EPA 365.1
Salinity by meter by Client	2.82		SU			5/26/2021	12:05 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			5/26/2021	12:05 PM	FDEP FT 1700
Silica, dissolved as SiO2	7.3		mg/L as SiO2	0.1	0.4	5/26/2021	2:40 PM	SM4500-SiO2 C
Depth of Water Body	1.6		Meters			5/26/2021	12:05 PM	FS2100
Nitrogen, Kjeldahl, Total	0.98		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	EPA 351.2
Nitrogen, Total	0.98		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN + NOX
Total Organic Carbon	15		mg/L	1	4	5/28/2021	6:27 AM	SM 5310 B
Phosphorus, Total	0.089		mg/L as P	0.006	0.024	5/27/2021	9:05 AM	EPA 365.1
Total Suspended Solids	6.00		mg/L	0.6	2.4	5/27/2021	9:47 AM	SM 2540 D
Turbidity (Nephelometric)	5.24		NTU	0.2	0.8	5/27/2021	11:53 AM	EPA 180.1

Laboratory ID	AE87121	Collection date and time	5/26/2021 9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #396		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.33		mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Pheophytin	0.90	I	mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	2.3		mg/L	0.3	1.2	5/27/2021	11:21 AM	SM 5210 B
Color	32.3		CU	1.25	5.00	5/26/2021	2:55 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	4.94		mg/L			5/26/2021	9:25 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/26/2021	2:44 PM	Enterolert®
Ammonia	0.020	I	mg/L as N	0.014	0.056	5/28/2021	8:58 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	5/27/2021	10:34 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AE87121	Collection date and time	5/26/2021 9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #396		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrogen, Organic	0.79		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN - NH3
Phosphorus, Ortho	0.041		mg/L as P	0.004	0.016	5/26/2021	2:40 PM	EPA 365.1
Salinity by meter by Client	14.26		SU			5/26/2021	9:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.2		meters			5/26/2021	9:25 AM	FDEP FT 1700
Silica, dissolved as SiO2	4.5		mg/L as SiO2	0.1	0.4	5/26/2021	2:40 PM	SM4500-SiO2 C
Depth of Water Body	1.3		Meters			5/26/2021	9:25 AM	FS2100
Nitrogen, Kjeldahl, Total	0.81		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	EPA 351.2
Nitrogen, Total	0.81		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN + NOX
Total Organic Carbon	11		mg/L	1	4	5/28/2021	6:27 AM	SM 5310 B
Phosphorus, Total	0.073		mg/L as P	0.006	0.024	5/27/2021	9:05 AM	EPA 365.1
Total Suspended Solids	10.3		mg/L	0.6	2.4	5/27/2021	9:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.41		NTU	0.2	0.8	5/27/2021	11:53 AM	EPA 180.1

Laboratory ID	AE87122	Collection date and time	5/26/2021 10:20 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #413		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.03	I	mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Pheophytin	1.37	I	mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.9	I	mg/L	0.3	1.2	5/27/2021	11:21 AM	SM 5210 B
Color	31.7		CU	1.25	5.00	5/26/2021	2:55 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.79		mg/L			5/26/2021	10:20 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/26/2021	2:44 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	5/28/2021	8:58 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	5/27/2021	10:34 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrogen, Organic	0.77		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN - NH3
Phosphorus, Ortho	0.044		mg/L as P	0.004	0.016	5/26/2021	2:40 PM	EPA 365.1
Salinity by meter by Client	11.63		SU			5/26/2021	10:20 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.2	S	meters			5/26/2021	10:20 AM	FDEP FT 1700
Silica, dissolved as SiO2	4.7		mg/L as SiO2	0.1	0.4	5/26/2021	2:40 PM	SM4500-SiO2 C
Depth of Water Body	1.2		Meters			5/26/2021	10:20 AM	FS2100

Report Format: NELAC

DOH #E45049



Laboratory ID	AE87122	Collection date and time	5/26/2021 10:20 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #413		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrogen, Kjeldahl, Total	0.77		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	EPA 351.2
Nitrogen, Total	0.77		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN + NOX
Total Organic Carbon	11		mg/L	1	4	5/28/2021	6:27 AM	SM 5310 B
Phosphorus, Total	0.073		mg/L as P	0.006	0.024	5/27/2021	9:05 AM	EPA 365.1
Total Suspended Solids	3.35		mg/L	0.6	2.4	5/27/2021	9:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.19		NTU	0.2	0.8	5/27/2021	11:53 AM	EPA 180.1

Laboratory ID	AE87123	Collection date and time	5/26/2021 10:45 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #418		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.20		mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Pheophytin	0.71	I	mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	5/27/2021	11:21 AM	SM 5210 B
Color	35.9		CU	1.25	5.00	5/26/2021	2:55 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.26		mg/L			5/26/2021	10:45 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/26/2021	2:44 PM	Enterolert®
Ammonia	0.015	I	mg/L as N	0.014	0.056	5/28/2021	8:58 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	5/27/2021	10:34 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrogen, Organic	0.83		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN - NH3
Phosphorus, Ortho	0.048		mg/L as P	0.004	0.016	5/26/2021	2:40 PM	EPA 365.1
Salinity by meter by Client	8.64		SU			5/26/2021	10:45 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.2		meters			5/26/2021	10:45 AM	FDEP FT 1700
Silica, dissolved as SiO2	5.4		mg/L as SiO2	0.1	0.4	5/26/2021	2:40 PM	SM4500-SiO2 C
Depth of Water Body	1.4		Meters			5/26/2021	10:45 AM	FS2100
Nitrogen, Kjeldahl, Total	0.84		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	EPA 351.2
Nitrogen, Total	0.84		mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN + NOX
Total Organic Carbon	12		mg/L	1	4	5/28/2021	6:27 AM	SM 5310 B
Phosphorus, Total	0.083		mg/L as P	0.006	0.024	5/27/2021	9:05 AM	EPA 365.1
Total Suspended Solids	4.05		mg/L	0.6	2.4	5/27/2021	9:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.80		NTU	0.2	0.8	5/27/2021	11:53 AM	EPA 180.1



Laboratory ID AE87124
 Location Code CRNEP_EQ
 Sample Description EB Site #

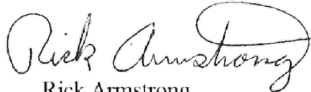
Collection date and time 5/26/2021 1:10 PM
 Sample Collector REISTADT/JAEGER

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	2.0	6/1/2021	7:30 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	6/1/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	5/27/2021	11:21 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	5/26/2021	2:55 PM	SM21 2120 C
Enterococci	10	U	MPN/100mL	10		5/26/2021	2:44 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	5/28/2021	8:58 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	5/27/2021	10:34 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	5/27/2021	10:34 AM	EPA 353.2
Nitrogen, Organic	0.050	U	mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN - NH3
Phosphorus, Ortho	0.004	U	mg/L as P	0.004	0.016	5/26/2021	2:40 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	5/26/2021	2:40 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.05	U	mg/L as N	0.05	0.2	5/27/2021	9:03 AM	EPA 351.2
Nitrogen, Total	0.050	U	mg/L as N	0.05	0.2	5/27/2021	9:03 AM	TKN + NOX
Total Organic Carbon	1.000	U	mg/L	1	4	6/7/2021	3:31 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	5/27/2021	9:05 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	5/27/2021	9:47 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	5/27/2021	11:53 AM	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).
- S Secchi disk visible to bottom of waterbody. Value reported is the depth of the waterbody at the location of Secchi disk measurement.
- 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





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

Analysis Request

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Chain of Custody Record

LCEL does not accept any samples used for evidentiary purposes

Lab Certification: E45049

LCEL F COC 20150828R1

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Report/Result Information

Billing/Invoice Information

Name: FDEP - South	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
ATTN: Kirby Wolfe	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): <i>Monica Jaeger</i> <i>Nicole Reistadt/William Muller</i>		Sample Collector Signature: <i>[Signature]</i>		Analyses Required						
Relinquished By: (signature) <i>[Signature]</i>	Date <i>05/26/21</i>	Time <i>1437</i>	Received By: (signature) <i>[Signature]</i>	\$Chloro, _prep	O-PO4, Color, NOX	TOC	NH3, TKN, TN, T-PO4, NO3, ONIT	Turb, NO2, TSS, Silica, Bod, Bodi	Mug2QT, Entero	
Relinquished By: (signature)	Date	Time	Received By: (signature)							
Relinquished By: (signature)	Date	Time	Received By: (signature)							
				Preservatives (see codes)						

Collection		Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
Date	Time									
05/26/21	1115	CRNEP_RS #423	SWE	1	1	1	1	2	1	AE87119
05/26/21	1205	CRNEP_RS #454	SWE	1	1	1	1	2	1	AE87120
05/26/21	0925	CRNEP_RS #396	SWE	1	1	1	1	2	1	AE87121
05/26/21	1020	CRNEP_RS #413	SWE	1	1	1	1	2	1	AE87122
05/26/21	1045	CRNEP_RS #418	SWE	1	1	1	1	2	1	AE87123
05/26/21	1310	CRNEP_EQ #	SWE	1	1	1	1	2	1	AE87124

**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.