

Chemical Analysis Report

SO-DIST-2022-01-28-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Caloosa Creeks**
Request ID: **RQ-2022-01-10-03**
Customer: **SO-DIST**
Project ID: **BMAP**

Send Reports to:
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FLDEP South District Office
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Date Certified: 18-FEB-2022 15:34



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: Nine Mile Canal @ SR 80

Collection Date/Time: 01/27/2022 09:40

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302333	DEP SOP: NU-094-1	Color (true)**	69		PCU	P409159	
	SM 2320 B-2011	Total Alkalinity	190		mg CaCO3/L	P409432	
	SM 2540 D-2011	TSS	2	I	mg/L	P409665	
	SM 4500 F-C-2011	Fluoride	0.24		mg F/L	P409435	
2302335	SM 5310 B-2011 dissolved	Organic Carbon	17		mg C/L	P409915	
2302337	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P409635	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P409240	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P409244	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P409184	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P409915	
2302339	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.038		mg P/L	P409157	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Bee Branch @LoblollyBay

Collection Date/Time: 01/27/2022 10:30

Field ID: G3SD0085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302334	DEP SOP: NU-094-1	Color (true)**	130		PCU	P409159	
	SM 2320 B-2011	Total Alkalinity	33		mg CaCO3/L	P409432	
	SM 2540 D-2011	TSS	2	I	mg/L	P409665	
	SM 4500 F-C-2011	Fluoride	0.091	I	mg F/L	P409435	
2302336	SM 5310 B-2011 dissolved	Organic Carbon	19		mg C/L	P409915	
2302338	EPA 350.1 Rev. 2.0	Ammonia-N	0.054		mg N/L	P409635	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.83		mg N/L	P409240	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.044		mg N/L	P409244	
	EPA 365.1 Rev. 2.0	Total-P	0.087		mg P/L	P409184	
	SM 5310 B-2011	Organic Carbon	19		mg C/L	P409915	
2302340	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.054		mg P/L	P409157	

Ref. Method and Comment:

SM 2540 D-2011: 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: P409159

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409635

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409240

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409244

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409184

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409157

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

Reference Method: SM 2320 B-2011
Batch ID: P409432

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 D-2011
Batch ID: P409665

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409435

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P409915

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

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409915

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: P409159

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409635

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409240

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	103		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409244

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.7		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409157

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

Reference Method: SM 2320 B-2011
Batch ID: P409432

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P409435

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P409915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.8		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302195	Ammonia-N	97.4	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409240

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302258	Kjeldahl Nitrogen	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302312	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302338	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409157

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302285	O-Phosphate-P	97.4	98.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P409435

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302832	Fluoride	98.2	97.6	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P409915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302429	Organic Carbon	93.3	93.2	P/P	85 - 115

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302429	Organic Carbon	93.3	93.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409159

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302257	Color (true)	3.53	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302195	Ammonia-N	2.02	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409240

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302258	Kjeldahl Nitrogen	0.0340	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302312	NO2NO3-N	0.482	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302338	Total-P	0.505	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409157

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302285	O-Phosphate-P	0.920	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P409432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302832	Total Alkalinity	0.585	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P409435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302832	Fluoride	0.484	Spike	P	0 - 2.1

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P409915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302429	Organic Carbon	0.0878	Spike	P	0 - 20

Reference Method: SM 5310 B-2011 dissolved
Batch ID: P409915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302429	Organic Carbon	0.0878	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110106

Included Lab Sample IDs: 2302339, 2302340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	99.9	P/P	90 - 110
O-Phosphate-P	99.9	99.9	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A110107

Included Lab Sample IDs: 2302333, 2302334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.3	101	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110144

Included Lab Sample IDs: 2302337, 2302338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110208

Included Lab Sample IDs: 2302337, 2302338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110225

Included Lab Sample IDs: 2302333, 2302334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.4	98.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110225

Included Lab Sample IDs: 2302333, 2302334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110239

Included Lab Sample IDs: 2302337, 2302338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.1	99.0	P/P	90 - 110
Kjeldahl Nitrogen	98.1	96.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110313

Included Lab Sample IDs: 2302337, 2302338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110313

Included Lab Sample IDs: 2302337, 2302338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.9	97.2	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110436

Included Lab Sample IDs: 2302337, 2302338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.0	94.6	P/P	90 - 110

Reference Method: SM 5310 B-2011 dissolved

Run ID: A110436

Included Lab Sample IDs: 2302335, 2302336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.0	94.6	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 SMP	MS
					LCS	
DEP SOP: NU-094-1	Color (true)	99.2			3.53	
EPA 350.1 Rev. 2.0	Ammonia-N	93.6	97.4	100		2.02
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	101	101		0.0340
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	101	102		0.482
EPA 365.1 Rev. 2.0	Total-P	98.7	102	102		0.505
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	97.4	98.3		0.920
SM 2320 B-2011	Total Alkalinity	97.3			0.585	
SM 4500 F-C-2011	Fluoride	98.2	98.2	97.6		0.484
SM 5310 B-2011	Organic Carbon	93.8	93.3	93.2		0.0878
SM 5310 B-2011 dissolved	Organic Carbon	93.8	93.3	93.2		0.0878

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2302333, 2302334
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2302337, 2302338
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2302337, 2302338
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2302337, 2302338
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2302337, 2302338
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2302339, 2302340
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2302333, 2302334
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2302333, 2302334
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2302333, 2302334
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2302337, 2302338
SM 5310 B-2011 dissolved	Dissolved Nonpurgeable Organic Carbon in filtered, aqueous matrices	2302335, 2302336

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	01/28/2022			01/28/2022 15:14	Blanca Fach	2302333
	01/28/2022			01/28/2022 15:15	Blanca Fach	2302334
EPA 350.1 Rev. 2.0	01/28/2022			02/09/2022 13:05	Roberta Tatti	2302337
	01/28/2022			02/09/2022 13:06	Roberta Tatti	2302338
EPA 351.2 Rev. 2.0	01/28/2022	02/02/2022 10:16	Alexandra J Mattheus	02/04/2022 10:32	Alexandra J Mattheus	2302337
	01/28/2022	02/02/2022 10:16	Alexandra J Mattheus	02/04/2022 10:37	Alexandra J Mattheus	2302338
EPA 353.2 Rev. 2.0	01/28/2022			02/01/2022 09:59	Beverly Y. Sanders	2302337
	01/28/2022			02/01/2022 10:01	Beverly Y. Sanders	2302338
EPA 365.1 Rev. 2.0	01/28/2022	02/01/2022 11:50	Simonne.V. Calhoun	02/02/2022 18:04	Sarah A Nixon	2302338
	01/28/2022	02/01/2022 11:50	Simonne.V. Calhoun	02/02/2022 18:07	Sarah A Nixon	2302337
EPA 365.1 Rev. 2.0 dissolved	01/28/2022			01/28/2022 15:06	James L Waggeberby	2302339
	01/28/2022			01/28/2022 15:11	James L Waggeberby	2302340
SM 2320 B-2011	01/28/2022			02/03/2022 21:44	Dale L. Simmons	2302333
	01/28/2022			02/03/2022 21:56	Dale L. Simmons	2302334
SM 2540 D-2011	01/28/2022			02/01/2022 14:37	Yijie Li	2302333, 2302334
SM 4500 F-C-2011	01/28/2022			02/03/2022 21:44	Dale L. Simmons	2302333
	01/28/2022			02/03/2022 21:56	Dale L. Simmons	2302334
SM 5310 B-2011	01/28/2022			02/15/2022 01:41	Khloe J Berg	2302337
	01/28/2022			02/15/2022 01:57	Khloe J Berg	2302338
SM 5310 B-2011 dissolved	01/28/2022			02/15/2022 01:09	Khloe J Berg	2302335
	01/28/2022			02/15/2022 01:25	Khloe J Berg	2302336