

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: 3/28/2024

Below are the results of samples submitted to this laboratory on 3/18/2024

Laboratory ID	AF84398	Collection date and time	3/18/2024 9:55 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	5.63		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Pheophytin	13.26		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	99.4		%	0.1		3/18/2024	9:55 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.1	I	mg/L	0.3	1.2	3/19/2024	10:21 AM	SM5210B-2016
Color	66.2		CU	1.25	5.00	3/19/2024	1:43 PM	SM21 2120 C
Specific Conductance, By Client	4800		µmhos/cm			3/18/2024	9:55 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.86		mg/L			3/18/2024	9:55 AM	FDEP FT1500
Enterococci	53		MPN/100mL	10		3/18/2024	2:24 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/22/2024	8:49 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	3/19/2024	12:06 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	3/25/2024	8:24 AM	TKN - NH3
Phosphorus, Ortho as P	0.018	I	mg/L as P	0.005	0.020	3/19/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	8.16		units			3/18/2024	9:55 AM	FDEP FT1100
Salinity by meter by Client	2.56		SU			3/18/2024	9:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			3/18/2024	9:55 AM	FDEP FT 1700
Depth of Water Body	2.2		Meters			3/18/2024	9:55 AM	FS2100
Field Temperature by client	26.6		°C			3/18/2024	9:55 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	3/25/2024	8:24 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	3/25/2024	8:24 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	3/25/2024	3:25 PM	SM5310B-2014
Phosphorus, Total as P	0.054		mg/L as P	0.006	0.024	3/25/2024	8:25 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF84398	Collection date and time	3/18/2024 9:55 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	4.10		mg/L	0.6	2.4	3/19/2024	6:38 AM	SM2540D-2015
Turbidity (Nephelometric)	4.92		NTU	0.2	0.8	3/19/2024	6:15 AM	EPA 180.1

Laboratory ID	AF84399	Collection date and time	3/18/2024 11:30 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #454		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	3.30		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Pheophytin	52.29		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	85.9		%	0.1		3/18/2024	11:30 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.5		mg/L	0.3	1.2	3/19/2024	10:21 AM	SM5210B-2016
Color	67.9		CU	1.25	5.00	3/19/2024	1:43 PM	SM21 2120 C
Specific Conductance, By Client	400		µmhos/cm			3/18/2024	11:30 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.68		mg/L			3/18/2024	11:30 AM	FDEP FT1500
Enterococci	53		MPN/100mL	10		3/18/2024	2:24 PM	Enterolert®
Ammonia as N	0.022	I	mg/L as N	0.014	0.056	3/22/2024	8:49 AM	EPA 350.1
Nitrite as N	0.004	I	mg/L as N	0.003	0.012	3/19/2024	12:06 PM	EPA 353.2
Nitrate as N	0.010	I	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrate + Nitrite as N	0.014	I	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrogen, Organic	1.6		mg/L as N	0.10	0.4	3/25/2024	8:24 AM	TKN - NH3
Phosphorus, Ortho as P	0.025		mg/L as P	0.005	0.020	3/19/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	7.73		units			3/18/2024	11:30 AM	FDEP FT1100
Salinity by meter by Client	0.21		SU			3/18/2024	11:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.5		meters			3/18/2024	11:30 AM	FDEP FT 1700
Depth of Water Body	0.8		Meters			3/18/2024	11:30 AM	FS2100
Field Temperature by client	28.3		°C			3/18/2024	11:30 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.6		mg/L as N	0.10	0.4	3/25/2024	8:24 AM	EPA 351.2
Nitrogen, Total	1.6		mg/L as N	0.10	0.4	3/25/2024	8:24 AM	TKN + NOX
Total Organic Carbon (NPOC)	16		mg/L	1	4	3/25/2024	3:25 PM	SM5310B-2014
Phosphorus, Total as P	0.13		mg/L as P	0.006	0.024	3/25/2024	8:25 AM	EPA 365.1
Total Suspended Solids	24.3		mg/L	0.6	2.4	3/19/2024	6:38 AM	SM2540D-2015
Turbidity (Nephelometric)	20.7		NTU	0.2	0.8	3/19/2024	6:15 AM	EPA 180.1



Laboratory ID	AF84400	Collection date and time	3/18/2024 11:05 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	4.93		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Pheophytin	13.40		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	74.7		%	0.1		3/18/2024	11:05 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.6	I	mg/L	0.3	1.2	3/19/2024	10:21 AM	SM5210B-2016
Color	72.7		CU	1.25	5.00	3/19/2024	1:43 PM	SM21 2120 C
Specific Conductance, By Client	400		µmhos/cm			3/18/2024	11:05 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	5.92		mg/L			3/18/2024	11:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/18/2024	2:24 PM	Enterolert®
Ammonia as N	0.049	I	mg/L as N	0.014	0.056	3/22/2024	8:49 AM	EPA 350.1
Nitrite as N	0.007	I	mg/L as N	0.003	0.012	3/19/2024	12:06 PM	EPA 353.2
Nitrate as N	0.025	I	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrate + Nitrite as N	0.032	I	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	TKN - NH3
Phosphorus, Ortho as P	0.031		mg/L as P	0.005	0.020	3/19/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	7.72		units			3/18/2024	11:05 AM	FDEP FT1100
Salinity by meter by Client	0.20		SU			3/18/2024	11:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.75		meters			3/18/2024	11:05 AM	FDEP FT 1700
Depth of Water Body	2.1		Meters			3/18/2024	11:05 AM	FS2100
Field Temperature by client	27.3		°C			3/18/2024	11:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	TKN + NOX
Total Organic Carbon (NPOC)	16		mg/L	1	4	3/25/2024	3:25 PM	SM5310B-2014
Phosphorus, Total as P	0.075		mg/L as P	0.006	0.024	3/26/2024	7:51 AM	EPA 365.1
Total Suspended Solids	5.10		mg/L	0.6	2.4	3/19/2024	6:38 AM	SM2540D-2015
Turbidity (Nephelometric)	5.48		NTU	0.2	0.8	3/19/2024	6:15 AM	EPA 180.1

Laboratory ID	AF84401	Collection date and time	3/18/2024 10:30 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	0.93	I	mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Pheophytin	5.37		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	79.7		%	0.1		3/18/2024	10:30 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	3/19/2024	10:21 AM	SM5210B-2016
Color	87.4		CU	1.25	5.00	3/19/2024	1:43 PM	SM21 2120 C

Report Format: NELAC

DOH #E45049



Laboratory ID	AF84401	Collection date and time	3/18/2024 10:30 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
Specific Conductance, By Client	400		µmhos/cm			3/18/2024	10:30 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.34		mg/L			3/18/2024	10:30 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		3/18/2024	2:24 PM	Enterolert®
Ammonia as N	0.066		mg/L as N	0.014	0.056	3/22/2024	8:49 AM	EPA 350.1
Nitrite as N	0.008	I	mg/L as N	0.003	0.012	3/19/2024	12:06 PM	EPA 353.2
Nitrate as N	0.077		mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrate + Nitrite as N	0.085		mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	TKN - NH3
Phosphorus, Ortho as P	0.073		mg/L as P	0.005	0.020	3/19/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	7.82		units			3/18/2024	10:30 AM	FDEP FT1100
Salinity by meter by Client	0.20		SU			3/18/2024	10:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.8		meters			3/18/2024	10:30 AM	FDEP FT 1700
Depth of Water Body	1.5		Meters			3/18/2024	10:30 AM	FS2100
Field Temperature by client	27.1		°C			3/18/2024	10:30 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.2		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	TKN + NOX
Total Organic Carbon (NPOC)	16		mg/L	1	4	3/25/2024	3:25 PM	SM5310B-2014
Phosphorus, Total as P	0.11		mg/L as P	0.006	0.024	3/26/2024	7:51 AM	EPA 365.1
Total Suspended Solids	3.55		mg/L	0.6	2.4	3/19/2024	6:38 AM	SM2540D-2015
Turbidity (Nephelometric)	6.39		NTU	0.2	0.8	3/19/2024	6:15 AM	EPA 180.1

Laboratory ID	AF84402	Collection date and time	3/18/2024 9:20 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	5.87		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Pheophytin	10.27		mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	93.2		%	0.1		3/18/2024	9:20 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	3/19/2024	10:21 AM	SM5210B-2016
Color	63.2		CU	1.25	5.00	3/19/2024	1:43 PM	SM21 2120 C
Specific Conductance, By Client	7900		µmhos/cm			3/18/2024	9:20 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.37		mg/L			3/18/2024	9:20 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/18/2024	2:24 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/22/2024	8:49 AM	EPA 350.1
Nitrite as N	0.004	I	mg/L as N	0.003	0.012	3/19/2024	12:06 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF84402	Collection date and time	3/18/2024 9:20 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
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	TKN - NH3
Phosphorus, Ortho as P	0.020		mg/L as P	0.005	0.020	3/19/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	7.89		units			3/18/2024	9:20 AM	FDEP FT1100
Salinity by meter by Client	4.39		SU			3/18/2024	9:20 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7		meters			3/18/2024	9:20 AM	FDEP FT 1700
Depth of Water Body	1.9		Meters			3/18/2024	9:20 AM	FS2100
Field Temperature by client	26.1		°C			3/18/2024	9:20 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	3/26/2024	7:50 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	3/25/2024	3:25 PM	SM5310B-2014
Phosphorus, Total as P	0.060		mg/L as P	0.006	0.024	3/26/2024	7:51 AM	EPA 365.1
Total Suspended Solids	5.70		mg/L	0.6	2.4	3/19/2024	6:38 AM	SM2540D-2015
Turbidity (Nephelometric)	7.00		NTU	0.2	0.8	3/19/2024	6:15 AM	EPA 180.1

Laboratory ID	AF84403	Collection date and time	3/18/2024 12:45 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #454		

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	3/22/2024	7:22 AM	SM10200H-2011
Pheophytin	0.50	U	mg/M3	0.5	2.0	3/22/2024	7:22 AM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	3/19/2024	10:21 AM	SM5210B-2016
Color	1.25	U	CU	1.25	5.00	3/19/2024	1:43 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		3/18/2024	2:24 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/22/2024	8:49 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	3/19/2024	12:06 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	3/19/2024	12:06 PM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	3/25/2024	8:24 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	3/19/2024	12:43 PM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	3/25/2024	8:24 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	3/25/2024	8:24 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	3/25/2024	3:25 PM	SM5310B-2014
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	3/25/2024	8:25 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF84403	Collection date and time	3/18/2024 12:45 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #454		

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	3/19/2024	6:38 AM	SM2540D-2015
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	3/19/2024	6:15 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

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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	Time	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)							
Preservatives (see codes)										

Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 3.1°C

NP NPF S S NP ST

Collection		Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
Date	Time									
03/18/24	0955	CRNEP_RS #418	SWE	1	1	1	1	2	1	AF84398
03/18/24	1130	CRNEP_RS #454	SWE	1	1	1	1	2	1	AF84399
03/18/24	1105	CRNEP_RS #449	SWE	1	1	1	1	2	1	AF84400
03/18/24	1030	CRNEP_RS #448	SWE	1	1	1	1	2	1	AF84401
03/18/24	0920	CRNEP_RS #395	SWE	1	1	1	1	2	1	AF84402
03/18/24	1245	CRNEP_EQ # C454	SWE	1	1	1	1	2	1	AF84403

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.