

Chemical Analysis Report

CEN-DIST-2023-12-08-01

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

Event Description: **Jackson Canal - SCI**
Request ID: **RQ-2023-11-20-10**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Colin Wright, Program Administrator

Date Certified: 05-JAN-2024 09:37

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular 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: Metals, 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: JACKSON CANAL AT 1400 METERS
DOWNSTREAM OF CONTROL STRUCTURE**

Collection Date/Time: 12/07/2023 10:52

Field ID: G4CE0246

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455593	DEP SOP: NU-094-1	Color (true)	170		PCU	P438721	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P438725	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P439034	
		Sulfate	0.80		mg SO4/L	P439140	
	SM 2320 B-2011	Total Alkalinity	24		mg CaCO3/L	P438822	
	SM 2540 C-2015	TDS	96		mg/L	P439247	
	SM 2540 D-2015	TSS	4	I	mg/L	P439287	
2455594	SM 4500-F- C-2011	Fluoride	0.095	I	mg F/L	P438825	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P438984	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P438760	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P438889	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P438870	
2455595	SM 5310 B-2014	Organic Carbon	23		mg C/L	P438781	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P438718	
2455615	EPA 8321B	2,4-D	0.0064	I	ug/L	P438805	
		Acesulfame K	0.10	U	ug/L	P438670	
		2,4,5-T	0.0040	U	ug/L	P438805	
		AMPA	0.10	U	ug/L	P438670	
		Acetaminophen	0.0080	U	ug/L	P438805	
		Acetamiprid	0.0020	U	ug/L	P438805	
		Endothall	0.25	U	ug/L	P438670	
		Glufosinate	0.10	U	ug/L	P438670	
		Glyphosate	0.10	U	ug/L	P438670	
		Afidopyropen	0.0020	U	ug/L	P438805	
		Bentazon	8.0E-04	U	ug/L	P438805	
		Sucralose	0.010	I	ug/L	P438670	
		Benzovindiflupyr	0.0020	U	ug/L	P438805	
		Carbamazepine	8.0E-04	U	ug/L	P438805	
		Clothianidin	0.0020	U	ug/L	P438805	
		Dinotefuran	0.0020	U	ug/L	P438805	
		Diuron	0.0020	U	ug/L	P438805	
		Fenuron	0.032	U	ug/L	P438805	
		Fluridone	0.0013	I	ug/L	P438805	
		Imazapyr	0.028		ug/L	P438805	
		Hydrocodone	0.0020	U	ug/L	P438805	
		Ibuprofen	0.080	U	ug/L	P438805	
		Imidacloprid	0.0020	U	ug/L	P438805	
		Linuron	0.0040	U	ug/L	P438805	
		Mandestrobin	0.0020	U	ug/L	P438805	
		MCP	0.0020	U	ug/L	P438805	
		Naproxen	0.0080	U	ug/L	P438805	
		Primidone	0.0040	U	ug/L	P438805	

Field ID: G4CE0246

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455615	EPA 8321B	Pyraclostrobin	0.0020	U	ug/L	P438805	
		Silvex	0.0040	U	ug/L	P438805	
		Thiamethoxam	0.0020	U	ug/L	P438805	
		Tolfenpyrad	0.0020	U	ug/L	P438805	
		Triclopyr	0.0040	U	ug/L	P438805	
2455616	EPA 200.7 Rev. 4.4	Calcium	10.7		mg/L	P438801	
		Iron	660		ug/L	P438801	
		Magnesium	2.81		mg/L	P438801	
		Potassium	0.89	I	mg/L	P438801	
		Sodium	12.4		mg/L	P438801	
		Strontium	61.9		ug/L	P438801	
		Tin	3.0	U	ug/L	P438801	
		Titanium	0.75	U	ug/L	P438801	
		Vanadium	2.0	U	ug/L	P438801	
		Zinc	5.0	U	ug/L	P438801	
	EPA 200.8 Rev. 5.4	Aluminum	62		ug/L	P438801	
		Antimony	0.050	U	ug/L	P438801	
		Arsenic	0.47		ug/L	P438801	
		Barium	8.69		ug/L	P438801	
		Beryllium	0.010	U	ug/L	P438801	
		Boron	26.8		ug/L	P438801	
		Cadmium	0.020	U	ug/L	P438801	
		Chromium	0.40	U	ug/L	P438801	
		Cobalt	0.138		ug/L	P438801	
		Copper	0.40	U	ug/L	P438801	
		Lead	0.20	U	ug/L	P438801	
		Manganese	9.52		ug/L	P438801	
		Molybdenum	0.15	U	ug/L	P438801	
		Nickel	0.50	U	ug/L	P438801	
		Selenium	0.20	U	ug/L	P438801	
		Silver	0.010	U	ug/L	P438801	
		Thallium	0.10	U	ug/L	P438801	
		Hardness	38.2		mg/L	P438801	
2455623	SM 2340 B-2011	Oxybenzone**	11	UJ	ng/L	P438700	RPD
	EPA 8270E	Acetochlor	0.21	U	ng/L	P438700	
		Octinoxate**	160	UJ	ng/L	P438700	RPD
		Alachlor	0.42	U	ng/L	P438700	
		Avobenzone**	110	U	ng/L	P438700	
		Ametryn	1.2	U	ng/L	P438700	
		Atrazine	1.5		ng/L	P438700	
		PBDE-47**	4.2	UJ	ng/L	P438700	RPD
		Atrazine Desethyl	1.4	U	ng/L	P438700	
		PBDE-99**	5.3	U	ng/L	P438700	
		Azinphos Methyl	3.2	U	ng/L	P438700	
		Tri-o-cresyl Phosphate**	6.4	UJ	ng/L	P438700	RPD

Field ID: G4CE0246

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455623	EPA 8270E	Azoxystrobin	0.42	U	ng/L	P438700	
		Bromacil	0.64	U	ng/L	P438700	
		2-Ethylhexyl	13	U	ng/L	P438700	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.48	U	ng/L	P438700	
		Dechlorane Plus**	32	UJ	ng/L	P438700	RPD
		Caffeine**	8.0	U	ng/L	P438700	
		Dechlorane 602**	5.3	UJ	ng/L	P438700	RPD
		Carbophenothion	0.53	UJ	ng/L	P438700	LCS
		Dechlorane 603**	4.2	UJ	ng/L	P438700	RPD
		Carfentrazone Ethyl	0.16	U	ng/L	P438700	
		Hexabromobenzene**	6.4	U	ng/L	P438700	
		Chlorfenapyr	0.32	U	ng/L	P438700	
		PBB-153**	6.4	U	ng/L	P438700	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P438700	
		Pentabromotoluene**	3.2	UJ	ng/L	P438700	RPD
		Chlorpyrifos Methyl	0.11	UJ	ng/L	P438700	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P438700	
		Coumaphos	1.1	U	ng/L	P438700	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	120		ng/L	P438700	
		Cyanazine	5.3	U	ng/L	P438700	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P438700	
		Cyprodinil	0.21	U	ng/L	P438700	
		Tetradecachloro-m-terphenyl**	8.0	UJ	ng/L	P438700	RPD
		Demeton	3.7	U	ng/L	P438700	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	64	UJ	ng/L	P438700	MS, RPD
		Diazinon	0.13	U	ng/L	P438700	
		Difenoconazole	0.64	UJ	ng/L	P438700	MS
		Dimethenamid	0.11	U	ng/L	P438700	
		Dimethomorph	0.32	U	ng/L	P438700	
		Disulfoton	0.64	U	ng/L	P438700	
		Dithiopyr	1.1	U	ng/L	P438700	
		EPTC	0.53	U	ng/L	P438700	
		Ethion	0.32	U	ng/L	P438700	
		Ethoprop	0.13	U	ng/L	P438700	
		Etridiazole	0.11	U	ng/L	P438700	
		Fenamiphos	0.48	U	ng/L	P438700	
		Fenbuconazole	0.53	UJ	ng/L	P438700	MS, RPD
		Fipronil	0.21	U	ng/L	P438700	
		Fipronil Desulfinyl**	0.11	U	ng/L	P438700	
		Fipronil Sulfide	0.11	U	ng/L	P438700	
		Fipronil Sulfone	0.11	U	ng/L	P438700	
		Fluazifop-P-butyl	0.11	U	ng/L	P438700	
		Fludioxonil	0.11	U	ng/L	P438700	

Field ID: G4CE0246

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455623	EPA 8270E	Flumioxazin	6.6	I	ng/L	P438700	
		Flutolanil	0.11	U	ng/L	P438700	
		Fluxapyroxad	0.27	U	ng/L	P438700	
		Fonofos	0.16	U	ng/L	P438700	
		Hexazinone	5.7		ng/L	P438700	
		Imazalil	0.69	U	ng/L	P438700	
		Iprodione	0.53	UJ	ng/L	P438700	CCV
		Loratadine**	0.32	U	ng/L	P438700	
		Malathion	0.37	U	ng/L	P438700	
		Metalaxyl	0.53	U	ng/L	P438700	
		Metolachlor	0.80	U	ng/L	P438700	
		Metribuzin	0.42	U	ng/L	P438700	
		Mevinphos	1.1	U	ng/L	P438700	
		Molinate	0.27	U	ng/L	P438700	
		Myclobutanil	0.37	U	ng/L	P438700	
		Naled	2.7	U	ng/L	P438700	
		Napropamide	0.74	U	ng/L	P438700	
		Norflurazon	1.1	U	ng/L	P438700	
		Oxadiazon	0.37	U	ng/L	P438700	
		Oxyfluorfen	0.21	U	ng/L	P438700	
		Parathion Ethyl	0.16	U	ng/L	P438700	
		Parathion Methyl	0.21	U	ng/L	P438700	
		Pendimethalin	1.8	UJ	ng/L	P438700	MS
		Phenytol**	5.6	U	ng/L	P438700	
		Phorate	0.27	U	ng/L	P438700	
		Prodiamine	0.21	U	ng/L	P438700	
		Prometon	3.2	U	ng/L	P438700	
		Prometryn	0.37	U	ng/L	P438700	
		Pronamide	0.11	U	ng/L	P438700	
		Propanil	0.11	U	ng/L	P438700	
		Propargite	0.85	U	ng/L	P438700	
		Propiconazole	0.64	U	ng/L	P438700	
		Pyraflufen Ethyl	0.32	U	ng/L	P438700	
		Pyridaben	1.5	U	ng/L	P438700	
		Pyriproxyfen	0.27	U	ng/L	P438700	
		Simazine	0.27	U	ng/L	P438700	
		Stirophos	0.42	U	ng/L	P438700	
		Sulfentrazone	1.5	U	ng/L	P438700	
		Tebuconazole	1.5	U	ng/L	P438700	
		Terbufos	0.21	U	ng/L	P438700	
		Terbuthylazine	0.21	U	ng/L	P438700	
		Thiobencarb	0.53	U	ng/L	P438700	
		Triadimefon	0.16	U	ng/L	P438700	

Field ID: G4CE0246

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438721

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438725

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438801

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438801

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439034

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439140

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438984

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438760

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438889

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438870

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438718

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

Reference Method: EPA 8270E
Batch ID: P438700

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438700

Component	Result	Code	Units
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438700

Component	Result	Code	Units
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8321B

Batch ID: P438670

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P438805

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P438805

Component	Result	Code	Units
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P438822

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2015

Batch ID: P439247

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P439287

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P438825

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014

Batch ID: P438781

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P438721

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438725

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438801

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	102		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	101		P	85 - 115
Sodium	101		P	85 - 115
Strontium	103		P	85 - 115
Tin	102		P	85 - 115
Titanium	100		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438801

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	101		P	85 - 115
Barium	101		P	85 - 115
Beryllium	92.5		P	85 - 115
Boron	104		P	85 - 115
Cadmium	99.0		P	85 - 115
Chromium	112		P	85 - 115
Cobalt	100		P	85 - 115
Copper	101		P	85 - 115
Lead	102		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	99.9		P	85 - 115
Nickel	103		P	85 - 115
Selenium	100		P	85 - 115
Silver	103		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439034

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439140

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438984

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438760

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438889

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438870

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438718

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

Reference Method: EPA 8270E
Batch ID: P438700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	66.5		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.9		P	37 - 154
Acetochlor	108		P	64 - 124
Alachlor	84.2		P	61 - 118
Ametryn	101		P	47 - 158
Atrazine	101		P	68 - 121
Atrazine Desethyl	103		P	30 - 119
Avobenzone	107		P	48 - 193
Azinphos Methyl	140		P	30 - 194
Azoxystrobin	106		P	58 - 154
Bromacil	105		P	47 - 126
Butylate	63.6		P	31 - 83.0
Caffeine	113		P	10 - 180
Carbophenothion	156		F	59 - 133
Carfentrazone Ethyl	140		P	59 - 147
Chlorfenapyr	108		P	52 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	107		P	59 - 119
Chlorpyrifos Methyl	141		F	65 - 123
Coumaphos	160		P	11 - 223
Cyanazine	107		P	63 - 250
Cyprodinil	126		P	52 - 143
Dechlorane 602	57.2		P	23 - 142
Dechlorane 603	128		P	51 - 171
Dechlorane Plus	107		P	46 - 161
Demeton	64.8		P	42 - 119
Diazinon	119		P	67 - 132
Difenoconazole	101		P	12 - 204
Dimethenamid	98.2		P	53 - 113
Dimethomorph	147		P	13 - 238
Disulfoton	116		P	56 - 126
Dithiopyr	91.0		P	58 - 127
EPTC	56.9		P	31 - 78.0
Ethion	70.1		P	24 - 127
Ethoprop	91.6		P	60 - 118
Etridiazole	83.5		P	32 - 91.0
Fenamiphos	112		P	54 - 129
Fenbuconazole	70.2		P	31 - 162
Fipronil	96.9		P	56 - 131
Fipronil Desulfinyl	79.1		P	58 - 132
Fipronil Sulfide	112		P	51 - 123
Fipronil Sulfone	113		P	50 - 125
Fluazifop-P-butyl	131		P	52 - 132
Fludioxonil	92.3		P	52 - 129
Flumioxazin	126		P	34 - 250
Flutolanil	119		P	45 - 128
Fluxapyroxad	108		P	31 - 150
Fonofos	90.1		P	60 - 116
Hexabromobenzene	91.7		P	52 - 165
Hexazinone	80.1		P	59 - 120
Imazalil	108		P	39 - 134
Iprodione	113		P	39 - 243
Loratadine	146		P	10 - 240
Malathion	128		P	53 - 145
Metalaxyl	78.6		P	59 - 120
Metolachlor	114		P	64 - 122
Metribuzin	96.1		P	33 - 128
Mevinphos	104		P	48 - 119
Molinate	67.1		P	42 - 89.0
Myclobutanil	99.2		P	54 - 129
Naled	50.5		P	10 - 138
Napropamide	86.0		P	40 - 122
Norflurazon	108		P	49 - 132
Octinoxate	113		P	29 - 176
Oxadiazon	96.7		P	50 - 115
Oxybenzone	112		P	45 - 145
Oxyfluorfen	129		P	62 - 149
Parathion Ethyl	85.2		P	68 - 119
Parathion Methyl	96.7		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P438700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	89.6		P	42 - 179
PBDE-47	92.7		P	44 - 141
PBDE-99	95.3		P	36 - 141
Pendimethalin	121		P	59 - 158
Pentabromotoluene	97.4		P	58 - 148
Phenytoin	30.1		P	10 - 151
Phorate	84.8		P	44 - 124
Prodiamine	114		P	10 - 136
Prometon	79.6		P	45 - 131
Prometryn	137		P	52 - 140
Pronamide	122		P	70 - 129
Propanil	113		P	54 - 144
Propargite	80.1		P	10 - 191
Propiconazole	86.8		P	49 - 128
Pyraflufen Ethyl	136		P	46 - 141
Pyridaben	36.3		P	29 - 198
Pyriproxyfen	72.8		P	33 - 221
Simazine	98.3		P	62 - 119
Stirophos	113		P	13 - 144
Sulfentrazone	104		P	12 - 152
Tebuconazole	52.3		P	10 - 135
Terbufos	94.1		P	67 - 136
Terbuthylazine	90.5		P	66 - 113
Tetradecachloro-m-terphenyl	165		P	30 - 235
Thiobencarb	107		P	51 - 125
Tri-o-cresyl Phosphate	115		P	50 - 150
Triadimefon	104		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	97.3		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.0		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	93.8		P	59 - 166

Reference Method: EPA 8321B
Batch ID: P438670

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	121		P	40 - 150
AMPA	78.7		P	40 - 160
Endothall	51.1		P	40 - 160
Glufosinate	73.4		P	40 - 160
Glyphosate	73.6		P	40 - 160
Sucralose	103		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	110		P	40 - 150
2,4,5-T	116		P	40 - 150
Acetaminophen	74.5		P	30 - 150
Acetamiprid	79.8		P	40 - 150
Afidopyropen	74.2		P	30 - 150
Bentazon	59.1		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P438805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	81.3		P	40 - 150
Carbamazepine	64.9		P	40 - 150
Clothianidin	88.1		P	40 - 150
Dinotefuran	100		P	40 - 150
Diuron	65.6		P	40 - 150
Fenuron	93.7		P	40 - 150
Fluridone	78.1		P	40 - 150
Hydrocodone	94.9		P	40 - 150
Ibuprofen	65.6		P	40 - 150
Imazapyr	88.7		P	40 - 150
Imidacloprid	88.3		P	40 - 150
Linuron	62.9		P	40 - 150
Mandestrobin	88.3		P	40 - 150
MCPP	97.9		P	40 - 150
Naproxen	52.6		P	40 - 150
Primidone	85.6		P	40 - 150
Pyraclostrobin	72.1		P	40 - 150
Silvex	88.6		P	40 - 150
Thiamethoxam	87.0		P	40 - 150
Tolfenpyrad	45.2		P	30 - 150
Triclopyr	121		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P438822

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.7		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P439247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.4		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P439287

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P438825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	94 - 106

Reference Method: SM 5310 B-2014

Batch ID: P438781

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P438801

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455552	Calcium	101	101	P/P	80 - 120
2455552	Iron	102	102	P/P	80 - 120
2455552	Magnesium	102	102	P/P	80 - 120
2455552	Potassium	102	101	P/P	80 - 120
2455552	Sodium	102		P	80 - 120
2455552	Strontium	102	102	P/P	80 - 120
2455552	Tin	102	103	P/P	80 - 120
2455552	Titanium	96.9	95.6	P/P	80 - 120
2455552	Vanadium	101	101	P/P	80 - 120
2455552	Zinc	103	104	P/P	80 - 120
2455734	Calcium	101		P	80 - 120
2455734	Iron	100		P	80 - 120
2455734	Magnesium	102		P	80 - 120
2455734	Potassium	101		P	80 - 120
2455734	Sodium	103		P	80 - 120
2455734	Strontium	97.1		P	80 - 120
2455734	Tin	99.8		P	80 - 120
2455734	Titanium	99.4		P	80 - 120
2455734	Vanadium	101		P	80 - 120
2455734	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P438801

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455552	Aluminum	99.2	100	P/P	80 - 120
2455552	Antimony	103	104	P/P	80 - 120
2455552	Arsenic	101	101	P/P	80 - 120
2455552	Barium	101	102	P/P	80 - 120
2455552	Beryllium	94.3	91.7	P/P	80 - 120
2455552	Boron	102	104	P/P	80 - 120
2455552	Cadmium	101	102	P/P	80 - 120
2455552	Chromium	99.2	96.7	P/P	80 - 120
2455552	Cobalt	98.7	98.9	P/P	80 - 120
2455552	Copper	98.9	99.5	P/P	80 - 120
2455552	Lead	102	103	P/P	80 - 120
2455552	Manganese	98.2	103	P/P	80 - 120
2455552	Molybdenum	100	101	P/P	80 - 120
2455552	Nickel	97.4	96.9	P/P	80 - 120
2455552	Selenium	100	100	P/P	80 - 120
2455552	Silver	101	102	P/P	80 - 120
2455552	Thallium	102	103	P/P	80 - 120
2455734	Aluminum	99.8		P	80 - 120
2455734	Antimony	103		P	80 - 120
2455734	Arsenic	100		P	80 - 120
2455734	Barium	101		P	80 - 120
2455734	Beryllium	93.6		P	80 - 120
2455734	Boron	103		P	80 - 120
2455734	Cadmium	98.8		P	80 - 120
2455734	Chromium	101		P	80 - 120
2455734	Cobalt	98.4		P	80 - 120
2455734	Copper	99.1		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P438801

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455734	Lead	102		P	80 - 120
2455734	Manganese	98.7		P	80 - 120
2455734	Molybdenum	99.3		P	80 - 120
2455734	Nickel	97.5		P	80 - 120
2455734	Selenium	99.2		P	80 - 120
2455734	Silver	102		P	80 - 120
2455734	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P439034

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455515	Chloride	103		P	90 - 110
2455627	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P439140

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455515	Sulfate	103		P	90 - 110
2455627	Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P438984

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455517	Ammonia-N	98.4	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P438760

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455405	Kjeldahl Nitrogen	103	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P438889

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455594	NO2NO3-N	96.5	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P438718

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455674	O-Phosphate-P	97.2	97.7	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P438700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455623	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	69.6	49.3	P/F	50 - 150
2455623	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.7	54.1	P/P	29 - 155

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P438700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455623	Acetochlor	98.2	93.2	P/P	60 - 124
2455623	Alachlor	75.5	77.9	P/P	54 - 122
2455623	Ametryn	135	111	P/P	51 - 208
2455623	Atrazine	105	109	P/P	57 - 131
2455623	Atrazine Desethyl	104	107	P/P	13 - 124
2455623	Avobenzone	64.7	54.2	P/P	35 - 187
2455623	Azinphos Methyl	103	130	P/P	43 - 276
2455623	Azoxystrobin	79.9	118	P/P	52 - 300
2455623	Bromacil	87.5	90.4	P/P	44 - 134
2455623	Butylate	72.4	70.0	P/P	23 - 82.0
2455623	Caffeine	142	138	P/P	10 - 277
2455623	Carbophenothion	105	87.6	P/P	47 - 135
2455623	Carfentrazone Ethyl	90.3	78.5	P/P	46 - 147
2455623	Chlorfenapyr	72.5	89.9	P/P	43 - 114
2455623	Chlorpyrifos Ethyl	117	112	P/P	47 - 124
2455623	Chlorpyrifos Methyl	111	107	P/P	60 - 135
2455623	Coumaphos	86.8	98.3	P/P	10 - 222
2455623	Cyanazine	102	105	P/P	10 - 257
2455623	Cyprodinil	111	120	P/P	42 - 148
2455623	Dechlorane 602	53.8	28.1	P/P	14 - 133
2455623	Dechlorane 603	111	48.8	P/P	18 - 191
2455623	Dechlorane Plus	84.7	52.3	P/P	23 - 154
2455623	Demeton	60.7	62.5	P/P	41 - 137
2455623	Diazinon	129	123	P/P	64 - 139
2455623	Difenoconazole	45.5	58.9	F/P	46 - 254
2455623	Dimethenamid	75.4	71.4	P/P	47 - 117
2455623	Dimethomorph	105	168	P/P	14 - 255
2455623	Disulfoton	112	120	P/P	52 - 130
2455623	Dithiopyr	114	117	P/P	40 - 121
2455623	EPTC	66.0	65.5	P/P	19 - 78.0
2455623	Ethion	74.4	35.1	P/P	12 - 124
2455623	Ethoprop	96.2	104	P/P	68 - 144
2455623	Etridiazole	77.7	65.6	P/P	26 - 96.0
2455623	Fenamiphos	80.2	84.3	P/P	41 - 129
2455623	Fenbuconazole	21.9	76.5	F/P	26 - 169
2455623	Fipronil	114	101	P/P	46 - 145
2455623	Fipronil Desulfinyl	94.7	75.2	P/P	47 - 136
2455623	Fipronil Sulfide	94.7	80.8	P/P	41 - 127
2455623	Fipronil Sulfone	124	90.5	P/P	35 - 133
2455623	Fluazifop-P-butyl	100	76.2	P/P	46 - 131
2455623	Fludioxonil	68.3	81.8	P/P	51 - 124
2455623	Flumioxazin	48.2	79.5	P/P	10 - 289
2455623	Flutolanil	78.8	102	P/P	34 - 130
2455623	Fluxapyroxad	71.3	50.0	P/P	10 - 197
2455623	Fonofos	101	101	P/P	42 - 131
2455623	Hexabromobenzene	77.9	59.2	P/P	47 - 178
2455623	Hexazinone	96.9	91.3	P/P	64 - 125
2455623	Imazalil	75.5	105	P/P	37 - 252
2455623	Iprodione	66.6	69.4	P/P	34 - 265
2455623	Loratadine	87.6	144	P/P	20 - 231
2455623	Malathion	93.3	132	P/P	34 - 164
2455623	Metalaxyl	107	96.8	P/P	49 - 125

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438700

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455623	Metolachlor	113	119	P/P	54 - 125
2455623	Metribuzin	82.8	137	P/P	51 - 139
2455623	Mevinphos	92.4	99.2	P/P	46 - 130
2455623	Molinate	71.6	74.4	P/P	39 - 93.0
2455623	Myclobutanil	84.2	66.1	P/P	50 - 130
2455623	Naled	49.2	46.4	P/P	10 - 150
2455623	Napropamide	71.3	35.9	P/P	10 - 109
2455623	Norflurazon	68.3	75.2	P/P	36 - 134
2455623	Octinoxate	158	93.6	P/P	18 - 170
2455623	Oxadiazon	75.7	76.9	P/P	43 - 112
2455623	Oxybenzone	149	68.0	P/P	33 - 154
2455623	Oxyfluorfen	98.4	90.4	P/P	62 - 154
2455623	Parathion Ethyl	89.6	95.9	P/P	65 - 120
2455623	Parathion Methyl	83.9	103	P/P	77 - 185
2455623	PBB-153	53.4	51.1	P/P	23 - 193
2455623	PBDE-47	111	54.8	P/P	31 - 139
2455623	PBDE-99	71.7	55.4	P/P	24 - 138
2455623	Pendimethalin	139	167	P/F	50 - 146
2455623	Pentabromotoluene	134	58.7	P/P	54 - 152
2455623	Phenytoin	29.9	29.4	P/P	10 - 157
2455623	Phorate	72.6	79.8	P/P	54 - 161
2455623	Prodiamine	119	91.9	P/P	29 - 160
2455623	Prometon	85.7	108	P/P	38 - 145
2455623	Prometryn	99.5	124	P/P	32 - 151
2455623	Pronamide	118	113	P/P	61 - 140
2455623	Propanil	98.9	94.6	P/P	50 - 147
2455623	Propargite	54.4	54.7	P/P	10 - 190
2455623	Propiconazole	60.3	67.5	P/P	30 - 146
2455623	Pyraflufen Ethyl	67.4	77.2	P/P	30 - 147
2455623	Pyridaben	78.7	98.0	P/P	15 - 195
2455623	Pyriproxyfen	45.6	59.9	P/P	31 - 218
2455623	Simazine	108	110	P/P	45 - 139
2455623	Stiropfos	74.7	50.1	P/P	10 - 134
2455623	Sulfentrazone	75.4	84.0	P/P	53 - 186
2455623	Tebuconazole	41.4	28.2	P/P	10 - 133
2455623	Terbufos	96.8	96.5	P/P	65 - 151
2455623	Terbuthylazine	91.1	85.0	P/P	62 - 117
2455623	Tetradecachloro-m-terphenyl	173	104	P/P	10 - 260
2455623	Thiobencarb	72.8	86.1	P/P	48 - 122
2455623	Tri-o-cresyl Phosphate	121	72.1	P/P	32 - 151
2455623	Triadimefon	97.5	78.2	P/P	46 - 124
2455623	Tris(1-chloro-2-propyl) phosphate (TCPP)	83.7	93.4	P/P	51 - 154
2455623	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	80.1	91.8	P/P	59 - 147
2455623	Tris(2-chloroethyl) phosphate (TCEP)	94.1	100	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P438670

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455535	Acesulfame K	112	111	P/P	40 - 150
2455535	AMPA	71.4	75.6	P/P	40 - 160
2455535	Endothall	56.1	54.5	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P438670

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455535	Glufosinate	68.4	78.0	P/P	40 - 160
2455535	Glyphosate	72.4	74.0	P/P	40 - 160
2455535	Sucralose	101	104	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455535	2,4-D	119	121	P/P	40 - 150
2455535	2,4,5-T	98.7	98.2	P/P	40 - 150
2455535	Acetaminophen	75.6	80.7	P/P	30 - 150
2455535	Acetamiprid	91.1	89.7	P/P	40 - 150
2455535	Afidopyropen	86.4	67.9	P/P	30 - 150
2455535	Bentazon	59.9	59.8	P/P	30 - 150
2455535	Benzovindiflupyr	85.7	91.4	P/P	40 - 150
2455535	Carbamazepine	72.6	70.9	P/P	40 - 150
2455535	Clothianidin	96.8	96.6	P/P	40 - 150
2455535	Dinotefuran	110	113	P/P	40 - 150
2455535	Diuron	71.0	72.9	P/P	40 - 150
2455535	Fenuron	104	109	P/P	40 - 150
2455535	Fluridone	87.2	85.6	P/P	40 - 150
2455535	Hydrocodone	97.5	105	P/P	40 - 150
2455535	Ibuprofen	65.1	64.3	P/P	40 - 150
2455535	Imazapyr	90.0	94.6	P/P	40 - 150
2455535	Imidacloprid	95.0	98.4	P/P	40 - 150
2455535	Linuron	70.8	69.5	P/P	40 - 150
2455535	Mandestrobin	93.1	96.7	P/P	40 - 150
2455535	MCPP	102	113	P/P	40 - 150
2455535	Naproxen	46.8	54.9	P/P	40 - 150
2455535	Primidone	86.0	92.9	P/P	40 - 150
2455535	Pyraclostrobin	69.3	71.3	P/P	40 - 150
2455535	Silvex	93.0	90.1	P/P	40 - 150
2455535	Thiamethoxam	80.7	81.9	P/P	40 - 150
2455535	Tolfenpyrad	50.0	56.5	P/P	30 - 150
2455535	Triclopyr	110	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P438825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455777	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2014

Batch ID: P438781

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455517	Organic Carbon	98.0	98.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455684	Color (true)	1.71	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438725

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455625	Turbidity	15.4	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455552	Calcium	0.390	Spike	P	0 - 20
2455552	Iron	0.328	Spike	P	0 - 20
2455552	Magnesium	0.149	Spike	P	0 - 20
2455552	Potassium	1.17	Spike	P	0 - 20
2455552	Sodium	0.154	Spike	P	0 - 20
2455552	Strontium	0.274	Spike	P	0 - 20
2455552	Tin	0.515	Spike	P	0 - 20
2455552	Titanium	1.26	Spike	P	0 - 20
2455552	Vanadium	0.123	Spike	P	0 - 20
2455552	Zinc	1.26	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455552	Aluminum	0.733	Spike	P	0 - 20
2455552	Antimony	0.728	Spike	P	0 - 20
2455552	Arsenic	0.0579	Spike	P	0 - 20
2455552	Barium	0.279	Spike	P	0 - 20
2455552	Beryllium	2.44	Spike	P	0 - 20
2455552	Boron	1.53	Spike	P	0 - 20
2455552	Cadmium	1.93	Spike	P	0 - 20
2455552	Chromium	1.73	Spike	P	0 - 20
2455552	Cobalt	0.221	Spike	P	0 - 20
2455552	Copper	0.143	Spike	P	0 - 20
2455552	Lead	0.697	Spike	P	0 - 20
2455552	Manganese	3.95	Spike	P	0 - 20
2455552	Molybdenum	0.454	Spike	P	0 - 20
2455552	Nickel	0.447	Spike	P	0 - 20
2455552	Selenium	0.314	Spike	P	0 - 20
2455552	Silver	0.320	Spike	P	0 - 20
2455552	Thallium	1.53	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439034

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455515	Chloride	1.42	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455515	Sulfate	1.43	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455517	Ammonia-N	1.18	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455405	Kjeldahl Nitrogen	3.73	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438889

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455594	NO2NO3-N	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455628	Total-P	2.20	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438718

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455674	O-Phosphate-P	0.513	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P438700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455623	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	34.2	Spike	F	0 - 30
2455623	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	17.8	Spike	P	0 - 35

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P438700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455623	Acetochlor	5.22	Spike	P	0 - 28
2455623	Alachlor	3.15	Spike	P	0 - 30
2455623	Ametryn	19.3	Spike	P	0 - 32
2455623	Atrazine	3.72	Spike	P	0 - 33
2455623	Atrazine Desethyl	2.29	Spike	P	0 - 36
2455623	Avobenzone	17.7	Spike	P	0 - 35
2455623	Azinphos Methyl	22.8	Spike	P	0 - 62
2455623	Azoxystrobin	38.6	Spike	P	0 - 39
2455623	Bromacil	3.28	Spike	P	0 - 33
2455623	Butylate	3.31	Spike	P	0 - 51
2455623	Caffeine	3.45	Spike	P	0 - 100
2455623	Carbophenothion	18.0	Spike	P	0 - 34
2455623	Carfentrazone Ethyl	14.0	Spike	P	0 - 33
2455623	Chlorfenapyr	21.5	Spike	P	0 - 28
2455623	Chlorpyrifos Ethyl	4.30	Spike	P	0 - 31
2455623	Chlorpyrifos Methyl	2.93	Spike	P	0 - 27
2455623	Coumaphos	12.4	Spike	P	0 - 62
2455623	Cyanazine	3.51	Spike	P	0 - 48
2455623	Cyprodinil	7.53	Spike	P	0 - 29
2455623	Dechlorane 602	62.8	Spike	F	0 - 60
2455623	Dechlorane 603	78.1	Spike	F	0 - 40
2455623	Dechlorane Plus	47.4	Spike	F	0 - 38
2455623	Demeton	2.80	Spike	P	0 - 33
2455623	Diazinon	4.29	Spike	P	0 - 32
2455623	Difenoconazole	25.7	Spike	P	0 - 71
2455623	Dimethenamid	5.52	Spike	P	0 - 60
2455623	Dimethomorph	46.1	Spike	P	0 - 61
2455623	Disulfoton	7.69	Spike	P	0 - 30
2455623	Dithiopyr	2.42	Spike	P	0 - 28
2455623	EPTC	0.761	Spike	P	0 - 56
2455623	Ethion	71.9	Spike	P	0 - 79
2455623	Ethoprop	7.54	Spike	P	0 - 31
2455623	Etridiazole	16.9	Spike	P	0 - 43
2455623	Fenamiphos	5.04	Spike	P	0 - 43
2455623	Fenbuconazole	111	Spike	F	0 - 79
2455623	Fipronil	12.3	Spike	P	0 - 46
2455623	Fipronil Desulfinyl	23.0	Spike	P	0 - 36
2455623	Fipronil Sulfide	15.9	Spike	P	0 - 34
2455623	Fipronil Sulfone	30.9	Spike	P	0 - 47
2455623	Fluazifop-P-butyl	27.2	Spike	P	0 - 38
2455623	Fludioxonil	18.0	Spike	P	0 - 29
2455623	Flumioxazin	35.5	Spike	P	0 - 63
2455623	Flutolanil	25.6	Spike	P	0 - 36
2455623	Fluxapyroxad	35.2	Spike	P	0 - 65
2455623	Fonofos	0.222	Spike	P	0 - 35
2455623	Hexabromobenzene	27.3	Spike	P	0 - 41
2455623	Hexazinone	4.16	Spike	P	0 - 31
2455623	Imazalil	32.4	Spike	P	0 - 52
2455623	Iprodione	4.12	Spike	P	0 - 49
2455623	Loratadine	49.0	Spike	P	0 - 59
2455623	Malathion	34.5	Spike	P	0 - 77

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455623	Metalaxyl	9.96	Spike	P	0 - 76
2455623	Metolachlor	5.92	Spike	P	0 - 29
2455623	Metribuzin	49.6	Spike	P	0 - 51
2455623	Mevinphos	7.12	Spike	P	0 - 31
2455623	Molinate	3.90	Spike	P	0 - 39
2455623	Myclobutanil	24.1	Spike	P	0 - 34
2455623	Naled	5.87	Spike	P	0 - 37
2455623	Napropamide	66.1	Spike	P	0 - 100
2455623	Norflurazon	9.51	Spike	P	0 - 54
2455623	Octinoxate	51.2	Spike	F	0 - 35
2455623	Oxadiazon	1.57	Spike	P	0 - 34
2455623	Oxybenzone	74.7	Spike	F	0 - 35
2455623	Oxyfluorfen	8.49	Spike	P	0 - 28
2455623	Parathion Ethyl	6.76	Spike	P	0 - 31
2455623	Parathion Methyl	20.8	Spike	P	0 - 29
2455623	PBB-153	4.35	Spike	P	0 - 49
2455623	PBDE-47	68.1	Spike	F	0 - 36
2455623	PBDE-99	25.8	Spike	P	0 - 46
2455623	Pendimethalin	18.2	Spike	P	0 - 31
2455623	Pentabromotoluene	78.2	Spike	F	0 - 16
2455623	Phenytoin	1.48	Spike	P	0 - 100
2455623	Phorate	9.42	Spike	P	0 - 36
2455623	Prodiamine	25.7	Spike	P	0 - 68
2455623	Prometon	22.9	Spike	P	0 - 35
2455623	Prometryn	21.8	Spike	P	0 - 33
2455623	Pronamide	4.26	Spike	P	0 - 24
2455623	Propanil	4.41	Spike	P	0 - 28
2455623	Propargite	0.534	Spike	P	0 - 53
2455623	Propiconazole	11.3	Spike	P	0 - 44
2455623	Pyraflufen Ethyl	13.6	Spike	P	0 - 61
2455623	Pyridaben	21.8	Spike	P	0 - 43
2455623	Pyriproxyfen	27.2	Spike	P	0 - 82
2455623	Simazine	2.07	Spike	P	0 - 29
2455623	Stirophos	39.4	Spike	P	0 - 100
2455623	Sulfentrazone	10.8	Spike	P	0 - 64
2455623	Tebuconazole	37.8	Spike	P	0 - 76
2455623	Terbufos	0.359	Spike	P	0 - 29
2455623	Terbuthylazine	6.92	Spike	P	0 - 28
2455623	Tetradecachloro-m-terphenyl	50.1	Spike	F	0 - 42
2455623	Thiobencarb	16.8	Spike	P	0 - 26
2455623	Tri-o-cresyl Phosphate	50.8	Spike	F	0 - 24
2455623	Triadimefon	21.9	Spike	P	0 - 40
2455623	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.37	Spike	P	0 - 30
2455623	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13.6	Spike	P	0 - 22
2455623	Tris(2-chloroethyl) phosphate (TCEP)	6.44	Spike	P	0 - 15

Reference Method: EPA 8321B

Batch ID: P438670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P438670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455535	Acesulfame K	0.823	Spike	P	0 - 30
2455535	AMPA	5.69	Spike	P	0 - 30
2455535	Endothall	2.94	Spike	P	0 - 30
2455535	Glufosinate	13.0	Spike	P	0 - 30
2455535	Glyphosate	2.15	Spike	P	0 - 30
2455535	Sucralose	3.09	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455535	2,4-D	1.81	Spike	P	0 - 30
2455535	2,4,5-T	0.574	Spike	P	0 - 30
2455535	Acetaminophen	6.57	Spike	P	0 - 30
2455535	Acetamiprid	1.55	Spike	P	0 - 30
2455535	Afidopyropen	24.0	Spike	P	0 - 30
2455535	Bentazon	0.197	Spike	P	0 - 30
2455535	Benzovindiflupyr	6.45	Spike	P	0 - 30
2455535	Carbamazepine	2.37	Spike	P	0 - 30
2455535	Clothianidin	0.161	Spike	P	0 - 30
2455535	Dinotefuran	2.88	Spike	P	0 - 30
2455535	Diuron	2.69	Spike	P	0 - 30
2455535	Fenuron	4.82	Spike	P	0 - 30
2455535	Fluridone	1.90	Spike	P	0 - 30
2455535	Hydrocodone	7.39	Spike	P	0 - 30
2455535	Ibuprofen	1.29	Spike	P	0 - 30
2455535	Imazapyr	4.99	Spike	P	0 - 30
2455535	Imidacloprid	3.57	Spike	P	0 - 30
2455535	Linuron	1.80	Spike	P	0 - 30
2455535	Mandestrobin	3.74	Spike	P	0 - 30
2455535	MCPP	9.76	Spike	P	0 - 30
2455535	Naproxen	15.9	Spike	P	0 - 30
2455535	Primidone	7.69	Spike	P	0 - 30
2455535	Pyraclostrobin	2.89	Spike	P	0 - 30
2455535	Silvex	3.20	Spike	P	0 - 30
2455535	Thiamethoxam	1.55	Spike	P	0 - 30
2455535	Tolfenpyrad	12.2	Spike	P	0 - 30
2455535	Triclopyr	6.56	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P438822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455777	Total Alkalinity	0.100	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P439247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455264	TDS	4.16	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455777	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P438781

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455517	Organic Carbon	0.639	Spike	P	0 - 15

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

Quality Assurance Report Surrogates

Lab Sample ID: 2455615
Field Sample ID: G4CE0246

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	63.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	50.8	P	30 - 160
EPA 8321B	Diuron-d6	49.0	P	30 - 160
EPA 8321B	Endothall-d6	94.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.1	P	30 - 160
EPA 8321B	Primidone-d5	75.4	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2455623
Field Sample ID: G4CE0246

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	76.1	P	20 - 200
EPA 8270E	Simazine-d10	105	P	58 - 137
EPA 8270E	Terbufos-d10	68.4	P	50 - 134
EPA 8270E	Terphenyl-d14	76.4	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A123105

Included Lab Sample IDs: 2455595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	99.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A123109

Included Lab Sample IDs: 2455593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123111

Included Lab Sample IDs: 2455593

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123118

Included Lab Sample IDs: 2455593

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

Reference Method: SM 5310 B-2014

Run ID: A123141

Included Lab Sample IDs: 2455594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	113	96.2	P/P	70 - 130

Reference Method: SM 2320 B-2011

Run ID: A123158

Included Lab Sample IDs: 2455593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.6	96.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123158

Included Lab Sample IDs: 2455593

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

Reference Method: EPA 8321B

Run ID: A123176

Included Lab Sample IDs: 2455615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	116	116	P/P	60 - 160
Sucralose	99.8	113	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123188

Included Lab Sample IDs: 2455594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A123193

Included Lab Sample IDs: 2455594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	103	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123205

Included Lab Sample IDs: 2455616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	101	P/P	90 - 110
Antimony	102	103	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Barium	100	101	P/P	90 - 110
Beryllium	97.3	96.3	P/P	90 - 110
Boron	101	100	P/P	90 - 110
Cadmium	100	101	P/P	90 - 110
Chromium	102	102	P/P	90 - 110
Cobalt	101	99.9	P/P	90 - 110
Copper	99.1	98.8	P/P	90 - 110
Lead	102	102	P/P	90 - 110
Manganese	101	101	P/P	90 - 110
Molybdenum	101	102	P/P	90 - 110
Nickel	101	100	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Silver	104	104	P/P	90 - 110
Thallium	103	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A123212

Included Lab Sample IDs: 2455615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	109	P/P	50 - 150
2,4,5-T	107	104	P/P	50 - 150
Acetaminophen	112	107	P/P	60 - 160
Acetamiprid	111	110	P/P	50 - 150
Afidopyropen	94.5	110	P/P	50 - 150
Bentazon	97.2	92.1	P/P	50 - 160
Benzovindiflupyr	110	109	P/P	50 - 150
Carbamazepine	104	104	P/P	60 - 150
Clothianidin	104	108	P/P	60 - 150
Dinotefuran	116	114	P/P	50 - 150
Diuron	116	113	P/P	60 - 160
Fenuron	107	107	P/P	60 - 150
Fluridone	111	115	P/P	60 - 160
Hydrocodone	116	118	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A123212
Included Lab Sample IDs: 2455615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	100	82.5	P/P	50 - 160
Imazapyr	93.0	90.3	P/P	50 - 150
Imidacloprid	99.7	98.6	P/P	60 - 150
Linuron	102	114	P/P	60 - 150
Mandestrobin	115	111	P/P	50 - 150
MCPP	105	102	P/P	50 - 150
Naproxen	60.8	104	P/P	50 - 160
Primidone	103	101	P/P	60 - 150
Pyraclostrobin	101	103	P/P	60 - 150
Silvex	106	102	P/P	50 - 150
Thiamethoxam	115	113	P/P	50 - 150
Tolfenpyrad	97.8	99.4	P/P	60 - 150
Triclopyr	111	108	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A123220
Included Lab Sample IDs: 2455616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	99.7	P/P	90 - 110
Iron	99.8	98.5	P/P	90 - 110
Magnesium	100	98.6	P/P	90 - 110
Potassium	99.8	99.6	P/P	90 - 110
Sodium	101	100	P/P	90 - 110
Strontium	106	106	P/P	90 - 110
Tin	105	104	P/P	90 - 110
Titanium	103	103	P/P	90 - 110
Vanadium	103	103	P/P	90 - 110
Zinc	105	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123230
Included Lab Sample IDs: 2455594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	97.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123232
Included Lab Sample IDs: 2455594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	97.2	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A123245
Included Lab Sample IDs: 2455615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	139	121	P/P	60 - 160
Endothall	97.5	83.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A123245
Included Lab Sample IDs: 2455615

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glufosinate	135	112	P/P	60 - 160
Glyphosate	121	113	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123254
Included Lab Sample IDs: 2455593

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

Reference Method: EPA 8270E
Run ID: A123488
Included Lab Sample IDs: 2455623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	95.9		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.3		P	80 - 120
Avobenzone	93.1		P	80 - 120
Dechlorane 602	105		P	80 - 120
Dechlorane 603	109		P	80 - 120
Dechlorane Plus	111		P	80 - 120
Hexabromobenzene	94.5		P	80 - 120
Octinoxate	94.6		P	80 - 120
Oxybenzone	93.1		P	80 - 120
PBB-153	91.2		P	80 - 120
PBDE-47	95.3		P	80 - 120
PBDE-99	99.0		P	80 - 120
Pentabromotoluene	92.8		P	80 - 120
Tetradecachloro-m-terphenyl	90.4		P	80 - 120
Tri-o-cresyl Phosphate	97.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	96.3		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.1		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	96.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123491
Included Lab Sample IDs: 2455623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	85.7		P	80 - 120
Alachlor	90.4		P	80 - 120
Ametryn	106		P	80 - 120
Atrazine	97.1		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	95.9		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	104		P	80 - 120
Butylate	97.8		P	80 - 120
Caffeine	118		P	80 - 120
Carbophenothion	88.0		P	80 - 120
Carfentrazone Ethyl	92.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123491
Included Lab Sample IDs: 2455623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorfenapyr	99.9		P	80 - 120
Chlorpyrifos Ethyl	89.6		P	80 - 120
Chlorpyrifos Methyl	87.8		P	80 - 120
Coumaphos	109		P	80 - 120
Cyanazine	94.0		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	91.5		P	80 - 120
Diazinon	95.7		P	80 - 120
Difenoconazole	97.2		P	80 - 120
Dimethenamid	93.8		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	97.1		P	80 - 120
Dithiopyr	111		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	99.9		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	96.8		P	80 - 120
Fenamiphos	103		P	80 - 120
Fenbuconazole	93.9		P	80 - 120
Fipronil	106		P	80 - 120
Fipronil Desulfinyl	97.9		P	80 - 120
Fipronil Sulfide	93.9		P	80 - 120
Fipronil Sulfone	119		P	80 - 120
Fluazifop-P-butyl	109		P	80 - 120
Fludioxonil	109		P	80 - 120
Flumioxazin	95.5		P	80 - 120
Flutolanil	82.3		P	80 - 120
Fluxapyroxad	99.4		P	80 - 120
Fonofos	84.5		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	116		P	80 - 120
Iprodione	78.5*		F	80 - 120
Loratadine	98.3		P	80 - 120
Malathion	92.4		P	80 - 120
Metaxyl	90.1		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	89.5		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	89.6		P	80 - 120
Myclobutanil	100		P	80 - 120
Naled	115		P	80 - 120
Napropamide	107		P	80 - 120
Norflurazon	116		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	90.9		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	90.3		P	80 - 120
Pendimethalin	111		P	80 - 120
Phenytol	101		P	80 - 120
Phorate	89.1		P	80 - 120
Prodiamine	80.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123491
Included Lab Sample IDs: 2455623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometon	102		P	80 - 120
Prometryn	111		P	80 - 120
Pronamide	103		P	80 - 120
Propanil	87.0		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	90.7		P	80 - 120
Pyraflufen Ethyl	106		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	96.4		P	80 - 120
Simazine	90.0		P	80 - 120
Stirophos	87.1		P	80 - 120
Sulfentrazone	106		P	80 - 120
Tebuconazole	107		P	80 - 120
Terbufos	84.9		P	80 - 120
Terbutylazine	81.9		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	104		P	80 - 120

* 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
DEP SOP: NU-094-1	Color (true)	102					1.71	
EPA 180.1 Rev. 2.0	Turbidity	103					15.4	
EPA 200.7 Rev. 4.4	Calcium	104	101	101	101			0.390
	Iron	102	102	102	100			0.328
	Magnesium	103	102	102	102			0.149
	Potassium	101	102	101	101			1.17
	Sodium	101	102	103				0.154
	Strontium	103	102	102	97.1			0.274
	Tin	102	102	103	99.8			0.515
	Titanium	100	96.9	95.6	99.4			1.26
	Vanadium	102	101	101	101			0.123
	Zinc	102	103	104	101			1.26
EPA 200.8 Rev. 5.4	Aluminum	101	99.2	100	99.8			0.733
	Antimony	103	103	104	103			0.728
	Arsenic	101	101	101	100			0.0579
	Barium	101	101	102	101			0.279
	Beryllium	92.5	94.3	91.7	93.6			2.44
	Boron	104	102	104	103			1.53
	Cadmium	99.0	101	102	98.8			1.93
	Chromium	112	101	99.2	96.7			1.73
	Cobalt	100	98.7	98.9	98.4			0.221
	Copper	101	98.9	99.5	99.1			0.143
	Lead	102	102	103	102			0.697
	Manganese	101	98.2	103	98.7			3.95
	Molybdenum	99.9	100	101	99.3			0.454
	Nickel	103	97.4	96.9	97.5			0.447
	Selenium	100	100	100	99.2			0.314
	Silver	103	101	102	102			0.320
	Thallium	101	102	103	103			1.53
EPA 300.0 Rev. 2.1	Chloride	102	103	98.8			1.42	
	Sulfate	102	103	98.2			1.43	
EPA 350.1 Rev. 2.0	Ammonia-N	95.6	98.4	101				1.18
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	103	109				3.73
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5	96.5	97.5				1.03
EPA 365.1 Rev. 2.0	Total-P	105						2.20
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.2	97.7				0.513
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	66.5	69.6	49.3				34.2
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.9	64.7	54.1				17.8
	Acetochlor	108	98.2	93.2				5.22
	Alachlor	84.2	75.5	77.9				3.15
	Ametryn	101	135	111				19.3
	Atrazine	101	105	109				3.72
	Atrazine Desethyl	103	104	107				2.29
	Avobenzone	107	64.7	54.2				17.7
	Azinphos Methyl	140	103	130				22.8
	Azoxystrobin	106	79.9	118				38.6
	Bromacil	105	87.5	90.4				3.28
	Butylate	63.6	72.4	70.0				3.31
	Caffeine	113	142	138				3.45
	Carbophenothion	156	105	87.6				18.0
	Carfentrazone Ethyl	140	90.3	78.5				14.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorfenapyr	108	72.5	89.9		21.5
	Chlorpyrifos Ethyl	107	117	112		4.30
	Chlorpyrifos Methyl	141	111	107		2.93
	Coumaphos	160	86.8	98.3		12.4
	Cyanazine	107	102	105		3.51
	Cyprodinil	126	111	120		7.53
	Dechlorane 602	57.2	53.8	28.1		62.8
	Dechlorane 603	128	111	48.8		78.1
	Dechlorane Plus	107	84.7	52.3		47.4
	Demeton	64.8	60.7	62.5		2.80
	Diazinon	119	129	123		4.29
	Difenoconazole	101	45.5	58.9		25.7
	Dimethenamid	98.2	75.4	71.4		5.52
	Dimethomorph	147	105	168		46.1
	Disulfoton	116	112	120		7.69
	Dithiopyr	91.0	114	117		2.42
	EPTC	56.9	66.0	65.5		0.761
	Ethion	70.1	74.4	35.1		71.9
	Ethoprop	91.6	96.2	104		7.54
	Etridiazole	83.5	77.7	65.6		16.9
	Fenamiphos	112	80.2	84.3		5.04
	Fenbuconazole	70.2	21.9	76.5		111
	Fipronil	96.9	114	101		12.3
	Fipronil Desulfinyl	79.1	94.7	75.2		23.0
	Fipronil Sulfide	112	94.7	80.8		15.9
	Fipronil Sulfone	113	124	90.5		30.9
	Fluazifop-P-butyl	131	100	76.2		27.2
	Fludioxonil	92.3	68.3	81.8		18.0
	Flumioxazin	126	48.2	79.5		35.5
	Flutolanil	119	78.8	102		25.6
	Fluxapyroxad	108	71.3	50.0		35.2
	Fonofos	90.1	101	101		0.222
	Hexabromobenzene	91.7	77.9	59.2		27.3
	Hexazinone	80.1	96.9	91.3		4.16
	Imazalil	108	75.5	105		32.4
	Iprodione	113	66.6	69.4		4.12
	Loratadine	146	87.6	144		49.0
	Malathion	128	93.3	132		34.5
	Metalaxyl	78.6	107	96.8		9.96
	Metolachlor	114	113	119		5.92
	Metribuzin	96.1	82.8	137		49.6
	Mevinphos	104	92.4	99.2		7.12
	Molinate	67.1	71.6	74.4		3.90
	Myclobutanil	99.2	84.2	66.1		24.1
	Naled	50.5	49.2	46.4		5.87
	Napropamide	86.0	71.3	35.9		66.1
	Norflurazon	108	68.3	75.2		9.51
	Octinoxate	113	158	93.6		51.2
	Oxadiazon	96.7	75.7	76.9		1.57
	Oxybenzone	112	149	68.0		74.7
	Oxyfluorfen	129	98.4	90.4		8.49
	Parathion Ethyl	85.2	89.6	95.9		6.76
	Parathion Methyl	96.7	83.9	103		20.8
	PBB-153	89.6	53.4	51.1		4.35

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	PBDE-47	92.7	111	54.8		68.1
	PBDE-99	95.3	71.7	55.4		25.8
	Pendimethalin	121	139	167		18.2
	Pentabromotoluene	97.4	134	58.7		78.2
	Phenytoin	30.1	29.9	29.4		1.48
	Phorate	84.8	72.6	79.8		9.42
	Prodiamine	114	119	91.9		25.7
	Prometon	79.6	85.7	108		22.9
	Prometryn	137	99.5	124		21.8
	Pronamide	122	118	113		4.26
	Propanil	113	98.9	94.6		4.41
	Propargite	80.1	54.4	54.7		0.534
	Propiconazole	86.8	60.3	67.5		11.3
	Pyraflufen Ethyl	136	67.4	77.2		13.6
	Pyridaben	36.3	78.7	98.0		21.8
	Pyriproxyfen	72.8	45.6	59.9		27.2
	Simazine	98.3	108	110		2.07
	Stirophos	113	74.7	50.1		39.4
	Sulfentrazone	104	75.4	84.0		10.8
	Tebuconazole	52.3	41.4	28.2		37.8
	Terbufos	94.1	96.8	96.5		0.359
	Terbuthylazine	90.5	91.1	85.0		6.92
	Tetradecachloro-m-terphenyl	165	173	104		50.1
	Thiobencarb	107	72.8	86.1		16.8
	Tri-o-cresyl Phosphate	115	121	72.1		50.8
	Triadimefon	104	78.2	97.5		21.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	97.3	83.7	93.4		8.37
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.0	80.1	91.8		13.6
	Tris(2-chloroethyl) phosphate (TCEP)	93.8	94.1	100		6.44
EPA 8321B	2,4-D	110	121	119		1.81
	2,4,5-T	116	98.2	98.7		0.574
	Acesulfame K	121	112	111		0.823
	Acetaminophen	74.5	75.6	80.7		6.57
	Acetamiprid	79.8	89.7	91.1		1.55
	Afidopyropen	74.2	67.9	86.4		24.0
	AMPA	78.7	71.4	75.6		5.69
	Bentazon	59.1	59.8	59.9		0.197
	Benzovindiflupyr	81.3	91.4	85.7		6.45
	Carbamazepine	64.9	70.9	72.6		2.37
	Clothianidin	88.1	96.6	96.8		0.161
	Dinotefuran	100	110	113		2.88
	Diuron	65.6	72.9	71.0		2.69
	Endothall	51.1	56.1	54.5		2.94
	Fenuron	93.7	104	109		4.82
	Fluridone	78.1	85.6	87.2		1.90
	Glufosinate	73.4	68.4	78.0		13.0
	Glyphosate	73.6	72.4	74.0		2.15
	Hydrocodone	94.9	97.5	105		7.39
	Ibuprofen	65.6	64.3	65.1		1.29
	Imazapyr	88.7	94.6	90.0		4.99
	Imidacloprid	88.3	98.4	95.0		3.57

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Linuron	62.9	69.5	70.8		
	Mandestrobin	88.3	96.7	93.1		
	MCP	97.9	113	102		
	Naproxen	52.6	54.9	46.8		
	Primidone	85.6	86.0	92.9		
	Pyraclostrobin	72.1	71.3	69.3		
	Silvex	88.6	90.1	93.0		
	Sucralose	103	101	104		
	Thiamethoxam	87.0	80.7	81.9		
	Tolfenpyrad	45.2	56.5	50.0		
	Triclopyr	121	103	110		
SM 2320 B-2011	Total Alkalinity	98.7				0.100
SM 2540 C-2015	TDS	96.4				4.16
SM 2540 D-2015	TSS	102				
SM 4500-F- C-2011	Fluoride	103	102	102		
SM 5310 B-2014	Organic Carbon	99.2	98.0	98.7		

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2455593
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2455593
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2455616
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2455616
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2455593
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2455593
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2455594
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2455594
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2455594
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2455594
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2455595
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2455623
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2455623
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2455615
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2455593
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2455616
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2455593
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2455593
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2455593
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2455594

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	12/08/2023			12/08/2023 15:30	Samantha L Bates	2455593
EPA 180.1 Rev. 2.0	12/08/2023			12/08/2023 14:42	Anna M. Plaviak	2455593
EPA 200.7 Rev. 4.4	12/08/2023	12/12/2023 11:45	George D Taylor	12/13/2023 16:20	McKinley C Carter	2455616
EPA 200.8 Rev. 5.4	12/08/2023	12/12/2023 11:45	George D Taylor	12/13/2023 19:49	Conrad Hartmann	2455616
EPA 300.0 Rev. 2.1	12/08/2023			12/13/2023 10:35	Anna M. Plaviak	2455593
	12/08/2023			12/16/2023 05:48	James L Waggeberby	2455593
EPA 350.1 Rev. 2.0	12/08/2023			12/14/2023 13:40	Khloe J Berg	2455594
EPA 351.2 Rev. 2.0	12/08/2023	12/12/2023 10:36	Ping Hua	12/13/2023 13:20	Ping Hua	2455594
EPA 353.2 Rev. 2.0	12/08/2023			12/12/2023 13:20	Fadila Guebre	2455594
EPA 365.1 Rev. 2.0	12/08/2023	12/13/2023 13:13	Adam P Silver	12/14/2023 14:44	James L Waggeberby	2455594
EPA 365.1 Rev. 2.0 dissolved	12/08/2023			12/08/2023 14:08	Elise M. Gillis	2455595
EPA 8270E	12/08/2023	12/12/2023 08:00	Fe-Val Siddell	01/03/2024 21:45	Arthur Maknenko	2455623
	12/08/2023	12/12/2023 08:00	Fe-Val Siddell	12/19/2023 17:14	Vandana T. Nagar	2455623
EPA 8321B	12/08/2023	12/12/2023 14:00	Hana Lee	12/12/2023 18:29	Tae K Lee	2455615
	12/08/2023	12/12/2023 14:00	Hana Lee	12/14/2023 10:12	Tae K Lee	2455615
	12/08/2023	12/13/2023 09:00	Hoor Shaik	12/13/2023 21:14	Juyoung Kim	2455615
SM 2320 B-2011	12/08/2023			12/11/2023 22:56	Adam P Silver	2455593
SM 2340 B-2011	12/08/2023			12/13/2023 16:20	McKinley C Carter	2455616
SM 2540 C-2015	12/08/2023			12/12/2023 15:24	Yijie Li	2455593
SM 2540 D-2015	12/08/2023			12/12/2023 15:24	Yijie Li	2455593
SM 4500-F- C-2011	12/08/2023			12/11/2023 22:56	Adam P Silver	2455593
SM 5310 B-2014	12/08/2023			12/11/2023 17:21	Kenneth H Lee	2455594