

Chemical Analysis Report

SO-DIST-2024-06-27-01

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

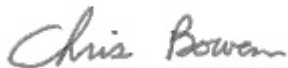
Event Description: **Algal Bloom Response - SOROC**
Request ID: **RQ-2024-04-22-59**
Customer: **SO-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 16-JUL-2024 09:40



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: Caloosahatchee River - Moody Canal at Del Prado Blvd

Collection Date/Time: 06/26/2024 12:00

Field ID: HAB-SD-0091				Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2497786	DEP SOP: NU-094-1	Color (true)	43		PCU	P447172	
2497787	EPA 350.1 Rev. 2.0	Ammonia-N	0.031		mg N/L	P447710	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P447396	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P447262	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P447352	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.076		mg P/L	P447180	
2497788	EPA 365.1 Rev. 2.0 dissolved						
2497789	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P447086	
		Cylindrospermopsin	0.10	U	ug/L	P447085	
		Desmethyl microcystin LR	0.25	U	ug/L	P447085	
		Microcystin HILR	0.25	U	ug/L	P447085	
		Microcystin HtyR	0.25	U	ug/L	P447085	
		Microcystin LA	0.10	U	ug/L	P447085	
		Microcystin LF	0.10	U	ug/L	P447085	
		Microcystin LR	0.25	U	ug/L	P447085	
		Microcystin LW	0.25	U	ug/L	P447085	
		Microcystin LY	0.10	U	ug/L	P447085	
		Microcystin RR	0.10	U	ug/L	P447085	
		Microcystin WR	0.50	U	ug/L	P447085	
		Neosaxitoxin	0.50	U	ug/L	P447086	
		Microcystin YR	0.25	U	ug/L	P447085	
		Saxitoxin	0.50	U	ug/L	P447086	
		Nodularin-R	0.10	U	ug/L	P447085	

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P447172

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447710

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447396

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447262

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447352

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447180

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

Reference Method: EPA 8321B
Batch ID: P447085

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: P447086

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: P447172

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447396

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447352

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: P447180

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

Reference Method: EPA 8321B
Batch ID: P447085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	92.4		P	40 - 160
Desmethyl microcystin LR	102		P	40 - 160
Microcystin H1LR	96.4		P	40 - 160
Microcystin HtyR	102		P	40 - 160
Microcystin LA	83.5		P	40 - 160
Microcystin LF	102		P	40 - 160
Microcystin LR	112		P	40 - 160
Microcystin LW	97.1		P	40 - 160
Microcystin LY	102		P	40 - 160
Microcystin RR	99.0		P	40 - 160
Microcystin WR	96.6		P	40 - 160
Microcystin YR	127		P	40 - 160
Nodularin-R	106		P	40 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P447086

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	113		P	40 - 150
Neosaxitoxin	117		P	40 - 150
Saxitoxin	112		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497724	Ammonia-N	92.6	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497779	Kjeldahl Nitrogen	91.1	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497787	NO2NO3-N	92.8	93.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447352

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497741	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447180

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497780	O-Phosphate-P	99.7	99.8	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P447085

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497682	Cylindrospermopsin	93.2	92.2	P/P	40 - 160
2497682	Desmethyl microcystin LR	95.5	95.6	P/P	40 - 160
2497682	Microcystin HiLR	101	103	P/P	40 - 160
2497682	Microcystin HtyR	105	108	P/P	40 - 160
2497682	Microcystin LA	83.2	84.3	P/P	40 - 160
2497682	Microcystin LF	101	108	P/P	40 - 160
2497682	Microcystin LR	110	110	P/P	40 - 160
2497682	Microcystin LW	92.8	110	P/P	40 - 160
2497682	Microcystin LY	106	107	P/P	40 - 160
2497682	Microcystin RR	99.1	103	P/P	40 - 160
2497682	Microcystin WR	95.3	94.7	P/P	40 - 160
2497682	Microcystin YR	127	125	P/P	40 - 160
2497682	Nodularin-R	107	110	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P447086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2497682	Anatoxin-a	117	120	P/P	40 - 150
2497682	Neosaxitoxin	85.0	83.4	P/P	40 - 150
2497682	Saxitoxin	89.4	90.1	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P447172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497691	Color (true)	2.40	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497724	Ammonia-N	2.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497779	Kjeldahl Nitrogen	4.86	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497787	NO2NO3-N	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447352

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497741	Total-P	1.86	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447180

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497780	O-Phosphate-P	0.100	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P447085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497682	Cylindrospermopsin	1.04	Spike	P	0 - 30
2497682	Desmethyl microcystin LR	0.0343	Spike	P	0 - 30
2497682	Microcystin HtIR	2.21	Spike	P	0 - 30
2497682	Microcystin HtyR	3.46	Spike	P	0 - 30
2497682	Microcystin LA	1.32	Spike	P	0 - 30
2497682	Microcystin LF	7.05	Spike	P	0 - 30
2497682	Microcystin LR	0.500	Spike	P	0 - 30
2497682	Microcystin LW	17.4	Spike	P	0 - 30
2497682	Microcystin LY	1.53	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P447085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497682	Microcystin RR	3.54	Spike	P	0 - 30
2497682	Microcystin WR	0.655	Spike	P	0 - 30
2497682	Microcystin YR	1.79	Spike	P	0 - 30
2497682	Nodularin-R	3.38	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P447086

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2497682	Anatoxin-a	2.07	Spike	P	0 - 30
2497682	Neosaxitoxin	1.94	Spike	P	0 - 30
2497682	Saxitoxin	0.791	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2497789
Field Sample ID: HAB-SD-0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	101	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	92.0	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A126352
Included Lab Sample IDs: 2497789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	137	134	P/P	50 - 160
Neosaxitoxin	119	116	P/P	50 - 160
Saxitoxin	126	124	P/P	50 - 160

Reference Method: EPA 8321B
Run ID: A126381
Included Lab Sample IDs: 2497789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	96.0	92.5	P/P	60 - 160
Desmethyl microcystin LR	105	102	P/P	60 - 160
Microcystin H1IR	102	101	P/P	60 - 160
Microcystin HtyR	107	108	P/P	60 - 160
Microcystin LA	83.4	85.0	P/P	50 - 160
Microcystin LF	107	111	P/P	50 - 160
Microcystin LR	110	113	P/P	60 - 160
Microcystin LW	109	120	P/P	60 - 160
Microcystin LY	108	107	P/P	60 - 160
Microcystin RR	105	102	P/P	60 - 160
Microcystin WR	100	97.3	P/P	60 - 160
Microcystin YR	134	123	P/P	60 - 160
Nodularin-R	112	112	P/P	60 - 160

Reference Method: DEP SOP: NU-094-1
Run ID: A126397
Included Lab Sample IDs: 2497786

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A126400
Included Lab Sample IDs: 2497788

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A126420
Included Lab Sample IDs: 2497787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	92.5	96.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A126516
Included Lab Sample IDs: 2497787

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A126568
Included Lab Sample IDs: 2497787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.2	95.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A126615
Included Lab Sample IDs: 2497787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	98.2	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	MS
					SMP	
DEP SOP: NU-094-1	Color (true)	97.7			2.40	
EPA 350.1 Rev. 2.0	Ammonia-N	94.2	92.6	95.2		2.50
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	91.1	99.4		4.86
EPA 353.2 Rev. 2.0	NO2NO3-N	96.0	92.8	93.8		1.03
EPA 365.1 Rev. 2.0	Total-P	102	102	104		1.86
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	99.7	99.8		0.100
EPA 8321B	Anatoxin-a	113	117	120		2.07
	Cylindrospermopsin	92.4	93.2	92.2		1.04
	Desmethyl microcystin LR	102	95.5	95.6		0.0343
	Microcystin HilR	96.4	101	103		2.21
	Microcystin HtyR	102	105	108		3.46
	Microcystin LA	83.5	83.2	84.3		1.32
	Microcystin LF	102	101	108		7.05
	Microcystin LR	112	110	110		0.500
	Microcystin LW	97.1	92.8	110		17.4
	Microcystin LY	102	106	107		1.53
	Microcystin RR	99.0	99.1	103		3.54
	Microcystin WR	96.6	95.3	94.7		0.655
	Microcystin YR	127	127	125		1.79
	Neosaxitoxin	117	85.0	83.4		1.94
	Nodularin-R	106	107	110		3.38
	Saxitoxin	112	89.4	90.1		0.791

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2497786
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2497787
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2497787
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2497787
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2497787
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2497788
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2497789
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2497789

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	06/27/2024			06/27/2024 13:10	Jessica K Wilks	2497786
EPA 350.1 Rev. 2.0	06/27/2024			07/11/2024 11:32	Khloe J Berg	2497787
EPA 351.2 Rev. 2.0	06/27/2024	07/03/2024 08:25	Simonne.V. Calhoun	07/10/2024 12:43	Ping Hua	2497787
EPA 353.2 Rev. 2.0	06/27/2024			06/28/2024 14:47	Fadila Guebre	2497787
EPA 365.1 Rev. 2.0	06/27/2024	07/02/2024 14:47	Josephine W Gitau	07/08/2024 10:53	James L Waggerby	2497787
EPA 365.1 Rev. 2.0 dissolved	06/27/2024			06/27/2024 14:58	Elise M. Gillis	2497788
EPA 8321B	06/27/2024	06/27/2024 12:00	Samatha Luckman	06/27/2024 18:40	Samatha Luckman	2497789
	06/27/2024	06/27/2024 12:00	Samatha Luckman	06/28/2024 00:29	Samatha Luckman	2497789