

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: 12/17/2020

Below are the results of samples submitted to this laboratory on 12/9/2020

Laboratory ID	AE68118	Collection date and time	12/9/2020 10:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #386		

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	12/11/2020	8:00 AM	SM21 10200 H
Pheophytin	3.50		mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.9	I	mg/L	0.3	1.2	12/10/2020	12:31 PM	SM 5210 B
Color	126		CU	3.2	12.8	12/9/2020	3:23 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	8.97		mg/L			12/9/2020	10:25 AM	FDEP FT1500
E.coli Enumeration	10		MPN/100mL	10		12/9/2020	3:06 PM	Colilert-18®
Ammonia	0.026	I	mg/L as N	0.014	0.056	12/11/2020	9:08 AM	EPA 350.1
Nitrite	0.008	I	mg/L as N	0.003	0.012	12/10/2020	10:22 AM	EPA 353.2
Nitrate	0.222		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrate + Nitrite	0.230		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrogen, Organic	0.81		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.062		mg/L as P	0.004	0.016	12/9/2020	3:00 PM	EPA 365.1
Salinity by meter by Client	2.07		SU			12/9/2020	10:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7		meters			12/9/2020	10:25 AM	FDEP FT 1700
Silica, dissolved as SiO2	10		mg/L as SiO2	0.1	0.4	12/9/2020	3:00 PM	SM4500-SiO2 C
Depth of Water Body	2.6		Meters			12/9/2020	10:25 AM	FS2100
Nitrogen, Kjeldahl, Total	0.84		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	12/11/2020	1:12 PM	SM 5310 B
Phosphorus, Total	0.090		mg/L as P	0.006	0.024	12/15/2020	8:55 AM	EPA 365.1
Total Suspended Solids	2.90		mg/L	0.6	2.4	12/10/2020	10:29 AM	SM 2540 D

Report Format: NELAC

DOH #E45049



Laboratory ID	AE68118	Collection date and time	12/9/2020 10:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #386		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Turbidity (Nephelometric)	3.98		NTU	0.2	0.8	12/10/2020	11:36 AM	EPA 180.1

Laboratory ID	AE68120	Collection date and time	12/9/2020 12:35 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #443		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.75	I	mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Pheophytin	2.20		mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	12/10/2020	12:31 PM	SM 5210 B
Color	116		CU	3.2	12.8	12/9/2020	3:23 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	8.37		mg/L			12/9/2020	12:35 PM	FDEP FT1500
E.coli Enumeration	99		MPN/100mL	10		12/9/2020	3:06 PM	Colilert-18®
Ammonia	0.037	I	mg/L as N	0.014	0.056	12/11/2020	9:08 AM	EPA 350.1
Nitrite	0.013		mg/L as N	0.003	0.012	12/10/2020	10:22 AM	EPA 353.2
Nitrate	0.180		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrate + Nitrite	0.193		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrogen, Organic	0.84		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.055		mg/L as P	0.004	0.016	12/9/2020	3:00 PM	EPA 365.1
Salinity by meter by Client	0.18		SU			12/9/2020	12:35 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.0		meters			12/9/2020	12:35 PM	FDEP FT 1700
Silica, dissolved as SiO2	9.7		mg/L as SiO2	0.1	0.4	12/9/2020	3:00 PM	SM4500-SiO2 C
Depth of Water Body	1.9		Meters			12/9/2020	12:35 PM	FS2100
Nitrogen, Kjeldahl, Total	0.88		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	12/11/2020	1:12 PM	SM 5310 B
Phosphorus, Total	0.079		mg/L as P	0.006	0.024	12/15/2020	8:55 AM	EPA 365.1
Total Suspended Solids	1.10	I	mg/L	0.6	2.4	12/10/2020	10:29 AM	SM 2540 D
Turbidity (Nephelometric)	3.34		NTU	0.2	0.8	12/10/2020	11:36 AM	EPA 180.1



Laboratory ID	AE68121	Collection date and time	12/9/2020 11:00 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #393		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.98	I	mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.6	I	mg/L	0.3	1.2	12/10/2020	12:31 PM	SM 5210 B
Color	125		CU	3.2	12.8	12/9/2020	3:23 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	9.03		mg/L			12/9/2020	11:00 AM	FDEP FT1500
E.coli Enumeration	10	U	MPN/100mL	10		12/9/2020	3:06 PM	Colilert-18®
Ammonia	0.025	I	mg/L as N	0.014	0.056	12/11/2020	9:08 AM	EPA 350.1
Nitrite	0.008	I	mg/L as N	0.003	0.012	12/10/2020	10:22 AM	EPA 353.2
Nitrate	0.227		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrate + Nitrite	0.235		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrogen, Organic	0.79		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.063		mg/L as P	0.004	0.016	12/9/2020	3:00 PM	EPA 365.1
Salinity by meter by Client	1.27		SU			12/9/2020	11:00 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7		meters			12/9/2020	11:00 AM	FDEP FT 1700
Silica, dissolved as SiO2	10		mg/L as SiO2	0.1	0.4	12/9/2020	3:00 PM	SM4500-SiO2 C
Depth of Water Body	1.1		Meters			12/9/2020	11:00 AM	FS2100
Nitrogen, Kjeldahl, Total	0.81		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN + NOX
Total Organic Carbon	17		mg/L	1	4	12/11/2020	1:12 PM	SM 5310 B
Phosphorus, Total	0.089		mg/L as P	0.006	0.024	12/15/2020	8:55 AM	EPA 365.1
Total Suspended Solids	1.90	I	mg/L	0.6	2.4	12/10/2020	10:29 AM	SM 2540 D
Turbidity (Nephelometric)	2.89		NTU	0.2	0.8	12/10/2020	11:36 AM	EPA 180.1

Laboratory ID	AE68122	Collection date and time	12/9/2020 11:55 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	3.69		mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Pheophytin	3.54		mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	12/10/2020	12:31 PM	SM 5210 B
Color	120		CU	3.2	12.8	12/9/2020	3:23 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	8.84		mg/L			12/9/2020	11:55 AM	FDEP FT1500
E.coli Enumeration	64		MPN/100mL	10		12/9/2020	3:06 PM	Colilert-18®

Report Format: NELAC

DOH #E45049



Laboratory ID	AE68122	Collection date and time	12/9/2020 11:55 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
Ammonia	0.018	I	mg/L as N	0.014	0.056	12/11/2020	9:08 AM	EPA 350.1
Nitrite	0.016		mg/L as N	0.003	0.012	12/10/2020	10:22 AM	EPA 353.2
Nitrate	0.164		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrate + Nitrite	0.180		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrogen, Organic	0.82		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.053		mg/L as P	0.004	0.016	12/9/2020	3:00 PM	EPA 365.1
Salinity by meter by Client	0.18		SU			12/9/2020	11:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.55		meters			12/9/2020	11:55 AM	FDEP FT 1700
Silica, dissolved as SiO2	9.8		mg/L as SiO2	0.1	0.4	12/9/2020	3:00 PM	SM4500-SiO2 C
Depth of Water Body	2.7		Meters			12/9/2020	11:55 AM	FS2100
Nitrogen, Kjeldahl, Total	0.84		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN + NOX
Total Organic Carbon	17		mg/L	1	4	12/11/2020	1:12 PM	SM 5310 B
Phosphorus, Total	0.087		mg/L as P	0.006	0.024	12/15/2020	8:55 AM	EPA 365.1
Total Suspended Solids	3.60		mg/L	0.6	2.4	12/10/2020	10:29 AM	SM 2540 D
Turbidity (Nephelometric)	4.58		NTU	0.2	0.8	12/10/2020	11:36 AM	EPA 180.1

Laboratory ID	AE68123	Collection date and time	12/9/2020 9:45 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/HORMUTH
Sample Description	Grid #392		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.16	I	mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Pheophytin	0.71	I	mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.4	I	mg/L	0.3	1.2	12/10/2020	12:31 PM	SM 5210 B
Color	109		CU	3.2	12.8	12/9/2020	3:23 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	8.57		mg/L			12/9/2020	9:45 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		12/9/2020	3:01 PM	Enterolert®
Ammonia	0.025	I	mg/L as N	0.014	0.056	12/11/2020	9:08 AM	EPA 350.1
Nitrite	0.007	I	mg/L as N	0.003	0.012	12/10/2020	10:22 AM	EPA 353.2
Nitrate	0.221		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrate + Nitrite	0.228		mg/L as N	0.01	0.04	12/10/2020	10:22 AM	EPA 353.2
Nitrogen, Organic	0.77		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.060		mg/L as P	0.004	0.016	12/9/2020	3:00 PM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID AE68123
 Location Code CRNEP_RS
 Sample Description Grid #392

Collection date and time 12/9/2020 9:45 AM
 Sample Collector REISTADT/HORMUTH

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Salinity by meter by Client	3.81		SU			12/9/2020	9:45 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.75		meters			12/9/2020	9:45 AM	FDEP FT 1700
Silica, dissolved as SiO2	9.5		mg/L as SiO2	0.1	0.4	12/9/2020	3:00 PM	SM4500-SiO2 C
Depth of Water Body	2.8		Meters			12/9/2020	9:45 AM	FS2100
Nitrogen, Kjeldahl, Total	0.79		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	12/11/2020	1:12 PM	SM 5310 B
Phosphorus, Total	0.081		mg/L as P	0.006	0.024	12/15/2020	8:55 AM	EPA 365.1
Total Suspended Solids	1.70	I	mg/L	0.6	2.4	12/10/2020	10:29 AM	SM 2540 D
Turbidity (Nephelometric)	2.38		NTU	0.2	0.8	12/10/2020	11:36 AM	EPA 180.1

Laboratory ID AE68124
 Location Code CRNEP_EQ
 Sample Description EB Site #443

Collection date and time 12/9/2020 1:00 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	12/11/2020	8:00 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2	12/11/2020	8:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	12/10/2020	12:31 PM	SM 5210 B
Color	1.6	U	CU	1.6	6.4	12/9/2020	3:23 PM	SM21 2120 C
E.coli Enumeration	10	U	MPN/100mL	10		12/9/2020	3:06 PM	Colilert-18®
Ammonia	0.014	U	mg/L as N	0.014	0.056	12/11/2020	9:08 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	12/10/2020	10:22 AM	EPA 353.2
Nitrate	0.015	I	mg/L as N	0.01	0.04	12/11/2020	11:10 AM	EPA 353.2
Nitrate + Nitrite	0.015	I	mg/L as N	0.01	0.04	12/11/2020	11:10 AM	EPA 353.2
Nitrogen, Organic	0.050	U	mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.004	U	mg/L as P	0.004	0.016	12/9/2020	3:00 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	12/9/2020	3:00 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.05	U	mg/L as N	0.05	0.2	12/15/2020	8:53 AM	EPA 351.2
Nitrogen, Total	0.065	I	mg/L as N	0.05	0.2	12/15/2020	8:53 AM	TKN + NOX
Total Organic Carbon	1.000	U	mg/L	1	4	12/11/2020	1:12 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	12/15/2020	8:55 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	12/10/2020	10:29 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	12/10/2020	11:36 AM	EPA 180.1

Report Format: NELAC

DOH #E45049



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	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): Nicole Reistadt/Chris Hormuth		Sample Collector Signature: 		Analyses Required						
Relinquished By: (signature) 	Date 12/09/20	Time 1454	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: 1.8°C

Collection		Sample Description & Location	Matrix (see codes)	Preservatives (see codes)						Lab ID #
Date	Time			NP	NPF	S	S	NP	ST	
12/09/20	1025	CRNEP_RS #386	SWE	1	1	1	1	2	1	AE68118
		CRNEP_RSBOT #386 Bottom <i>DID NOT SAMPLE</i>	SWE	1	1	1	1	2	1	AE68119
12/09/20	1235	CRNEP_RS #443	SWE	1	1	1	1	2	1	AE68120
12/09/20	1100	CRNEP_RS #393	SWE	1	1	1	1	2	1	AE68121
12/09/20	1155	CRNEP_RS #429	SWE	1	1	1	1	2	1	AE68122
12/09/20	0945	CRNEP_RS #392	SWE	1	1	1	1	2	1	AE68123
12/09/20	1300	CRNEP_EQ #	SWE	1	1	1	1	2	1	AE68124

**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.