

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: 4/25/2024

Below are the results of samples submitted to this laboratory on 4/15/2024

Laboratory ID	AF87195	Collection date and time	4/15/2024 9:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #418		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	5.17		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Pheophytin	58.54		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	120.9		%	0.1		4/15/2024	9:35 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	2.6	J3	mg/L	0.3	1.2	4/16/2024	9:57 AM	SM5210B-2016
Color	51.3		CU	1.25	5.00	4/16/2024	2:31 PM	SM21 2120 C
Specific Conductance, By Client	12300		µmhos/cm			4/15/2024	9:35 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	9.89		mg/L			4/15/2024	9:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/15/2024	1:16 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/19/2024	8:50 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	4/16/2024	1:58 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrogen, Organic	1.4		mg/L as N	0.10	0.4	4/22/2024	7:56 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	4/16/2024	1:49 PM	EPA 365.1
pH, Field (electrometric) by Client	8.28		units			4/15/2024	9:35 AM	FDEP FT1100
Salinity by meter by Client	7.05		SU			4/15/2024	9:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.5		meters			4/15/2024	9:35 AM	FDEP FT 1700
Depth of Water Body	2.7		Meters			4/15/2024	9:35 AM	FS2100
Field Temperature by client	24.1		°C			4/15/2024	9:35 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.4		mg/L as N	0.10	0.4	4/22/2024	7:56 AM	EPA 351.2
Nitrogen, Total	1.4		mg/L as N	0.10	0.4	4/22/2024	7:56 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/23/2024	3:01 PM	SM5310B-2014
Phosphorus, Total as P	0.055		mg/L as P	0.006	0.024	4/22/2024	7:57 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF87195	Collection date and time	4/15/2024 9:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #418		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	10.8		mg/L	0.6	2.4	4/16/2024	9:22 AM	SM2540D-2015
Turbidity (Nephelometric)	8.08		NTU	0.2	0.8	4/16/2024	7:10 AM	EPA 180.1

Laboratory ID	AF87196	Collection date and time	4/15/2024 9:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #441		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.98		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Pheophytin	15.48		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	87.1		%	0.1		4/15/2024	9:55 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.5	I	mg/L	0.3	1.2	4/16/2024	9:57 AM	SM5210B-2016
Color	70.0		CU	1.25	5.00	4/16/2024	2:31 PM	SM21 2120 C
Specific Conductance, By Client	4900		µmhos/cm			4/15/2024	9:55 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.34		mg/L			4/15/2024	9:55 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/15/2024	1:16 PM	Enterolert®
Ammonia as N	0.021	I	mg/L as N	0.014	0.056	4/19/2024	8:50 AM	EPA 350.1
Nitrite as N	0.006	I	mg/L as N	0.003	0.012	4/16/2024	1:58 PM	EPA 353.2
Nitrate as N	0.114		mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrate + Nitrite as N	0.120		mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN - NH3
Phosphorus, Ortho as P	0.028		mg/L as P	0.005	0.020	4/16/2024	1:49 PM	EPA 365.1
pH, Field (electrometric) by Client	7.87		units			4/15/2024	9:55 AM	FDEP FT1100
Salinity by meter by Client	2.62		SU			4/15/2024	9:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.8		meters			4/15/2024	9:55 AM	FDEP FT 1700
Depth of Water Body	1.3		Meters			4/15/2024	9:55 AM	FS2100
Field Temperature by client	23.7		°C			4/15/2024	9:55 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	4/23/2024	3:01 PM	SM5310B-2014
Phosphorus, Total as P	0.088		mg/L as P	0.006	0.024	4/23/2024	8:37 AM	EPA 365.1
Total Suspended Solids	4.75		mg/L	0.6	2.4	4/16/2024	9:22 AM	SM2540D-2015
Turbidity (Nephelometric)	5.44		NTU	0.2	0.8	4/16/2024	7:10 AM	EPA 180.1



Laboratory ID	AF87197	Collection date and time	4/15/2024 9:15 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	5.08		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Pheophytin	26.29		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	122.8		%	0.1		4/15/2024	9:15 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	2.6		mg/L	0.3	1.2	4/16/2024	9:57 AM	SM5210B-2016
Color	47.1		CU	1.25	5.00	4/16/2024	2:31 PM	SM21 2120 C
Specific Conductance, By Client	17200		µmhos/cm			4/15/2024	9:15 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	9.78		mg/L			4/15/2024	9:15 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/15/2024	1:16 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/19/2024	8:50 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	4/16/2024	1:58 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrogen, Organic	1.4		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	4/16/2024	1:49 PM	EPA 365.1
pH, Field (electrometric) by Client	8.37		units			4/15/2024	9:15 AM	FDEP FT1100
Salinity by meter by Client	10.15		SU			4/15/2024	9:15 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.6		meters			4/15/2024	9:15 AM	FDEP FT 1700
Depth of Water Body	2.6		Meters			4/15/2024	9:15 AM	FS2100
Field Temperature by client	23.7		°C			4/15/2024	9:15 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.4		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	EPA 351.2
Nitrogen, Total	1.4		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/23/2024	3:01 PM	SM5310B-2014
Phosphorus, Total as P	0.053		mg/L as P	0.006	0.024	4/23/2024	8:37 AM	EPA 365.1
Total Suspended Solids	10.3		mg/L	0.6	2.4	4/16/2024	9:22 AM	SM2540D-2015
Turbidity (Nephelometric)	7.82		NTU	0.2	0.8	4/16/2024	7:10 AM	EPA 180.1

Laboratory ID	AF87198	Collection date and time	4/15/2024 10:20 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	6.62		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Pheophytin	51.35		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	96.6		%	0.1		4/15/2024	10:20 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	2.0		mg/L	0.3	1.2	4/16/2024	9:57 AM	SM5210B-2016
Color	64.8		CU	1.25	5.00	4/16/2024	2:31 PM	SM21 2120 C

Report Format: NELAC

DOH #E45049



Laboratory ID	AF87198	Collection date and time	4/15/2024 10:20 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
Specific Conductance, By Client	5500		µmhos/cm			4/15/2024	10:20 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.95		mg/L			4/15/2024	10:20 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/15/2024	1:16 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/19/2024	8:50 AM	EPA 350.1
Nitrite as N	0.007	I	mg/L as N	0.003	0.012	4/16/2024	1:58 PM	EPA 353.2
Nitrate as N	0.071		mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrate + Nitrite as N	0.078		mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrogen, Organic	1.2		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN - NH3
Phosphorus, Ortho as P	0.031		mg/L as P	0.005	0.020	4/16/2024	1:49 PM	EPA 365.1
pH, Field (electrometric) by Client	7.96		units			4/15/2024	10:20 AM	FDEP FT1100
Salinity by meter by Client	2.94		SU			4/15/2024	10:20 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.8		meters			4/15/2024	10:20 AM	FDEP FT 1700
Depth of Water Body	1.6		Meters			4/15/2024	10:20 AM	FS2100
Field Temperature by client	24.3		°C			4/15/2024	10:20 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.2		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	4/23/2024	3:01 PM	SM5310B-2014
Phosphorus, Total as P	0.095		mg/L as P	0.006	0.024	4/23/2024	8:37 AM	EPA 365.1
Total Suspended Solids	4.40		mg/L	0.6	2.4	4/16/2024	9:22 AM	SM2540D-2015
Turbidity (Nephelometric)	4.93		NTU	0.2	0.8	4/16/2024	7:10 AM	EPA 180.1

Laboratory ID	AF87199	Collection date and time	4/15/2024 10:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #448		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	3.18		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Pheophytin	11.18		mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	94.6		%	0.1		4/15/2024	10:40 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.5		mg/L	0.3	1.2	4/16/2024	9:57 AM	SM5210B-2016
Color	65.9		CU	1.25	5.00	4/16/2024	2:31 PM	SM21 2120 C
Specific Conductance, By Client	2300		µmhos/cm			4/15/2024	10:40 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.82		mg/L			4/15/2024	10:40 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/15/2024	1:16 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/19/2024	8:50 AM	EPA 350.1
Nitrite as N	0.006	I	mg/L as N	0.003	0.012	4/16/2024	1:58 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF87199	Collection date and time	4/15/2024 10:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #448		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate as N	0.052		mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrate + Nitrite as N	0.058		mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrogen, Organic	1.0		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN - NH3
Phosphorus, Ortho as P	0.033		mg/L as P	0.005	0.020	4/16/2024	1:49 PM	EPA 365.1
pH, Field (electrometric) by Client	7.85		units			4/15/2024	10:40 AM	FDEP FT1100
Salinity by meter by Client	1.17		SU			4/15/2024	10:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.0		meters			4/15/2024	10:40 AM	FDEP FT 1700
Depth of Water Body	2.0		Meters			4/15/2024	10:40 AM	FS2100
Field Temperature by client	24.7		°C			4/15/2024	10:40 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.0		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	4/23/2024	8:36 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	4/23/2024	3:01 PM	SM5310B-2014
Phosphorus, Total as P	0.086		mg/L as P	0.006	0.024	4/23/2024	8:37 AM	EPA 365.1
Total Suspended Solids	3.40		mg/L	0.6	2.4	4/16/2024	9:22 AM	SM2540D-2015
Turbidity (Nephelometric)	4.40		NTU	0.2	0.8	4/16/2024	7:10 AM	EPA 180.1

Laboratory ID	AF87200	Collection date and time	4/15/2024 11:20 AM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #448		

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	4/24/2024	7:26 AM	SM10200H-2011
Pheophytin	0.50	U	mg/M3	0.5	2.0	4/24/2024	7:26 AM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	4/16/2024	9:57 AM	SM5210B-2016
Color	1.25	U	CU	1.25	5.00	4/16/2024	2:31 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		4/15/2024	1:16 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/19/2024	8:50 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	4/16/2024	1:58 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	4/16/2024	1:58 PM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	4/22/2024	7:56 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	4/16/2024	1:49 PM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	4/22/2024	7:56 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	4/22/2024	7:56 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	4/23/2024	3:01 PM	SM5310B-2014
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	4/22/2024	7:57 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



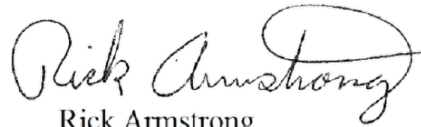
Laboratory ID	AF87200	Collection date and time	4/15/2024 11:20 AM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #448		

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	4/16/2024	9:22 AM	SM2540D-2015
Turbidity (Nephelometric)	0.2	U	NTU	0.2	0.8	4/16/2024	7:10 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).
- J3 The reported value failed to meet the established quality control criteria for either precision or accuracy.
- 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

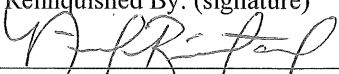
LCEL F COC 20150828R1

LCEL does not accept any samples used for evidentiary purposes

Report/Result Information

Billing/Invoice Information

Page 1 of 1

Name: 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							
Relinquished By: (signature) 	Date 04/15/24	Time 1247	Received By: (signature) 	\$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)								
Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 3.0°C				NP	NPF	S	S	NP	ST		
Collection Date Time		Sample Description & Location		Matrix (see codes)	# of Sample Containers Submitted					Lab ID #	
04/15/24	0935	CRNEP_RS #418		SWE	1	1	1	1	2	1	AF87195
04/15/24	0955	CRNEP_RS #441		SWE	1	1	1	1	2	1	AF87196
04/15/24	0915	CRNEP_RS #404		SWE	1	1	1	1	2	1	AF87197
04/15/24	1020	CRNEP_RS #443		SWE	1	1	1	1	2	1	AF87198
04/15/24	1040	CRNEP_RS #448		SWE	1	1	1	1	2	1	AF87199
04/15/24	1120	CRNEP_EQ # 448		SWE	1	1	1	1	2	1	AF87200

**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.