

Chemical Analysis Report

CEN-DIST-2023-10-11-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

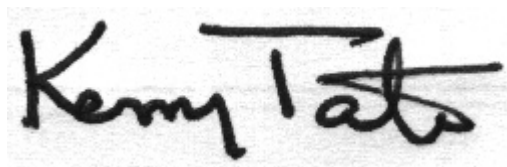
Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2023-07-17-26**
Customer: **CEN-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 23-OCT-2023 11:46

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: Tiger Lake-Center

Collection Date/Time: 10/10/2023 11:54

Field ID: HABCE0185

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444139	DEP SOP: NU-094-1	Color (true)	58		PCU	P436365	
2444140	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P436538	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P436432	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436456	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P436462	
2444141	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P436368	
2444142	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P436079	
		Cylindrospermopsin	0.10	U	ug/L	P436078	
		Desmethyl microcystin LR	0.25	U	ug/L	P436078	
		Microcystin HiLR	0.25	U	ug/L	P436078	
		Microcystin HtyR	0.25	U	ug/L	P436078	
		Microcystin LA	0.14	I	ug/L	P436078	
		Microcystin LF	0.10	U	ug/L	P436078	
		Microcystin LR	0.25	U	ug/L	P436078	
		Microcystin LW	0.25	U	ug/L	P436078	
		Microcystin LY	0.10	U	ug/L	P436078	
		Microcystin RR	0.10	U	ug/L	P436078	
		Microcystin WR	0.50	U	ug/L	P436078	
		Neosaxitoxin	0.50	U	ug/L	P436079	
		Microcystin YR	0.25	U	ug/L	P436078	
		Saxitoxin	0.50	U	ug/L	P436079	
		Nodularin-R	0.10	U	ug/L	P436078	

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436365

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436538

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436432

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436456

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436462

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436368

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

Reference Method: EPA 8321B
Batch ID: P436078

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H1LR	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: P436079

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: P436365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436538

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436432

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436456

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436462

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: P436368

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

Reference Method: EPA 8321B
Batch ID: P436078

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	109		P	40 - 160
Desmethyl microcystin LR	103		P	40 - 160
Microcystin HILR	91.9		P	40 - 160
Microcystin HtyR	96.9		P	40 - 160
Microcystin LA	93.8		P	40 - 160
Microcystin LF	95.3		P	40 - 160
Microcystin LR	97.1		P	40 - 160
Microcystin LW	91.3		P	40 - 160
Microcystin LY	93.4		P	40 - 160
Microcystin RR	102		P	40 - 160
Microcystin WR	95.8		P	40 - 160
Microcystin YR	92.4		P	40 - 160
Nodularin-R	96.6		P	40 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	111		P	40 - 150
Neosaxitoxin	99.5		P	40 - 150
Saxitoxin	97.1		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436538

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444041	Ammonia-N	98.4	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436432

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444041	Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442247	NO2NO3-N	99.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444154	Total-P	110	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444141	O-Phosphate-P	97.8	98.3	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P436078

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443336	Cylindrospermopsin	105	93.1	P/P	40 - 160
2443336	Desmethyl microcystin LR	82.2	90.9	P/P	40 - 160
2443336	Microcystin HiLR	95.2	91.2	P/P	40 - 160
2443336	Microcystin HtyR	91.5	83.1	P/P	40 - 160
2443336	Microcystin LA	87.4	93.9	P/P	40 - 160
2443336	Microcystin LF	90.7	98.3	P/P	40 - 160
2443336	Microcystin LR	93.6	90.7	P/P	40 - 160
2443336	Microcystin LW	89.9	90.1	P/P	40 - 160
2443336	Microcystin LY	98.7	84.2	P/P	40 - 160
2443336	Microcystin RR	93.8	94.0	P/P	40 - 160
2443336	Microcystin WR	88.7	87.4	P/P	40 - 160
2443336	Microcystin YR	83.0	96.2	P/P	40 - 160
2443336	Nodularin-R	80.1	88.1	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P436079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443336	Anatoxin-a	113	116	P/P	40 - 150
2443336	Neosaxitoxin	103	108	P/P	40 - 150
2443336	Saxitoxin	104	109	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444069	Color (true)	4.25	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436538

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444041	Ammonia-N	1.56	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444041	Kjeldahl Nitrogen	2.42	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442247	NO2NO3-N	0.416	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444154	Total-P	2.89	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444141	O-Phosphate-P	0.469	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P436078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443336	Cylindrospermopsin	11.7	Spike	P	0 - 30
2443336	Desmethyl microcystin LR	9.50	Spike	P	0 - 30
2443336	Microcystin HtIR	4.26	Spike	P	0 - 30
2443336	Microcystin HtyR	9.55	Spike	P	0 - 30
2443336	Microcystin LA	5.11	Spike	P	0 - 30
2443336	Microcystin LF	8.04	Spike	P	0 - 30
2443336	Microcystin LR	2.92	Spike	P	0 - 30
2443336	Microcystin LW	0.267	Spike	P	0 - 30
2443336	Microcystin LY	15.8	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443336	Microcystin RR	0.142	Spike	P	0 - 30
2443336	Microcystin WR	1.45	Spike	P	0 - 30
2443336	Microcystin YR	14.7	Spike	P	0 - 30
2443336	Nodularin-R	9.60	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443336	Anatoxin-a	2.87	Spike	P	0 - 30
2443336	Neosaxitoxin	4.72	Spike	P	0 - 30
2443336	Saxitoxin	4.68	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2444142
Field Sample ID: HABCE0185

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	97.1	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	99.4	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122085

Included Lab Sample IDs: 2444139

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122087

Included Lab Sample IDs: 2444141

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	97.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122102

Included Lab Sample IDs: 2444142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	108	129	P/P	50 - 160
Neosaxitoxin	105	134	P/P	50 - 160
Saxitoxin	109	130	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A122104

Included Lab Sample IDs: 2444142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	108	107	P/P	60 - 160
Desmethyl microcystin LR	110	106	P/P	50 - 160
Microcystin HILR	116	106	P/P	60 - 160
Microcystin HtyR	105	107	P/P	60 - 160
Microcystin LA	115	106	P/P	50 - 160
Microcystin LF	119	118	P/P	60 - 160
Microcystin LR	109	111	P/P	60 - 160
Microcystin LW	103	106	P/P	60 - 160
Microcystin LY	102	99.9	P/P	60 - 160
Microcystin RR	119	111	P/P	60 - 160
Microcystin WR	103	105	P/P	60 - 160
Microcystin YR	105	95.6	P/P	60 - 160
Nodularin-R	105	106	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122130

Included Lab Sample IDs: 2444140

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122139

Included Lab Sample IDs: 2444140

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122167

Included Lab Sample IDs: 2444140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.8	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122170

Included Lab Sample IDs: 2444140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	98.6	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		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	102				4.25	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	98.4	100			1.56
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109	101	104			2.42
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	103	99.4	100			0.416
EPA 365.1 Rev. 2.0	Total-P	102	110	107			2.89
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.7	97.8	98.3			0.469
EPA 8321B	Anatoxin-a	111	113	116			2.87
	Cylindrospermopsin	109	105	93.1			11.7
	Desmethyl microcystin LR	103	82.2	90.9			9.50
	Microcystin HiLR	91.9	95.2	91.2			4.26
	Microcystin HtyR	96.9	91.5	83.1			9.55
	Microcystin LA	93.8	87.4	93.9			5.11
	Microcystin LF	95.3	90.7	98.3			8.04
	Microcystin LR	97.1	93.6	90.7			2.92
	Microcystin LW	91.3	89.9	90.1			0.267
	Microcystin LY	93.4	98.7	84.2			15.8
	Microcystin RR	102	93.8	94.0			0.142
	Microcystin WR	95.8	88.7	87.4			1.45
	Microcystin YR	92.4	83.0	96.2			14.7
	Neosaxitoxin	99.5	103	108			4.72
	Nodularin-R	96.6	80.1	88.1			9.60
	Saxitoxin	97.1	104	109			4.68

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2444139
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2444140
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2444140
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2444140
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2444140
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2444141
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2444142
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2444142

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	10/11/2023			10/11/2023 14:53	Chandler E Cox	2444139
EPA 350.1 Rev. 2.0	10/11/2023			10/16/2023 12:17	Ping Hua	2444140
EPA 351.2 Rev. 2.0	10/11/2023	10/12/2023 13:01	Simonne.V. Calhoun	10/13/2023 12:03	Samantha L Bates	2444140
EPA 353.2 Rev. 2.0	10/11/2023			10/12/2023 14:18	Anna M. Plaviak	2444140
EPA 365.1 Rev. 2.0	10/11/2023	10/13/2023 12:30	Adam P Silver	10/16/2023 14:10	Chandler E Cox	2444140
EPA 365.1 Rev. 2.0 dissolved	10/11/2023			10/11/2023 14:40	Elise M. Gillis	2444141
EPA 8321B	10/11/2023	10/11/2023 12:00	Hana Lee	10/12/2023 05:34	Tae K Lee	2444142
	10/11/2023	10/11/2023 12:00	Hana Lee	10/12/2023 06:36	Tae K Lee	2444142