

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: 11/5/2019

Below are the results of samples submitted to this laboratory on 10/15/2019

Laboratory ID	AE27092	Collection date and time	10/15/2019 9:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/SNOREK
Sample Description	Grid #387		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.11	I	mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	10/16/2019	12:03 PM	SM 5210 B
Color	26.8		CU	1.6	6.4	10/16/2019	9:48 AM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.92		mg/L	0.1		10/15/2019	9:55 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		10/15/2019	3:33 PM	Enterolert®
E.coli Enumeration	10		MPN/100mL	10		10/15/2019	3:35 PM	Colilert-18®
Ammonia	0.023	I	mg/L as N	0.014	0.056	10/18/2019	10:24 AM	EPA 350.1
Nitrite	0.005	I	mg/L as N	0.003	0.012	10/16/2019	11:08 AM	EPA 353.2
Nitrate	0.024	I	mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrate + Nitrite	0.029	I	mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrogen, Organic	0.68		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN - NH3
Phosphorus, Ortho	0.042		mg/L as P	0.004	0.016	10/16/2019	2:08 PM	EPA 365.1
Salinity by meter by Client	24.68		SU	0.1		10/15/2019	9:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.2		meters	0.1		10/15/2019	9:55 AM	FDEP FT 1700
Silica, dissolved as SiO2	2.5		mg/L as SiO2	0.1	0.4	10/16/2019	2:08 PM	SM4500-SiO2 C
Depth of Water Body	2.7		Meters			10/15/2019	9:55 AM	FS2100
Nitrogen, Kjeldahl, Total	0.70		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	EPA 351.2
Nitrogen, Total	0.73		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN + NOX
Total Organic Carbon	7.2		mg/L	1	4	11/3/2019	12:24 PM	SM 5310 B

Laboratory ID	AE27092	Collection date and time	10/15/2019 9:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/SNOREK
Sample Description	Grid #387		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Phosphorus, Total	0.060		mg/L as P	0.006	0.024	10/24/2019	9:17 AM	EPA 365.1
Total Suspended Solids	2.40	I	mg/L	0.6	2.4	10/16/2019	10:07 AM	SM 2540 D
Turbidity (Nephelometric)	0.650	I	NTU	0.2	0.8	10/16/2019	9:34 AM	EPA 180.1

Laboratory ID	AE27095	Collection date and time	10/15/2019 1:35 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/SNOREK
Sample Description	Grid #463		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.97	I	mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.5	I	mg/L	0.3	1.2	10/16/2019	12:03 PM	SM 5210 B
Color	84.7		CU	1.6	6.4	10/16/2019	9:48 AM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.58		mg/L	0.1		10/15/2019	1:35 PM	FDEP FT1500
Enterococci	10		MPN/100mL	10		10/15/2019	3:33 PM	Enterolert®
E.coli Enumeration	20		MPN/100mL	10		10/15/2019	3:35 PM	Colilert-18®
Ammonia	0.054	I	mg/L as N	0.014	0.056	10/18/2019	10:24 AM	EPA 350.1
Nitrite	0.012		mg/L as N	0.003	0.012	10/16/2019	11:08 AM	EPA 353.2
Nitrate	0.266		mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrate + Nitrite	0.278		mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrogen, Organic	0.92		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN - NH3
Phosphorus, Ortho	0.090		mg/L as P	0.004	0.016	10/16/2019	2:08 PM	EPA 365.1
Salinity by meter by Client	6.11		SU	0.1		10/15/2019	1:35 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.2		meters	0.1		10/15/2019	1:35 PM	FDEP FT 1700
Silica, dissolved as SiO2	8.9		mg/L as SiO2	0.1	0.4	10/16/2019	2:08 PM	SM4500-SiO2 C
Depth of Water Body	1.2		Meters			10/15/2019	1:35 PM	FS2100
Nitrogen, Kjeldahl, Total	0.97		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	11/3/2019	12:24 PM	SM 5310 B
Phosphorus, Total	0.12		mg/L as P	0.006	0.024	10/24/2019	9:17 AM	EPA 365.1
Total Suspended Solids	0.750	I	mg/L	0.6	2.4	10/16/2019	10:07 AM	SM 2540 D
Turbidity (Nephelometric)	1.11		NTU	0.2	0.8	10/16/2019	9:34 AM	EPA 180.1

Laboratory ID	AE27096	Collection date and time	10/15/2019 1:55 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/SNOREK
Sample Description	Grid #462		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	5.06		mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	10/16/2019	12:03 PM	SM 5210 B
Color	84.6		CU	1.6	6.4	10/16/2019	9:48 AM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.56		mg/L	0.1		10/15/2019	1:55 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		10/15/2019	3:33 PM	Enterolert®
E.coli Enumeration	31		MPN/100mL	10		10/15/2019	3:35 PM	Colilert-18®
Ammonia	0.078		mg/L as N	0.014	0.056	10/18/2019	10:24 AM	EPA 350.1
Nitrite	0.012		mg/L as N	0.003	0.012	10/16/2019	11:08 AM	EPA 353.2
Nitrate	0.301		mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrate + Nitrite	0.313		mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrogen, Organic	0.86		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN - NH3
Phosphorus, Ortho	0.092		mg/L as P	0.004	0.016	10/16/2019	2:08 PM	EPA 365.1
Salinity by meter by Client	5.74		SU	0.1		10/15/2019	1:55 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.15		meters	0.1		10/15/2019	1:55 PM	FDEP FT 1700
Silica, dissolved as SiO2	9.2		mg/L as SiO2	0.1	0.4	10/16/2019	2:08 PM	SM4500-SiO2 C
Depth of Water Body	2.0		Meters			10/15/2019	1:55 PM	FS2100
Nitrogen, Kjeldahl, Total	0.94		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	11/3/2019	12:24 PM	SM 5310 B
Phosphorus, Total	0.13		mg/L as P	0.006	0.024	10/24/2019	9:17 AM	EPA 365.1
Total Suspended Solids	1.05	I	mg/L	0.6	2.4	10/16/2019	10:07 AM	SM 2540 D
Turbidity (Nephelometric)	0.780	I	NTU	0.2	0.8	10/16/2019	9:34 AM	EPA 180.1

Laboratory ID	AE27097	Collection date and time	10/15/2019 11:00 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/SNOREK
Sample Description	Grid #423		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.14		mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	10/22/2019	8:05 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.6	I	mg/L	0.3	1.2	10/16/2019	12:03 PM	SM 5210 B

Laboratory ID	AE27097	Collection date and time	10/15/2019 11:00 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/SNOREK
Sample Description	Grid #423		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Color	56.1		CU	1.6	6.4	10/16/2019	9:48 AM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.64		mg/L	0.1		10/15/2019	11:00 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		10/15/2019	3:33 PM	Enterolert®
E.coli Enumeration	10		MPN/100mL	10		10/15/2019	3:35 PM	Colilert-18®
Ammonia	0.022	I	mg/L as N	0.014	0.056	10/18/2019	10:24 AM	EPA 350.1
Nitrite	0.006	I	mg/L as N	0.003	0.012	10/16/2019	11:08 AM	EPA 353.2
Nitrate	0.032	I	mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrate + Nitrite	0.038	I	mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrogen, Organic	0.78		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN - NH3
Phosphorus, Ortho	0.065		mg/L as P	0.004	0.016	10/16/2019	2:08 PM	EPA 365.1
Salinity by meter by Client	14.60		SU	0.1		10/15/2019	11:00 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.5		meters	0.1		10/15/2019	11:00 AM	FDEP FT 1700
Silica, dissolved as SiO2	4.2		mg/L as SiO2	0.1	0.4	10/16/2019	2:08 PM	SM4500-SiO2 C
Depth of Water Body	1.5		Meters			10/15/2019	11:00 AM	FS2100
Nitrogen, Kjeldahl, Total	0.80		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	EPA 351.2
Nitrogen, Total	0.84		mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN + NOX
Total Organic Carbon	12		mg/L	1	4	11/3/2019	12:24 PM	SM 5310 B
Phosphorus, Total	0.091		mg/L as P	0.006	0.024	10/24/2019	9:17 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	10/16/2019	10:07 AM	SM 2540 D
Turbidity (Nephelometric)	0.620	I	NTU	0.2	0.8	10/16/2019	9:34 AM	EPA 180.1

Laboratory ID	AE27098	Collection date and time	10/15/2019 3:00 PM
Location Code	CRNEP_EQ	Sample Collector	REISTADT/SNOREK
Sample Description	EB Site #		

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	10/22/2019	3:02 PM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	10/22/2019	3:02 PM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	10/16/2019	12:03 PM	SM 5210 B
Color	1.6	U	CU	1.6	6.4	10/16/2019	9:48 AM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.53		mg/L	0.1		10/15/2019	3:00 PM	FDEP FT1500
Enterococci	2	U	MPN/100mL	2		10/15/2019	3:33 PM	Enterolert®

Laboratory ID AE27098
 Location Code CRNEP_EQ
 Sample Description EB Site #

Collection date and time 10/15/2019 3:00 PM
 Sample Collector REISTADT/SNOREK

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
E.coli Enumeration	2	U	MPN/100mL	2		10/15/2019	3:35 PM	Colilert-18®
Ammonia	0.014	U	mg/L as N	0.014	0.056	10/18/2019	10:24 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	10/16/2019	11:08 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	10/16/2019	11:08 AM	EPA 353.2
Nitrogen, Organic	0.050	U	mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN - NH3
Phosphorus, Ortho	0.004	U	mg/L as P	0.004	0.016	10/16/2019	2:08 PM	EPA 365.1
Salinity by meter by Client	0.00		SU	0.1		10/15/2019	3:00 PM	FDEP FT 1300
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	10/16/2019	2:08 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.05	U	mg/L as N	0.05	0.2	10/24/2019	9:15 AM	EPA 351.2
Nitrogen, Total	0.050	U	mg/L as N	0.05	0.2	10/24/2019	9:15 AM	TKN + NOX
Total Organic Carbon	1.000	U	mg/L	1	4	11/3/2019	12:24 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	10/24/2019	9:17 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	10/16/2019	10:07 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	10/16/2019	9:34 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



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): Gary Snorek
Nicole Reistadt/Miranda Carroll

Sample Collector Signature:

Analyses Required

Relinquished By: (signature)	Date	Time	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)						

Preservatives (see codes)

Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 5.5

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 #
10/15/19 0955	CRNEP_RS #387	SWE	1	1	1	1	2	1	AE27092
	CRNEP_RSBOT #387 Bottom DID NOT SAMPLE	SWE	1	1	1	1	2	1	AE27093
	CRNEP_RS #455 DID NOT SAMPLE	SWE	1	1	1	1	2	1	AE27094
10/15/19 1335	CRNEP_RS #463	SWE	1	1	1	1	2	1	AE27095
10/15/19 1355	CRNEP_RS #462	SWE	1	1	1	1	2	1	AE27096
10/15/19 1100	CRNEP_RS #423	SWE	1	1	1	1	2	1	AE27097
10/15/19 1500	CRNEP_EQ #	SWE	1	1	1	1	2	1	AE27098

**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.