

Chemical Analysis Report

NW-DIST-2016-06-21-02

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

Event Description: **Bayou Chico BMAP**

Request ID: **RQ-2016-05-16-15**

Customer: **NW-DIST**

Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 308
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 12-JUL-2016 14:04



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 group are included in this report: Nutrients.

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 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: Sander's Beach

Collection Date/Time: 06/20/2016 10:40

Field ID: F

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809570	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P306570	
1809577	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P306889	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39	I	mg N/L	P306603	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P306742	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P306664	

Sample Location: Mandaloy

Collection Date/Time: 06/20/2016 11:10

Field ID: E

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809571	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P306570	
1809578	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P306889	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.54		mg N/L	P306603	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P306742	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P306664	

Sample Location: Jones at Old Corry

Collection Date/Time: 06/20/2016 11:45

Field ID: D

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809572	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P306570	
1809579	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P307085	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P306604	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P306832	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P306661	

Ref. Method and Comment:

EPA 350.1 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: Jackson at Old Corry

Collection Date/Time: 06/20/2016 12:20

Field ID: A

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809573	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P306570	
1809580	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P307085	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24		mg N/L	P306604	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.8		mg N/L	P306832	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P306661	

Ref. Method and Comment:

EPA 350.1 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: Jackson at New Warrington

Collection Date/Time: 06/20/2016 12:40

Field ID: G

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809574	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P306570	

Field ID: G

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809581	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P307085	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P306604	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.5		mg N/L	P306832	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P306661	

Ref. Method and Comment:

EPA 350.1 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Matrix spike recovery data is unavailable due to high analyte concentration in the QC sample.

Sample Location: Bayou Chico at Navy

Collection Date/Time: 06/20/2016 14:00

Field ID: C

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809575	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P306570	
1809582	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P306889	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47		mg N/L	P306603	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.62		mg N/L	P306742	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P306664	

Sample Location: Bayou Chico at "W" St.

Collection Date/Time: 06/20/2016 14:25

Field ID: B

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1809576	EPA 180.1 Rev. 2.0	Turbidity	3.5	A	NTU	P306571	
1809583	EPA 350.1 Rev. 2.0	Ammonia-N	0.088		mg N/L	P306889	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P306603	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.57		mg N/L	P306742	
	EPA 365.1 Rev. 2.0	Total-P	0.039		mg P/L	P306664	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P306570

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P306571

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P306889

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P307085

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306603

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306604

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P306742

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P306832

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P306661

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P306664

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P306889

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P307085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P307085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	92.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306603

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306604

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: P306742

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P306832

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P306661

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P306664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.0		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P306889

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1807765	Ammonia-N	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P306603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1809577	Kjeldahl Nitrogen	102	93.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P306742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1809434	NO2NO3-N	101	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P306832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1809579	NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P306661

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1809580	Total-P	95.4	95.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P306664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1809577	Total-P	95.8	95.4	P/P	90 - 110

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P306570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809529	Turbidity	3.60	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P306571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809576	Turbidity	0.866	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P306889

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1807765	Ammonia-N	0.602	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P307085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809579	Ammonia-N	0.865	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P306603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809577	Kjeldahl Nitrogen	7.07	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P306604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809500	Kjeldahl Nitrogen	3.26	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P306742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809434	NO2NO3-N	1.43	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P306832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809579	NO2NO3-N	0.667	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P306661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809580	Total-P	0.0748	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P306664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1809577	Total-P	0.459	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
 Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A70148

Included Lab Sample IDs: 1809570, 1809571, 1809572, 1809573, 1809574, 1809575, 1809576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105
Turbidity	99.0	101	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A70190

Included Lab Sample IDs: 1809577, 1809578, 1809582, 1809583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A70200

Included Lab Sample IDs: 1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	100	P/P	90 - 110
Total-P	100	99.8	P/P	90 - 110
Total-P	99.2	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A70202

Included Lab Sample IDs: 1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	108	P/P	90 - 110
Kjeldahl Nitrogen	108	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A70213

Included Lab Sample IDs: 1809579, 1809580, 1809581

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A70237

Included Lab Sample IDs: 1809577, 1809578, 1809582, 1809583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A70306

Included Lab Sample IDs: 1809579, 1809580, 1809581

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.0	96.1	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	
						SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					3.60	
	Turbidity					0.866	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	102	101			0.602
	Ammonia-N	92.4					0.865
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	102	93.7			7.07
	Kjeldahl Nitrogen	103					3.26
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	101	103			1.43
	NO ₂ NO ₃ -N	100	99.0	100			0.667
EPA 365.1 Rev. 2.0	Total-P	97.0	95.4	95.4			0.0748
	Total-P	97.0	95.8	95.4			0.459

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1809570, 1809571, 1809572, 1809573, 1809574, 1809575, 1809576
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	06/21/2016			06/21/2016 15:30	Sima Feizi	1809570, 1809571, 1809572, 1809573, 1809574, 1809575, 1809576
EPA 350.1 Rev. 2.0	06/21/2016			06/24/2016	Diana M. Turner	1809577, 1809578, 1809582, 1809583
	06/21/2016			06/29/2016	Diana M. Turner	1809579, 1809580, 1809581
EPA 351.2 Rev. 2.0	06/21/2016	06/22/2016	Sofia Elnemr	06/23/2016	Christopher Armour	1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583
EPA 353.2 Rev. 2.0	06/21/2016			06/23/2016	Peter D. Kaus	1809577, 1809578, 1809582, 1809583
	06/21/2016			06/24/2016	Virginia P. Brown	1809579, 1809580, 1809581
EPA 365.1 Rev. 2.0	06/21/2016	06/22/2016	Vijayalakshmi Reddy	06/23/2016	Lipi Saha	1809577, 1809578, 1809579, 1809580, 1809581, 1809582, 1809583