

Chemical Analysis Report

WQAP-2022-08-30-02

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

Event Description: **Algal Bloom Response -SOROC**
Request ID: **RQ-2022-06-20-30**
Customer: **WQAP**
Project ID: **BLOOM-RESP**

Send Reports to:
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2295 Victoria AVE
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Certified by: Colin Wright, Program Administrator

Date Certified: 15-SEP-2022 08:40

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue rectangular background.

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 groups are included in this report: Nutrients and Pesticides.

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: Caloosahatchee - Cat Cay and Dimple Canal

Collection Date/Time: 08/29/2022 09:30

Field ID: HAB-SD-082922-0930

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352989	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P418835	
		Cylindrospermopsin	0.10	U	ug/L	P418834	
		Desmethyl microcystin LR	0.25	U	ug/L	P418834	
		Microcystin HIR	0.25	U	ug/L	P418834	
		Microcystin HtyR	0.25	U	ug/L	P418834	
		Microcystin LA	0.10	U	ug/L	P418834	
		Microcystin LF	0.10	U	ug/L	P418834	
		Microcystin LR	0.25	U	ug/L	P418834	
		Microcystin LW	0.25	U	ug/L	P418834	
		Microcystin LY	0.10	U	ug/L	P418834	
		Microcystin RR	0.10	U	ug/L	P418834	
		Microcystin WR	0.50	U	ug/L	P418834	
		Microcystin YR	0.25	U	ug/L	P418834	
		Nodularin-R	0.10	U	ug/L	P418834	
2352993	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P419005	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P418960	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P418994	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P418985	
2352995	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.051		mg P/L	P418882	

Sample Location: Caloosahatchee - Coleridge Canal

Collection Date/Time: 08/29/2022 10:00

Field ID: HAB-SD-082922-1000

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352990	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P418835	
		Cylindrospermopsin	0.10	U	ug/L	P418834	
		Desmethyl microcystin LR	0.25	U	ug/L	P418834	
		Microcystin HILR	0.25	U	ug/L	P418834	
		Microcystin HtyR	0.25	U	ug/L	P418834	
		Microcystin LA	0.10	U	ug/L	P418834	
		Microcystin LF	0.10	U	ug/L	P418834	
		Microcystin LR	0.25	U	ug/L	P418834	
		Microcystin LW	0.25	U	ug/L	P418834	
		Microcystin LY	0.10	U	ug/L	P418834	
		Microcystin RR	0.10	U	ug/L	P418834	
		Microcystin WR	0.50	U	ug/L	P418834	
		Microcystin YR	0.25	U	ug/L	P418834	
		Nodularin-R	0.10	U	ug/L	P418834	
2352994	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P419005	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P418960	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P418994	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P418985	
2352996	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P418882	

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418960

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418985

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418882

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

Reference Method: EPA 8321B
Batch ID: P418834

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin HILR	0.25	U	ug/L
Microcystin HtyR	0.25	U	ug/L
Microcystin LA	0.10	U	ug/L
Microcystin LF	0.10	U	ug/L
Microcystin LR	0.25	U	ug/L
Microcystin LW	0.25	U	ug/L
Microcystin LY	0.10	U	ug/L
Microcystin RR	0.10	U	ug/L
Microcystin WR	0.50	U	ug/L
Microcystin YR	0.25	U	ug/L
Nodularin-R	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P418835

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418960

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418985

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418882

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.7		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P418834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	95.9		P	40 - 150
Desmethyl microcystin LR	90.6		P	40 - 150
Microcystin HILR	99.0		P	40 - 150
Microcystin HtyR	95.6		P	40 - 150
Microcystin LA	76.1		P	40 - 150
Microcystin LF	68.7		P	40 - 150
Microcystin LR	99.1		P	40 - 150
Microcystin LW	86.2		P	40 - 150
Microcystin LY	67.6		P	40 - 150
Microcystin RR	125		P	40 - 150
Microcystin WR	99.3		P	40 - 150
Microcystin YR	90.9		P	40 - 150
Nodularin-R	109		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P418835

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	92.9		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352652	Ammonia-N	101	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351885	Kjeldahl Nitrogen	103	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352460	NO2NO3-N	98.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352345	Total-P	97.0	96.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352925	O-Phosphate-P	98.6	98.6	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P418834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352945	Cylindrospermopsin	97.3	98.2	P/P	40 - 150
2352945	Desmethyl microcystin LR	111	111	P/P	40 - 150
2352945	Microcystin HiLR	115	116	P/P	40 - 150
2352945	Microcystin HtyR	107	115	P/P	40 - 150
2352945	Microcystin LA	88.1	83.5	P/P	40 - 150
2352945	Microcystin LF	68.8	72.3	P/P	40 - 150
2352945	Microcystin LR	120	125	P/P	40 - 150
2352945	Microcystin LW	72.1	63.5	P/P	40 - 150
2352945	Microcystin LY	75.1	67.3	P/P	40 - 150
2352945	Microcystin RR	136	139	P/P	40 - 150
2352945	Microcystin WR	101	111	P/P	40 - 150
2352945	Microcystin YR	118	119	P/P	40 - 150
2352945	Nodularin-R	142	150	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P418835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352945	Anatoxin-a	71.5	72.3	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P419005

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352652	Ammonia-N	2.48	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P418960

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351885	Kjeldahl Nitrogen	3.23	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P418994

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352460	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418985

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352345	Total-P	0.116	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P418882

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352925	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8321B

Batch ID: P418834

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352945	Cylindrospermopsin	0.934	Spike	P	0 - 30
2352945	Desmethyl microcystin LR	0.0426	Spike	P	0 - 30
2352945	Microcystin H1LR	0.701	Spike	P	0 - 30
2352945	Microcystin HtyR	7.01	Spike	P	0 - 30
2352945	Microcystin LA	5.39	Spike	P	0 - 30
2352945	Microcystin LF	4.99	Spike	P	0 - 30
2352945	Microcystin LR	4.03	Spike	P	0 - 30
2352945	Microcystin LW	12.8	Spike	P	0 - 30
2352945	Microcystin LY	10.9	Spike	P	0 - 30
2352945	Microcystin RR	2.15	Spike	P	0 - 30
2352945	Microcystin WR	9.52	Spike	P	0 - 30
2352945	Microcystin YR	1.29	Spike	P	0 - 30
2352945	Nodularin-R	5.57	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P418835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352945	Anatoxin-a	1.11	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2352989
Field Sample ID: HAB-SD-082922-0930

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	104	P	30 - 160
EPA 8321B	Neosaxitoxin-15N7	39.3	P	30 - 160

Lab Sample ID: 2352990
Field Sample ID: HAB-SD-082922-1000

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	117	P	30 - 160
EPA 8321B	Neosaxitoxin-15N7	34.5	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A114436

Included Lab Sample IDs: 2352995, 2352996

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	98.9	P/P	90 - 110
O-Phosphate-P	98.6	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114467

Included Lab Sample IDs: 2352989, 2352990

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	93.9	108	P/P	50 - 160
Desmethyl microcystin LR	93.0	98.5	P/P	50 - 160
Microcystin HIR	101	106	P/P	50 - 160
Microcystin HtyR	103	99.6	P/P	50 - 160
Microcystin LA	79.4	81.7	P/P	50 - 160
Microcystin LF	72.6	74.5	P/P	50 - 160
Microcystin LR	105	101	P/P	50 - 160
Microcystin LW	92.1	89.7	P/P	50 - 160
Microcystin LY	75.3	75.7	P/P	50 - 160
Microcystin RR	126	148	P/P	50 - 160
Microcystin WR	99.4	98.8	P/P	50 - 160
Microcystin YR	102	97.0	P/P	50 - 160
Nodularin-R	116	130	P/P	50 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114483

Included Lab Sample IDs: 2352993, 2352994

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	106	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114487

Included Lab Sample IDs: 2352993, 2352994

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114502

Included Lab Sample IDs: 2352989, 2352990

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	71.2	78.8	P/P	50 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114512

Included Lab Sample IDs: 2352993, 2352994

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	103	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114547

Included Lab Sample IDs: 2352993, 2352994

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	91.0	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		LCS	Precision	MS
						SMP	
EPA 350.1 Rev. 2.0	Ammonia-N	95.4	101	105			2.48
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.2	103	98.8			3.23
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	106	98.4	99.4			1.01
EPA 365.1 Rev. 2.0	Total-P	104	97.0	96.8			0.116
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.7	98.6	98.6			0.0
EPA 8321B	Anatoxin-a	92.9	71.5	72.3			1.11
	Cylindrospermopsin	95.9	97.3	98.2			0.934
	Desmethyl microcystin LR	90.6	111	111			0.0426
	Microcystin HiLR	99.0	115	116			0.701
	Microcystin HtyR	95.6	107	115			7.01
	Microcystin LA	76.1	88.1	83.5			5.39
	Microcystin LF	68.7	68.8	72.3			4.99
	Microcystin LR	99.1	120	125			4.03
	Microcystin LW	86.2	72.1	63.5			12.8
	Microcystin LY	67.6	75.1	67.3			10.9
	Microcystin RR	125	136	139			2.15
	Microcystin WR	99.3	101	111			9.52
	Microcystin YR	90.9	118	119			1.29
	Nodularin-R	109	142	150			5.57

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2352993, 2352994
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2352993, 2352994
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2352993, 2352994
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2352993, 2352994
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2352995, 2352996
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2352989, 2352990
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2352989, 2352990

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	08/30/2022			09/01/2022 13:35	Ping Hua	2352993
	08/30/2022			09/01/2022 13:37	Ping Hua	2352994
EPA 351.2 Rev. 2.0	08/30/2022	09/02/2022 08:53	Samantha L Bates	09/06/2022 11:35	Samantha L Bates	2352993
	08/30/2022	09/02/2022 08:53	Samantha L Bates	09/06/2022 11:37	Samantha L Bates	2352994
EPA 353.2 Rev. 2.0	08/30/2022			09/01/2022 12:29	Judith K. Clark	2352993
	08/30/2022			09/01/2022 12:30	Judith K. Clark	2352994
EPA 365.1 Rev. 2.0	08/30/2022	09/01/2022 15:55	Simonne.V. Calhoun	09/02/2022 10:47	Simonne.V. Calhoun	2352993
	08/30/2022	09/01/2022 15:55	Simonne.V. Calhoun	09/02/2022 10:48	Simonne.V. Calhoun	2352994
EPA 365.1 Rev. 2.0 dissolved	08/30/2022			08/30/2022 14:54	Elise M. Gillis	2352995
	08/30/2022			08/30/2022 15:00	Elise M. Gillis	2352996
EPA 8321B	08/30/2022	08/31/2022 09:15	Manjita Shrestha	08/31/2022 13:14	Manjita Shrestha	2352989
	08/30/2022	08/31/2022 09:15	Manjita Shrestha	08/31/2022 13:31	Manjita Shrestha	2352990
	08/30/2022	08/31/2022 13:00	Manjita Shrestha	09/01/2022 23:23	Manjita Shrestha	2352989
	08/30/2022	08/31/2022 13:00	Manjita Shrestha	09/01/2022 23:37	Manjita Shrestha	2352990