

Chemical Analysis Report

WQAP-2022-05-20-02

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

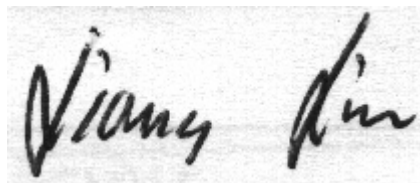
Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2022-03-14-19**
Customer: **WQAP**
Project ID: **BLOOM-RESP**

Send Reports to:
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3319 Maguire Blvd. Suite 232
Orlando, FL 32803
Attn: Matt Bearden

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 10-JUN-2022 10:16

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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 Dot - Fishing Pier

Collection Date/Time: 05/19/2022 14:53

Field ID: HABCE0125_LakeDot

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328645	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P414153	
		Cylindrospermopsin	0.10	U	ug/L	P414153	
		Desmethyl microcystin LR	0.25	U	ug/L	P414153	
		Microcystin HIR**	0.25	U	ug/L	P414153	
		Microcystin HtyR**	0.25	U	ug/L	P414153	
		Microcystin LA	0.10	U	ug/L	P414153	
		Microcystin LF	0.10	U	ug/L	P414153	
		Microcystin LR	0.29	I	ug/L	P414153	
		Microcystin LW	0.25	U	ug/L	P414153	
		Microcystin LY	0.10	U	ug/L	P414153	
		Microcystin RR	0.10	U	ug/L	P414153	
		Microcystin WR	0.50	U	ug/L	P414153	
		Microcystin YR	0.25	U	ug/L	P414153	
		Nodularin-R**	0.10	U	ug/L	P414153	
2328647	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P414449	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P414738	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414341	
	EPA 365.1 Rev. 2.0	Total-P	0.075		mg P/L	P414403	
2328649	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P414221	

Sample Location: Lake Mariam - SE Corner

Collection Date/Time: 05/19/2022 12:00

Field ID: HABCE0124_LakeMariam

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2328644	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P414153	
		Cylindrospermopsin	0.10	U	ug/L	P414153	
		Desmethyl microcystin LR	0.25	U	ug/L	P414153	
		Microcystin HIR**	0.25	U	ug/L	P414153	
		Microcystin HtyR**	0.25	U	ug/L	P414153	
		Microcystin LA	0.10	U	ug/L	P414153	
		Microcystin LF	0.10	U	ug/L	P414153	
		Microcystin LR	0.25	U	ug/L	P414153	
		Microcystin LW	0.25	U	ug/L	P414153	
		Microcystin LY	0.10	U	ug/L	P414153	
		Microcystin RR	0.10	U	ug/L	P414153	
		Microcystin WR	0.50	U	ug/L	P414153	
		Microcystin YR	0.25	U	ug/L	P414153	
		Nodularin-R**	0.10	U	ug/L	P414153	
2328646	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P414449	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P414738	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414341	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P414403	
2328648	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P414221	

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414449

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414738

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414341

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414403

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414221

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

Reference Method: EPA 8321B
Batch ID: P414153

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin HIR	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 Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414449

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414738

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414341

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.2		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P414153

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	82.1		P	40 - 150
Cylindrospermopsin	80.5		P	40 - 150
Desmethyl microcystin LR	81.8		P	40 - 150
Microcystin HIR	69.2		P	40 - 150
Microcystin HtyR	70.1		P	40 - 150
Microcystin LA	58.6		P	40 - 150
Microcystin LF	85.6		P	40 - 150
Microcystin LR	73.0		P	40 - 150
Microcystin LW	55.5		P	40 - 150
Microcystin LY	56.2		P	40 - 150
Microcystin RR	81.1		P	40 - 150
Microcystin WR	68.9		P	40 - 150
Microcystin YR	68.5		P	40 - 150
Nodularin-R	65.1		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P414449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328633	Ammonia-N	91.8	94.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P414738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328590	Kjeldahl Nitrogen	101	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P414341

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328632	NO2NO3-N	96.5	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P414403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328589	Total-P	102	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P414221

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328635	O-Phosphate-P	97.8	98.4	P/P	90 - 110

Reference Method: EPA 8321B

Batch ID: P414153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328629	Anatoxin-a	111	107	P/P	40 - 150
2328629	Cylindrospermopsin	81.5	82.7	P/P	40 - 150
2328629	Desmethyl microcystin LR	86.6	92.0	P/P	40 - 150
2328629	Microcystin HiLR	76.5	82.7	P/P	40 - 150
2328629	Microcystin HtyR	75.7	79.3	P/P	40 - 150
2328629	Microcystin LA	64.2	71.6	P/P	40 - 150
2328629	Microcystin LF	60.1	70.4	P/P	40 - 150
2328629	Microcystin LR	94.6	92.1	P/P	40 - 150
2328629	Microcystin LW	54.6	65.3	P/P	40 - 150
2328629	Microcystin LY	60.7	52.2	P/P	40 - 150
2328629	Microcystin RR	88.4	92.6	P/P	40 - 150
2328629	Microcystin WR	78.8	91.1	P/P	40 - 150
2328629	Microcystin YR	76.3	81.4	P/P	40 - 150
2328629	Nodularin-R	72.8	80.0	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P414449

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328633	Ammonia-N	2.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P414738

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328590	Kjeldahl Nitrogen	1.57	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P414341

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328632	NO2NO3-N	0.517	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P414403

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328589	Total-P	2.97	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P414221

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328635	O-Phosphate-P	0.423	Spike	P	0 - 20

Reference Method: EPA 8321B

Batch ID: P414153

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328629	Anatoxin-a	3.24	Spike	P	0 - 30
2328629	Cylindrospermopsin	1.47	Spike	P	0 - 30
2328629	Desmethyl microcystin LR	5.99	Spike	P	0 - 30
2328629	Microcystin H1LR	7.75	Spike	P	0 - 30
2328629	Microcystin HtyR	4.76	Spike	P	0 - 30
2328629	Microcystin LA	10.8	Spike	P	0 - 30
2328629	Microcystin LF	15.8	Spike	P	0 - 30
2328629	Microcystin LR	2.69	Spike	P	0 - 30
2328629	Microcystin LW	17.8	Spike	P	0 - 30
2328629	Microcystin LY	15.0	Spike	P	0 - 30
2328629	Microcystin RR	4.55	Spike	P	0 - 30
2328629	Microcystin WR	14.5	Spike	P	0 - 30
2328629	Microcystin YR	6.55	Spike	P	0 - 30
2328629	Nodularin-R	9.39	Spike	P	0 - 30

Quality Assurance Report Precision

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

Quality Assurance Report Surrogates

Lab Sample ID: 2328644

Field Sample ID: HABCE0124_LakeMariam

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	60.1	P	30 - 160

Lab Sample ID: 2328645

Field Sample ID: HABCE0125_LakeDot

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	69.6	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A112327

Included Lab Sample IDs: 2328648, 2328649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112387

Included Lab Sample IDs: 2328646, 2328647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A112405

Included Lab Sample IDs: 2328644, 2328645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	107	87.7	P/P	50 - 160
Cylindrospermopsin	101	82.0	P/P	50 - 160
Desmethyl microcystin LR	93.8	90.4	P/P	50 - 160
Microcystin HII R	84.3	80.5	P/P	50 - 160
Microcystin HtyR	87.6	84.3	P/P	50 - 160
Microcystin LA	90.8	69.1	P/P	50 - 160
Microcystin LF	64.4	115	P/P	50 - 160
Microcystin LR	94.6	89.4	P/P	50 - 160
Microcystin LW	83.4	74.8	P/P	50 - 160
Microcystin LY	77.9	61.6	P/P	50 - 160
Microcystin RR	106	92.1	P/P	50 - 160
Microcystin WR	100	82.4	P/P	50 - 160
Microcystin YR	85.5	81.5	P/P	50 - 160
Nodularin-R	81.9	75.9	P/P	50 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112440

Included Lab Sample IDs: 2328646, 2328647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112465

Included Lab Sample IDs: 2328646, 2328647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.0	P/P	90 - 110
Total-P	97.5	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112704

Included Lab Sample IDs: 2328646, 2328647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.7	94.4	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* 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	96.0	91.8	94.8			2.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	93.4	101	98.2			1.57
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	96.5	97.0			0.517
EPA 365.1 Rev. 2.0	Total-P	97.9	102	98.6			2.97
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.2	97.8	98.4			0.423
EPA 8321B	Anatoxin-a	82.1	111	107			3.24
	Cylindrospermopsin	80.5	81.5	82.7			1.47
	Desmethyl microcystin LR	81.8	86.6	92.0			5.99
	Microcystin HiLR	69.2	76.5	82.7			7.75
	Microcystin HtyR	70.1	75.7	79.3			4.76
	Microcystin LA	58.6	64.2	71.6			10.8
	Microcystin LF	85.6	60.1	70.4			15.8
	Microcystin LR	73.0	94.6	92.1			2.69
	Microcystin LW	55.5	54.6	65.3			17.8
	Microcystin LY	56.2	60.7	52.2			15.0
	Microcystin RR	81.1	88.4	92.6			4.55
	Microcystin WR	68.9	78.8	91.1			14.5
	Microcystin YR	68.5	76.3	81.4			6.55
	Nodularin-R	65.1	72.8	80.0			9.39

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2328646, 2328647
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2328646, 2328647
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2328646, 2328647
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2328646, 2328647
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2328648, 2328649
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2328644, 2328645

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	05/20/2022			05/26/2022 13:14	Ping Hua	2328646
	05/20/2022			05/26/2022 13:15	Ping Hua	2328647
EPA 351.2 Rev. 2.0	05/20/2022	06/08/2022 09:10	Samantha L Bates	06/09/2022 11:04	Alexandra J Mattheus	2328646
	05/20/2022	06/08/2022 09:10	Samantha L Bates	06/09/2022 11:12	Alexandra J Mattheus	2328647
EPA 353.2 Rev. 2.0	05/20/2022			05/24/2022 16:13	Nathaniel J Jones	2328646
	05/20/2022			05/24/2022 16:14	Nathaniel J Jones	2328647
EPA 365.1 Rev. 2.0	05/20/2022	05/26/2022 15:35	Simonne.V. Calhoun	05/27/2022 13:09	Sarah A Nixon	2328646
	05/20/2022	05/26/2022 15:35	Simonne.V. Calhoun	05/27/2022 13:12	Sarah A Nixon	2328647
EPA 365.1 Rev. 2.0 dissolved	05/20/2022			05/20/2022 18:25	Nathaniel J Jones	2328648
	05/20/2022			05/20/2022 18:26	Nathaniel J Jones	2328649
EPA 8321B	05/20/2022	05/25/2022 09:00	Manjita Shrestha	05/25/2022 16:03	Manjita Shrestha	2328644
	05/20/2022	05/25/2022 09:00	Manjita Shrestha	05/25/2022 16:20	Manjita Shrestha	2328645