

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: 5/17/2024

Below are the results of samples submitted to this laboratory on 5/1/2024

Laboratory ID	AF89802	Collection date and time	5/1/2024 8:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #395		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.00	I	mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Pheophytin	12.60		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	99.1		%	0.1		5/1/2024	8:55 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.5		mg/L	0.3	1.2	5/2/2024	7:46 AM	SM5210B-2016
Color	40.5		CU	1.25	5.00	5/1/2024	2:13 PM	SM21 2120 C
Specific Conductance, By Client	19300		µmhos/cm			5/1/2024	8:55 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.53		mg/L			5/1/2024	8:55 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/1/2024	2:12 PM	Enterolert®
Ammonia as N	0.029	I	mg/L as N	0.014	0.056	5/3/2024	10:07 AM	EPA 350.1
Nitrite as N	0.006	I	mg/L as N	0.003	0.012	5/1/2024	1:57 PM	EPA 353.2
Nitrate as N	0.086		mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrate + Nitrite as N	0.092		mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrogen, Organic	1.2		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN - NH3
Phosphorus, Ortho as P	0.037		mg/L as P	0.005	0.020	5/1/2024	1:34 PM	EPA 365.1
pH, Field (electrometric) by Client	6.88		units			5/1/2024	8:55 AM	FDEP FT1100
Salinity by meter by Client	11.48		SU			5/1/2024	8:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.4		meters			5/1/2024	8:55 AM	FDEP FT 1700
Depth of Water Body	2.2		Meters			5/1/2024	8:55 AM	FS2100
Field Temperature by client	26.1		°C			5/1/2024	8:55 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.2		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	12		mg/L	1	4	5/3/2024	10:24 AM	SM5310B-2014
Phosphorus, Total as P	0.079		mg/L as P	0.006	0.024	5/14/2024	8:36 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF89802	Collection date and time	5/1/2024	8:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #395			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	5.50		mg/L	0.6	2.4	5/1/2024	2:09 PM	SM2540D-2015
Turbidity (Nephelometric)	1.64		NTU	0.2	0.8	5/1/2024	1:38 PM	EPA 180.1

Laboratory ID	AF89804	Collection date and time	5/1/2024	10:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #455			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.31		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Pheophytin	28.38		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	82.7		%	0.1		5/1/2024	10:55 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.7		mg/L	0.3	1.2	5/2/2024	7:46 AM	SM5210B-2016
Color	54.9		CU	1.25	5.00	5/1/2024	2:13 PM	SM21 2120 C
Specific Conductance, By Client	700		µmhos/cm			5/1/2024	10:55 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.63		mg/L			5/1/2024	10:55 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/1/2024	2:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	5/3/2024	10:07 AM	EPA 350.1
Nitrite as N	0.004	I	mg/L as N	0.003	0.012	5/1/2024	1:57 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrate + Nitrite as N	0.012	I	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN - NH3
Phosphorus, Ortho as P	0.024		mg/L as P	0.005	0.020	5/1/2024	1:34 PM	EPA 365.1
pH, Field (electrometric) by Client	6.47		units			5/1/2024	10:55 AM	FDEP FT1100
Salinity by meter by Client	0.35		SU			5/1/2024	10:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.0		meters			5/1/2024	10:55 AM	FDEP FT 1700
Depth of Water Body	1.5		Meters			5/1/2024	10:55 AM	FS2100
Field Temperature by client	26.5		°C			5/1/2024	10:55 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	17		mg/L	1	4	5/3/2024	10:24 AM	SM5310B-2014
Phosphorus, Total as P	0.082		mg/L as P	0.006	0.024	5/14/2024	8:36 AM	EPA 365.1
Total Suspended Solids	5.15		mg/L	0.6	2.4	5/1/2024	2:09 PM	SM2540D-2015
Turbidity (Nephelometric)	4.42		NTU	0.2	0.8	5/1/2024	1:38 PM	EPA 180.1



Laboratory ID	AF89805	Collection date and time	5/1/2024	10:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #443			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	5.49		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Pheophytin	13.26		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	75.1		%	0.1		5/1/2024	10:05 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.3		mg/L	0.3	1.2	5/2/2024	7:46 AM	SM5210B-2016
Color	56.5		CU	1.25	5.00	5/1/2024	2:13 PM	SM21 2120 C
Specific Conductance, By Client	4900		µmhos/cm			5/1/2024	10:05 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	5.91		mg/L			5/1/2024	10:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/1/2024	2:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	5/3/2024	10:07 AM	EPA 350.1
Nitrite as N	0.005	I	mg/L as N	0.003	0.012	5/1/2024	1:57 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrate + Nitrite as N	0.014	I	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN - NH3
Phosphorus, Ortho as P	0.031		mg/L as P	0.005	0.020	5/1/2024	1:34 PM	EPA 365.1
pH, Field (electrometric) by Client	6.55		units			5/1/2024	10:05 AM	FDEP FT1100
Salinity by meter by Client	2.66		SU			5/1/2024	10:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.9		meters			5/1/2024	10:05 AM	FDEP FT 1700
Depth of Water Body	1.6		Meters			5/1/2024	10:05 AM	FS2100
Field Temperature by client	26.4		°C			5/1/2024	10:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	5/9/2024	2:08 PM	SM5310B-2014
Phosphorus, Total as P	0.085		mg/L as P	0.006	0.024	5/14/2024	8:36 AM	EPA 365.1
Total Suspended Solids	3.00		mg/L	0.6	2.4	5/1/2024	2:09 PM	SM2540D-2015
Turbidity (Nephelometric)	2.74		NTU	0.2	0.8	5/1/2024	1:38 PM	EPA 180.1

Laboratory ID	AF89806	Collection date and time	5/1/2024	9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #404			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.58		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Pheophytin	6.54		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	97.9		%	0.1		5/1/2024	9:25 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.3		mg/L	0.3	1.2	5/2/2024	7:46 AM	SM5210B-2016
Color	48.9		CU	1.25	5.00	5/1/2024	2:13 PM	SM21 2120 C

Report Format: NELAC

DOH #E45049



Laboratory ID	AF89806	Collection date and time	5/1/2024	9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #404			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Specific Conductance, By Client	11400		µmhos/cm			5/1/2024	9:25 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.61		mg/L			5/1/2024	9:25 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/1/2024	2:12 PM	Enterolert®
Ammonia as N	0.014	I	mg/L as N	0.014	0.056	5/3/2024	10:07 AM	EPA 350.1
Nitrite as N	0.007	I	mg/L as N	0.003	0.012	5/1/2024	1:57 PM	EPA 353.2
Nitrate as N	0.096		mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrate + Nitrite as N	0.103		mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrogen, Organic	1.2		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN - NH3
Phosphorus, Ortho as P	0.039		mg/L as P	0.005	0.020	5/1/2024	1:34 PM	EPA 365.1
pH, Field (electrometric) by Client	6.59		units			5/1/2024	9:25 AM	FDEP FT1100
Salinity by meter by Client	6.42		SU			5/1/2024	9:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.3	S	meters			5/1/2024	9:25 AM	FDEP FT 1700
Depth of Water Body	1.3		Meters			5/1/2024	9:25 AM	FS2100
Field Temperature by client	26.5		°C			5/1/2024	9:25 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.2		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	5/9/2024	2:08 PM	SM5310B-2014
Phosphorus, Total as P	0.082		mg/L as P	0.006	0.024	5/14/2024	8:36 AM	EPA 365.1
Total Suspended Solids	3.40		mg/L	0.6	2.4	5/1/2024	2:09 PM	SM2540D-2015
Turbidity (Nephelometric)	2.14		NTU	0.2	0.8	5/1/2024	1:38 PM	EPA 180.1

Laboratory ID	AF89807	Collection date and time	5/1/2024	10:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #449			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.05	I	mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Pheophytin	9.17		mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	82.0		%	0.1		5/1/2024	10:25 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.1	I	mg/L	0.3	1.2	5/2/2024	7:46 AM	SM5210B-2016
Color	60.6		CU	1.25	5.00	5/1/2024	2:13 PM	SM21 2120 C
Specific Conductance, By Client	1600		µmhos/cm			5/1/2024	10:25 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.57		mg/L			5/1/2024	10:25 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		5/1/2024	2:12 PM	Enterolert®
Ammonia as N	0.019	I	mg/L as N	0.014	0.056	5/3/2024	10:07 AM	EPA 350.1
Nitrite as N	0.004	I	mg/L as N	0.003	0.012	5/1/2024	1:57 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF89807	Collection date and time	5/1/2024 10:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate as N	0.024	I	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrate + Nitrite as N	0.028	I	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN - NH3
Phosphorus, Ortho as P	0.036		mg/L as P	0.005	0.020	5/1/2024	1:34 PM	EPA 365.1
pH, Field (electrometric) by Client	6.77		units			5/1/2024	10:25 AM	FDEP FT1100
Salinity by meter by Client	0.78		SU			5/1/2024	10:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.2		meters			5/1/2024	10:25 AM	FDEP FT 1700
Depth of Water Body	1.7		Meters			5/1/2024	10:25 AM	FS2100
Field Temperature by client	26.2		°C			5/1/2024	10:25 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	5/9/2024	2:08 PM	SM5310B-2014
Phosphorus, Total as P	0.079		mg/L as P	0.006	0.024	5/14/2024	8:36 AM	EPA 365.1
Total Suspended Solids	2.70		mg/L	0.6	2.4	5/1/2024	2:09 PM	SM2540D-2015
Turbidity (Nephelometric)	2.79		NTU	0.2	0.8	5/1/2024	1:38 PM	EPA 180.1

Laboratory ID	AF89808	Collection date and time	5/1/2024 11:45 AM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #455		

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	5/9/2024	8:21 AM	SM10200H-2011
Pheophytin	0.50	U	mg/M3	0.5	2.0	5/9/2024	8:21 AM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	5/2/2024	7:46 AM	SM5210B-2016
Color	1.25	U	CU	1.25	5.00	5/1/2024	2:13 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		5/1/2024	2:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	5/3/2024	10:07 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	5/1/2024	1:57 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	5/1/2024	1:57 PM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	5/1/2024	1:34 PM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	5/14/2024	8:35 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	5/14/2024	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	5/3/2024	10:24 AM	SM5310B-2014
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	5/14/2024	8:36 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



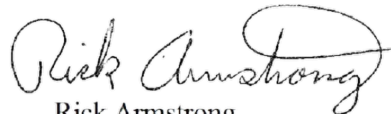
Laboratory ID	AF89808	Collection date and time	5/1/2024 11:45 AM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #455		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	5/1/2024	2:09 PM	SM2540D-2015
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	5/1/2024	1:38 PM	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



LCEL

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: Tidal Caloosa		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				
Distrib List: FDEP - South		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 Reistad/Monica Jaeger		Sample Collector Signature:		Analyses Required \$Chloroa, _prep O-PO4, Color, NOX TOC NH3, TKN, TN, T-PO4, NO3, ONIT Turb, NO2, TSS, Bod, Bodi Entero						
Relinquished By: (signature)	Date	Time	Received By: (signature)							
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: 1.3°C				Preservatives (see codes) NP NPF S S NP ST						
Collection Date	Time	Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted				Lab ID #		
05/01/24	0855	CRNEP_RS #395	SWE	1	1	1	1	2	1	AF89802
		CRNEP_RS #395 BOTTOM DID NOT SAMPLE	SWE	1	1	1	1	2	1	AF89803
05/01/24	1055	CRNEP_RS #455	SWE	1	1	1	1	2	1	AF89804
05/01/24	1003	CRNEP_RS #443	SWE	1	1	1	1	2	1	AF89805
05/01/24	0925	CRNEP_RS #404	SWE	1	1	1	1	2	1	AF89806
05/01/24	1025	CRNEP_RS #449	SWE	1	1	1	1	2	1	AF89807
05/01/24	1145	CRNEP_EQ # @455	SWE	1	1	1	1	2	1	AF89808

**SAMPLES SHOULD BE IN WET ICE & LESS THAN 6° C (42.8°F)
OR THEY MAYBE QUALIFIED***

449 and 445 bottles mixed up
corrections handwritten on bottles

*Qualified = the data may not be accurate and regulatory agencies may not accept qualified data.