Chemical Analysis Report

NW-DIST-2021-07-14-02

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

Event Description: **Bayou Chico BMAP DEP Chemistry/OV-Micro**
Request ID: **RQ-2021-07-12-06**
Customer: **NW-DIST**
Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 308
Pensacola, FL 32502-5794
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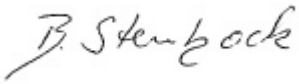
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 11-AUG-2021 14:47



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: Chico Mandalay **Collection Date/Time: 07/12/2021 12:30**

Field ID: 33020JD4 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2261977	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P400983	
2261980	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P401329	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P401211	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P400998	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P401222	

Sample Location: Jackson N.Warrington **Collection Date/Time: 07/12/2021 13:40**

Field ID: 33020222 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2261983	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P400983	
2261984	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P401327	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.21	VJ	mg N/L	P402127	CCV
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.2		mg N/L	P401059	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P401221	MS

Ref. Method and Comment:
EPA 351.2 Rev. 2.0: Analyte was detected above the MDL in both the method blank and sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Chico @ Navy Blvd Bridge **Collection Date/Time: 07/12/2021 15:20**

Field ID: 3302JE20 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2261978	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P400983	
2261981	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P401705	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P401722	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.64		mg N/L	P401059	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P401221	MS

Sample Location: Chico downstrm " W ' St **Collection Date/Time: 07/12/2021 15:40**

Field ID: 33020JF1 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2261979	EPA 180.1 Rev. 2.0	Turbidity	4.9		NTU	P400983	
2261982	EPA 350.1 Rev. 2.0	Ammonia-N	0.074		mg N/L	P401705	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P401722	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.95		mg N/L	P401059	
	EPA 365.1 Rev. 2.0	Total-P	0.038		mg P/L	P401221	MS

Sample Location: Sanders Beach **Collection Date/Time: 07/12/2021 11:50**

Field ID: Sanders Beach Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2261985	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P400983	
2261986	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P401329	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.46		mg N/L	P401211	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.048		mg N/L	P400998	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P401222	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P400983

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401327

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401329

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401705

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401211

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401722

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402127

Component	Result	Code	Units
Kjeldahl Nitrogen	0.11	I	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400998

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401059

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401221

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401222

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401327

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401329

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401705

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401211

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401722

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402127

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400998

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401059

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	104		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261984	Ammonia-N	99.0	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401329

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2262641	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261981	Ammonia-N	98.2	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401211

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261109	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401722

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261963	Kjeldahl Nitrogen	98.7	114	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402127

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261984	Kjeldahl Nitrogen	97.3	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261452	NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2262028	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261962	Total-P	109	111	P/F	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2261950	Total-P	104	103	P/P	90 - 110

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P400983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261814	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261984	Ammonia-N	1.00	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401329

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2262641	Ammonia-N	0.693	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P401705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261981	Ammonia-N	0.623	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401211

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261109	Kjeldahl Nitrogen	1.42	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261963	Kjeldahl Nitrogen	10.7	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P402127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261984	Kjeldahl Nitrogen	6.20	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261452	NO2NO3-N	0.487	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P401059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2262028	NO2NO3-N	0.952	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261962	Total-P	1.85	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P401222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2261950	Total-P	0.186	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A106624
Included Lab Sample IDs: 2261977, 2261978, 2261979, 2261983, 2261985

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A106630
Included Lab Sample IDs: 2261980, 2261986

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A106656
Included Lab Sample IDs: 2261981, 2261982, 2261984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A106735
Included Lab Sample IDs: 2261980, 2261981, 2261982, 2261984, 2261986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	100	P/P	90 - 110
Total-P	98.5	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A106749
Included Lab Sample IDs: 2261980, 2261984, 2261986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.5	P/P	90 - 110
Ammonia-N	99.4	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A106776
Included Lab Sample IDs: 2261980, 2261986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	99.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A106917
Included Lab Sample IDs: 2261981, 2261982

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A106945
Included Lab Sample IDs: 2261981, 2261982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A107113
Included Lab Sample IDs: 2261984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.3	89.3*	P/F	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 180.1 Rev. 2.0	Turbidity					0.0	
EPA 350.1 Rev. 2.0	Ammonia-N	100	99.0	101			1.00
	Ammonia-N	102	103	102			0.693
	Ammonia-N	101	98.2	99.0			0.623
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	103	104			1.42
	Kjeldahl Nitrogen	108	98.7	114			10.7
	Kjeldahl Nitrogen	98.1	97.3	105			6.20
EPA 353.2 Rev. 2.0	NO2NO3-N	101	103	102			0.487
	NO2NO3-N	104	102	101			0.952
EPA 365.1 Rev. 2.0	Total-P	106	109	111			1.85
	Total-P	104	104	103			0.186

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2261977, 2261978, 2261979, 2261983, 2261985
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2261980, 2261981, 2261982, 2261984, 2261986
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2261980, 2261981, 2261982, 2261984, 2261986
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2261980, 2261981, 2261982, 2261984, 2261986
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2261980, 2261981, 2261982, 2261984, 2261986

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	07/14/2021			07/14/2021 11:20	Sarah A Nixon	2261985
	07/14/2021			07/14/2021 11:21	Sarah A Nixon	2261977
	07/14/2021			07/14/2021 11:26	Sarah A Nixon	2261983
	07/14/2021			07/14/2021 11:27	Sarah A Nixon	2261978
	07/14/2021			07/14/2021 11:30	Sarah A Nixon	2261979
EPA 350.1 Rev. 2.0	07/14/2021			07/21/2021 15:01	Ping Hua	2261984
	07/14/2021			07/21/2021 15:59	Ping Hua	2261980
	07/14/2021			07/21/2021 16:01	Ping Hua	2261986
	07/14/2021			07/29/2021 12:16	Ping Hua	2261981
	07/14/2021			07/29/2021 12:20	Ping Hua	2261982
EPA 351.2 Rev. 2.0	07/14/2021	07/20/2021 14:30	Benjamin T. Nordmann	07/22/2021 13:16	Letuzia M De Oliveira	2261980
	07/14/2021	07/20/2021 14:30	Benjamin T. Nordmann	07/22/2021 13:18	Letuzia M De Oliveira	2261986
	07/14/2021	07/29/2021 15:45	Benjamin T. Nordmann	07/30/2021 13:59	Virginia P. Brown	2261981
	07/14/2021	07/29/2021 15:45	Benjamin T. Nordmann	07/30/2021 14:00	Virginia P. Brown	2261982
	07/14/2021	08/06/2021 13:50	Benjamin T. Nordmann	08/06/2021 21:19	Touraj Touran	2261984
EPA 353.2 Rev. 2.0	07/14/2021			07/15/2021 11:38	Beverly Y. Sanders	2261980
	07/14/2021			07/15/2021 11:39	Beverly Y. Sanders	2261986
	07/14/2021			07/16/2021 09:14	Beverly Y. Sanders	2261981
	07/14/2021			07/16/2021 10:19	Beverly Y. Sanders	2261982
	07/14/2021			07/16/2021 10:20	Beverly Y. Sanders	2261984
EPA 365.1 Rev. 2.0	07/14/2021	07/20/2021 13:32	Shengyu Ding	07/21/2021 11:54	Shengyu Ding	2261981
	07/14/2021	07/20/2021 13:32	Shengyu Ding	07/21/2021 11:55	Shengyu Ding	2261982
	07/14/2021	07/20/2021 13:32	Shengyu Ding	07/21/2021 12:03	Shengyu Ding	2261984
	07/14/2021	07/20/2021 13:32	Shengyu Ding	07/21/2021 12:08	Shengyu Ding	2261980
	07/14/2021	07/20/2021 13:32	Shengyu Ding	07/21/2021 12:09	Shengyu Ding	2261986