

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: 6/22/2023

Below are the results of samples submitted to this laboratory on 6/7/2023

Laboratory ID	AF61016	Collection date and time	6/7/2023 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	6.33		mg/M3	0.5	2.0	6/13/2023	7:26 AM	SM21 10200 H
Pheophytin	6.58		mg/M3	0.5	2.0	6/13/2023	7:26 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	79.8		%	0.1		6/7/2023	11:05 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	6/8/2023	8:52 AM	SM 5210 B
Color	66.2		CU	1.25	5.00	6/7/2023	1:39 PM	SM21 2120 C
Specific Conductance, By Client	745		µmhos/cm			6/7/2023	11:05 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.15		mg/L			6/7/2023	11:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/7/2023	1:33 PM	Enterolert®
Ammonia as N	0.022	I	mg/L as N	0.014	0.056	6/9/2023	9:06 AM	EPA 350.1
Nitrite as N	0.028		mg/L as N	0.003	0.012	6/8/2023	12:45 PM	EPA 353.2
Nitrate as N	0.101		mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrate + Nitrite as N	0.129		mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrogen, Organic	0.96		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN - NH3
Phosphorus, Ortho as P	0.078		mg/L as P	0.005	0.020	6/8/2023	11:16 AM	EPA 365.1
pH, Field (electrometric) by Client	7.62		units			6/7/2023	11:05 AM	FDEP FT1100
Salinity by meter by Client	0.36		SU			6/7/2023	11:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.75		meters			6/7/2023	11:05 AM	FDEP FT 1700
Depth of Water Body	1.9		Meters			6/7/2023	11:05 AM	FS2100
Field Temperature by client	28.8		°C			6/7/2023	11:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.98		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	6/19/2023	3:35 PM	SM 5310 B
Phosphorus, Total as P	0.14		mg/L as P	0.006	0.024	6/12/2023	8:20 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF61016	Collection date and time	6/7/2023 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
Total Suspended Solids	4.65		mg/L	0.6	2.4	6/8/2023	8:10 AM	SM 2540 D
Turbidity (Nephelometric)	5.02		NTU	0.2	0.8	6/7/2023	1:30 PM	EPA 180.1

Laboratory ID	AF61017	Collection date and time	6/7/2023 9:40 AM
Location Code	CRNEP_RSBOT	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	0.61	I	mg/M3	0.5	2.0	6/14/2023	7:26 AM	SM21 10200 H
Pheophytin	5.93		mg/M3	0.5	2.0	6/14/2023	7:26 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	86.2		%	0.1		6/7/2023	9:40 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	6/8/2023	8:52 AM	SM 5210 B
Color	41.5		CU	1.25	5.00	6/7/2023	1:39 PM	SM21 2120 C
Specific Conductance, By Client	9977		µmhos/cm			6/7/2023	9:40 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.60		mg/L			6/7/2023	9:40 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/7/2023	1:33 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/9/2023	9:06 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	6/8/2023	12:45 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrogen, Organic	0.81		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN - NH3
Phosphorus, Ortho as P	0.079		mg/L as P	0.005	0.020	6/8/2023	11:16 AM	EPA 365.1
pH, Field (electrometric) by Client	7.71		units			6/7/2023	9:40 AM	FDEP FT1100
Salinity by meter by Client	5.60		SU			6/7/2023	9:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.15		meters			6/7/2023	9:40 AM	FDEP FT 1700
Depth of Water Body	1.8		Meters			6/7/2023	9:40 AM	FS2100
Field Temperature by client	27.5		°C			6/7/2023	9:40 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.81		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	EPA 351.2
Nitrogen, Total	0.81		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN + NOX
Total Organic Carbon (NPOC)	12		mg/L	1	4	6/19/2023	3:35 PM	SM 5310 B
Phosphorus, Total as P	0.12		mg/L as P	0.006	0.024	6/12/2023	8:20 AM	EPA 365.1
Total Suspended Solids	3.45		mg/L	0.6	2.4	6/8/2023	8:10 AM	SM 2540 D
Turbidity (Nephelometric)	3.97		NTU	0.2	0.8	6/7/2023	1:30 PM	EPA 180.1



Laboratory ID	AF61018	Collection date and time	6/7/2023 8:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid # 387		

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	6/14/2023	7:26 AM	SM21 10200 H
Pheophytin	3.14		mg/M3	0.5	2.0	6/14/2023	7:26 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	80.0		%	0.1		6/7/2023	8:55 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	6/8/2023	8:52 AM	SM 5210 B
Color	30.8		CU	1.25	5.00	6/7/2023	1:39 PM	SM21 2120 C
Specific Conductance, By Client	35002		µmhos/cm			6/7/2023	8:55 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	5.59		mg/L			6/7/2023	8:55 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/7/2023	1:33 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/9/2023	9:06 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	6/8/2023	12:45 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrogen, Organic	0.87		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN - NH3
Phosphorus, Ortho as P	0.061		mg/L as P	0.005	0.020	6/8/2023	11:16 AM	EPA 365.1
pH, Field (electrometric) by Client	8.01		units			6/7/2023	8:55 AM	FDEP FT1100
Salinity by meter by Client	21.95		SU			6/7/2023	8:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.5	S	meters			6/7/2023	8:55 AM	FDEP FT 1700
Depth of Water Body	1.5		Meters			6/7/2023	8:55 AM	FS2100
Field Temperature by client	28.1		°C			6/7/2023	8:55 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.87		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	EPA 351.2
Nitrogen, Total	0.87		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN + NOX
Total Organic Carbon (NPOC)	9.8		mg/L	1	4	6/19/2023	3:35 PM	SM 5310 B
Phosphorus, Total as P	0.091		mg/L as P	0.006	0.024	6/12/2023	8:20 AM	EPA 365.1
Total Suspended Solids	2.35	I	mg/L	0.6	2.4	6/8/2023	8:10 AM	SM 2540 D
Turbidity (Nephelometric)	1.57		NTU	0.2	0.8	6/7/2023	1:30 PM	EPA 180.1

Laboratory ID	AF61019	Collection date and time	6/7/2023 10:05 AM
Location Code	CRNEP_RSBOT	Sample Collector	REISTAD/JAEGER
Sample Description	Grid # 429		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	7.45		mg/M3	0.5	2.0	6/14/2023	7:26 AM	SM21 10200 H
Pheophytin	5.70		mg/M3	0.5	2.0	6/14/2023	7:26 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	89.0		%	0.1		6/7/2023	10:05 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	6/8/2023	8:52 AM	SM 5210 B
Color	43.8		CU	1.25	5.00	6/7/2023	1:39 PM	SM21 2120 C

Report Format: NELAC

DOH #E45049



Laboratory ID	AF61019	Collection date and time	6/7/2023 10:05 AM
Location Code	CRNEP_RSBOT	Sample Collector	REISTAD/JAEGER
Sample Description	Grid # 429		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Specific Conductance, By Client	8343		µmhos/cm			6/7/2023	10:05 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.85		mg/L			6/7/2023	10:05 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		6/7/2023	1:33 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/9/2023	9:06 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	6/8/2023	12:45 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrogen, Organic	0.93		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN - NH3
Phosphorus, Ortho as P	0.075		mg/L as P	0.005	0.020	6/8/2023	11:16 AM	EPA 365.1
pH, Field (electrometric) by Client	7.67		units			6/7/2023	10:05 AM	FDEP FT1100
Salinity by meter by Client	4.62		SU			6/7/2023	10:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			6/7/2023	10:05 AM	FDEP FT 1700
Depth of Water Body	1.2		Meters			6/7/2023	10:05 AM	FS2100
Field Temperature by client	27.6		°C			6/7/2023	10:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.93		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	EPA 351.2
Nitrogen, Total	0.93		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN + NOX
Total Organic Carbon (NPOC)	12		mg/L	1	4	6/19/2023	3:35 PM	SM 5310 B
Phosphorus, Total as P	0.13		mg/L as P	0.006	0.024	6/12/2023	8:20 AM	EPA 365.1
Total Suspended Solids	4.90		mg/L	0.6	2.4	6/8/2023	8:10 AM	SM 2540 D
Turbidity (Nephelometric)	3.85		NTU	0.2	0.8	6/7/2023	1:30 PM	EPA 180.1

Laboratory ID	AF61020	Collection date and time	6/7/2023 10:40 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	5.41		mg/M3	0.5	2.0	6/14/2023	7:26 AM	SM21 10200 H
Pheophytin	28.67		mg/M3	0.5	2.0	6/14/2023	7:26 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	99.9		%	0.1		6/7/2023	10:40 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.4		mg/L	0.3	1.2	6/8/2023	8:52 AM	SM 5210 B
Color	55.1		CU	1.25	5.00	6/7/2023	1:39 PM	SM21 2120 C
Specific Conductance, By Client	2938		µmhos/cm			6/7/2023	10:40 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.77		mg/L			6/7/2023	10:40 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/7/2023	1:33 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/9/2023	9:06 AM	EPA 350.1
Nitrite as N	0.008	I	mg/L as N	0.003	0.012	6/8/2023	12:45 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF61020	Collection date and time	6/7/2023 10:40 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
Nitrate as N	0.014	I	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrate + Nitrite as N	0.022	I	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN - NH3
Phosphorus, Ortho as P	0.066		mg/L as P	0.005	0.020	6/8/2023	11:16 AM	EPA 365.1
pH, Field (electrometric) by Client	8.09		units			6/7/2023	10:40 AM	FDEP FT1100
Salinity by meter by Client	1.51		SU			6/7/2023	10:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.65		meters			6/7/2023	10:40 AM	FDEP FT 1700
Depth of Water Body	2.5		Meters			6/7/2023	10:40 AM	FS2100
Field Temperature by client	27.9		°C			6/7/2023	10:40 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	6/19/2023	3:35 PM	SM 5310 B
Phosphorus, Total as P	0.15		mg/L as P	0.006	0.024	6/12/2023	8:20 AM	EPA 365.1
Total Suspended Solids	6.90		mg/L	0.6	2.4	6/8/2023	8:10 AM	SM 2540 D
Turbidity (Nephelometric)	5.90		NTU	0.2	0.8	6/7/2023	1:30 PM	EPA 180.1

Laboratory ID	AF61021	Collection date and time	6/7/2023 11:55 AM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #		

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	6/13/2023	7:26 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	6/13/2023	7:26 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	6/8/2023	8:52 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	6/7/2023	1:39 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		6/7/2023	1:33 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/9/2023	9:06 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	6/8/2023	12:45 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/8/2023	12:45 PM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	6/8/2023	11:16 AM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	6/12/2023	8:18 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	6/12/2023	8:18 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	6/19/2023	3:35 PM	SM 5310 B
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	6/12/2023	8:20 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



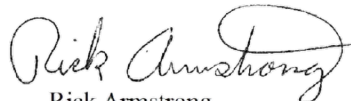
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Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #		

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	6/8/2023	8:10 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	6/7/2023	1:30 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 & Chain of Custody Record

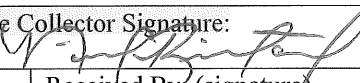
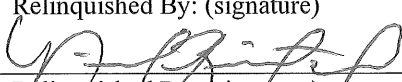
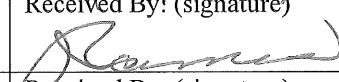
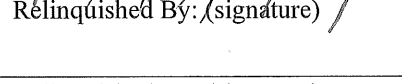
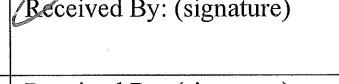
Lab Certification: E45049
LCEL F COC 20150828R1

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 06/07/23	Time 13:18	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: 4.6						NP		NPF	S	S	NP	ST					
Collection Date		Time		Sample Description & Location			Matrix (see codes)	# of Sample Containers Submitted						Lab ID #			
06/07/23		1105		CRNEP_RS #449			SWE	1	1	1	1	2	1	AF61016			
06/07/23		0940		CRNEP_RS #418			SWE	1	1	1	1	2	1	AF61017			
06/07/23		0855		CRNEP_RS #387			SWE	1	1	1	1	2	1	AF61018			
06/07/23		1005		CRNEP_RS #429			SWE	1	1	1	1	2	1	AF61019			
06/07/23		1040		CRNEP_RS #443			SWE	1	1	1	1	2	1	AF61020			
06/07/23		1155		CRNEP_EQ # @449				1	1	1	1	2	1	AF61021			

**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.