

Chemical Analysis Report

CEN-DIST-2016-09-20-04

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

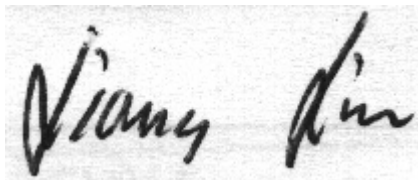
Event Description: **haynes Creek+HA**
Request ID: **RQ-2016-09-19-37**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

For additional information please contact
Timothy W. Fitzpatrick
Liang-Tsair Lin, Ph.D.
Colin Wright, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 18-OCT-2016 17:39

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

NON-CONFORMANCE REPORT INCLUDED

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 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: HAYNES CREEK @ 300M DS of CR 44

Collection Date/Time: 09/19/2016 12:06

Field ID: 20020642

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1832788	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P311553	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P311767	
		Sulfate	17		mg SO4/L	P311770	
	SM 2120 B	Color (true)	15		PCU	P311538	
	SM 2320 B-97	Total Alkalinity	119		mg CaCO3/L	P311801	
	SM 2540 C-97	TDS	221		mg/L	P311825	
	SM 2540 D-97	TSS	3	I	mg/L	P311891	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P311804	
1832789	EPA 350.1 Rev. 2.0	Ammonia-N	0.18		mg N/L	P311751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P311885	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.064	Y	mg N/L	P312332	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P312144	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P311981	
1832790	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P311525	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 353.2 Rev. 2.0: Sample was left out at room temperature overnight, should be stored at 4 degC.

Non-Conformance Report

NCR ID: 6057

Event(s)

CEN-DIST-2016-09-20-04

Job(s)

TLH-2016-09-20-54

Sample(s)

1832789

Test(s)

NCR Type: CUSTODY

NCR Category: General

Observation: Sample not stored in refrigerator the night of 09/29/2016.

Resolution: Sample returned to refrigerator in the morning on 9/30/2016. All analyses requiring refrigeration that were prepared or, if preparation is not required, analyzed on or after 09/30/2016 will be Y qualified for incorrect preservation.

Authorised by/Date: Colin Wright 10/18/2016

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
 Please address questions to:

Chemistry Colin Wright (850) 245-8085
 Biology Cheryl Swanson (850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P311553

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311767

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311770

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311751

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311885

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312332

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312144

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311525

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

Reference Method: SM 2120 B
Batch ID: P311538

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P311801

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P311825

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P311891

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P311804

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P311981

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311767

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311751

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311885

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P312332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P312144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.7		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P311525

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

Reference Method: SM 2320 B-97
 Batch ID: P311801

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 4500 F-C-97
 Batch ID: P311804

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.7		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P311981

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P311767

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832801	Chloride	98.7		P	90 - 110
1832827	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P311770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832801	Sulfate	91.3		P	90 - 110
1832827	Sulfate	96.5		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832760	Ammonia-N	108	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311885

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832775	Kjeldahl Nitrogen	95.9	89.6	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832736	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832789	Total-P	95.2	94.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311525

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832790	O-Phosphate-P	94.3	94.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P311804

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832758	Fluoride	99.3	99.3	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P311981

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832736	Organic Carbon	101	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P311553

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832732	Turbidity	0.219	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832801	Chloride	0.622	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832801	Sulfate	2.54	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832760	Ammonia-N	0.461	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P311885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832775	Kjeldahl Nitrogen	4.51	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832736	NO2NO3-N	0.943	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832789	Total-P	0.320	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832790	O-Phosphate-P	0.423	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P311538

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832544	Color (true)	5.84	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P311801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832758	Total Alkalinity	0.816	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
 Batch ID: P311825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832597	TDS	3.69	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P311804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832758	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P311981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832736	Organic Carbon	0.645	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
 Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Run ID: A71736
 Included Lab Sample IDs: 1832790

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

Reference Method: SM 2120 B
 Run ID: A71739
 Included Lab Sample IDs: 1832788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	96.5	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
 Run ID: A71745
 Included Lab Sample IDs: 1832788

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A71789

Included Lab Sample IDs: 1832788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.9	97.7	P/P	90 - 110
Sulfate	98.9	96.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A71807

Included Lab Sample IDs: 1832789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	102	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A71811

Included Lab Sample IDs: 1832788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A71811

Included Lab Sample IDs: 1832788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.5	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A71877

Included Lab Sample IDs: 1832789

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A71891

Included Lab Sample IDs: 1832789

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A71979

Included Lab Sample IDs: 1832789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A71983

Included Lab Sample IDs: 1832789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

* 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 180.1 Rev. 2.0	Turbidity					0.219	
EPA 300.0 Rev. 2.1	Chloride	99.2	98.7	99.7		0.622	
	Sulfate	97.7	91.3	96.5		2.54	
EPA 350.1 Rev. 2.0	Ammonia-N	103	108	107			0.461
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	93.0	95.9	89.6			4.51
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	105	106	106			0.943
EPA 365.1 Rev. 2.0	Total-P	95.7	95.2	94.9			0.320
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.9	94.3	94.7			0.423
SM 2120 B	Color (true)					5.84	
SM 2320 B-97	Total Alkalinity	103				0.816	
SM 2540 C-97	TDS					3.69	
SM 4500 F-C-97	Fluoride	96.7	99.3	99.3			0.0
SM 5310 B-00	Organic Carbon	103	101	102			0.645

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1832788
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1832788
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1832788
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1832789
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1832789
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1832789
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1832789
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1832790
SM 2120 B / E31780	True Color measured at 450 nm	1832788
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1832788
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1832788
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1832788
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1832788
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1832789

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	09/20/2016			09/20/2016 17:03	Blanca Fach	1832788
EPA 300.0 Rev. 2.1	09/20/2016			09/24/2016	Ping Hua	1832788
EPA 350.1 Rev. 2.0	09/20/2016			09/22/2016	Sofia Elnemr	1832789
EPA 351.2 Rev. 2.0	09/20/2016	09/27/2016	Adrian Shelby	09/28/2016	Christopher Armour	1832789
EPA 353.2 Rev. 2.0	09/20/2016			10/03/2016	Beverly Y. Sanders	1832789
EPA 365.1 Rev. 2.0	09/20/2016	09/29/2016	Vijayalakshmi Reddy	10/03/2016	Lipi Saha	1832789
EPA 365.1 Rev. 2.0 dissolved	09/20/2016			09/20/2016 15:03	Julia Storbeck	1832790
SM 2120 B	09/20/2016			09/20/2016 16:56	Julie Michelle Frank	1832788
SM 2320 B-97	09/20/2016			09/24/2016	Dale L. Simmons	1832788
SM 2540 C-97	09/20/2016			09/22/2016	Yijie Li	1832788
SM 2540 D-97	09/20/2016			09/22/2016	Yijie Li	1832788
SM 4500 F-C-97	09/20/2016			09/24/2016	Dale L. Simmons	1832788
SM 5310 B-00	09/20/2016			09/27/2016	Sofia Elnemr	1832789