

Chemical Analysis Report

SE-DIST-2024-02-27-03

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

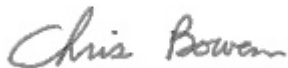
Event Description: **Algal Bloom Response - SE ROC**
Request ID: **RQ-2024-03-04-71**
Customer: **SE-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

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

Certified by: Chris Bowen, Environmental Administrator

Date Certified: 12-MAR-2024 09:45



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: St. Lucie River - North Carolina Drive Canal

Collection Date/Time: 02/26/2024 14:30

Field ID: SEHAB0107		Matrix: W-SURF-FRH						
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2472034	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P441975		
		Cylindrospermopsin	0.10	U	ug/L	P441974		
		Desmethyl microcystin LR	0.25	U	ug/L	P441974		
		Microcystin HllR	0.25	U	ug/L	P441974		
		Microcystin HtyR	0.25	U	ug/L	P441974		
		Microcystin LA	0.10	U	ug/L	P441974		
		Microcystin LF	0.10	U	ug/L	P441974		
		Microcystin LR	0.25	U	ug/L	P441974		
		Microcystin LW	0.25	U	ug/L	P441974		
		Microcystin LY	0.10	U	ug/L	P441974		
		Microcystin RR	0.10	U	ug/L	P441974		
		Microcystin WR	0.50	U	ug/L	P441974		
		Neosaxitoxin	0.50	U	ug/L	P441975		
		Microcystin YR	0.25	U	ug/L	P441974		
		Saxitoxin	0.50	U	ug/L	P441975		
		Nodularin-R	0.10	U	ug/L	P441974		

Sample Location: St. Lucie River - North Carolina Drive Canal

Collection Date/Time: 02/26/2024 14:30

Field ID: SEHAB0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2472031	DEP SOP: NU-094-1	Color (true)	67		PCU	P442014	
2472032	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P442153	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P442064	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.29		mg N/L	P442171	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P442140	
2472033	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.075		mg P/L	P442005	

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P442014

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442153

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442064

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442171

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442140

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

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

Reference Method: EPA 8321B
Batch ID: P441974

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H11R	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: P441975

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: P442014

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442153

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442064

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: P442171

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442140

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

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

Reference Method: EPA 8321B
Batch ID: P441974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	86.0		P	40 - 150
Desmethyl microcystin LR	85.7		P	40 - 150
Microcystin H1LR	81.5		P	40 - 150
Microcystin HtyR	79.3		P	40 - 150
Microcystin LA	84.6		P	40 - 150
Microcystin LF	81.4		P	40 - 150
Microcystin LR	83.5		P	40 - 150
Microcystin LW	83.4		P	40 - 150
Microcystin LY	82.5		P	40 - 150
Microcystin RR	76.6		P	40 - 150
Microcystin WR	78.3		P	40 - 150
Microcystin YR	74.8		P	40 - 150
Nodularin-R	81.0		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P441975

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	95.8		P	40 - 150
Neosaxitoxin	95.0		P	40 - 150
Saxitoxin	96.8		P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471961	Ammonia-N	99.2	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471983	Kjeldahl Nitrogen	105	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471933	NO2NO3-N	96.5	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442140

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2472021	Total-P	99.7	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471832	O-Phosphate-P	99.9	101	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P441974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471833	Cylindrospermopsin	94.2	85.3	P/P	40 - 150
2471833	Desmethyl microcystin LR	91.3	78.3	P/P	40 - 150
2471833	Microcystin HiLR	87.4	80.3	P/P	40 - 150
2471833	Microcystin HtyR	86.9	78.9	P/P	40 - 150
2471833	Microcystin LA	90.9	78.2	P/P	40 - 150
2471833	Microcystin LF	97.4	85.5	P/P	40 - 150
2471833	Microcystin LR	83.1	76.0	P/P	40 - 150
2471833	Microcystin LW	95.2	84.7	P/P	40 - 150
2471833	Microcystin LY	88.4	76.6	P/P	40 - 150
2471833	Microcystin RR	90.1	78.7	P/P	40 - 150
2471833	Microcystin WR	89.2	79.1	P/P	40 - 150
2471833	Microcystin YR	83.1	74.6	P/P	40 - 150
2471833	Nodularin-R	94.4	80.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471833	Anatoxin-a	83.5	79.3	P/P	40 - 150
2471833	Neosaxitoxin	67.9	64.6	P/P	40 - 150
2471833	Saxitoxin	76.8	70.6	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P442014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471960	Color (true)	15.7	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442153

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471961	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471983	Kjeldahl Nitrogen	1.94	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471933	NO2NO3-N	0.454	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2472021	Total-P	1.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471832	O-Phosphate-P	1.19	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P441974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471833	Cylindrospermopsin	10.0	Spike	P	0 - 30
2471833	Desmethyl microcystin LR	15.4	Spike	P	0 - 30
2471833	Microcystin HtIR	8.46	Spike	P	0 - 30
2471833	Microcystin HtyR	9.60	Spike	P	0 - 30
2471833	Microcystin LA	9.99	Spike	P	0 - 30
2471833	Microcystin LF	13.0	Spike	P	0 - 30
2471833	Microcystin LR	8.47	Spike	P	0 - 30
2471833	Microcystin LW	11.7	Spike	P	0 - 30
2471833	Microcystin LY	14.3	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P441974

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471833	Microcystin RR	13.2	Spike	P	0 - 30
2471833	Microcystin WR	12.0	Spike	P	0 - 30
2471833	Microcystin YR	10.7	Spike	P	0 - 30
2471833	Nodularin-R	16.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441975

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471833	Anatoxin-a	5.19	Spike	P	0 - 30
2471833	Neosaxitoxin	4.85	Spike	P	0 - 30
2471833	Saxitoxin	8.47	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2472034
Field Sample ID: SEHAB0107

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	63.2	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	106	P	30 - 160

Quality Assurance Report

Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A124412
Included Lab Sample IDs: 2472033

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.6	99.6	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A124418
Included Lab Sample IDs: 2472031

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.1	98.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124474
Included Lab Sample IDs: 2472032

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124483
Included Lab Sample IDs: 2472032

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124484
Included Lab Sample IDs: 2472034

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	98.1	98.0	P/P	50 - 160
Desmethyl microcystin LR	94.2	93.9	P/P	50 - 160
Microcystin HILR	94.6	90.2	P/P	50 - 160
Microcystin HtyR	92.0	91.7	P/P	50 - 160
Microcystin LA	95.0	100	P/P	50 - 160
Microcystin LF	98.1	102	P/P	50 - 160
Microcystin LR	96.2	101	P/P	50 - 160
Microcystin LW	97.2	101	P/P	50 - 160
Microcystin LY	96.8	95.4	P/P	50 - 160
Microcystin RR	92.4	91.1	P/P	50 - 160
Microcystin WR	93.5	89.4	P/P	50 - 160
Microcystin YR	89.4	86.7	P/P	50 - 160
Nodularin-R	93.6	98.8	P/P	50 - 160

Reference Method: EPA 8321B
Run ID: A124485
Included Lab Sample IDs: 2472034

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	94.5	87.6	P/P	50 - 160
Neosaxitoxin	105	98.0	P/P	50 - 160
Saxitoxin	103	100	P/P	50 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124501
Included Lab Sample IDs: 2472032

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124502
Included Lab Sample IDs: 2472032

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	100	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)	99.1			15.7	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	99.2	99.2		0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	105	102		1.94
EPA 353.2 Rev. 2.0	NO2NO3-N	102	96.5	97.0		0.454
EPA 365.1 Rev. 2.0	Total-P	95.6	99.7	98.3		1.41
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7	99.9	101		1.19
EPA 8321B	Anatoxin-a	95.8	83.5	79.3		5.19
	Cylindrospermopsin	86.0	94.2	85.3		10.0
	Desmethyl microcystin LR	85.7	91.3	78.3		15.4
	Microcystin HILR	81.5	87.4	80.3		8.46
	Microcystin HtyR	79.3	86.9	78.9		9.60
	Microcystin LA	84.6	90.9	78.2		9.99
	Microcystin LF	81.4	97.4	85.5		13.0
	Microcystin LR	83.5	83.1	76.0		8.47
	Microcystin LW	83.4	95.2	84.7		11.7
	Microcystin LY	82.5	88.4	76.6		14.3
	Microcystin RR	76.6	90.1	78.7		13.2
	Microcystin WR	78.3	89.2	79.1		12.0
	Microcystin YR	74.8	83.1	74.6		10.7
	Neosaxitoxin	95.0	67.9	64.6		4.85
	Nodularin-R	81.0	94.4	80.2		16.3
	Saxitoxin	96.8	76.8	70.6		8.47

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2472031
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2472032
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2472032
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2472032
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2472032
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2472033
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2472034
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2472034

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	02/27/2024			02/27/2024 14:36	Jessica K Wilks	2472031
EPA 350.1 Rev. 2.0	02/27/2024			02/29/2024 13:03	Kenneth H Lee	2472032
EPA 351.2 Rev. 2.0	02/27/2024	02/29/2024 12:10	Ping Hua	03/01/2024 11:39	Robyn Blevins	2472032
EPA 353.2 Rev. 2.0	02/27/2024			02/29/2024 13:57	Fadila Guebre	2472032
EPA 365.1 Rev. 2.0	02/27/2024	02/29/2024 14:14	Josephine W Gitau	03/01/2024 09:41	Elise M. Gillis	2472032
EPA 365.1 Rev. 2.0 dissolved	02/27/2024			02/27/2024 13:39	Victoria Ocasio-Reed	2472033
EPA 8321B	02/27/2024	02/29/2024 12:00	Tae K Lee	02/29/2024 13:19	Tae K Lee	2472034
	02/27/2024	02/29/2024 12:00	Tae K Lee	02/29/2024 19:30	Tae K Lee	2472034