

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: 11/3/2021

Below are the results of samples submitted to this laboratory on 10/20/2021

Laboratory ID	AF03080	Collection date and time	10/20/2021 12:20 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #448		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	3.25		mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Pheophytin	1.66	I	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.4	I	mg/L	0.3	1.2	10/21/2021	10:50 AM	SM 5210 B
Color	194		CU	1.25	5.00	10/21/2021	1:14 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.12		mg/L			10/20/2021	12:20 PM	FDEP FT1500
Enterococci	10		MPN/100mL	10		10/20/2021	3:11 PM	Enterolert®
Ammonia	0.030	I	mg/L as N	0.014	0.056	10/26/2021	9:10 AM	EPA 350.1
Nitrite	0.015		mg/L as N	0.003	0.012	10/21/2021	11:32 AM	EPA 353.2
Nitrate	0.292		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrate + Nitrite	0.307		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrogen, Organic	0.90		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.130		mg/L as P	0.005	0.020	10/21/2021	12:08 PM	EPA 365.1
Salinity by meter by Client	0.69		SU			10/20/2021	12:20 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.4		meters			10/20/2021	12:20 PM	FDEP FT 1700
Silica, dissolved as SiO2	11		mg/L as SiO2	0.1	0.4	10/21/2021	12:08 PM	SM4500-SiO2 C
Depth of Water Body	1.5		Meters			10/20/2021	12:20 PM	FS2100
Nitrogen, Kjeldahl, Total	0.93		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN + NOX
Total Organic Carbon	21		mg/L	1	4	10/27/2021	2:20 PM	SM 5310 B
Phosphorus, Total	0.17		mg/L as P	0.006	0.024	10/28/2021	9:00 AM	EPA 365.1
Total Suspended Solids	4.45		mg/L	0.6	2.4	10/21/2021	9:16 AM	SM 2540 D
Turbidity (Nephelometric)	3.90		NTU	0.2	0.8	10/21/2021	10:29 AM	EPA 180.1



Laboratory ID	AF03081	Collection date and time	10/20/2021 10:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #394		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.56	I	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Pheophytin	0.67	I	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	10/21/2021	10:50 AM	SM 5210 B
Color	97.0		CU	1.25	5.00	10/21/2021	1:14 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.27		mg/L			10/20/2021	10:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		10/20/2021	3:11 PM	Enterolert®
Ammonia	0.047	I	mg/L as N	0.014	0.056	10/26/2021	9:10 AM	EPA 350.1
Nitrite	0.012		mg/L as N	0.003	0.012	10/21/2021	11:32 AM	EPA 353.2
Nitrate	0.309		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrate + Nitrite	0.321		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrogen, Organic	0.76		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.101		mg/L as P	0.005	0.020	10/21/2021	12:08 PM	EPA 365.1
Salinity by meter by Client	13.62		SU			10/20/2021	10:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.8		meters			10/20/2021	10:35 AM	FDEP FT 1700
Silica, dissolved as SiO2	8.0		mg/L as SiO2	0.1	0.4	10/21/2021	12:08 PM	SM4500-SiO2 C
Depth of Water Body	1.8		Meters			10/20/2021	10:35 AM	FS2100
Nitrogen, Kjeldahl, Total	0.81		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN + NOX
Total Organic Carbon	14		mg/L	1	4	10/27/2021	2:20 PM	SM 5310 B
Phosphorus, Total	0.12		mg/L as P	0.006	0.024	10/28/2021	9:00 AM	EPA 365.1
Total Suspended Solids	2.80		mg/L	0.6	2.4	10/21/2021	9:16 AM	SM 2540 D
Turbidity (Nephelometric)	1.11		NTU	0.2	0.8	10/21/2021	10:29 AM	EPA 180.1

Laboratory ID	AF03082	Collection date and time	10/20/2021 9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #387		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.80	I	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.4	I	mg/L	0.3	1.2	10/21/2021	10:50 AM	SM 5210 B
Color	89.6		CU	1.25	5.00	10/21/2021	1:14 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.56		mg/L			10/20/2021	9:25 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		10/20/2021	3:11 PM	Enterolert®
Ammonia	0.042	I	mg/L as N	0.014	0.056	10/26/2021	9:10 AM	EPA 350.1
Nitrite	0.012		mg/L as N	0.003	0.012	10/21/2021	11:32 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF03082	Collection date and time	10/20/2021 9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #387		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate	0.284		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrate + Nitrite	0.296		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrogen, Organic	0.76		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.089		mg/L as P	0.005	0.020	10/21/2021	12:08 PM	EPA 365.1
Salinity by meter by Client	11.88		SU			10/20/2021	9:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.8		meters			10/20/2021	9:25 AM	FDEP FT 1700
Silica, dissolved as SiO2	7.3		mg/L as SiO2	0.1	0.4	10/21/2021	12:08 PM	SM4500-SiO2 C
Depth of Water Body	2.7		Meters			10/20/2021	9:25 AM	FS2100
Nitrogen, Kjeldahl, Total	0.80		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN + NOX
Total Organic Carbon	13		mg/L	1	4	10/27/2021	2:20 PM	SM 5310 B
Phosphorus, Total	0.12		mg/L as P	0.006	0.024	10/28/2021	9:00 AM	EPA 365.1
Total Suspended Solids	3.20		mg/L	0.6	2.4	10/21/2021	9:16 AM	SM 2540 D
Turbidity (Nephelometric)	1.47		NTU	0.2	0.8	10/21/2021	10:29 AM	EPA 180.1

Laboratory ID	AF03084	Collection date and time	10/20/2021 10:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #393		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.98	I	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Pheophytin	0.50	I	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.4	I	mg/L	0.3	1.2	10/21/2021	10:50 AM	SM 5210 B
Color	87.6		CU	1.25	5.00	10/21/2021	1:14 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.44		mg/L			10/20/2021	10:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		10/20/2021	3:11 PM	Enterolert®
Ammonia	0.038	I	mg/L as N	0.014	0.056	10/26/2021	9:10 AM	EPA 350.1
Nitrite	0.012		mg/L as N	0.003	0.012	10/21/2021	11:32 AM	EPA 353.2
Nitrate	0.287		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrate + Nitrite	0.299		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrogen, Organic	0.72		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.088		mg/L as P	0.005	0.020	10/21/2021	12:08 PM	EPA 365.1
Salinity by meter by Client	12.85		SU			10/20/2021	10:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			10/20/2021	10:05 AM	FDEP FT 1700
Silica, dissolved as SiO2	7.1		mg/L as SiO2	0.1	0.4	10/21/2021	12:08 PM	SM4500-SiO2 C
Depth of Water Body	1.9		Meters			10/20/2021	10:05 AM	FS2100

Report Format: NELAC

DOH #E45049



Laboratory ID	AF03084	Collection date and time	10/20/2021 10:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #393		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrogen, Kjeldahl, Total	0.76		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN + NOX
Total Organic Carbon	13		mg/L	1	4	10/27/2021	2:20 PM	SM 5310 B
Phosphorus, Total	0.11		mg/L as P	0.006	0.024	10/28/2021	9:00 AM	EPA 365.1
Total Suspended Solids	2.40		mg/L	0.6	2.4	10/21/2021	9:16 AM	SM 2540 D
Turbidity (Nephelometric)	1.05		NTU	0.2	0.8	10/21/2021	10:29 AM	EPA 180.1

Laboratory ID	AF03085	Collection date and time	10/20/2021 11:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #417		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.19	I	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Pheophytin	2.48		mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	I	mg/L	0.3	1.2	10/21/2021	10:50 AM	SM 5210 B
Color	125		CU	1.25	5.00	10/21/2021	1:14 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.91		mg/L			10/20/2021	11:25 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		10/20/2021	3:11 PM	Enterolert®
Ammonia	0.056		mg/L as N	0.014	0.056	10/26/2021	9:10 AM	EPA 350.1
Nitrite	0.013		mg/L as N	0.003	0.012	10/21/2021	11:32 AM	EPA 353.2
Nitrate	0.359		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrate + Nitrite	0.372		mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrogen, Organic	0.81		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.126	J4	mg/L as P	0.005	0.020	10/21/2021	12:08 PM	EPA 365.1
Salinity by meter by Client	4.84		SU			10/20/2021	11:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.6		meters			10/20/2021	11:25 AM	FDEP FT 1700
Silica, dissolved as SiO2	9.4		mg/L as SiO2	0.1	0.4	10/21/2021	12:08 PM	SM4500-SiO2 C
Depth of Water Body	0.9		Meters			10/20/2021	11:25 AM	FS2100
Nitrogen, Kjeldahl, Total	0.87		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	10/27/2021	2:20 PM	SM 5310 B
Phosphorus, Total	0.16		mg/L as P	0.006	0.024	10/28/2021	9:00 AM	EPA 365.1
Total Suspended Solids	4.35		mg/L	0.6	2.4	10/21/2021	9:16 AM	SM 2540 D
Turbidity (Nephelometric)	2.49		NTU	0.2	0.8	10/21/2021	10:29 AM	EPA 180.1



Laboratory ID AF03086
 Location Code CRNEP_EQ
 Sample Description EB Site #

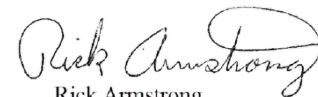
Collection date and time 10/20/2021 1:25 PM
 Sample Collector REISTADT/JAEGER

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	11/1/2021	7:33 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	11/1/2021	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	10/21/2021	10:50 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	10/21/2021	1:14 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		10/20/2021	3:11 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	10/26/2021	9:10 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	10/21/2021	11:32 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	10/21/2021	11:32 AM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.005	U	mg/L as P	0.005	0.020	10/21/2021	12:08 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	10/21/2021	12:08 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	10/28/2021	8:58 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	10/28/2021	8:58 AM	TKN + NOX
Total Organic Carbon	1.000	U	mg/L	1	4	10/27/2021	2:20 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	10/28/2021	9:00 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	10/21/2021	9:16 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	10/21/2021	10:29 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).
 J4 The sample matrix interfered with the ability to meet the accuracy requirement for a matrix spike.
 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

Page 1 of 1

Name: FDEP - South ATTN: Kirby Wolfe Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901 Phone: (239) 344-5719	Name: DNRN RE: CCHMN-Tidal Caloosa Address: 1500 Monroe St Ft Myers, FL 33901 Phone: (239) 533-8109	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
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Sample Collector(s) (please print): Nicole Reistadt/Monica Jaeger		Sample Collector Signature: 		Analyses Required					
Relinquished By: (signature) 	Date 10/20/21	Time 15:07	Received By: (signature) 	\$Chloroa, _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)						

Sample(s) on ice ☒ Yes or ☐ No? **Temperature °C: 0.8**

NP	NPF	S	S	NP	ST
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Collection Date	Time	Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
10/20/21	1220	CRNEP_RS #448	SWE	1	1	1	1	2	1	AF03080
10/20/21	1035	CRNEP_RS #394	SWE	1	1	1	1	2	1	AF03081
10/20/21	0925	CRNEP_RS #387	SWE	1	1	1	1	2	1	AF03082
10/20/21		CRNEP_RSBOT #387 Bottom <i>DID NOT SAMPLE</i>	SWE	1	1	1	1	2	1	AF03083
10/20/21	1005	CRNEP_RS #393	SWE	1	1	1	1	2	1	AF03084
10/20/21	1125	CRNEP_RS #417	SWE	1	1	1	1	2	1	AF03085
10/20/21	1325	CRNEP_EQ #	SWE	1	1	1	1	2	1	AF03086

**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.