

Chemical Analysis Report

CEN-DIST-2023-11-21-01

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

Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2023-08-07-37**
Customer: **CEN-DIST**
Project ID: **BLOOM-RESP**

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

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 05-DEC-2023 13:04

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: Lake Drawdy - Center

Collection Date/Time: 11/20/2023 10:52

Field ID: HABCE0219

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452392	DEP SOP: NU-094-1	Color (true)	120		PCU	P438136	
2452393	EPA 350.1 Rev. 2.0	Ammonia-N	0.055		mg N/L	P438434	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P438170	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.070		mg N/L	P438254	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P438209	
2452394	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P438126	
2452396	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P438112	
		Cylindrospermopsin	0.10	U	ug/L	P438109	
		Desmethyl microcystin LR	0.25	U	ug/L	P438109	
		Microcystin HilR	0.25	U	ug/L	P438109	
		Microcystin HtyR	0.25	U	ug/L	P438109	
		Microcystin LA	0.10	U	ug/L	P438109	
		Microcystin LF	0.10	U	ug/L	P438109	
		Microcystin LR	0.25	U	ug/L	P438109	
		Microcystin LW	0.25	U	ug/L	P438109	
		Microcystin LY	0.10	U	ug/L	P438109	
		Microcystin RR	0.16	I	ug/L	P438109	
		Microcystin WR	0.50	U	ug/L	P438109	
		Neosaxitoxin	0.50	U	ug/L	P438112	
		Microcystin YR	0.25	U	ug/L	P438109	
		Saxitoxin	0.50	U	ug/L	P438112	
		Nodularin-R	0.10	U	ug/L	P438109	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438136

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438434

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438170

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438254

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438209

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438126

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

Reference Method: EPA 8321B
Batch ID: P438109

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P438112

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L
Neosaxitoxin	0.50	U	ug/L
Saxitoxin	0.50	U	ug/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P438136

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438170

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438254

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: P438209

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438126

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	93.1		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P438109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	93.5		P	40 - 150
Desmethyl microcystin LR	92.1		P	40 - 150
Microcystin HILR	92.0		P	40 - 150
Microcystin HtyR	94.7		P	40 - 150
Microcystin LA	93.4		P	40 - 150
Microcystin LF	85.3		P	40 - 150
Microcystin LR	94.6		P	40 - 150
Microcystin LW	97.9		P	40 - 150
Microcystin LY	92.9		P	40 - 150
Microcystin RR	91.4		P	40 - 150
Microcystin WR	99.4		P	40 - 150
Microcystin YR	94.7		P	40 - 150
Nodularin-R	92.0		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P438112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	90.2		P	40 - 150
Neosaxitoxin	81.6		P	40 - 150
Saxitoxin	91.9		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438434

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452313	Ammonia-N	96.2	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452438	Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452393	NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452390	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438126

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452391	O-Phosphate-P	97.2	98.8	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P438109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452396	Cylindrospermopsin	94.7	103	P/P	40 - 150
2452396	Desmethyl microcystin LR	96.0	88.3	P/P	40 - 150
2452396	Microcystin HiLR	100	107	P/P	40 - 150
2452396	Microcystin HtyR	102	105	P/P	40 - 150
2452396	Microcystin LA	87.8	102	P/P	40 - 150
2452396	Microcystin LF	106	99.8	P/P	40 - 150
2452396	Microcystin LR	95.7	99.4	P/P	40 - 150
2452396	Microcystin LW	94.0	104	P/P	40 - 150
2452396	Microcystin LY	90.9	101	P/P	40 - 150
2452396	Microcystin RR	93.1	96.4	P/P	40 - 150
2452396	Microcystin WR	98.8	117	P/P	40 - 150
2452396	Microcystin YR	102	104	P/P	40 - 150
2452396	Nodularin-R	94.1	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452396	Anatoxin-a	92.9	87.5	P/P	40 - 150
2452396	Neosaxitoxin	66.3	64.7	P/P	40 - 150
2452396	Saxitoxin	63.5	75.3	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452389	Color (true)	8.43	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452313	Ammonia-N	1.81	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452438	Kjeldahl Nitrogen	1.70	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452393	NO2NO3-N	0.371	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452390	Total-P	1.32	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438126

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452391	O-Phosphate-P	1.63	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P438109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452396	Cylindrospermopsin	8.18	Spike	P	0 - 30
2452396	Desmethyl microcystin LR	8.31	Spike	P	0 - 30
2452396	Microcystin HtIR	6.37	Spike	P	0 - 30
2452396	Microcystin HtyR	2.72	Spike	P	0 - 30
2452396	Microcystin LA	14.7	Spike	P	0 - 30
2452396	Microcystin LF	6.08	Spike	P	0 - 30
2452396	Microcystin LR	3.74	Spike	P	0 - 30
2452396	Microcystin LW	9.68	Spike	P	0 - 30
2452396	Microcystin LY	10.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P438109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452396	Microcystin RR	3.50	Spike	P	0 - 30
2452396	Microcystin WR	16.6	Spike	P	0 - 30
2452396	Microcystin YR	1.65	Spike	P	0 - 30
2452396	Nodularin-R	7.38	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452396	Anatoxin-a	5.92	Spike	P	0 - 30
2452396	Neosaxitoxin	2.48	Spike	P	0 - 30
2452396	Saxitoxin	17.0	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2452396
Field Sample ID: HABCE0219

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	103	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	97.7	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122866

Included Lab Sample IDs: 2452394

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	99.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A122870

Included Lab Sample IDs: 2452392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.3	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122893

Included Lab Sample IDs: 2452396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	101	99.7	P/P	50 - 160
Desmethyl microcystin LR	104	93.3	P/P	50 - 160
Microcystin HiiR	102	107	P/P	50 - 160
Microcystin HtyR	101	108	P/P	50 - 160
Microcystin LA	107	108	P/P	50 - 160
Microcystin LF	103	103	P/P	50 - 160
Microcystin LR	106	106	P/P	50 - 160
Microcystin LW	107	99.8	P/P	50 - 160
Microcystin LY	111	113	P/P	50 - 160
Microcystin RR	96.4	100	P/P	50 - 160
Microcystin WR	106	111	P/P	50 - 160
Microcystin YR	105	111	P/P	50 - 160
Nodularin-R	102	105	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A122894

Included Lab Sample IDs: 2452396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	97.7	83.3	P/P	50 - 160
Neosaxitoxin	99.5	87.3	P/P	50 - 160
Saxitoxin	106	105	P/P	50 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122920

Included Lab Sample IDs: 2452393

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122927

Included Lab Sample IDs: 2452393

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122935

Included Lab Sample IDs: 2452393

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	95.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122988

Included Lab Sample IDs: 2452393

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	98.1	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)	97.5			8.43	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	96.2	98.2		1.81
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	101	104		1.70
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	99.5	100		0.371
EPA 365.1 Rev. 2.0	Total-P	102	103	104		1.32
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	93.1	97.2	98.8		1.63
EPA 8321B	Anatoxin-a	90.2	92.9	87.5		5.92
	Cylindrospermopsin	93.5	94.7	103		8.18
	Desmethyl microcystin LR	92.1	96.0	88.3		8.31
	Microcystin H ₁ LR	92.0	100	107		6.37
	Microcystin H ₇ LR	94.7	102	105		2.72
	Microcystin LA	93.4	87.8	102		14.7
	Microcystin LF	85.3	106	99.8		6.08
	Microcystin LR	94.6	95.7	99.4		3.74
	Microcystin LW	97.9	94.0	104		9.68
	Microcystin LY	92.9	90.9	101		10.4
	Microcystin RR	91.4	93.1	96.4		3.50
	Microcystin WR	99.4	98.8	117		16.6
	Microcystin YR	94.7	102	104		1.65
	Neosaxitoxin	81.6	66.3	64.7		2.48
	Nodularin-R	92.0	94.1	101		7.38
	Saxitoxin	91.9	63.5	75.3		17.0

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2452392
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2452393
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2452393
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2452393
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2452393
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2452394
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2452396
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2452396

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	11/21/2023			11/21/2023 14:24	Chandler E Cox	2452392
EPA 350.1 Rev. 2.0	11/21/2023			12/01/2023 14:59	Khloe J Berg	2452393
EPA 351.2 Rev. 2.0	11/21/2023	11/27/2023 13:33	Simonne.V. Calhoun	11/29/2023 12:08	Ping Hua	2452393
EPA 353.2 Rev. 2.0	11/21/2023			11/28/2023 13:07	Fadila Guebre	2452393
EPA 365.1 Rev. 2.0	11/21/2023	11/28/2023 10:59	Adam P Silver	11/29/2023 10:45	James L Waggeberby	2452393
EPA 365.1 Rev. 2.0 dissolved	11/21/2023	11/27/2023 08:00	Hana Lee	11/21/2023 13:11	Elise M. Gillis	2452394
EPA 8321B	11/21/2023	11/27/2023 08:00	Hana Lee	11/27/2023 16:01	Tae K Lee	2452396
	11/21/2023	11/27/2023 08:00	Hana Lee	11/27/2023 19:57	Tae K Lee	2452396