

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: 2/10/2021

Below are the results of samples submitted to this laboratory on 1/20/2021

Laboratory ID	AE74188	Collection date and time	1/20/2021 11:50 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.15	I	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Pheophytin	1.31	I	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.9	I	mg/L	0.3	1.2	1/21/2021	11:13 AM	SM 5210 B
Color	82.7		CU	1.6	6.4	1/20/2021	3:21 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	9.31		mg/L			1/20/2021	11:50 AM	FDEP FT1500
E.coli Enumeration	10		MPN/100mL	10		1/20/2021	3:38 PM	Colilert-18®
Ammonia	0.023	I	mg/L as N	0.014	0.056	1/22/2021	12:05 PM	EPA 350.1
Nitrite	0.005	I	mg/L as N	0.003	0.012	1/21/2021	10:27 AM	EPA 353.2
Nitrate	0.109		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrate + Nitrite	0.114		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrogen, Organic	0.64		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.040		mg/L as P	0.004	0.016	1/20/2021	3:15 PM	EPA 365.1
Salinity by meter by Client	1.47		SU			1/20/2021	11:50 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.1		meters			1/20/2021	11:50 AM	FDEP FT 1700
Silica, dissolved as SiO2	6.2		mg/L as SiO2	0.1	0.4	1/20/2021	3:15 PM	SM4500-SiO2 C
Depth of Water Body	1.4		Meters			1/20/2021	11:50 AM	FS2100
Nitrogen, Kjeldahl, Total	0.66		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	EPA 351.2
Nitrogen, Total	0.77		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN + NOX
Total Organic Carbon	14		mg/L	1	4	1/28/2021	2:14 PM	SM 5310 B
Phosphorus, Total	0.056		mg/L as P	0.006	0.024	2/3/2021	8:59 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	1/21/2021	8:53 AM	SM 2540 D
Turbidity (Nephelometric)	1.58		NTU	0.2	0.8	1/21/2021	8:22 AM	EPA 180.1



Laboratory ID	AE74189	Collection date and time	1/20/2021 12:50 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #456		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.99		mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Pheophytin	1.19	I	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	1/21/2021	11:13 AM	SM 5210 B
Color	75.6		CU	1.6	6.4	1/20/2021	3:21 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.84		mg/L			1/20/2021	12:50 PM	FDEP FT1500
E.coli Enumeration	99		MPN/100mL	10		1/20/2021	3:38 PM	Colilert-18®
Ammonia	0.015	I	mg/L as N	0.014	0.056	1/22/2021	12:05 PM	EPA 350.1
Nitrite	0.006	I	mg/L as N	0.003	0.012	1/21/2021	10:27 AM	EPA 353.2
Nitrate	0.218		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrate + Nitrite	0.224		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrogen, Organic	0.71		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.050		mg/L as P	0.004	0.016	1/20/2021	3:15 PM	EPA 365.1
Salinity by meter by Client	0.24		SU			1/20/2021	12:50 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.9		meters			1/20/2021	12:50 PM	FDEP FT 1700
Silica, dissolved as SiO2	7.5		mg/L as SiO2	0.1	0.4	1/20/2021	3:15 PM	SM4500-SiO2 C
Depth of Water Body	3.9		Meters			1/20/2021	12:50 PM	FS2100
Nitrogen, Kjeldahl, Total	0.72		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	EPA 351.2
Nitrogen, Total	0.94		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN + NOX
Total Organic Carbon	14		mg/L	1	4	1/28/2021	2:14 PM	SM 5310 B
Phosphorus, Total	0.070		mg/L as P	0.006	0.024	2/3/2021	8:59 AM	EPA 365.1
Total Suspended Solids	1.75	I	mg/L	0.6	2.4	1/21/2021	8:53 AM	SM 2540 D
Turbidity (Nephelometric)	2.99		NTU	0.2	0.8	1/21/2021	8:22 AM	EPA 180.1

Laboratory ID	AE74190	Collection date and time	1/20/2021 11:15 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #442		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.39	I	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Pheophytin	0.81	I	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	1/21/2021	11:13 AM	SM 5210 B
Color	76.4		CU	1.6	6.4	1/20/2021	3:21 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	9.40		mg/L			1/20/2021	11:15 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		1/20/2021	3:28 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	1/22/2021	12:05 PM	EPA 350.1
Nitrite	0.005	I	mg/L as N	0.003	0.012	1/21/2021	10:27 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AE74190	Collection date and time	1/20/2021 11:15 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #442		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate	0.097		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrate + Nitrite	0.102		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrogen, Organic	0.70		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.039		mg/L as P	0.004	0.016	1/20/2021	3:15 PM	EPA 365.1
Salinity by meter by Client	3.10		SU			1/20/2021	11:15 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.2		meters			1/20/2021	11:15 AM	FDEP FT 1700
Silica, dissolved as SiO2	5.4		mg/L as SiO2	0.1	0.4	1/20/2021	3:15 PM	SM4500-SiO2 C
Depth of Water Body	2.2		Meters			1/20/2021	11:15 AM	FS2100
Nitrogen, Kjeldahl, Total	0.70		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	EPA 351.2
Nitrogen, Total	0.80		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN + NOX
Total Organic Carbon	15		mg/L	1	4	1/28/2021	2:14 PM	SM 5310 B
Phosphorus, Total	0.062		mg/L as P	0.006	0.024	2/3/2021	8:59 AM	EPA 365.1
Total Suspended Solids	0.950	I	mg/L	0.6	2.4	1/21/2021	8:53 AM	SM 2540 D
Turbidity (Nephelometric)	1.36		NTU	0.2	0.8	1/21/2021	8:22 AM	EPA 180.1

Laboratory ID	AE74191	Collection date and time	1/20/2021 9:10 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #394		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.69	I	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Pheophytin	1.28	I	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	1/21/2021	11:13 AM	SM 5210 B
Color	47.9		CU	1.6	6.4	1/20/2021	3:21 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	9.06		mg/L			1/20/2021	9:10 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		1/20/2021	3:28 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	1/29/2021	11:16 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	1/21/2021	10:27 AM	EPA 353.2
Nitrate	0.017	I	mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrate + Nitrite	0.020	I	mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrogen, Organic	0.72		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.020		mg/L as P	0.004	0.016	1/20/2021	3:15 PM	EPA 365.1
Salinity by meter by Client	12.24		SU			1/20/2021	9:10 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.85		meters			1/20/2021	9:10 AM	FDEP FT 1700
Silica, dissolved as SiO2	2.7		mg/L as SiO2	0.1	0.4	1/20/2021	3:15 PM	SM4500-SiO2 C
Depth of Water Body	2.0		Meters			1/20/2021	9:10 AM	FS2100

Report Format: NELAC

DOH #E45049



Laboratory ID	AE74191	Collection date and time	1/20/2021 9:10 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #394		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrogen, Kjeldahl, Total	0.72		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	EPA 351.2
Nitrogen, Total	0.74		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN + NOX
Total Organic Carbon	11		mg/L	1	4	1/28/2021	2:14 PM	SM 5310 B
Phosphorus, Total	0.030		mg/L as P	0.006	0.024	2/3/2021	8:59 AM	EPA 365.1
Total Suspended Solids	1.55	I	mg/L	0.6	2.4	1/21/2021	8:53 AM	SM 2540 D
Turbidity (Nephelometric)	0.590	I	NTU	0.2	0.8	1/21/2021	8:22 AM	EPA 180.1

Laboratory ID	AE74192	Collection date and time	1/20/2021 10:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #429		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.23		mg/M3	0.5	2	1/25/2021	2:09 PM	SM21 10200 H
Pheophytin	1.75	I	mg/M3	0.5	2	1/25/2021	2:09 PM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	1/21/2021	11:13 AM	SM 5210 B
Color	69.1		CU	1.6	6.4	1/20/2021	3:21 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	9.46		mg/L			1/20/2021	10:40 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		1/20/2021	3:28 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	1/22/2021	12:05 PM	EPA 350.1
Nitrite	0.004	I	mg/L as N	0.003	0.012	1/21/2021	10:27 AM	EPA 353.2
Nitrate	0.074		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrate + Nitrite	0.078		mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrogen, Organic	0.65		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.032		mg/L as P	0.004	0.016	1/20/2021	3:15 PM	EPA 365.1
Salinity by meter by Client	4.34		SU			1/20/2021	10:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.4		meters			1/20/2021	10:40 AM	FDEP FT 1700
Silica, dissolved as SiO2	5.1		mg/L as SiO2	0.1	0.4	1/20/2021	3:15 PM	SM4500-SiO2 C
Depth of Water Body	2.2		Meters			1/20/2021	10:40 AM	FS2100
Nitrogen, Kjeldahl, Total	0.65		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	EPA 351.2
Nitrogen, Total	0.73		mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN + NOX
Total Organic Carbon	14		mg/L	1	4	1/28/2021	2:14 PM	SM 5310 B
Phosphorus, Total	0.045		mg/L as P	0.006	0.024	2/3/2021	8:59 AM	EPA 365.1
Total Suspended Solids	1.20	I	mg/L	0.6	2.4	1/21/2021	8:53 AM	SM 2540 D
Turbidity (Nephelometric)	1.08		NTU	0.2	0.8	1/21/2021	8:22 AM	EPA 180.1



Laboratory ID AE74193
 Location Code CRNEP_EQ
 Sample Description EB Site #

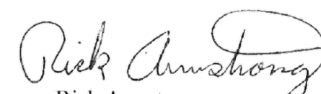
Collection date and time 1/20/2021 1:10 PM
 Sample Collector REISTADT/HORMUTH

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	1/24/2021	10:21 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	1/24/2021	10:21 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	1/21/2021	11:13 AM	SM 5210 B
Color	1.6	U	CU	1.6	6.4	1/20/2021	3:21 PM	SM21 2120 C
Enterococci	10	U	MPN/100mL	10		1/20/2021	3:28 PM	Enterolert®
E.coli Enumeration	10	U	MPN/100mL	10		1/20/2021	3:38 PM	Colilert-18®
Ammonia	0.014	U	mg/L as N	0.014	0.056	1/22/2021	12:05 PM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	1/21/2021	10:27 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	1/21/2021	10:27 AM	EPA 353.2
Nitrogen, Organic	0.050	U	mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.004	U	mg/L as P	0.004	0.016	1/20/2021	3:15 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	1/20/2021	3:15 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.05	U	mg/L as N	0.05	0.2	2/3/2021	8:56 AM	EPA 351.2
Nitrogen, Total	0.050	U	mg/L as N	0.05	0.2	2/3/2021	8:56 AM	TKN + NOX
Total Organic Carbon	1.000	U	mg/L	1	4	1/28/2021	2:14 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	2/3/2021	8:59 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	1/21/2021	8:53 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	1/21/2021	8:22 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).
 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

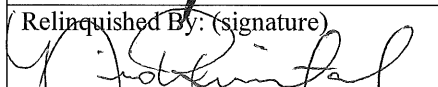
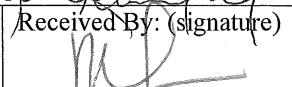
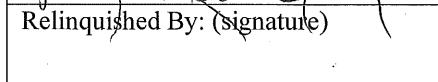
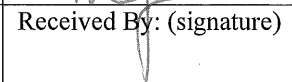
Page 1 of 1

Name: FDEP - South ATTN: Kirby Wolfe Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901 Phone: (239) 344-5719	Name: DNR 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 Reistad/Chris Hormuth

Sample Collector Signature:


Analyses Required

Relinquished By: (signature) 	Date 01/20/21	Time 1457	Received By: (signature) 	\$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)							

Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 28°C

NP NPF S S NP ST

Preservatives (see codes)

Collection		Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
Date	Time									
01/20/21	1150	CRNEP_RS #449	SWE	1	1	1	1	2	1	AE74188
01/20/21	1250	CRNEP_RS #456	SWE	1	1	1	1	2	1	AE74189
01/20/21	1115	CRNEP_RS #442	SWE	1	1	1	1	2	1	AE74190
01/20/21	0910	CRNEP_RS #394	SWE	1	1	1	1	2	1	AE74191
01/20/21	1040	CRNEP_RS #429	SWE	1	1	1	1	2	1	AE74192
01/20/21	1310	CRNEP_EQ #	SWE	1	1	1	1	2	1	AE74193

**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.