

Chemical Analysis Report

CEN-DIST-2023-10-31-01

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

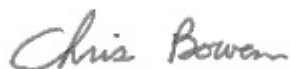
Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2023-07-17-26**
Customer: **CEN-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
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Date Certified: 17-NOV-2023 10:40



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 - S Shore

Collection Date/Time: 10/30/2023 10:32

Field ID: HABCE0217

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2447848	DEP SOP: NU-094-1	Color (true)	130		PCU	P437188	
2447849	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P437342	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P437235	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.033		mg N/L	P437438	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P437280	
2447850	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P437199	
2447851	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P437194	
		Cylindrospermopsin	0.10	U	ug/L	P437193	
		Desmethyl microcystin LR	0.25	U	ug/L	P437193	
		Microcystin H1LR	0.25	U	ug/L	P437193	
		Microcystin HtyR	0.25	U	ug/L	P437193	
		Microcystin LA	0.10	U	ug/L	P437193	
		Microcystin LF	0.10	U	ug/L	P437193	
		Microcystin LR	0.62	I	ug/L	P437193	
		Microcystin LW	0.25	U	ug/L	P437193	
		Microcystin LY	0.10	U	ug/L	P437193	
		Microcystin RR	1.1		ug/L	P437193	
		Microcystin WR	0.50	U	ug/L	P437193	
		Neosaxitoxin	0.50	U	ug/L	P437194	
		Microcystin YR	0.25	U	ug/L	P437193	
		Saxitoxin	0.50	U	ug/L	P437194	
		Nodularin-R	0.10	U	ug/L	P437193	

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P437188

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437342

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437235

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437438

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437280

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P437199

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

Reference Method: EPA 8321B
Batch ID: P437193

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: P437194

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: P437188

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437342

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437235

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437438

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437280

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P437199

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

Reference Method: EPA 8321B
Batch ID: P437193

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	93.8		P	40 - 160
Desmethyl microcystin LR	92.3		P	40 - 160
Microcystin HILR	90.2		P	40 - 160
Microcystin HtyR	90.8		P	40 - 160
Microcystin LA	95.0		P	40 - 160
Microcystin LF	85.5		P	40 - 160
Microcystin LR	86.5		P	40 - 160
Microcystin LW	74.9		P	40 - 160
Microcystin LY	80.8		P	40 - 160
Microcystin RR	86.2		P	40 - 160
Microcystin WR	90.5		P	40 - 160
Microcystin YR	80.0		P	40 - 160
Nodularin-R	92.0		P	40 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P437194

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	91.2		P	40 - 150
Neosaxitoxin	88.3		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: P437342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447811	Ammonia-N	97.8	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447875	Kjeldahl Nitrogen	95.2	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447849	NO2NO3-N	94.4	95.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447876	Total-P	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P437199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447814	O-Phosphate-P	100	98.9	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P437193

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447835	Cylindrospermopsin	90.3	85.2	P/P	40 - 160
2447835	Desmethyl microcystin LR	88.7	81.7	P/P	40 - 160
2447835	Microcystin HiLR	82.1	78.0	P/P	40 - 160
2447835	Microcystin HtyR	81.7	73.4	P/P	40 - 160
2447835	Microcystin LA	86.5	79.5	P/P	40 - 160
2447835	Microcystin LF	83.1	82.5	P/P	40 - 160
2447835	Microcystin LR	82.3	77.3	P/P	40 - 160
2447835	Microcystin LW	68.7	71.2	P/P	40 - 160
2447835	Microcystin LY	73.4	67.1	P/P	40 - 160
2447835	Microcystin RR	84.4	77.9	P/P	40 - 160
2447835	Microcystin WR	86.3	79.4	P/P	40 - 160
2447835	Microcystin YR	78.8	69.7	P/P	40 - 160
2447835	Nodularin-R	87.0	82.9	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P437194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2447835	Anatoxin-a	98.2	91.1	P/P	40 - 150
2447835	Neosaxitoxin	69.8	69.6	P/P	40 - 150
2447835	Saxitoxin	74.3	79.4	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P437188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447836	Color (true)	11.3	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447811	Ammonia-N	1.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P437235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447875	Kjeldahl Nitrogen	5.72	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447849	NO2NO3-N	0.897	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P437280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447876	Total-P	0.966	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P437199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447814	O-Phosphate-P	1.21	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P437193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447835	Cylindrospermopsin	5.76	Spike	P	0 - 30
2447835	Desmethyl microcystin LR	8.26	Spike	P	0 - 30
2447835	Microcystin HtIR	5.09	Spike	P	0 - 30
2447835	Microcystin HtyR	10.7	Spike	P	0 - 30
2447835	Microcystin LA	8.38	Spike	P	0 - 30
2447835	Microcystin LF	0.766	Spike	P	0 - 30
2447835	Microcystin LR	6.28	Spike	P	0 - 30
2447835	Microcystin LW	3.59	Spike	P	0 - 30
2447835	Microcystin LY	9.01	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P437193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447835	Microcystin RR	8.03	Spike	P	0 - 30
2447835	Microcystin WR	8.44	Spike	P	0 - 30
2447835	Microcystin YR	12.3	Spike	P	0 - 30
2447835	Nodularin-R	4.81	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P437194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2447835	Anatoxin-a	7.48	Spike	P	0 - 30
2447835	Neosaxitoxin	0.279	Spike	P	0 - 30
2447835	Saxitoxin	6.64	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2447851
Field Sample ID: HABCE0217

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	94.9	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	91.1	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122459

Included Lab Sample IDs: 2447848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.2	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122465

Included Lab Sample IDs: 2447850

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

Reference Method: EPA 8321B

Run ID: A122518

Included Lab Sample IDs: 2447851

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	97.3	101	P/P	50 - 160
Neosaxitoxin	102	103	P/P	50 - 160
Saxitoxin	107	104	P/P	50 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122525

Included Lab Sample IDs: 2447849

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	109	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122528

Included Lab Sample IDs: 2447851

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	98.6	97.2	P/P	60 - 160
Desmethyl microcystin LR	94.7	88.0	P/P	50 - 160
Microcystin HIR	93.0	89.5	P/P	60 - 160
Microcystin HtyR	91.7	88.7	P/P	60 - 160
Microcystin LA	95.5	92.7	P/P	50 - 160
Microcystin LF	92.3	80.3	P/P	60 - 160
Microcystin LR	90.8	84.6	P/P	60 - 160
Microcystin LW	78.8	75.0	P/P	60 - 160
Microcystin LY	84.2	78.0	P/P	60 - 160
Microcystin RR	91.8	90.2	P/P	60 - 160
Microcystin WR	94.1	93.0	P/P	60 - 160
Microcystin YR	80.5	81.6	P/P	60 - 160
Nodularin-R	92.5	91.5	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122551

Included Lab Sample IDs: 2447849

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.8	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122552

Included Lab Sample IDs: 2447849

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122578

Included Lab Sample IDs: 2447849

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.0	99.0	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		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	99.0			11.3	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	97.8	99.2		1.15
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	95.2	104		5.72
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	94.4	95.4		0.897
EPA 365.1 Rev. 2.0	Total-P	101	100	101		0.966
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.8	100	98.9		1.21
EPA 8321B	Anatoxin-a	91.2	98.2	91.1		7.48
	Cylindrospermopsin	93.8	90.3	85.2		5.76
	Desmethyl microcystin LR	92.3	88.7	81.7		8.26
	Microcystin HiLR	90.2	82.1	78.0		5.09
	Microcystin HtyR	90.8	81.7	73.4		10.7
	Microcystin LA	95.0	86.5	79.5		8.38
	Microcystin LF	85.5	83.1	82.5		0.766
	Microcystin LR	86.5	82.3	77.3		6.28
	Microcystin LW	74.9	68.7	71.2		3.59
	Microcystin LY	80.8	73.4	67.1		9.01
	Microcystin RR	86.2	84.4	77.9		8.03
	Microcystin WR	90.5	86.3	79.4		8.44
	Microcystin YR	80.0	78.8	69.7		12.3
	Neosaxitoxin	88.3	69.8	69.6		0.279
	Nodularin-R	92.0	87.0	82.9		4.81
	Saxitoxin	91.9	74.3	79.4		6.64

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2447848
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2447849
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2447849
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2447849
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2447849
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2447850
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2447851
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2447851

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	10/31/2023			10/31/2023 13:36	Chandler E Cox	2447848
EPA 350.1 Rev. 2.0	10/31/2023			11/03/2023 11:22	Khloe J Berg	2447849
EPA 351.2 Rev. 2.0	10/31/2023	11/01/2023 13:22	Simonne.V. Calhoun	11/02/2023 15:15	Ping Hua	2447849
EPA 353.2 Rev. 2.0	10/31/2023			11/03/2023 14:06	Fadila Guebre	2447849
EPA 365.1 Rev. 2.0	10/31/2023	11/02/2023 09:55	Simonne.V. Calhoun	11/03/2023 14:09	Simonne.V. Calhoun	2447849
EPA 365.1 Rev. 2.0 dissolved	10/31/2023			10/31/2023 14:45	Elise M. Gillis	2447850
EPA 8321B	10/31/2023	11/02/2023 11:00	Tae K Lee	11/02/2023 12:59	Hana Lee	2447851
	10/31/2023	11/02/2023 11:00	Tae K Lee	11/02/2023 16:14	Hana Lee	2447851