

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: 4/29/2022

Below are the results of samples submitted to this laboratory on 4/20/2022

Laboratory ID	AF21548	Collection date and time	4/20/2022 9:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #388		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.52	I	mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Pheophytin	2.05		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	4/21/2022	10:54 AM	SM 5210 B
Color	32.4		CU	1.25	5.00	4/20/2022	2:53 PM	SM21 2120 C
Specific Conductance, By Client	20600		µmhos/cm			4/20/2022	9:35 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.44		mg/L			4/20/2022	9:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/20/2022	2:00 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	4/21/2022	9:25 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	4/21/2022	8:35 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrogen, Organic	0.78		mg/L as N	0.10	0.4	4/25/2022	8:35 AM	TKN - NH3
Phosphorus, Ortho	0.031		mg/L as P	0.005	0.020	4/21/2022	4:15 PM	EPA 365.1
pH, Field (electrometric) by Client	7.87		units			4/20/2022	9:35 AM	FDEP FT1100
Salinity by meter by Client	12.28		SU			4/20/2022	9:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7	S	meters			4/20/2022	9:35 AM	FDEP FT 1700
Silica, dissolved as SiO2	4.4		mg/L as SiO2	0.1	0.4	4/21/2022	1:22 PM	SM4500-SiO2 C
Depth of Water Body	0.7		Meters			4/20/2022	9:35 AM	FS2100
Field Temperature by client	24.5		°C			4/20/2022	9:35 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.78		mg/L as N	0.10	0.4	4/25/2022	8:35 AM	EPA 351.2
Nitrogen, Total	0.78		mg/L as N	0.10	0.4	4/25/2022	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	11		mg/L	1	4	4/26/2022	11:40 AM	SM 5310 B
Phosphorus, Total	0.081		mg/L as P	0.006	0.024	4/25/2022	8:37 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF21548	Collection date and time	4/20/2022 9:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #388		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	6.50		mg/L	0.6	2.4	4/21/2022	8:29 AM	SM 2540 D
Turbidity (Nephelometric)	5.53		NTU	0.2	0.8	4/21/2022	6:40 AM	EPA 180.1

Laboratory ID	AF21549	Collection date and time	4/20/2022 12:00 PM
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	6.26		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Pheophytin	13.02		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.2	I	mg/L	0.3	1.2	4/21/2022	10:54 AM	SM 5210 B
Color	46.4		CU	1.25	5.00	4/20/2022	2:53 PM	SM21 2120 C
Specific Conductance, By Client	600		µmhos/cm			4/20/2022	12:00 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.63		mg/L			4/20/2022	12:00 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/20/2022	2:00 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	4/21/2022	9:25 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	4/21/2022	8:35 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.032		mg/L as P	0.005	0.020	4/21/2022	4:15 PM	EPA 365.1
pH, Field (electrometric) by Client	8.04		units			4/20/2022	12:00 PM	FDEP FT1100
Salinity by meter by Client	0.27		SU			4/20/2022	12:00 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7	S	meters			4/20/2022	12:00 PM	FDEP FT 1700
Silica, dissolved as SiO2	6.5		mg/L as SiO2	0.1	0.4	4/21/2022	1:22 PM	SM4500-SiO2 C
Depth of Water Body	0.7		Meters			4/20/2022	12:00 PM	FS2100
Field Temperature by client	27.8		°C			4/20/2022	12:00 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/26/2022	11:40 AM	SM 5310 B
Phosphorus, Total	0.088		mg/L as P	0.006	0.024	4/26/2022	8:58 AM	EPA 365.1
Total Suspended Solids	5.30		mg/L	0.6	2.4	4/21/2022	8:29 AM	SM 2540 D
Turbidity (Nephelometric)	4.51		NTU	0.2	0.8	4/21/2022	6:40 AM	EPA 180.1



Laboratory ID	AF21550	Collection date and time	4/20/2022 11:00 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	4.36		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Pheophytin	16.04		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.1	I	mg/L	0.3	1.2	4/21/2022	10:54 AM	SM 5210 B
Color	45.1		CU	1.25	5.00	4/20/2022	2:53 PM	SM21 2120 C
Specific Conductance, By Client	2200		µmhos/cm			4/20/2022	11:00 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.59		mg/L			4/20/2022	11:00 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/20/2022	2:00 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	4/21/2022	9:25 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	4/21/2022	8:35 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.044		mg/L as P	0.005	0.020	4/21/2022	4:15 PM	EPA 365.1
pH, Field (electrometric) by Client	8.08		units			4/20/2022	11:00 AM	FDEP FT1100
Salinity by meter by Client	1.11		SU			4/20/2022	11:00 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.45		meters			4/20/2022	11:00 AM	FDEP FT 1700
Silica, dissolved as SiO2	6.3		mg/L as SiO2	0.1	0.4	4/21/2022	1:22 PM	SM4500-SiO2 C
Depth of Water Body	1.7		Meters			4/20/2022	11:00 AM	FS2100
Field Temperature by client	25.7		°C			4/20/2022	11:00 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/26/2022	11:40 AM	SM 5310 B
Phosphorus, Total	0.13		mg/L as P	0.006	0.024	4/26/2022	8:58 AM	EPA 365.1
Total Suspended Solids	13.9		mg/L	0.6	2.4	4/21/2022	8:29 AM	SM 2540 D
Turbidity (Nephelometric)	12.1		NTU	0.2	0.8	4/21/2022	6:40 AM	EPA 180.1

Laboratory ID	AF21551	Collection date and time	4/20/2022 11:30 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	14.38		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Pheophytin	8.94		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.4		mg/L	0.3	1.2	4/21/2022	10:54 AM	SM 5210 B
Color	43.0		CU	1.25	5.00	4/20/2022	2:53 PM	SM21 2120 C
Specific Conductance, By Client	700		µmhos/cm			4/20/2022	11:30 AM	FDEP FT1200

Report Format: NELAC

DOH #E45049



Laboratory ID	AF21551	Collection date and time	4/20/2022 11:30 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
Oxygen, Dissolved, Electrode, by Client	8.00		mg/L			4/20/2022	11:30 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		4/20/2022	2:00 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	4/21/2022	9:25 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	4/21/2022	8:35 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrogen, Organic	1.3		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.032		mg/L as P	0.005	0.020	4/21/2022	4:15 PM	EPA 365.1
pH, Field (electrometric) by Client	8.20		units			4/20/2022	11:30 AM	FDEP FT1100
Salinity by meter by Client	0.36		SU			4/20/2022	11:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.45		meters			4/20/2022	11:30 AM	FDEP FT 1700
Silica, dissolved as SiO2	6.3		mg/L as SiO2	0.1	0.4	4/21/2022	1:22 PM	SM4500-SiO2 C
Depth of Water Body	1.8		Meters			4/20/2022	11:30 AM	FS2100
Field Temperature by client	26.2		°C			4/20/2022	11:30 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.3		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/26/2022	11:40 AM	SM 5310 B
Phosphorus, Total	0.14		mg/L as P	0.006	0.024	4/26/2022	8:58 AM	EPA 365.1
Total Suspended Solids	18.3		mg/L	0.6	2.4	4/21/2022	8:29 AM	SM 2540 D
Turbidity (Nephelometric)	12.8		NTU	0.2	0.8	4/21/2022	6:40 AM	EPA 180.1

Laboratory ID	AF21552	Collection date and time	4/20/2022 10:15 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #428		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.00	I	mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Pheophytin	13.06		mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	4/21/2022	10:54 AM	SM 5210 B
Color	41.2		CU	1.25	5.00	4/20/2022	2:53 PM	SM21 2120 C
Specific Conductance, By Client	8900		µmhos/cm			4/20/2022	10:15 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.17		mg/L			4/20/2022	10:15 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		4/20/2022	2:00 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	4/21/2022	9:25 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	4/21/2022	8:35 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF21552	Collection date and time	4/20/2022 10:15 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #428		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN - NH3
Phosphorus, Ortho	0.041		mg/L as P	0.005	0.020	4/21/2022	4:15 PM	EPA 365.1
pH, Field (electrometric) by Client	7.99		units			4/20/2022	10:15 AM	FDEP FT1100
Salinity by meter by Client	4.97		SU			4/20/2022	10:15 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.45		meters			4/20/2022	10:15 AM	FDEP FT 1700
Silica, dissolved as SiO2	5.4		mg/L as SiO2	0.1	0.4	4/21/2022	1:22 PM	SM4500-SiO2 C
Depth of Water Body	2.0		Meters			4/20/2022	10:15 AM	FS2100
Field Temperature by client	25.6		°C			4/20/2022	10:15 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	4/26/2022	8:56 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	4/26/2022	11:40 AM	SM 5310 B
Phosphorus, Total	0.14		mg/L as P	0.006	0.024	4/26/2022	8:58 AM	EPA 365.1
Total Suspended Solids	23.9		mg/L	0.6	2.4	4/21/2022	8:29 AM	SM 2540 D
Turbidity (Nephelometric)	16.3		NTU	0.2	0.8	4/21/2022	6:40 AM	EPA 180.1

Laboratory ID	AF21553	Collection date and time	4/20/2022 1:45 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	4/25/2022	7:31 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	4/25/2022	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	4/21/2022	10:54 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	4/20/2022	2:53 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		4/20/2022	2:00 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	4/21/2022	9:25 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	4/21/2022	8:35 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	4/21/2022	11:47 AM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	4/25/2022	8:35 AM	TKN - NH3
Phosphorus, Ortho	0.005	U	mg/L as P	0.005	0.020	4/21/2022	4:15 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	4/21/2022	1:22 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	4/25/2022	8:35 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	4/25/2022	8:35 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	4/26/2022	11:40 AM	SM 5310 B

Report Format: NELAC

DOH #E45049



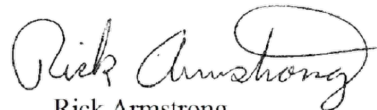
Laboratory ID	AF21553	Collection date and time	4/20/2022 1:45 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #454		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	4/25/2022	8:37 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	4/21/2022	8:29 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	4/21/2022	6:40 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).
- 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 & Chain of Custody Record

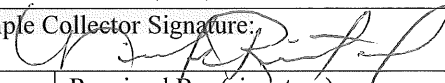
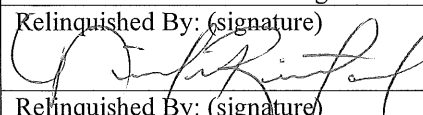
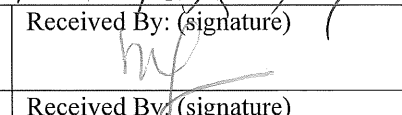
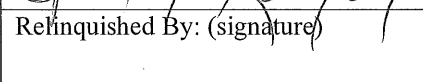
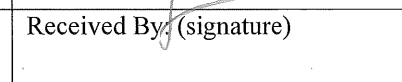
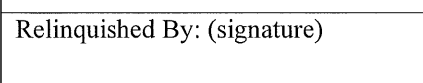
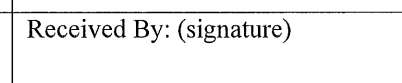
Lab Certification: E45049
LCEL F COC 20150828R1

LCEL does not accept any samples used for evidentiary purposes

Report/Result Information

Billing/Invoice Information

Page 1 of 1

Name: FDEP - South ATTN: Kirby Wolfe Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901 Phone: (239) 344-5719 Sample Collector(s) (please print): Nicole Reistad/Monica Jaeger		Name: DNRM RE: CCHMN-Tidal Caloosa Address: 1500 Monroe St Ft Myers, FL 33901 Phone: (239) 533-8109 Sample Collector Signature: 		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					
Relinquished By: (signature)  Date: 04/20/22 Time: 1354		Received By: (signature) 		Analyses Required							
Relinquished By: (signature)  Date: Time:		Received By: (signature) 		\$Chloro, _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) 									
Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 3.392				NP	NPF	S	S	NP	ST		
Collection Date Time		Sample Description & Location		Matrix (see codes)		# of Sample Containers Submitted				Lab ID #	
04/20/22	0935	CRNEP_RS #388		SWE	1	1	1	1	2	1	AF21548
04/20/22	1200	CRNEP_RS #454		SWE	1	1	1	1	2	1	AF21549
04/20/22	1100	CRNEP_RS #443		SWE	1	1	1	1	2	1	AF21550
04/20/22	1130	CRNEP_RS #449		SWE	1	1	1	1	2	1	AF21551
04/20/22	1015	CRNEP_RS #428		SWE	1	1	1	1	2	1	AF21552
04/20/22	1345	CRNEP_EQ # @454		SWE	1	1	1	1	2	1	AF21553

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.