

Chemical Analysis Report

SE-DIST-2023-10-11-01

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

Event Description: **Lake Saddlebags and Lake Hill**
Request ID: **RQ-2023-06-05-30**
Customer: **SE-DIST**
Project ID: **SMP**

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

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 07-NOV-2023 10:09



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: HILL LAKE NEAR CENTER

Collection Date/Time: 10/10/2023 11:45

Field ID: G4SE0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444487	DEP SOP: NU-094-1	Color (true)	91		PCU	P436367	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P436363	
	EPA 300.0 Rev. 2.1	Chloride	8.9		mg Cl/L	P436819	
		Sulfate	4.1		mg SO4/L	P436822	
	SM 2320 B-2011	Total Alkalinity	5.3		mg CaCO3/L	P436469	
	SM 2540 C-2015	TDS	64		mg/L	P436961	
	SM 2540 D-2015	TSS	2	I	mg/L	P436854	
2444488	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P436576	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P436615	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.52		mg N/L	P436500	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P436455	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P436464	
2444489	SM 5310 B-2011	Organic Carbon	14		mg C/L	P436658	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P436369	
2444492	EPA 8321B	2,4-D	0.0069	I	ug/L	P436414	
		Acesulfame K	0.10	U	ug/L	P436330	
		2,4,5-T	0.0040	U	ug/L	P436414	
		AMPA	0.10	U	ug/L	P436330	
		Acetaminophen	0.0080	U	ug/L	P436414	
		Acetamiprid	0.0020	U	ug/L	P436414	
		Endothall	0.25	U	ug/L	P436330	
		Glufosinate	0.10	U	ug/L	P436330	
		Glyphosate	0.10	U	ug/L	P436330	
		Afidopyropen	0.0020	U	ug/L	P436414	
		Bentazon	0.011		ug/L	P436414	
		Sucralose	0.32		ug/L	P436330	
		Benzovindiflupyr	0.0020	U	ug/L	P436414	
		Carbamazepine	8.0E-04	U	ug/L	P436414	
		Clothianidin	0.0020	U	ug/L	P436414	
		Dinotefuran	0.0020	U	ug/L	P436414	
		Diuron	0.0021	I	ug/L	P436414	
		Fenuron	0.032	U	ug/L	P436414	MS
		Fluridone	0.0030	I	ug/L	P436414	
		Imazapyr	0.0040	U	ug/L	P436414	
		Hydrocodone	0.0020	U	ug/L	P436414	
		Ibuprofen	0.080	U	ug/L	P436414	
		Imidacloprid	0.0020	U	ug/L	P436414	
		Linuron	0.0040	U	ug/L	P436414	
		Mandestrobin	0.0020	U	ug/L	P436414	
		MCP	0.0020	U	ug/L	P436414	
		Naproxen	0.0080	U	ug/L	P436414	MS
		Primidone	0.0055	I	ug/L	P436414	
		Pyraclostrobin	0.0020	U	ug/L	P436414	

Field ID: G4SE0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444492	EPA 8321B	Silvex	0.0040	U	ug/L	P436414	
		Thiamethoxam	0.0020	U	ug/L	P436414	
		Tolfenpyrad	0.0020	U	ug/L	P436414	
		Triclopyr	0.0040	U	ug/L	P436414	
2444493	EPA 200.7 Rev. 4.4	Calcium	5.74		mg/L	P436406	
		Iron	68	I	ug/L	P436406	
		Magnesium	0.93		mg/L	P436406	
		Potassium	0.30	U	mg/L	P436406	
		Sodium	5.1		mg/L	P436406	
		Strontium	21.2		ug/L	P436406	
		Tin	3.8	I	ug/L	P436406	
		Titanium	1.2	I	ug/L	P436406	
		Vanadium	2.0	U	ug/L	P436406	
		Zinc	5.0	U	ug/L	P436406	
	EPA 200.8 Rev. 5.4	Aluminum	305		ug/L	P436406	
		Antimony	0.057	I	ug/L	P436406	
		Arsenic	1.93		ug/L	P436406	
		Barium	2.45		ug/L	P436406	
		Beryllium	0.011	I	ug/L	P436406	
		Boron	19.0		ug/L	P436406	
		Cadmium	0.020	U	ug/L	P436406	
		Chromium	0.73	I	ug/L	P436406	
		Cobalt	0.024	I	ug/L	P436406	
		Copper	1.54		ug/L	P436406	
		Lead	0.29	I	ug/L	P436406	
		Manganese	1.45		ug/L	P436406	
		Molybdenum	0.15	U	ug/L	P436406	
		Nickel	0.50	U	ug/L	P436406	
		Selenium	0.20	U	ug/L	P436406	
		Silver	0.010	U	ug/L	P436406	
		Thallium	0.10	U	ug/L	P436406	
		Hardness	18.1		mg/L	P436406	
2444494	SM 2340 B-2011	Oxybenzone**	10	U	ng/L	P436398	
	EPA 8270E	Acetochlor	0.21	U	ng/L	P436398	
		Octinoxate**	150	U	ng/L	P436398	
		Alachlor	0.41	U	ng/L	P436398	
		Avobenzone**	100	U	ng/L	P436398	RPD
		Ametryn	1.1	U	ng/L	P436398	
		Atrazine	14		ng/L	P436398	
		PBDE-47**	4.1	U	ng/L	P436398	
		Atrazine Desethyl	1.3	U	ng/L	P436398	
		PBDE-99**	5.1	U	ng/L	P436398	
		Azinphos Methyl	3.1	U	ng/L	P436398	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P436398	
		Azoxystrobin	0.41	U	ng/L	P436398	

Field ID: G4SE0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444494	EPA 8270E	Bromacil	0.62	U	ng/L	P436398	
		2-Ethylhexyl	12	U	ng/L	P436398	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P436398	
		Dechlorane Plus**	31	U	ng/L	P436398	
		Caffeine**	7.7	U	ng/L	P436398	
		Dechlorane 602**	5.1	U	ng/L	P436398	
		Carbophenothion	0.51	U	ng/L	P436398	
		Dechlorane 603**	4.1	U	ng/L	P436398	
		Carfentrazone Ethyl	0.15	U	ng/L	P436398	
		Hexabromobenzene**	6.2	U	ng/L	P436398	
		Chlorfenapyr	0.31	U	ng/L	P436398	
		PBB-153**	6.2	U	ng/L	P436398	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436398	
		Pentabromotoluene**	3.1	U	ng/L	P436398	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436398	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P436398	
		Coumaphos	1.1	U	ng/L	P436398	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	32	I	ng/L	P436398	
		Cyanazine	5.1	U	ng/L	P436398	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.9	I	ng/L	P436398	
		Cyprodinil	0.21	U	ng/L	P436398	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P436398	
		Demeton	3.6	U	ng/L	P436398	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P436398	
		Diazinon	0.13	U	ng/L	P436398	
		Difenoconazole	0.62	U	ng/L	P436398	MS
		Dimethenamid	0.10	U	ng/L	P436398	
		Dimethomorph	0.31	U	ng/L	P436398	
		Disulfoton	0.62	U	ng/L	P436398	
		Dithiopyr	1.0	U	ng/L	P436398	
		EPTC	0.51	U	ng/L	P436398	
		Ethion	0.31	U	ng/L	P436398	
		Ethoprop	0.13	UJ	ng/L	P436398	CCV
		Etridiazole	0.10	U	ng/L	P436398	RPD
		Fenamiphos	0.46	U	ng/L	P436398	
		Fenbuconazole	0.51	U	ng/L	P436398	
		Fipronil	0.21	U	ng/L	P436398	
		Fipronil Desulfinyl**	0.10	U	ng/L	P436398	
		Fipronil Sulfide	0.10	U	ng/L	P436398	
		Fipronil Sulfone	0.10	U	ng/L	P436398	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P436398	LCS, MS
		Fludioxonil	0.10	U	ng/L	P436398	
		Flumioxazin	3.1	U	ng/L	P436398	

Field ID: G4SE0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444494	EPA 8270E	Flutolanil	0.10	U	ng/L	P436398	CCV, LCS
		Fluxapyroxad	0.26	UJ	ng/L	P436398	
		Fonofos	0.15	U	ng/L	P436398	
		Hexazinone	0.51	U	ng/L	P436398	
		Imazalil	0.67	U	ng/L	P436398	
		Iprodione	0.51	U	ng/L	P436398	
		Loratadine**	0.31	U	ng/L	P436398	
		Malathion	0.36	U	ng/L	P436398	
		Metalaxyl	0.51	U	ng/L	P436398	
		Metolachlor	1.9	I	ng/L	P436398	
		Metribuzin	0.41	U	ng/L	P436398	
		Mevinphos	1.0	U	ng/L	P436398	
		Molinate	0.26	U	ng/L	P436398	
		Myclobutanil	0.36	U	ng/L	P436398	
		Naled	2.6	U	ng/L	P436398	
		Napropamide	0.72	U	ng/L	P436398	
		Norflurazon	1.0	U	ng/L	P436398	
		Oxadiazon	0.36	U	ng/L	P436398	
		Oxyfluorfen	0.21	U	ng/L	P436398	
		Parathion Ethyl	0.15	U	ng/L	P436398	
		Parathion Methyl	0.21	U	ng/L	P436398	
		Pendimethalin	1.7	U	ng/L	P436398	
		Phenytol**	5.4	U	ng/L	P436398	
		Phorate	0.26	U	ng/L	P436398	
		Prodiamine	0.21	U	ng/L	P436398	
		Prometon	3.1	U	ng/L	P436398	
		Prometryn	0.36	U	ng/L	P436398	
		Pronamide	0.10	U	ng/L	P436398	
		Propanil	0.10	U	ng/L	P436398	
		Propargite	0.82	U	ng/L	P436398	
		Propiconazole	0.62	U	ng/L	P436398	
		Pyraflufen Ethyl	0.31	U	ng/L	P436398	
		Pyridaben	1.4	U	ng/L	P436398	
		Pyriproxyfen	0.26	U	ng/L	P436398	
		Simazine	0.26	U	ng/L	P436398	
		Stirophos	0.41	U	ng/L	P436398	
		Sulfentrazone	1.4	U	ng/L	P436398	MS
		Tebuconazole	3.6	I	ng/L	P436398	
		Terbufos	0.21	U	ng/L	P436398	
		Terbutylazine	0.21	U	ng/L	P436398	
		Thiobencarb	0.51	U	ng/L	P436398	
		Triadimefon	0.15	U	ng/L	P436398	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. 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: P436367

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436363

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436406

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: P436406

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: P436819

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: P436822

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436615

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436500

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436455

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436464

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436369

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

Reference Method: EPA 8270E
Batch ID: P436398

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: P436398

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: P436398

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
Phenytoln	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: P436330

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: P436414

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: P436414

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: P436469

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

Reference Method: SM 2540 C-2015

Batch ID: P436961

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P436854

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P436576

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P436658

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: P436367

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.0		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	104		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436406

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	105		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	98.0		P	85 - 115
Sodium	100		P	85 - 115
Strontium	101		P	85 - 115
Tin	106		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436406

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	95.6		P	85 - 115
Antimony	96.1		P	85 - 115
Arsenic	96.7		P	85 - 115
Barium	99.1		P	85 - 115
Beryllium	93.0		P	85 - 115
Boron	98.2		P	85 - 115
Cadmium	98.4		P	85 - 115
Chromium	96.1		P	85 - 115
Cobalt	96.4		P	85 - 115
Copper	94.7		P	85 - 115
Lead	92.8		P	85 - 115
Manganese	96.0		P	85 - 115
Molybdenum	95.8		P	85 - 115
Nickel	95.2		P	85 - 115
Selenium	95.2		P	85 - 115
Silver	107		P	85 - 115
Thallium	98.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.8		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436822

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436615

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436500

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436455

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: P436464

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436369

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.3		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	78.0		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	47.9		P	37 - 154
Acetochlor	80.3		P	64 - 124
Alachlor	67.8		P	61 - 118
Ametryn	154		P	47 - 158
Atrazine	88.1		P	68 - 121
Atrazine Desethyl	82.4		P	30 - 119
Avobenzone	108		P	48 - 193
Azinphos Methyl	61.6		P	30 - 194
Azoxystrobin	77.8		P	58 - 154
Bromacil	102		P	47 - 126
Butylate	71.4		P	31 - 83.0
Caffeine	137		P	10 - 180
Carbophenothion	91.2		P	59 - 133
Carfentrazone Ethyl	101		P	59 - 147
Chlorfenapyr	81.1		P	52 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	94.7		P	59 - 119
Chlorpyrifos Methyl	118		P	65 - 123
Coumaphos	104		P	11 - 223
Cyanazine	213		P	63 - 250
Cyprodinil	133		P	52 - 143
Dechlorane 602	51.5		P	23 - 142
Dechlorane 603	107		P	51 - 171
Dechlorane Plus	97.3		P	46 - 161
Demeton	96.9		P	42 - 119
Diazinon	129		P	67 - 132
Difenoconazole	39.1		P	12 - 204
Dimethenamid	64.0		P	53 - 113
Dimethomorph	167		P	13 - 238
Disulfoton	90.2		P	56 - 126
Dithiopyr	78.3		P	58 - 127
EPTC	68.5		P	31 - 78.0
Ethion	46.8		P	24 - 127
Ethoprop	102		P	60 - 118
Etridiazole	66.4		P	32 - 91.0
Fenamiphos	92.1		P	54 - 129
Fenbuconazole	44.4		P	31 - 162
Fipronil	119		P	56 - 131
Fipronil Desulfinyl	74.5		P	58 - 132
Fipronil Sulfide	85.2		P	51 - 123
Fipronil Sulfone	95.8		P	50 - 125
Fluazifop-P-butyl	140		F	52 - 132
Fludioxonil	82.1		P	52 - 129
Flumioxazin	42.9		P	34 - 250
Flutolanil	104		P	45 - 128
Fluxapyroxad	29.8		F	31 - 150
Fonofos	101		P	60 - 116
Hexabromobenzene	81.7		P	52 - 165
Hexazinone	92.7		P	59 - 120
Imazalil	81.2		P	39 - 134
Iprodione	118		P	39 - 243
Loratadine	134		P	10 - 240
Malathion	111		P	53 - 145
Metalaxyl	74.9		P	59 - 120
Metolachlor	113		P	64 - 122
Metribuzin	42.2		P	33 - 128
Mevinphos	94.9		P	48 - 119
Molinate	79.7		P	42 - 89.0
Myclobutanil	81.3		P	54 - 129
Naled	33.4		P	10 - 138
Napropamide	74.3		P	40 - 122
Norflurazon	52.3		P	49 - 132
Octinoxate	123		P	29 - 176
Oxadiazon	71.5		P	50 - 115
Oxybenzone	115		P	45 - 145
Oxyfluorfen	113		P	62 - 149
Parathion Ethyl	110		P	68 - 119
Parathion Methyl	96.7		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	61.4		P	42 - 179
PBDE-47	73.7		P	44 - 141
PBDE-99	54.3		P	36 - 141
Pendimethalin	112		P	59 - 158
Pentabromotoluene	93.6		P	58 - 148
Phenytoin	32.9		P	10 - 151
Phorate	96.8		P	44 - 124
Prodiamine	34.9		P	10 - 136
Prometon	113		P	45 - 131
Prometryn	126		P	52 - 140
Pronamide	108		P	70 - 129
Propanil	103		P	54 - 144
Propargite	48.9		P	10 - 191
Propiconazole	64.1		P	49 - 128
Pyraflufen Ethyl	70.1		P	46 - 141
Pyridaben	84.6		P	29 - 198
Pyriproxyfen	50.1		P	33 - 221
Simazine	84.3		P	62 - 119
Stirophos	28.4		P	13 - 144
Sulfentrazone	23.2		P	12 - 152
Tebuconazole	43.8		P	10 - 135
Terbufos	113		P	67 - 136
Terbuthylazine	94.5		P	66 - 113
Tetradecachloro-m-terphenyl	149		P	30 - 235
Thiobencarb	82.0		P	51 - 125
Tri-o-cresyl Phosphate	107		P	50 - 150
Triadimefon	83.3		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	127		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	104		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P436330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	85.5		P	40 - 150
Endothall	97.0		P	40 - 150
Glufosinate	91.6		P	40 - 150
Glyphosate	86.8		P	40 - 150
Sucralose	105		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	62.9		P	40 - 150
2,4,5-T	68.5		P	40 - 150
Acetaminophen	81.1		P	30 - 150
Acetamiprid	81.1		P	40 - 150
Afidopyropen	69.5		P	30 - 150
Bentazon	94.8		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P436414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	93.1		P	40 - 150
Carbamazepine	71.3		P	40 - 150
Clothianidin	81.9		P	40 - 150
Dinotefuran	92.7		P	40 - 150
Diuron	69.1		P	40 - 150
Fenuron	87.5		P	40 - 150
Fluridone	74.2		P	40 - 150
Hydrocodone	84.3		P	40 - 150
Ibuprofen	65.7		P	40 - 150
Imazapyr	73.9		P	40 - 150
Imidacloprid	79.2		P	40 - 150
Linuron	58.0		P	40 - 150
Mandestrobin	80.1		P	40 - 150
MCPP	77.9		P	40 - 150
Naproxen	62.6		P	40 - 150
Primidone	76.1		P	40 - 150
Pyraclostrobin	70.4		P	40 - 150
Silvex	68.5		P	40 - 150
Thiamethoxam	77.1		P	40 - 150
Tolfenpyrad	54.5		P	30 - 150
Triclopyr	69.6		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P436469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.5		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P436961

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	91.6		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P436854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	107		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P436576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P436658

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444081	Calcium	103		P	80 - 120
2444081	Iron	104	105	P/P	80 - 120
2444081	Magnesium	105	107	P/P	80 - 120
2444081	Potassium	98.3	103	P/P	80 - 120
2444081	Sodium	100	106	P/P	80 - 120
2444081	Strontium	101	103	P/P	80 - 120
2444081	Tin	102	102	P/P	80 - 120
2444081	Titanium	104	104	P/P	80 - 120
2444081	Vanadium	103	104	P/P	80 - 120
2444081	Zinc	104	105	P/P	80 - 120
2444455	Calcium	101		P	80 - 120
2444455	Iron	103		P	80 - 120
2444455	Magnesium	103		P	80 - 120
2444455	Potassium	106		P	80 - 120
2444455	Sodium	98.9		P	80 - 120
2444455	Strontium	102		P	80 - 120
2444455	Tin	104		P	80 - 120
2444455	Titanium	104		P	80 - 120
2444455	Vanadium	103		P	80 - 120
2444455	Zinc	106		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444081	Aluminum	97.4	97.4	P/P	80 - 120
2444081	Antimony	100	103	P/P	80 - 120
2444081	Arsenic	97.5	98.2	P/P	80 - 120
2444081	Barium	102	104	P/P	80 - 120
2444081	Beryllium	94.2	94.5	P/P	80 - 120
2444081	Boron	107	107	P/P	80 - 120
2444081	Cadmium	103	103	P/P	80 - 120
2444081	Chromium	102	101	P/P	80 - 120
2444081	Cobalt	95.9	95.6	P/P	80 - 120
2444081	Copper	93.3	93.0	P/P	80 - 120
2444081	Lead	95.2	96.4	P/P	80 - 120
2444081	Manganese	100	103	P/P	80 - 120
2444081	Molybdenum	102	102	P/P	80 - 120
2444081	Nickel	92.6	92.1	P/P	80 - 120
2444081	Selenium	94.3	94.3	P/P	80 - 120
2444081	Silver	108	109	P/P	80 - 120
2444081	Thallium	103	104	P/P	80 - 120
2444455	Aluminum	97.9		P	80 - 120
2444455	Antimony	103		P	80 - 120
2444455	Arsenic	96.9		P	80 - 120
2444455	Barium	102		P	80 - 120
2444455	Beryllium	93.8		P	80 - 120
2444455	Boron	109		P	80 - 120
2444455	Cadmium	102		P	80 - 120
2444455	Chromium	104		P	80 - 120
2444455	Cobalt	95.0		P	80 - 120
2444455	Copper	90.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444455	Lead	95.4		P	80 - 120
2444455	Manganese	103		P	80 - 120
2444455	Molybdenum	100		P	80 - 120
2444455	Nickel	91.8		P	80 - 120
2444455	Selenium	91.6		P	80 - 120
2444455	Silver	110		P	80 - 120
2444455	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P436819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444506	Chloride	100		P	90 - 110
2444639	Chloride	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P436822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444506	Sulfate	99.6		P	90 - 110
2444639	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P436615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444591	Ammonia-N	102	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P436500

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444509	Kjeldahl Nitrogen	108	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P436455

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444251	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444426	Total-P	101	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P436369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444428	O-Phosphate-P	98.5	99.5	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	77.4	97.3	P/P	50 - 150
2444261	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.4	114	P/P	29 - 155
2444261	Acetochlor	97.1	98.2	P/P	60 - 124
2444261	Alachlor	76.0	81.8	P/P	54 - 122
2444261	Ametryn	123	146	P/P	51 - 208
2444261	Atrazine Desethyl	77.8	102	P/P	13 - 124
2444261	Avobenzone	98.9	143	P/P	35 - 187
2444261	Azinphos Methyl	57.7	90.7	P/P	43 - 276
2444261	Azoxystrobin	98.2	106	P/P	52 - 300
2444261	Bromacil	104	112	P/P	44 - 134
2444261	Butylate	77.4	67.0	P/P	23 - 82.0
2444261	Caffeine	87.2	96.2	P/P	10 - 277
2444261	Carbophenothion	96.8	99.0	P/P	47 - 135
2444261	Carfentrazone Ethyl	99.7	95.1	P/P	46 - 147
2444261	Chlorfenapyr	63.6	64.4	P/P	43 - 114
2444261	Chlorpyrifos Ethyl	120	108	P/P	47 - 124
2444261	Chlorpyrifos Methyl	123	128	P/P	60 - 135
2444261	Coumaphos	63.0	127	P/P	10 - 222
2444261	Cyanazine	128	113	P/P	10 - 257
2444261	Cyprodinil	112	115	P/P	42 - 148
2444261	Dechlorane 602	53.6	73.0	P/P	14 - 133
2444261	Dechlorane 603	94.1	105	P/P	18 - 191
2444261	Dechlorane Plus	81.2	80.7	P/P	23 - 154
2444261	Demeton	80.1	78.1	P/P	41 - 137
2444261	Diazinon	137	115	P/P	64 - 139
2444261	Difenoconazole	43.6	90.5	F/P	46 - 254
2444261	Dimethenamid	77.7	85.0	P/P	47 - 117
2444261	Dimethomorph	138	255	P/P	14 - 255
2444261	Disulfoton	115	113	P/P	52 - 130
2444261	Dithiopyr	60.6	57.2	P/P	40 - 121
2444261	EPTC	70.2	61.3	P/P	19 - 78.0
2444261	Ethion	52.9	76.9	P/P	12 - 124
2444261	Ethoprop	99.5	98.4	P/P	68 - 144
2444261	Etridiazole	65.2	36.4	P/P	26 - 96.0
2444261	Fenamiphos	115	129	P/P	41 - 129
2444261	Fenbuconazole	36.4	78.9	P/P	26 - 169
2444261	Fipronil	87.8	101	P/P	46 - 145
2444261	Fipronil Desulfinyl	95.3	110	P/P	47 - 136
2444261	Fipronil Sulfide	90.0	105	P/P	41 - 127
2444261	Fipronil Sulfone	78.0	73.3	P/P	35 - 133
2444261	Fluazifop-P-butyl	136	112	F/P	46 - 131
2444261	Fludioxonil	80.6	74.5	P/P	51 - 124
2444261	Flumioxazin	71.8	117	P/P	10 - 289
2444261	Flutolanil	69.3	75.5	P/P	34 - 130
2444261	Fluxapyroxad	46.4	46.3	P/P	10 - 197
2444261	Fonofos	103	94.1	P/P	42 - 131
2444261	Hexabromobenzene	102	114	P/P	47 - 178
2444261	Imazalil	43.5	67.2	P/P	37 - 252
2444261	Iprodione	83.2	92.8	P/P	34 - 265
2444261	Loratadine	208	169	P/P	20 - 231
2444261	Malathion	93.6	91.1	P/P	34 - 164
2444261	Metalaxyl	76.5	90.4	P/P	49 - 125

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	Metolachlor	88.4	92.2	P/P	54 - 125
2444261	Metribuzin	73.2	62.1	P/P	51 - 139
2444261	Mevinphos	89.4	104	P/P	46 - 130
2444261	Molinate	67.0	61.7	P/P	39 - 93.0
2444261	Myclobutanil	78.3	92.3	P/P	50 - 130
2444261	Naled	59.2	81.9	P/P	10 - 150
2444261	Napropamide	66.5	84.4	P/P	10 - 109
2444261	Norflurazon	69.8	84.9	P/P	36 - 134
2444261	Octinoxate	107	116	P/P	18 - 170
2444261	Oxadiazon	75.2	87.5	P/P	43 - 112
2444261	Oxybenzone	110	124	P/P	33 - 154
2444261	Oxyfluorfen	111	118	P/P	62 - 154
2444261	Parathion Ethyl	97.5	100	P/P	65 - 120
2444261	Parathion Methyl	142	149	P/P	77 - 185
2444261	PBB-153	98.3	132	P/P	23 - 193
2444261	PBDE-47	82.0	101	P/P	31 - 139
2444261	PBDE-99	70.9	96.7	P/P	24 - 138
2444261	Pendimethalin	117	119	P/P	50 - 146
2444261	Pentabromotoluene	92.6	102	P/P	54 - 152
2444261	Phenytoin	50.5	57.0	P/P	10 - 157
2444261	Phorate	112	91.9	P/P	54 - 161
2444261	Prodiamine	60.6	63.2	P/P	29 - 160
2444261	Prometon	118	130	P/P	38 - 145
2444261	Prometryn	108	107	P/P	32 - 151
2444261	Pronamide	112	125	P/P	61 - 140
2444261	Propanil	100	110	P/P	50 - 147
2444261	Propargite	56.0	67.9	P/P	10 - 190
2444261	Propiconazole	66.7	74.6	P/P	30 - 146
2444261	Pyraflufen Ethyl	79.3	87.9	P/P	30 - 147
2444261	Pyridaben	33.4	79.3	P/P	15 - 195
2444261	Pyriproxyfen	63.5	90.8	P/P	31 - 218
2444261	Stiropfos	23.6	21.3	P/P	10 - 134
2444261	Sulfentrazone	46.3	56.6	F/P	53 - 186
2444261	Tebuconazole	41.2	61.6	P/P	10 - 133
2444261	Terbufos	106	100	P/P	65 - 151
2444261	Terbutylazine	83.2	98.8	P/P	62 - 117
2444261	Tetradecachloro-m-terphenyl	146	137	P/P	10 - 260
2444261	Thiobencarb	87.9	90.9	P/P	48 - 122
2444261	Tri-o-cresyl Phosphate	100	118	P/P	32 - 151
2444261	Triadimefon	57.1	75.3	P/P	46 - 124
2444261	Tris(1-chloro-2-propyl) phosphate (TCPP)	111	121	P/P	51 - 154
2444261	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	92.9	96.3	P/P	59 - 147
2444261	Tris(2-chloroethyl) phosphate (TCEP)	106	113	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P436330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444339	Acesulfame K	131	135	P/P	40 - 150
2444339	AMPA	86.2	96.9	P/P	40 - 150
2444339	Endothall	119	122	P/P	40 - 150
2444339	Glufosinate	92.1	86.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P436330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444339	Glyphosate	103	102	P/P	40 - 150
2444339	Sucralose	98.2	110	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444259	2,4-D	91.3	99.7	P/P	40 - 150
2444259	2,4,5-T	93.9	104	P/P	40 - 150
2444259	Acetaminophen	75.7	80.7	P/P	30 - 150
2444259	Acetamiprid	50.9	52.1	P/P	40 - 150
2444259	Afidopyropen	70.5	70.9	P/P	30 - 150
2444259	Bentazon	86.7	85.1	P/P	30 - 150
2444259	Benzovindiflupyr	80.1	86.6	P/P	40 - 150
2444259	Carbamazepine	43.1	45.1	P/P	40 - 150
2444259	Clothianidin	54.9	58.6	P/P	40 - 150
2444259	Dinotefuran	57.3	59.9	P/P	40 - 150
2444259	Diuron	42.3	42.5	P/P	40 - 150
2444259	Fenuron	33.2	35.6	F/F	40 - 150
2444259	Fluridone	51.7	54.2	P/P	40 - 150
2444259	Hydrocodone	54.7	58.0	P/P	40 - 150
2444259	Ibuprofen	51.8	50.1	P/P	40 - 150
2444259	Imazapyr	82.3	73.0	P/P	40 - 150
2444259	Imidacloprid	76.8	79.7	P/P	40 - 150
2444259	Linuron	54.2	49.7	P/P	40 - 150
2444259	Mandestrobin	66.5	73.4	P/P	40 - 150
2444259	MCPP	107	114	P/P	40 - 150
2444259	Naproxen	171	149	F/P	40 - 150
2444259	Primidone	57.9	51.1	P/P	40 - 150
2444259	Pyraclostrobin	79.4	79.7	P/P	40 - 150
2444259	Silvex	93.3	107	P/P	40 - 150
2444259	Thiamethoxam	63.8	66.6	P/P	40 - 150
2444259	Tolfenpyrad	58.7	61.9	P/P	30 - 150
2444259	Triclopyr	97.9	106	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P436576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444424	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P436658

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444488	Organic Carbon	95.0	97.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436367

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444423	Color (true)	0.712	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444435	Turbidity	3.95	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444081	Calcium	1.98	Spike	P	0 - 20
2444081	Iron	0.778	Spike	P	0 - 20
2444081	Magnesium	1.62	Spike	P	0 - 20
2444081	Potassium	3.05	Spike	P	0 - 20
2444081	Sodium	2.99	Spike	P	0 - 20
2444081	Strontium	1.67	Spike	P	0 - 20
2444081	Tin	0.489	Spike	P	0 - 20
2444081	Titanium	0.0434	Spike	P	0 - 20
2444081	Vanadium	0.317	Spike	P	0 - 20
2444081	Zinc	1.32	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444081	Aluminum	0.0135	Spike	P	0 - 20
2444081	Antimony	2.45	Spike	P	0 - 20
2444081	Arsenic	0.701	Spike	P	0 - 20
2444081	Barium	1.26	Spike	P	0 - 20
2444081	Beryllium	0.390	Spike	P	0 - 20
2444081	Boron	0.173	Spike	P	0 - 20
2444081	Cadmium	0.0364	Spike	P	0 - 20
2444081	Chromium	0.563	Spike	P	0 - 20
2444081	Cobalt	0.299	Spike	P	0 - 20
2444081	Copper	0.313	Spike	P	0 - 20
2444081	Lead	1.32	Spike	P	0 - 20
2444081	Manganese	1.15	Spike	P	0 - 20
2444081	Molybdenum	0.0603	Spike	P	0 - 20
2444081	Nickel	0.468	Spike	P	0 - 20
2444081	Selenium	0.0270	Spike	P	0 - 20
2444081	Silver	1.22	Spike	P	0 - 20
2444081	Thallium	1.38	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444506	Chloride	0.0812	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444506	Sulfate	0.462	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444591	Ammonia-N	2.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436500

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444509	Kjeldahl Nitrogen	3.65	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444251	NO2NO3-N	1.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444426	Total-P	5.31	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444428	O-Phosphate-P	0.760	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	22.8	Spike	P	0 - 30
2444261	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	24.3	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	Acetochlor	1.09	Spike	P	0 - 28
2444261	Alachlor	7.38	Spike	P	0 - 30
2444261	Ametryn	16.7	Spike	P	0 - 32
2444261	Atrazine	2.86	Spike	P	0 - 33
2444261	Atrazine Desethyl	24.0	Spike	P	0 - 36
2444261	Avobenzone	36.3	Spike	F	0 - 35
2444261	Azinphos Methyl	44.5	Spike	P	0 - 62
2444261	Azoxystrobin	7.43	Spike	P	0 - 39
2444261	Bromacil	7.05	Spike	P	0 - 33
2444261	Butylate	14.4	Spike	P	0 - 51
2444261	Caffeine	9.89	Spike	P	0 - 100
2444261	Carbophenothion	2.22	Spike	P	0 - 34
2444261	Carfentrazone Ethyl	4.74	Spike	P	0 - 33
2444261	Chlorfenapyr	1.20	Spike	P	0 - 28
2444261	Chlorpyrifos Ethyl	10.6	Spike	P	0 - 31
2444261	Chlorpyrifos Methyl	3.48	Spike	P	0 - 27
2444261	Coumaphos	67.2	Spike	F	0 - 62
2444261	Cyanazine	11.9	Spike	P	0 - 48
2444261	Cyprodinil	3.03	Spike	P	0 - 29
2444261	Dechlorane 602	30.7	Spike	P	0 - 60
2444261	Dechlorane 603	10.9	Spike	P	0 - 40
2444261	Dechlorane Plus	0.619	Spike	P	0 - 38
2444261	Demeton	2.54	Spike	P	0 - 33
2444261	Diazinon	17.4	Spike	P	0 - 32
2444261	Difenoconazole	69.9	Spike	P	0 - 71
2444261	Dimethenamid	8.98	Spike	P	0 - 60
2444261	Dimethomorph	59.4	Spike	P	0 - 61
2444261	Disulfoton	1.11	Spike	P	0 - 30
2444261	Dithiopyr	5.88	Spike	P	0 - 28
2444261	EPTC	13.5	Spike	P	0 - 56
2444261	Ethion	37.0	Spike	P	0 - 79
2444261	Ethoprop	1.07	Spike	P	0 - 31
2444261	Etridiazole	56.7	Spike	F	0 - 43
2444261	Fenamiphos	11.1	Spike	P	0 - 43
2444261	Fenbuconazole	73.6	Spike	P	0 - 79
2444261	Fipronil	14.4	Spike	P	0 - 46
2444261	Fipronil Desulfinyl	13.9	Spike	P	0 - 36
2444261	Fipronil Sulfide	15.1	Spike	P	0 - 34
2444261	Fipronil Sulfone	6.13	Spike	P	0 - 47
2444261	Fluazifop-P-butyl	19.6	Spike	P	0 - 38
2444261	Fludioxonil	7.88	Spike	P	0 - 29
2444261	Flumioxazin	47.5	Spike	P	0 - 63
2444261	Flutolanil	8.53	Spike	P	0 - 36
2444261	Fluxapyroxad	0.155	Spike	P	0 - 65
2444261	Fonofos	9.17	Spike	P	0 - 35
2444261	Hexabromobenzene	11.1	Spike	P	0 - 41
2444261	Hexazinone	0.365	Spike	P	0 - 31
2444261	Imazalil	42.9	Spike	P	0 - 52
2444261	Iprodione	11.0	Spike	P	0 - 49
2444261	Loratadine	20.5	Spike	P	0 - 59
2444261	Malathion	2.78	Spike	P	0 - 77

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	Metalaxyl	12.8	Spike	P	0 - 76
2444261	Metolachlor	4.20	Spike	P	0 - 29
2444261	Metribuzin	16.4	Spike	P	0 - 51
2444261	Mevinphos	15.4	Spike	P	0 - 31
2444261	Molinate	8.23	Spike	P	0 - 39
2444261	Myclobutanil	16.4	Spike	P	0 - 34
2444261	Naled	32.1	Spike	P	0 - 37
2444261	Napropamide	23.8	Spike	P	0 - 100
2444261	Norflurazon	19.6	Spike	P	0 - 54
2444261	Octinoxate	7.88	Spike	P	0 - 35
2444261	Oxadiazon	15.2	Spike	P	0 - 34
2444261	Oxybenzone	11.7	Spike	P	0 - 35
2444261	Oxyfluorfen	6.21	Spike	P	0 - 28
2444261	Parathion Ethyl	2.70	Spike	P	0 - 31
2444261	Parathion Methyl	4.88	Spike	P	0 - 29
2444261	PBB-153	29.0	Spike	P	0 - 49
2444261	PBDE-47	20.7	Spike	P	0 - 36
2444261	PBDE-99	30.8	Spike	P	0 - 46
2444261	Pendimethalin	1.39	Spike	P	0 - 31
2444261	Pentabromotoluene	9.50	Spike	P	0 - 16
2444261	Phenytoin	12.1	Spike	P	0 - 100
2444261	Phorate	19.6	Spike	P	0 - 36
2444261	Prodiamine	4.17	Spike	P	0 - 68
2444261	Prometon	9.87	Spike	P	0 - 35
2444261	Prometryn	0.802	Spike	P	0 - 33
2444261	Pronamide	11.4	Spike	P	0 - 24
2444261	Propanil	9.37	Spike	P	0 - 28
2444261	Propargite	19.2	Spike	P	0 - 53
2444261	Propiconazole	11.1	Spike	P	0 - 44
2444261	Pyraflufen Ethyl	10.3	Spike	P	0 - 61
2444261	Pyridaben	35.9	Spike	P	0 - 43
2444261	Pyriproxyfen	35.4	Spike	P	0 - 82
2444261	Simazine	7.23	Spike	P	0 - 29
2444261	Stirophos	10.3	Spike	P	0 - 100
2444261	Sulfentrazone	20.0	Spike	P	0 - 64
2444261	Tebuconazole	39.6	Spike	P	0 - 76
2444261	Terbufos	5.98	Spike	P	0 - 29
2444261	Terbuthylazine	17.1	Spike	P	0 - 28
2444261	Tetradecachloro-m-terphenyl	6.75	Spike	P	0 - 42
2444261	Thiobencarb	3.43	Spike	P	0 - 26
2444261	Tri-o-cresyl Phosphate	15.9	Spike	P	0 - 24
2444261	Triadimefon	18.2	Spike	P	0 - 40
2444261	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.59	Spike	P	0 - 30
2444261	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.59	Spike	P	0 - 22
2444261	Tris(2-chloroethyl) phosphate (TCEP)	5.91	Spike	P	0 - 15

Reference Method: EPA 8321B

Batch ID: P436330

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: P436330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444339	Acesulfame K	2.92	Spike	P	0 - 30
2444339	AMPA	10.3	Spike	P	0 - 30
2444339	Endothall	2.11	Spike	P	0 - 30
2444339	Glufosinate	6.16	Spike	P	0 - 30
2444339	Glyphosate	0.344	Spike	P	0 - 30
2444339	Sucralose	6.82	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444259	2,4-D	8.17	Spike	P	0 - 30
2444259	2,4,5-T	10.2	Spike	P	0 - 30
2444259	Acetaminophen	6.31	Spike	P	0 - 30
2444259	Acetamiprid	2.26	Spike	P	0 - 30
2444259	Afidopyropen	0.474	Spike	P	0 - 30
2444259	Bentazon	1.90	Spike	P	0 - 30
2444259	Benzovindiflupyr	7.81	Spike	P	0 - 30
2444259	Carbamazepine	4.61	Spike	P	0 - 30
2444259	Clothianidin	6.45	Spike	P	0 - 30
2444259	Dinotefuran	4.50	Spike	P	0 - 30
2444259	Diuron	0.355	Spike	P	0 - 30
2444259	Fenuron	6.92	Spike	P	0 - 30
2444259	Fluridone	3.98	Spike	P	0 - 30
2444259	Hydrocodone	5.79	Spike	P	0 - 30
2444259	Ibuprofen	3.24	Spike	P	0 - 30
2444259	Imazapyr	8.50	Spike	P	0 - 30
2444259	Imidacloprid	3.61	Spike	P	0 - 30
2444259	Linuron	8.77	Spike	P	0 - 30
2444259	Mandestrobin	9.89	Spike	P	0 - 30
2444259	MCPP	6.19	Spike	P	0 - 30
2444259	Naproxen	13.4	Spike	P	0 - 30
2444259	Primidone	12.4	Spike	P	0 - 30
2444259	Pyraclostrobin	0.377	Spike	P	0 - 30
2444259	Silvex	13.8	Spike	P	0 - 30
2444259	Thiamethoxam	4.34	Spike	P	0 - 30
2444259	Tolfenpyrad	5.24	Spike	P	0 - 30
2444259	Triclopyr	7.65	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444291	Total Alkalinity	0.490	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P436961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444291	TDS	5.00	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444424	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444488	Organic Carbon	1.30	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2444492
Field Sample ID: G4SE0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	41.0	P	30 - 160
EPA 8321B	Diuron-d6	33.9	P	30 - 160
EPA 8321B	Endothall-d6	121	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	52.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.6	P	30 - 160
EPA 8321B	Primidone-d5	54.9	P	30 - 160
EPA 8321B	Sucralose-d6	98.0	P	30 - 160

Lab Sample ID: 2444494
Field Sample ID: G4SE0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	83.5	P	20 - 200
EPA 8270E	Simazine-d10	128	P	58 - 137
EPA 8270E	Terbufos-d10	105	P	50 - 134
EPA 8270E	Terphenyl-d14	114	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122083

Included Lab Sample IDs: 2444487

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A122085

Included Lab Sample IDs: 2444487

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122087

Included Lab Sample IDs: 2444489

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	98.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122130

Included Lab Sample IDs: 2444488

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

Reference Method: SM 2320 B-2011

Run ID: A122131

Included Lab Sample IDs: 2444487

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.3	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122171

Included Lab Sample IDs: 2444488

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

Reference Method: EPA 8321B

Run ID: A122173

Included Lab Sample IDs: 2444492

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.0	86.2	P/P	50 - 150
2,4,5-T	87.0	88.4	P/P	50 - 150
Acetaminophen	109	115	P/P	60 - 160
Acetamiprid	106	103	P/P	50 - 150
Afidopyropen	112	101	P/P	50 - 150
Bentazon	117	108	P/P	50 - 160
Benzovindiflupyr	131	108	P/P	50 - 150
Carbamazepine	99.9	103	P/P	60 - 150
Clothianidin	104	106	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122173
Included Lab Sample IDs: 2444492

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dinotefuran	106	110	P/P	50 - 150
Diuron	109	110	P/P	60 - 160
Fenuron	109	104	P/P	60 - 150
Fluridone	104	99.5	P/P	60 - 160
Hydrocodone	101	106	P/P	60 - 150
Ibuprofen	93.9	83.4	P/P	50 - 160
Imazapyr	84.5	83.6	P/P	50 - 150
Imidacloprid	96.8	93.4	P/P	60 - 150
Linuron	103	103	P/P	60 - 150
Mandestrobin	110	104	P/P	50 - 150
MCPP	92.3	82.6	P/P	50 - 150
Naproxen	101	102	P/P	50 - 160
Primidone	98.4	98.5	P/P	60 - 150
Pyraclostrobin	116	106	P/P	60 - 150
Silvex	84.4	98.1	P/P	50 - 150
Thiamethoxam	104	102	P/P	50 - 150
Tolfenpyrad	128	115	P/P	60 - 150
Triclopyr	76.7	85.9	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A122179
Included Lab Sample IDs: 2444492

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	109	P/P	60 - 160
Sucralose	98.8	103	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A122180
Included Lab Sample IDs: 2444492

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.0	92.5	P/P	60 - 160
Endothall	86.1	92.0	P/P	60 - 160
Glufosinate	100	107	P/P	60 - 160
Glyphosate	80.9	92.7	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A122183
Included Lab Sample IDs: 2444493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.4	99.6	P/P	90 - 110
Antimony	101	100	P/P	90 - 110
Arsenic	93.6	94.4	P/P	90 - 110
Barium	99.0	98.9	P/P	90 - 110
Beryllium	95.2	95.6	P/P	90 - 110
Boron	104	104	P/P	90 - 110
Cadmium	103	103	P/P	90 - 110
Chromium	105	107	P/P	90 - 110
Cobalt	94.5	95.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122183

Included Lab Sample IDs: 2444493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	91.3	91.9	P/P	90 - 110
Lead	94.8	94.4	P/P	90 - 110
Manganese	103	106	P/P	90 - 110
Molybdenum	98.3	98.2	P/P	90 - 110
Nickel	92.1	92.3	P/P	90 - 110
Selenium	97.6	97.6	P/P	90 - 110
Silver	102	101	P/P	90 - 110
Thallium	98.8	98.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122184

Included Lab Sample IDs: 2444487

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122190

Included Lab Sample IDs: 2444493

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.5	104	P/P	90 - 110
Iron	100	99.2	P/P	90 - 110
Magnesium	99.8	98.3	P/P	90 - 110
Potassium	95.4	98.3	P/P	90 - 110
Sodium	92.9	97.0	P/P	90 - 110
Strontium	102	102	P/P	90 - 110
Tin	105	103	P/P	90 - 110
Titanium	104	104	P/P	90 - 110
Vanadium	103	103	P/P	90 - 110
Zinc	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122194

Included Lab Sample IDs: 2444488

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122195

Included Lab Sample IDs: 2444488

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122209

Included Lab Sample IDs: 2444487

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122209

Included Lab Sample IDs: 2444487

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

Reference Method: SM 5310 B-2011

Run ID: A122210

Included Lab Sample IDs: 2444488

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122283

Included Lab Sample IDs: 2444494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	94.1		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.1		P	80 - 120
Avobenzene	92.4		P	80 - 120
Dechlorane 602	96.4		P	80 - 120
Dechlorane 603	96.5		P	80 - 120
Dechlorane Plus	93.4		P	80 - 120
Hexabromobenzene	90.2		P	80 - 120
Octinoxate	88.9		P	80 - 120
Oxybenzone	94.1		P	80 - 120
PBB-153	89.9		P	80 - 120
PBDE-47	90.4		P	80 - 120
PBDE-99	86.4		P	80 - 120
Pentabromotoluene	100		P	80 - 120
Tetradecachloro-m-terphenyl	89.7		P	80 - 120
Tri-o-cresyl Phosphate	92.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122457

Included Lab Sample IDs: 2444494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.5		P	80 - 120
Alachlor	95.5		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	115		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	95.8		P	80 - 120
Bromacil	96.9		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	110		P	80 - 120
Carbophenothion	109		P	80 - 120
Carfentrazone Ethyl	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorfenapyr	86.9		P	80 - 120
Chlorpyrifos Ethyl	89.2		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	100		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	112		P	80 - 120
Diazinon	108		P	80 - 120
Difenoconazole	96.4		P	80 - 120
Dimethenamid	113		P	80 - 120
Dimethomorph	107		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	110		P	80 - 120
EPTC	98.4		P	80 - 120
Ethion	92.0		P	80 - 120
Ethoprop	62.2*		F	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	96.6		P	80 - 120
Fipronil	93.0		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	98.6		P	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	115		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	77.2*		F	80 - 120
Fonofos	90.2		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	115		P	80 - 120
Iprodione	90.1		P	80 - 120
Loratadine	95.0		P	80 - 120
Malathion	87.0		P	80 - 120
Metalaxyl	93.3		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	92.1		P	80 - 120
Mevinphos	86.1		P	80 - 120
Molinate	87.4		P	80 - 120
Myclobutanil	94.7		P	80 - 120
Naled	107		P	80 - 120
Napropamide	114		P	80 - 120
Norflurazon	117		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	112		P	80 - 120
Parathion Ethyl	97.7		P	80 - 120
Parathion Methyl	96.3		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytol	95.7		P	80 - 120
Phorate	97.7		P	80 - 120
Proflumicarb	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometon	99.4		P	80 - 120
Prometryn	98.6		P	80 - 120
Pronamide	108		P	80 - 120
Propanil	95.4		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	104		P	80 - 120
Pyriproxyfen	108		P	80 - 120
Simazine	90.1		P	80 - 120
Stirophos	92.9		P	80 - 120
Sulfentrazone	94.7		P	80 - 120
Tebuconazole	109		P	80 - 120
Terbufos	85.1		P	80 - 120
Terbutylazine	93.4		P	80 - 120
Thiobencarb	109		P	80 - 120
Triadimefon	113		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)	97.0					0.712	
EPA 180.1 Rev. 2.0	Turbidity	104					3.95	
EPA 200.7 Rev. 4.4	Calcium	101	103	101				1.98
	Iron	105	104	105	103			0.778
	Magnesium	107	105	107	103			1.62
	Potassium	98.0	98.3	103	106			3.05
	Sodium	100	100	106	98.9			2.99
	Strontium	101	101	103	102			1.67
	Tin	106	102	102	104			0.489
	Titanium	101	104	104	104			0.0434
	Vanadium	103	103	104	103			0.317
	Zinc	105	104	105	106			1.32
EPA 200.8 Rev. 5.4	Aluminum	95.6	97.4	97.4	97.9			0.0135
	Antimony	96.1	100	103	103			2.45
	Arsenic	96.7	97.5	98.2	96.9			0.701
	Barium	99.1	102	104	102			1.26
	Beryllium	93.0	94.2	94.5	93.8			0.390
	Boron	98.2	107	107	109			0.173
	Cadmium	98.4	103	103	102			0.0364
	Chromium	96.1	102	101	104			0.563
	Cobalt	96.4	95.9	95.6	95.0			0.299
	Copper	94.7	93.3	93.0	90.7			0.313
	Lead	92.8	95.2	96.4	95.4			1.32
	Manganese	96.0	100	103	103			1.15
	Molybdenum	95.8	102	102	100			0.0603
	Nickel	95.2	92.6	92.1	91.8			0.468
	Selenium	95.2	94.3	94.3	91.6			0.0270
	Silver	107	108	109	110			1.22
	Thallium	98.0	103	104	102			1.38
EPA 300.0 Rev. 2.1	Chloride	99.8	100	99.8			0.0812	
	Sulfate	98.8	99.6	97.8			0.462	
EPA 350.1 Rev. 2.0	Ammonia-N	101	102	99.2				2.15
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	108	103				3.65
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	102				1.49
EPA 365.1 Rev. 2.0	Total-P	103	101	107				5.31
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3	98.5	99.5				0.760
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	78.0	77.4	97.3				22.8
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	47.9	89.4	114				24.3
	Acetochlor	80.3	97.1	98.2				1.09
	Alachlor	67.8	76.0	81.8				7.38
	Ametryn	154	123	146				16.7
	Atrazine	88.1						2.86
	Atrazine Desethyl	82.4	77.8	102				24.0
	Avobenzone	108	98.9	143				36.3
	Azinphos Methyl	61.6	57.7	90.7				44.5
	Azoxystrobin	77.8	98.2	106				7.43
	Bromacil	102	104	112				7.05
	Butylate	71.4	77.4	67.0				14.4
	Caffeine	137	87.2	96.2				9.89
	Carbophenothion	91.2	96.8	99.0				2.22
	Carfentrazone Ethyl	101	99.7	95.1				4.74

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorfenapyr	81.1	63.6	64.4		1.20
	Chlorpyrifos Ethyl	94.7	120	108		10.6
	Chlorpyrifos Methyl	118	123	128		3.48
	Coumaphos	104	63.0	127		67.2
	Cyanazine	213	128	113		11.9
	Cyprodinil	133	112	115		3.03
	Dechlorane 602	51.5	53.6	73.0		30.7
	Dechlorane 603	107	94.1	105		10.9
	Dechlorane Plus	97.3	81.2	80.7		0.619
	Demeton	96.9	80.1	78.1		2.54
	Diazinon	129	137	115		17.4
	Difenoconazole	39.1	43.6	90.5		69.9
	Dimethenamid	64.0	77.7	85.0		8.98
	Dimethomorph	167	138	255		59.4
	Disulfoton	90.2	115	113		1.11
	Dithiopyr	78.3	60.6	57.2		5.88
	EPTC	68.5	70.2	61.3		13.5
	Ethion	46.8	52.9	76.9		37.0
	Ethoprop	102	99.5	98.4		1.07
	Etridiazole	66.4	65.2	36.4		56.7
	Fenamiphos	92.1	115	129		11.1
	Fenbuconazole	44.4	36.4	78.9		73.6
	Fipronil	119	87.8	101		14.4
	Fipronil Desulfinyl	74.5	95.3	110		13.9
	Fipronil Sulfide	85.2	90.0	105		15.1
	Fipronil Sulfone	95.8	78.0	73.3		6.13
	Fluazifop-P-butyl	140	136	112		19.6
	Fludioxonil	82.1	80.6	74.5		7.88
	Flumioxazin	42.9	71.8	117		47.5
	Flutolanil	104	69.3	75.5		8.53
	Fluxapyroxad	29.8	46.4	46.3		0.155
	Fonofos	101	103	94.1		9.17
	Hexabromobenzene	81.7	102	114		11.1
	Hexazinone	92.7				0.365
	Imazalil	81.2	43.5	67.2		42.9
	Iprodione	118	83.2	92.8		11.0
	Loratadine	134	208	169		20.5
	Malathion	111	93.6	91.1		2.78
	Metalaxyl	74.9	76.5	90.4		12.8
	Metolachlor	113	88.4	92.2		4.20
	Metribuzin	42.2	73.2	62.1		16.4
	Mevinphos	94.9	89.4	104		15.4
	Molinate	79.7	67.0	61.7		8.23
	Myclobutanil	81.3	78.3	92.3		16.4
	Naled	33.4	59.2	81.9		32.1
	Napropamide	74.3	66.5	84.4		23.8
	Norflurazon	52.3	69.8	84.9		19.6
	Octinoxate	123	107	116		7.88
	Oxadiazon	71.5	75.2	87.5		15.2
	Oxybenzone	115	110	124		11.7
	Oxyfluorfen	113	111	118		6.21
	Parathion Ethyl	110	97.5	100		2.70
	Parathion Methyl	96.7	142	149		4.88
	PBB-153	61.4	98.3	132		29.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	PBDE-47	73.7	82.0	101			20.7
	PBDE-99	54.3	70.9	96.7			30.8
	Pendimethalin	112	117	119			1.39
	Pentabromotoluene	93.6	92.6	102			9.50
	Phenytoln	32.9	50.5	57.0			12.1
	Phorate	96.8	112	91.9			19.6
	Prodiamine	34.9	60.6	63.2			4.17
	Prometon	113	118	130			9.87
	Prometryn	126	108	107			0.802
	Pronamide	108	112	125			11.4
	Propanil	103	100	110			9.37
	Propargite	48.9	56.0	67.9			19.2
	Propiconazole	64.1	66.7	74.6			11.1
	Pyraflufen Ethyl	70.1	79.3	87.9			10.3
	Pyridaben	84.6	33.4	79.3			35.9
	Pyriproxyfen	50.1	63.5	90.8			35.4
	Simazine	84.3					7.23
	Stirophos	28.4	23.6	21.3			10.3
	Sulfentrazone	23.2	46.3	56.6			20.0
	Tebuconazole	43.8	41.2	61.6			39.6
	Terbufos	113	106	100			5.98
	Terbuthylazine	94.5	83.2	98.8			17.1
	Tetradecachloro-m-terphenyl	149	146	137			6.75
	Thiobencarb	82.0	87.9	90.9			3.43
	Tri-o-cresyl Phosphate	107	100	118			15.9
	Triadimefon	83.3	57.1	75.3			18.2
	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	111	121			8.59
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7	92.9	96.3			3.59
	Tris(2-chloroethyl) phosphate (TCEP)	104	106	113			5.91
EPA 8321B	2,4-D	62.9	91.3	99.7			8.17
	2,4,5-T	68.5	93.9	104			10.2
	Acesulfame K	101	131	135			2.92
	Acetaminophen	81.1	75.7	80.7			6.31
	Acetamiprid	81.1	50.9	52.1			2.26
	Afidopyropen	69.5	70.5	70.9			0.474
	AMPA	85.5	86.2	96.9			10.3
	Bentazon	94.8	86.7	85.1			1.90
	Benzovindiflupyr	93.1	80.1	86.6			7.81
	Carbamazepine	71.3	43.1	45.1			4.61
	Clothianidin	81.9	54.9	58.6			6.45
	Dinotefuran	92.7	57.3	59.9			4.50
	Diuron	69.1	42.3	42.5			0.355
	Endothall	97.0	119	122			2.11
	Fenuron	87.5	33.2	35.6			6.92
	Fluridone	74.2	51.7	54.2			3.98
	Glufosinate	91.6	92.1	86.6			6.16
	Glyphosate	86.8	103	102			0.344
	Hydrocodone	84.3	54.7	58.0			5.79
	Ibuprofen	65.7	51.8	50.1			3.24
	Imazapyr	73.9	82.3	73.0			8.50
	Imidacloprid	79.2	76.8	79.7			3.61

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Linuron	58.0	54.2	49.7		8.77
	Mandestrobin	80.1	66.5	73.4		9.89
	MCP	77.9	107	114		6.19
	Naproxen	62.6	171	149		13.4
	Primidone	76.1	57.9	51.1		12.4
	Pyraclostrobin	70.4	79.4	79.7		0.377
	Silvex	68.5	93.3	107		13.8
	Sucralose	105	98.2	110		6.82
	Thiamethoxam	77.1	63.8	66.6		4.34
	Tolfenpyrad	54.5	58.7	61.9		5.24
	Triclopyr	69.6	97.9	106		7.65
SM 2320 B-2011	Total Alkalinity	97.5			0.490	
SM 2540 C-2015	TDS	91.6			5.00	
SM 2540 D-2015	TSS	107				
SM 4500-F- C-2011	Fluoride	99.0	103	103		0.0
SM 5310 B-2011	Organic Carbon	95.6	95.0	97.1		1.30

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2444487
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2444487
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2444493
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2444493
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2444487
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2444487
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2444488
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2444488
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2444488
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2444488
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2444489
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2444494
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2444494
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2444492
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2444487
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2444493
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2444487
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2444487
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2444487
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2444488

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	10/11/2023			10/11/2023 15:11	Chandler E Cox	2444487
EPA 180.1 Rev. 2.0	10/11/2023			10/11/2023 14:29	Samantha L Bates	2444487
EPA 200.7 Rev. 4.4	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 21:54	McKinley C Carter	2444493
EPA 200.8 Rev. 5.4	10/11/2023	10/12/2023 11:50	George D Taylor	10/16/2023 19:25	Conrad Hartmann	2444493
EPA 300.0 Rev. 2.1	10/11/2023			10/18/2023 14:32	James L Waggeberby	2444487
EPA 350.1 Rev. 2.0	10/11/2023			10/17/2023 14:27	Ping Hua	2444488
EPA 351.2 Rev. 2.0	10/11/2023	10/13/2023 15:51	Simonne.V. Calhoun	10/16/2023 14:32	Samantha L Bates	2444488
EPA 353.2 Rev. 2.0	10/11/2023			10/12/2023 13:52	Anna M. Plaviak	2444488
EPA 365.1 Rev. 2.0	10/11/2023	10/13/2023 12:30	Adam P Silver	10/17/2023 12:10	James L Waggeberby	2444488
EPA 365.1 Rev. 2.0 dissolved	10/11/2023			10/11/2023 14:58	Elise M. Gillis	2444489
EPA 8270E	10/11/2023	10/16/2023 08:00	Fe-Val Siddell	10/20/2023 18:52	Arthur Maknenko	2444494
	10/11/2023	10/16/2023 08:00	Fe-Val Siddell	10/23/2023 17:46	Vandana T. Nagar	2444494
EPA 8321B	10/11/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 06:14	Juyoung Kim	2444492
	10/11/2023	10/16/2023 12:00	Hana Lee	10/16/2023 16:38	Hana Lee	2444492
	10/11/2023	10/16/2023 12:00	Hana Lee	10/17/2023 01:39	Hana Lee	2444492
SM 2320 B-2011	10/11/2023			10/12/2023 20:46	Chandler E Cox	2444487
SM 2340 B-2011	10/11/2023			10/16/2023 21:54	McKinley C Carter	2444493
SM 2540 C-2015	10/11/2023			10/16/2023 15:32	Yijie Li	2444487
SM 2540 D-2015	10/11/2023			10/16/2023 15:32	Yijie Li	2444487
SM 4500-F- C-2011	10/11/2023			10/16/2023 18:54	Adam P Silver	2444487
SM 5310 B-2011	10/11/2023			10/16/2023 16:18	Khloe J Berg	2444488