

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: 4/20/2023

Below are the results of samples submitted to this laboratory on 4/5/2023

Laboratory ID	AF55375	Collection date and time	4/5/2023 12:50 PM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #453		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.79	I	mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Pheophytin	10.55		mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	110.8		%	0.1		4/5/2023	12:50 PM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.1	I	mg/L	0.3	1.2	4/6/2023	10:10 AM	SM 5210 B
Color	81.3		CU	1.25	5.00	4/6/2023	3:04 PM	SM21 2120 C
Specific Conductance, By Client	700		µmhos/cm			4/5/2023	12:50 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	8.53		mg/L			4/5/2023	12:50 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/5/2023	2:51 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/6/2023	9:23 AM	EPA 350.1
Nitrite as N	0.008	I	mg/L as N	0.003	0.012	4/6/2023	1:39 PM	EPA 353.2
Nitrate as N	0.033	I	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrate + Nitrite as N	0.041		mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrogen, Organic	1.0		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN - NH3
Phosphorus, Ortho as P	0.055		mg/L as P	0.005	0.020	4/6/2023	3:03 PM	EPA 365.1
pH, Field (electrometric) by Client	8.36		units			4/5/2023	12:50 PM	FDEP FT1100
Salinity by meter by Client	0.34		SU			4/5/2023	12:50 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.55		meters			4/5/2023	12:50 PM	FDEP FT 1700
Depth of Water Body	1.0		Meters			4/5/2023	12:50 PM	FS2100
Field Temperature by client	28.9		°C			4/5/2023	12:50 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.0		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN + NOX
Total Organic Carbon (NPOC)	17		mg/L	1	4	4/13/2023	2:37 PM	SM 5310 B
Phosphorus, Total as P	0.11		mg/L as P	0.006	0.024	4/11/2023	8:27 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF55375	Collection date and time	4/5/2023 12:50 PM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #453		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	5.70		mg/L	0.6	2.4	4/6/2023	9:24 AM	SM 2540 D
Turbidity (Nephelometric)	7.98		NTU	0.2	0.8	4/6/2023	7:51 AM	EPA 180.1

Laboratory ID	AF55376	Collection date and time	4/5/2023 12:15 PM
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	1.78	I	mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Pheophytin	14.65		mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	93.1		%	0.1		4/5/2023	12:15 PM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.1	I	mg/L	0.3	1.2	4/6/2023	10:10 AM	SM 5210 B
Color	74.0		CU	1.25	5.00	4/6/2023	3:04 PM	SM21 2120 C
Specific Conductance, By Client	2200		µmhos/cm			4/5/2023	12:15 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.28		mg/L			4/5/2023	12:15 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/5/2023	2:51 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/6/2023	9:23 AM	EPA 350.1
Nitrite as N	0.007	I	mg/L as N	0.003	0.012	4/6/2023	1:39 PM	EPA 353.2
Nitrate as N	0.027	I	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrate + Nitrite as N	0.034	I	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrogen, Organic	0.97		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN - NH3
Phosphorus, Ortho as P	0.058		mg/L as P	0.005	0.020	4/6/2023	3:03 PM	EPA 365.1
pH, Field (electrometric) by Client	8.02		units			4/5/2023	12:15 PM	FDEP FT1100
Salinity by meter by Client	1.13		SU			4/5/2023	12:15 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.75		meters			4/5/2023	12:15 PM	FDEP FT 1700
Depth of Water Body	2.2		Meters			4/5/2023	12:15 PM	FS2100
Field Temperature by client	27.9		°C			4/5/2023	12:15 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.97		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN + NOX
Total Organic Carbon (NPOC)	16		mg/L	1	4	4/13/2023	2:37 PM	SM 5310 B
Phosphorus, Total as P	0.10		mg/L as P	0.006	0.024	4/11/2023	8:27 AM	EPA 365.1
Total Suspended Solids	2.70		mg/L	0.6	2.4	4/6/2023	9:24 AM	SM 2540 D
Turbidity (Nephelometric)	5.21		NTU	0.2	0.8	4/6/2023	7:51 AM	EPA 180.1



Laboratory ID	AF55377	Collection date and time	4/5/2023	10:45 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #403			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.42	I	mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Pheophytin	3.29		mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	90.7		%	0.1		4/5/2023	10:45 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.9	I	mg/L	0.3	1.2	4/6/2023	10:10 AM	SM 5210 B
Color	51.4		CU	1.25	5.00	4/6/2023	3:04 PM	SM21 2120 C
Specific Conductance, By Client	15400		µmhos/cm			4/5/2023	10:45 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.83		mg/L			4/5/2023	10:45 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/5/2023	2:51 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/6/2023	9:23 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	4/6/2023	1:39 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrogen, Organic	0.84		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN - NH3
Phosphorus, Ortho as P	0.054		mg/L as P	0.005	0.020	4/6/2023	3:03 PM	EPA 365.1
pH, Field (electrometric) by Client	7.89		units			4/5/2023	10:45 AM	FDEP FT1100
Salinity by meter by Client	8.93		SU			4/5/2023	10:45 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.35		meters			4/5/2023	10:45 AM	FDEP FT 1700
Depth of Water Body	3.1		Meters			4/5/2023	10:45 AM	FS2100
Field Temperature by client	27.3		°C			4/5/2023	10:45 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.84		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	EPA 351.2
Nitrogen, Total	0.84		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/13/2023	2:37 PM	SM 5310 B
Phosphorus, Total as P	0.084		mg/L as P	0.006	0.024	4/11/2023	8:27 AM	EPA 365.1
Total Suspended Solids	1.80	I	mg/L	0.6	2.4	4/6/2023	9:24 AM	SM 2540 D
Turbidity (Nephelometric)	2.45		NTU	0.2	0.8	4/6/2023	7:51 AM	EPA 180.1

Laboratory ID	AF55378	Collection date and time	4/5/2023	9:50 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #326			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.03		mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Pheophytin	2.43		mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	90.1		%	0.1		4/5/2023	9:50 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	4/6/2023	10:10 AM	SM 5210 B
Color	31.5		CU	1.25	5.00	4/6/2023	3:04 PM	SM21 2120 C

Report Format: NELAC

DOH #E45049



Laboratory ID	AF55378	Collection date and time	4/5/2023 9:50 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #326		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Specific Conductance, By Client	32500		µmhos/cm			4/5/2023	9:50 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.33		mg/L			4/5/2023	9:50 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/5/2023	2:51 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/6/2023	9:23 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	4/6/2023	1:39 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrogen, Organic	0.97		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN - NH3
Phosphorus, Ortho as P	0.035		mg/L as P	0.005	0.020	4/6/2023	3:03 PM	EPA 365.1
pH, Field (electrometric) by Client	7.77		units			4/5/2023	9:50 AM	FDEP FT1100
Salinity by meter by Client	20.19		SU			4/5/2023	9:50 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	20.19		meters			4/5/2023	9:50 AM	FDEP FT 1700
Depth of Water Body	2.8		Meters			4/5/2023	9:50 AM	FS2100
Field Temperature by client	27.7		°C			4/5/2023	9:50 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.97		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	EPA 351.2
Nitrogen, Total	0.97		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN + NOX
Total Organic Carbon (NPOC)	9.6		mg/L	1	4	4/13/2023	2:37 PM	SM 5310 B
Phosphorus, Total as P	0.060		mg/L as P	0.006	0.024	4/11/2023	8:27 AM	EPA 365.1
Total Suspended Solids	4.80		mg/L	0.6	2.4	4/6/2023	9:24 AM	SM 2540 D
Turbidity (Nephelometric)	1.52		NTU	0.2	0.8	4/6/2023	7:51 AM	EPA 180.1

Laboratory ID	AF55379	Collection date and time	4/5/2023 11:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #434		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.54	I	mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Pheophytin	7.78		mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	90.4		%	0.1		4/5/2023	11:35 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	4/6/2023	10:10 AM	SM 5210 B
Color	66.9		CU	1.25	5.00	4/6/2023	3:04 PM	SM21 2120 C
Specific Conductance, By Client	6100		µmhos/cm			4/5/2023	11:35 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.02		mg/L			4/5/2023	11:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/5/2023	2:51 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/6/2023	9:23 AM	EPA 350.1
Nitrite as N	0.004	I	mg/L as N	0.003	0.012	4/6/2023	1:39 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF55379	Collection date and time	4/5/2023 11:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #434		

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	4/6/2023	1:39 PM	EPA 353.2
Nitrate + Nitrite as N	0.012	I	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrogen, Organic	1.0		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN - NH3
Phosphorus, Ortho as P	0.060		mg/L as P	0.005	0.020	4/6/2023	3:03 PM	EPA 365.1
pH, Field (electrometric) by Client	7.99		units			4/5/2023	11:35 AM	FDEP FT1100
Salinity by meter by Client	3.28		SU			4/5/2023	11:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7		meters			4/5/2023	11:35 AM	FDEP FT 1700
Depth of Water Body	2.3		Meters			4/5/2023	11:35 AM	FS2100
Field Temperature by client	27.4		°C			4/5/2023	11:35 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.0		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN + NOX
Total Organic Carbon (NPOC)	16		mg/L	1	4	4/13/2023	2:37 PM	SM 5310 B
Phosphorus, Total as P	0.11		mg/L as P	0.006	0.024	4/11/2023	8:27 AM	EPA 365.1
Total Suspended Solids	8.00		mg/L	0.6	2.4	4/6/2023	9:24 AM	SM 2540 D
Turbidity (Nephelometric)	9.07		NTU	0.2	0.8	4/6/2023	7:51 AM	EPA 180.1

Laboratory ID	AF55380	Collection date and time	4/5/2023 2:05 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #453		

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	4/13/2023	7:22 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	4/13/2023	7:22 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	4/6/2023	10:10 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	4/6/2023	3:04 PM	SM21 2120 C
Enterococci	10	U	MPN/100mL	10		4/5/2023	2:51 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	4/6/2023	9:23 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	4/6/2023	1:39 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	4/6/2023	1:39 PM	EPA 353.2
Nitrogen, Organic	0.1000	U	mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	4/6/2023	3:03 PM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	4/11/2023	8:25 AM	EPA 351.2
Nitrogen, Total	0.1000	U	mg/L as N	0.10	0.4	4/11/2023	8:25 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	4/13/2023	2:37 PM	SM 5310 B
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	4/11/2023	8:27 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



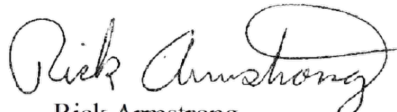
Laboratory ID	AF55380	Collection date and time	4/5/2023 2:05 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #453		

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	4/6/2023	9:24 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	4/6/2023	7:51 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 & Chain of Custody Record

LCEL does not accept any samples used for evidentiary purposes

Lab Certification: E45049

LCEL F COC 20150828R1

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) 344-5710	Phone: (239) 533-8109		

Sample Collector(s) (please print): Nicole Reistad/Monica Jaeger		Sample Collector Signature:		Analyses Required						
Relinquished By: (signature) 	Date 04/05/23	Time 1443	Received By: (signature) 	\$Chloro, _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: 4.1°C	NP	NPF	S	S	NP	ST
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Collection		Sample Description & Location	Matrix (see codes)	Preservatives (see codes)						Lab ID #
Date	Time			NP	NPF	S	S	NP	ST	
04/05/23	1250	CRNEP_RS #453	SWE	1	1	1	1	2	1	AF55375
04/05/23	1215	CRNEP_RS #443	SWE	1	1	1	1	2	1	AF55376
04/05/23	1045	CRNEP_RS #403	SWE	1	1	1	1	2	1	AF55377
04/05/23	0950	CRNEP_RS #326	SWE	1	1	1	1	2	1	AF55378
04/05/23	1135	CRNEP_RS #434	SWE	1	1	1	1	2	1	AF55379
04/05/23	1405	CRNEP_EQ # @ A53	SWE	1	1	1	1	2	1	AF55380

**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.