

Chemical Analysis Report

NW-DIST-2023-05-11-01

Florida DEP Laboratory
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DOH Accreditation E31780

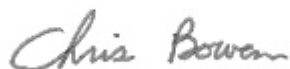
Event Description: **Milton North Run**
Request ID: **RQ-2023-05-08-49**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 31-MAY-2023 09:17



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Metals.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: BUCKET BRANCH DOWNSTREAM OF PAT BROWN ROAD

Collection Date/Time: 05/10/2023 11:05

Field ID: G4NW0532

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408914	EPA 200.7 Rev. 4.4	Calcium	1.72		mg/L	P429828	
		Iron	970		ug/L	P429828	
		Magnesium	1.12		mg/L	P429828	
		Potassium	0.41	I	mg/L	P429828	
		Sodium	1.8	I	mg/L	P429828	
		Strontium	9.6		ug/L	P429828	
		Tin	3.0	U	ug/L	P429828	
		Titanium	1.1	I	ug/L	P429828	
		Vanadium	2.0	U	ug/L	P429828	
		Zinc	5.0	U	ug/L	P429828	
	EPA 200.8 Rev. 5.4	Aluminum	175		ug/L	P429828	
		Antimony	0.050	U	ug/L	P429828	
		Arsenic	0.42		ug/L	P429828	
		Barium	27.4		ug/L	P429828	
		Beryllium	0.015	I	ug/L	P429828	
		Boron	13.8		ug/L	P429828	
		Cadmium	0.020	U	ug/L	P429828	
		Chromium	0.40	U	ug/L	P429828	
		Cobalt	0.487		ug/L	P429828	
		Copper	0.40	U	ug/L	P430037	
		Lead	0.25	I	ug/L	P429828	
		Manganese	71.6		ug/L	P429828	
		Molybdenum	0.15	U	ug/L	P429828	
		Nickel	0.50	U	ug/L	P429828	
		Selenium	0.20	U	ug/L	P429828	
		Silver	0.010	U	ug/L	P429828	
		Thallium	0.10	U	ug/L	P429828	
	SM 2340 B-2011	Hardness	8.9		mg/L	P429828	

Sample Location: PACE MILL CREEK UPSTREAM OF HWY 90

Collection Date/Time: 05/10/2023 12:15

Field ID: G4NW0481

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408915	EPA 200.7 Rev. 4.4	Calcium	3.03		mg/L	P429828	
		Iron	1.08E+03		ug/L	P429828	
		Magnesium	1.11		mg/L	P429828	
		Potassium	0.69	I	mg/L	P429828	
		Sodium	3.6		mg/L	P429828	
		Strontium	14.3		ug/L	P429828	
		Tin	3.0	U	ug/L	P429828	
		Titanium	1.4	I	ug/L	P429828	
		Vanadium	2.0	U	ug/L	P429828	
		Zinc	5.0	U	ug/L	P429828	
	EPA 200.8 Rev. 5.4	Aluminum	226		ug/L	P429828	
		Antimony	0.087	I	ug/L	P429828	
		Arsenic	0.53		ug/L	P429828	
		Barium	21.2		ug/L	P429828	
		Beryllium	0.016	I	ug/L	P429828	
		Boron	21.2		ug/L	P429828	
		Cadmium	0.020	U	ug/L	P429828	
		Chromium	0.40	U	ug/L	P429828	
		Cobalt	0.228		ug/L	P429828	
		Copper	0.62	I	ug/L	P430037	
		Lead	0.48		ug/L	P429828	
		Manganese	40.6		ug/L	P429828	
		Molybdenum	0.15	U	ug/L	P429828	
		Nickel	0.50	U	ug/L	P429828	
		Selenium	0.20	U	ug/L	P429828	
		Silver	0.010	I	ug/L	P429828	
		Thallium	0.10	U	ug/L	P429828	
	SM 2340 B-2011	Hardness	12.1		mg/L	P429828	

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P429828

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P429828

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P430037

Component	Result	Code	Units
Copper	0.40	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P429828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	85 - 115
Iron	101		P	85 - 115
Magnesium	99.1		P	85 - 115
Potassium	99.7		P	85 - 115
Sodium	94.4		P	85 - 115
Strontium	98.0		P	85 - 115
Tin	99.4		P	85 - 115
Titanium	99.6		P	85 - 115
Vanadium	98.7		P	85 - 115
Zinc	98.0		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P429828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	100		P	85 - 115
Barium	105		P	85 - 115
Beryllium	93.5		P	85 - 115
Boron	105		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	96.7		P	85 - 115
Cobalt	102		P	85 - 115
Lead	103		P	85 - 115
Manganese	97.7		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	98.1		P	85 - 115
Selenium	100		P	85 - 115
Silver	106		P	85 - 115
Thallium	98.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P430037

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Copper	99.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P429828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407927	Calcium	100		P	80 - 120
2407927	Iron	96.2	97.9	P/P	80 - 120
2407927	Magnesium	96.5	97.3	P/P	80 - 120
2407927	Potassium	98.8	98.8	P/P	80 - 120
2407927	Sodium	94.9		P	80 - 120
2407927	Strontium	98.0	98.0	P/P	80 - 120
2407927	Tin	96.8	99.2	P/P	80 - 120
2407927	Titanium	95.0	97.2	P/P	80 - 120
2407927	Vanadium	99.4	101	P/P	80 - 120
2407927	Zinc	96.4	97.8	P/P	80 - 120
2408660	Calcium	97.7		P	75 - 125
2408660	Iron	96.9		P	75 - 125
2408660	Magnesium	97.8		P	75 - 125
2408660	Potassium	98.7		P	75 - 125
2408660	Sodium	94.5		P	75 - 125
2408660	Strontium	98.6		P	75 - 125
2408660	Tin	95.8		P	75 - 125
2408660	Titanium	98.5		P	75 - 125
2408660	Vanadium	98.2		P	75 - 125
2408660	Zinc	95.5		P	75 - 125

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P429828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407927	Aluminum	96.1	96.8	P/P	80 - 120
2407927	Antimony	100	99.7	P/P	80 - 120
2407927	Arsenic	97.9	98.8	P/P	80 - 120
2407927	Barium	103	103	P/P	80 - 120
2407927	Beryllium	94.2	94.6	P/P	80 - 120
2407927	Boron	105	105	P/P	80 - 120
2407927	Cadmium	103	102	P/P	80 - 120
2407927	Chromium	94.7	95.3	P/P	80 - 120
2407927	Cobalt	99.8	101	P/P	80 - 120
2407927	Lead	104	104	P/P	80 - 120
2407927	Manganese	98.0	102	P/P	80 - 120
2407927	Molybdenum	98.7	98.7	P/P	80 - 120
2407927	Nickel	95.3	95.9	P/P	80 - 120
2407927	Selenium	97.7	99.3	P/P	80 - 120
2407927	Silver	105	105	P/P	80 - 120
2407927	Thallium	99.6	103	P/P	80 - 120
2408660	Aluminum	100		P	80 - 120
2408660	Antimony	102		P	80 - 120
2408660	Arsenic	101		P	80 - 120
2408660	Barium	104		P	80 - 120
2408660	Beryllium	92.8		P	80 - 120
2408660	Boron	106		P	80 - 120
2408660	Cadmium	103		P	80 - 120
2408660	Chromium	97.5		P	80 - 120
2408660	Cobalt	101		P	80 - 120
2408660	Lead	105		P	80 - 120
2408660	Manganese	102		P	80 - 120

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408660	Molybdenum	101		P	80 - 120
2408660	Nickel	95.9		P	80 - 120
2408660	Selenium	99.7		P	80 - 120
2408660	Silver	106		P	80 - 120
2408660	Thallium	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408817	Copper	99.6		P	80 - 120
2410475	Copper	96.4	96.2	P/P	80 - 120

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P429828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407927	Calcium	0.530	Spike	P	0 - 20
2407927	Iron	1.24	Spike	P	0 - 20
2407927	Magnesium	0.516	Spike	P	0 - 20
2407927	Potassium	0.0146	Spike	P	0 - 20
2407927	Sodium	0.505	Spike	P	0 - 20
2407927	Strontium	0.00725	Spike	P	0 - 20
2407927	Tin	2.44	Spike	P	0 - 20
2407927	Titanium	2.08	Spike	P	0 - 20
2407927	Vanadium	1.97	Spike	P	0 - 20
2407927	Zinc	1.40	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P429828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407927	Aluminum	0.453	Spike	P	0 - 20
2407927	Antimony	0.708	Spike	P	0 - 20
2407927	Arsenic	0.884	Spike	P	0 - 20
2407927	Barium	0.326	Spike	P	0 - 20
2407927	Beryllium	0.401	Spike	P	0 - 20
2407927	Boron	0.366	Spike	P	0 - 20
2407927	Cadmium	0.926	Spike	P	0 - 20
2407927	Chromium	0.578	Spike	P	0 - 20
2407927	Cobalt	1.37	Spike	P	0 - 20
2407927	Lead	0.289	Spike	P	0 - 20
2407927	Manganese	1.50	Spike	P	0 - 20
2407927	Molybdenum	0.0192	Spike	P	0 - 20
2407927	Nickel	0.662	Spike	P	0 - 20
2407927	Selenium	1.65	Spike	P	0 - 20
2407927	Silver	0.406	Spike	P	0 - 20
2407927	Thallium	3.52	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P430037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410475	Copper	0.255	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119202

Included Lab Sample IDs: 2408914, 2408915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.5	100	P/P	90 - 110
Aluminum	100	97.9	P/P	90 - 110
Antimony	101	99.2	P/P	90 - 110
Antimony	99.2	100	P/P	90 - 110
Arsenic	96.9	98.1	P/P	90 - 110
Arsenic	98.1	98.8	P/P	90 - 110
Barium	101	98.4	P/P	90 - 110
Barium	98.4	99.7	P/P	90 - 110
Beryllium	94.4	96.0	P/P	90 - 110
Beryllium	96.0	95.7	P/P	90 - 110
Boron	96.7	99.6	P/P	90 - 110
Boron	99.6	97.2	P/P	90 - 110
Cadmium	101	99.6	P/P	90 - 110
Cadmium	99.6	101	P/P	90 - 110
Chromium	96.0	98.1	P/P	90 - 110
Chromium	98.1	94.5	P/P	90 - 110
Cobalt	101	98.7	P/P	90 - 110
Cobalt	98.6	101	P/P	90 - 110
Lead	101	101	P/P	90 - 110
Lead	102	101	P/P	90 - 110
Manganese	100	95.5	P/P	90 - 110
Manganese	96.5	100	P/P	90 - 110
Molybdenum	98.2	98.3	P/P	90 - 110
Molybdenum	98.3	98.6	P/P	90 - 110
Nickel	95.4	96.8	P/P	90 - 110
Nickel	96.8	96.5	P/P	90 - 110
Selenium	101	99.2	P/P	90 - 110
Selenium	99.1	101	P/P	90 - 110
Silver	102	103	P/P	90 - 110
Silver	103	102	P/P	90 - 110
Thallium	102	100	P/P	90 - 110
Thallium	104	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119301

Included Lab Sample IDs: 2408914, 2408915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	97.7	97.2	P/P	90 - 110
Copper	98.1	97.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A119358

Included Lab Sample IDs: 2408914, 2408915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	97.9	96.7	P/P	90 - 110
Iron	95.7	97.3	P/P	90 - 110
Magnesium	94.1	95.4	P/P	90 - 110
Potassium	95.1	96.8	P/P	90 - 110
Sodium	91.8	92.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A119358

Included Lab Sample IDs: 2408914, 2408915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	96.7	94.3	P/P	90 - 110
Tin	95.5	94.3	P/P	90 - 110
Titanium	96.9	95.9	P/P	90 - 110
Vanadium	96.0	94.6	P/P	90 - 110
Zinc	93.5	92.1	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision	
			LCS	SMP	MS		
EPA 200.7 Rev. 4.4	Calcium	100	100	97.7		0.530	
	Iron	101	96.2	97.9	96.9	1.24	
	Magnesium	99.1	96.5	97.3	97.8	0.516	
	Potassium	99.7	98.8	98.8	98.7	0.0146	
	Sodium	94.4	94.9	94.5		0.505	
	Strontium	98.0	98.0	98.0	98.6	0.0072	
	Tin	99.4	96.8	99.2	95.8	2.44	
	Titanium	99.6	98.5	95.0	97.2	2.08	
	Vanadium	98.7	98.2	99.4	101	1.97	
	Zinc	98.0	95.5	96.4	97.8	1.40	
EPA 200.8 Rev. 5.4	Aluminum	101	96.1	96.8	100	0.453	
	Antimony	103	100	99.7	102	0.708	
	Arsenic	100	97.9	98.8	101	0.884	
	Barium	105	103	103	104	0.326	
	Beryllium	93.5	94.2	94.6	92.8	0.401	
	Boron	105	105	105	106	0.366	
	Cadmium	102	103	102	103	0.926	
	Chromium	96.7	94.7	95.3	97.5	0.578	
	Cobalt	102	99.8	101	101	1.37	
	Copper	99.5	96.4	96.2	99.6	0.255	
	Lead	103	104	104	105	0.289	
	Manganese	97.7	98.0	102	102	1.50	
	Molybdenum	100	98.7	98.7	101	0.0192	
	Nickel	98.1	95.3	95.9	95.9	0.662	
	Selenium	100	97.7	99.3	99.7	1.65	
	Silver	106	105	105	106	0.406	
	Thallium	98.4	99.6	103	103	3.52	

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2408914, 2408915
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2408914, 2408915
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2408914, 2408915

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	05/11/2023	05/12/2023 12:40	George D Taylor	05/23/2023 18:38	McKinley C Carter	2408914
	05/11/2023	05/12/2023 12:40	George D Taylor	05/23/2023 18:44	McKinley C Carter	2408915
EPA 200.8 Rev. 5.4	05/11/2023	05/12/2023 12:40	George D Taylor	05/16/2023 19:29	Conrad Hartmann	2408914
	05/11/2023	05/12/2023 12:40	George D Taylor	05/16/2023 20:23	Conrad Hartmann	2408915
	05/11/2023	05/18/2023 10:55	George D Taylor	05/19/2023 22:50	Conrad Hartmann	2408914
	05/11/2023	05/18/2023 10:55	George D Taylor	05/19/2023 23:26	Conrad Hartmann	2408915
	05/11/2023			05/23/2023 18:38	McKinley C Carter	2408914
SM 2340 B-2011	05/11/2023			05/23/2023 18:44	McKinley C Carter	2408915