

Chemical Analysis Report

SW-DIST-2023-09-21-01

Review Copy

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 4**
Request ID: **RQ-2023-09-18-34**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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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: Nutrients.

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: LAKE BEULAH SW

Collection Date/Time: 09/20/2023 10:00

Field ID: G2SW0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2438960	DEP SOP: NU-094-1	Color (true)	11		PCU	P435345	
	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P435350	
	EPA 300.0 Rev. 2.1	Chloride	4.0		mg Cl/L	P435832	
		Sulfate	1.9		mg SO4/L	P435835	
	SM 2320 B-2011	Total Alkalinity	51		mg CaCO3/L	P435731	
	SM 2540 C-2015	TDS	62		mg/L	P435879	
	SM 2540 D-2015	TSS	4	I	mg/L	P435849	
	SM 4500-F- C-2011	Fluoride	0.25		mg F/L	P435734	
2438961	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P435511	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P436037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.026		mg N/L	P436059	
	EPA 365.1 Rev. 2.0	Total-P	0.038		mg P/L	P435423	
	SM 5310 B-2011	Organic Carbon	5.0		mg C/L	P435756	
2438962	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P435347	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P435345

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435350

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435832

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435835

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435511

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436037

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436059

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435423

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435347

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P435731

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015
Batch ID: P435879

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P435849

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435734

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P435756

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P435345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435350

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435835

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436037

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	102		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436059

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435423

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	109		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435347

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P435731

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.3		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P435879

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.1		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P435849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.6		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435734

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435756

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438915	Chloride	98.6		P	90 - 110
2439112	Chloride	99.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438915	Sulfate	101		P	90 - 110
2439112	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438890	Ammonia-N	97.4	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438916	Kjeldahl Nitrogen	106	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438786	NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435423

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438977	Total-P	107	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435347

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438698	O-Phosphate-P	98.9	99.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P435734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438976	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435756

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438696	Organic Carbon	96.7		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438888	Color (true)	0.836	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435350

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438888	Turbidity	6.41	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438915	Chloride	1.02	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438915	Sulfate	0.461	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438890	Ammonia-N	0.902	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438916	Kjeldahl Nitrogen	5.02	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438786	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435423

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438977	Total-P	0.742	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435347

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438698	O-Phosphate-P	0.539	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P435731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438976	Total Alkalinity	0.230	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435879

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438524	TDS	1.90	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438976	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435756

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438696	Organic Carbon	0.558	Sample	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121696

Included Lab Sample IDs: 2438960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121697

Included Lab Sample IDs: 2438962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121700

Included Lab Sample IDs: 2438960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121764

Included Lab Sample IDs: 2438961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	99.3	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121771

Included Lab Sample IDs: 2438960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.8	97.3	P/P	90 - 110
Sulfate	101	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121792

Included Lab Sample IDs: 2438961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.0	93.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121844

Included Lab Sample IDs: 2438960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.9	96.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121844

Included Lab Sample IDs: 2438960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A121855

Included Lab Sample IDs: 2438961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.0	96.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121981

Included Lab Sample IDs: 2438961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122007

Included Lab Sample IDs: 2438961

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.1	100	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	MS
DEP SOP: NU-094-1	Color (true)	99.9			0.836	
EPA 180.1 Rev. 2.0	Turbidity	105			6.41	
EPA 300.0 Rev. 2.1	Chloride	97.5	98.6	99.9	1.02	
	Sulfate	100	101	101	0.461	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	97.4	98.4		0.902
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	106	98.2		5.02
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	99.0	100		1.01
EPA 365.1 Rev. 2.0	Total-P	109	107	108		0.742
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	98.9	99.6		0.539
SM 2320 B-2011	Total Alkalinity	94.3			0.230	
SM 2540 C-2015	TDS	96.1			1.90	
SM 2540 D-2015	TSS	99.6				
SM 4500-F- C-2011	Fluoride	101	101	101		0.0
SM 5310 B-2011	Organic Carbon	98.2	96.7		0.558	

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2438960
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2438960
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2438960
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2438960
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2438961
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2438961
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2438961
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2438961
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2438962
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2438960
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2438960
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2438960
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2438960
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2438961

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	09/21/2023			09/21/2023 15:36	Alexis Price	2438960
EPA 180.1 Rev. 2.0	09/21/2023			09/21/2023 14:33	Samantha L Bates	2438960
EPA 300.0 Rev. 2.1	09/21/2023			09/27/2023 20:10	James L Waggeberby	2438960
EPA 350.1 Rev. 2.0	09/21/2023			09/26/2023 14:02	Ping Hua	2438961
EPA 351.2 Rev. 2.0	09/21/2023	10/05/2023 11:40	Simonne.V. Calhoun	10/06/2023 13:07	Samantha L Bates	2438961
EPA 353.2 Rev. 2.0	09/21/2023			10/05/2023 11:50	Anna M. Plaviak	2438961
EPA 365.1 Rev. 2.0	09/21/2023	09/25/2023 13:35	Adam P Silver	09/27/2023 14:45	Chandler E Cox	2438961
EPA 365.1 Rev. 2.0 dissolved	09/21/2023			09/21/2023 15:25	Elise M. Gillis	2438962
SM 2320 B-2011	09/21/2023			09/28/2023 20:09	Adam P Silver	2438960
SM 2540 C-2015	09/21/2023			09/25/2023 15:40	Yijie Li	2438960
SM 2540 D-2015	09/21/2023			09/25/2023 15:40	Yijie Li	2438960
SM 4500-F- C-2011	09/21/2023			09/28/2023 20:09	Adam P Silver	2438960
SM 5310 B-2011	09/21/2023			09/29/2023 02:17	Khloe J Berg	2438961