Chemical Analysis Report

NE-DIST-2024-04-18-01

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

Event Description: **SCI SMP**
Request ID: **RQ-2024-04-15-16**
Customer: **NE-DIST**
Project ID: **SMP**

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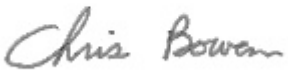
Certified by: Chris Bowen, Environmental Administrator

Date Certified: 16-MAY-2024 23:45



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: 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: RYALS SWAMP EAST BRANCH (MAIN) AT JTB Collection Date/Time: 04/17/2024 09:45

Field ID: 20030855 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2483282	DEP SOP: NU-094-1	Color (true)	58		PCU	P444475	
	EPA 180.1 Rev. 2.0	Turbidity	3.6	A	NTU	P444493	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P444876	
		Sulfate	19		mg SO4/L	P444879	
	SM 2320 B-2011	Total Alkalinity	162		mg CaCO3/L	P444691	
	SM 2540 C-2015	TDS	268	A	mg/L	P444845	
	SM 2540 D-2015	TSS	5	I A	mg/L	P444744	
	SM 4500-F- C-2011	Fluoride	0.081	I	mg F/L	P445376	
2483283	EPA 350.1 Rev. 2.0	Ammonia-N	0.098		mg N/L	P444569	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P445311	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P445196	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P444616	
	SM 5310 B-2014	Organic Carbon	12		mg C/L	P444771	
2483284	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.13		mg P/L	P444470	
2483290	EPA 8321B	2,4-D	0.0020	U	ug/L	P444465	
		Acesulfame K	0.10	I	ug/L	P444443	
		2,4,5-T	0.0040	U	ug/L	P444465	
		AMPA	0.43		ug/L	P444443	
		Acetaminophen	0.0080	U	ug/L	P444465	
		Acetamiprid	0.0020	U	ug/L	P444465	
		Endothall	0.25	U	ug/L	P444443	
		Glufosinate	0.10	U	ug/L	P444443	
		Glyphosate	1.4		ug/L	P444443	
		Afidopyropen	0.0020	U	ug/L	P444465	
		Bentazon	0.0025	I	ug/L	P444465	
		Sucralose	0.13		ug/L	P444443	
		Benzovindiflupyr	0.0020	U	ug/L	P444465	
		Carbamazepine	8.0E-04	U	ug/L	P444465	
		Clothianidin	0.0020	U	ug/L	P444465	
		Dinotefuran	0.0020	U	ug/L	P444465	
		Diuron	0.0020	U	ug/L	P444465	
		Fenuron	0.032	U	ug/L	P444465	
		Fluridone	0.0058		ug/L	P444465	
		Imazapyr	0.45		ug/L	P444465	
		Hydrocodone	0.0020	U	ug/L	P444465	
		Ibuprofen	0.080	U	ug/L	P444465	
		Imidacloprid	0.0020	U	ug/L	P444465	
		Linuron	0.0020	U	ug/L	P444465	
		Mandestrobin	0.0020	U	ug/L	P444465	
		MCPP	0.0020	U	ug/L	P444465	
		Naproxen	0.0080	U	ug/L	P444465	
		Primidone	0.0040	U	ug/L	P444465	
		Pyraclostrobin	0.0020	U	ug/L	P444465	

Field ID: 20030855 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2483290	EPA 8321B	Silvex	0.0040	U	ug/L	P444465	
		Thiamethoxam	0.0020	U	ug/L	P444465	
		Tolfenpyrad	0.0020	U	ug/L	P444465	
		Triclopyr	0.0040	U	ug/L	P444465	
2483291	EPA 200.7 Rev. 4.4	Calcium	65.2		mg/L	P444559	
		Iron	360		ug/L	P444559	
		Magnesium	4.29		mg/L	P444559	
		Potassium	1.1	I	mg/L	P444559	
		Sodium	12.8		mg/L	P444559	
		Strontium	451		ug/L	P444559	
		Tin	3.0	U	ug/L	P444559	
		Titanium	0.99	I	ug/L	P444559	
		Vanadium	2.0	U	ug/L	P444559	
		Zinc	9.3	I	ug/L	P444559	
	EPA 200.8 Rev. 5.4	Aluminum	138		ug/L	P444559	
		Antimony	0.063	I	ug/L	P444559	
		Arsenic	0.29		ug/L	P444559	
		Barium	25.0		ug/L	P444559	
		Beryllium	0.041		ug/L	P444559	
		Boron	22.3		ug/L	P444559	
		Cadmium	0.020	U	ug/L	P444559	
		Chromium	0.40	U	ug/L	P444559	
		Cobalt	0.063	I	ug/L	P444559	
		Copper	0.94		ug/L	P444559	
		Lead	0.20	U	ug/L	P444559	
		Manganese	27.1		ug/L	P444559	
		Molybdenum	0.15	U	ug/L	P444559	
		Nickel	0.50	U	ug/L	P444559	
		Selenium	0.20	U	ug/L	P444559	
		Silver	0.010	U	ug/L	P444559	
		Thallium	0.10	U	ug/L	P444559	
	SM 2340 B-2011	Hardness	180		mg/L	P444559	
2483292	EPA 8270E	Oxybenzone**	11	UJ	ng/L	P444414	MS, RPD, SUR
		Acetochlor	0.22	U	ng/L	P444414	
		Octinoxate**	170	UJ	ng/L	P444414	RPD, SUR
		Alachlor	0.45	U	ng/L	P444414	
		Avobenzone**	110	UJ	ng/L	P444414	SUR
		Ametryn	1.2	U	ng/L	P444414	
		Atrazine	190		ng/L	P444414	
		PBDE-47**	4.5	UJ	ng/L	P444414	SUR
		Atrazine Desethyl	20		ng/L	P444414	
		PBDE-99**	5.6	UJ	ng/L	P444414	SUR
		Azinphos Methyl	3.3	U	ng/L	P444414	
		Tri-o-cresyl Phosphate**	6.7	UJ	ng/L	P444414	RPD, SUR

Field ID: 20030855 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2483292	EPA 8270E	Azoxystrobin	0.45	U	ng/L	P444414	
		Bromacil	0.67	U	ng/L	P444414	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	UJ	ng/L	P444414	SUR
		Butylate	0.50	U	ng/L	P444414	
		Dechlorane Plus**	33	UJ	ng/L	P444414	SUR
		Caffeine**	15	I	ng/L	P444414	
		Dechlorane 602**	5.6	UJ	ng/L	P444414	SUR
		Carbophenothion	0.56	U	ng/L	P444414	
		Dechlorane 603**	4.5	UJ	ng/L	P444414	SUR
		Carfentrazone Ethyl	0.17	U	ng/L	P444414	
		Hexabromobenzene**	6.7	UJ	ng/L	P444414	SUR
		Chlorfenapyr	0.33	U	ng/L	P444414	
		PBB-153**	6.7	UJ	ng/L	P444414	SUR
		Chlorpyrifos Ethyl	0.33	U	ng/L	P444414	
		Pentabromotoluene**	3.3	UJ	ng/L	P444414	RPD, SUR
		Chlorpyrifos Methyl	0.11	U	ng/L	P444414	
		Tris(2-chloroethyl) phosphate (TCEP)**	61	UJ	ng/L	P444414	MS, RPD, SUR
		Coumaphos	1.2	U	ng/L	P444414	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	66	I J	ng/L	P444414	MS, RPD, SUR
		Cyanazine	5.6	U	ng/L	P444414	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.8	I J	ng/L	P444414	RPD, SUR
		Cyprodinil	0.22	U	ng/L	P444414	
		Tetradecachloro-m-terphenyl**	8.4	UJ	ng/L	P444414	SUR
		Demeton	3.9	U	ng/L	P444414	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	67	UJ	ng/L	P444414	SUR
		Diazinon	0.14	U	ng/L	P444414	
		Difenoconazole	0.67	U	ng/L	P444414	
		Dimethenamid	0.11	U	ng/L	P444414	
		Dimethomorph	0.33	U	ng/L	P444414	
		Disulfoton	0.67	U	ng/L	P444414	
		Dithiopyr	1.1	UJ	ng/L	P444414	LCS
		EPTC	0.56	U	ng/L	P444414	
		Ethion	0.33	U	ng/L	P444414	
		Ethoprop	0.14	U	ng/L	P444414	
		Etridiazole	0.11	U	ng/L	P444414	
		Fenamiphos	0.50	U	ng/L	P444414	
		Fenbuconazole	0.56	U	ng/L	P444414	
		Fipronil	0.22	U	ng/L	P444414	
		Fipronil Desulfinyl**	0.17	I	ng/L	P444414	
		Fipronil Sulfide	0.11	U	ng/L	P444414	
		Fipronil Sulfone	0.47	I	ng/L	P444414	
		Fluazifop-P-butyl	0.11	U	ng/L	P444414	
		Fludioxonil	0.11	U	ng/L	P444414	

Field ID: 20030855 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2483292	EPA 8270E	Flumioxazin	3.3	U	ng/L	P444414	
		Flutolanil	0.11	U	ng/L	P444414	
		Fluxapyroxad	0.28	U	ng/L	P444414	
		Fonofos	0.17	U	ng/L	P444414	
		Hexazinone	0.56	U	ng/L	P444414	
		Imazalil	0.73	U	ng/L	P444414	
		Iprodione	0.56	U	ng/L	P444414	
		Loratadine**	0.33	U	ng/L	P444414	
		Malathion	0.39	U	ng/L	P444414	
		Metalaxyl	0.56	U	ng/L	P444414	
		Metolachlor	1.3	I	ng/L	P444414	
		Metribuzin	0.45	U	ng/L	P444414	
		Mevinphos	1.1	U	ng/L	P444414	
		Molinate	0.28	U	ng/L	P444414	
		Myclobutanil	0.39	U	ng/L	P444414	
		Naled	2.8	U	ng/L	P444414	
		Napropamide	0.78	U	ng/L	P444414	
		Norflurazon	1.1	U	ng/L	P444414	
		Oxadiazon	0.61	I	ng/L	P444414	
		Oxyfluorfen	0.22	U	ng/L	P444414	
		Parathion Ethyl	0.17	U	ng/L	P444414	
		Parathion Methyl	0.22	UJ	ng/L	P444414	LCS
		Pendimethalin	1.9	UJ	ng/L	P444414	LCS, MS
		Phenytoin**	5.9	U	ng/L	P444414	
		Phorate	0.28	U	ng/L	P444414	
		Prodiamine	0.22	U	ng/L	P444414	
		Prometon	3.3	U	ng/L	P444414	
		Prometryn	0.39	U	ng/L	P444414	
		Pronamide	0.11	U	ng/L	P444414	
		Propanil	0.11	U	ng/L	P444414	
		Propargite	0.89	U	ng/L	P444414	
		Propiconazole	0.67	U	ng/L	P444414	
		Pyraflufen Ethyl	0.33	U	ng/L	P444414	
		Pyridaben	1.6	U	ng/L	P444414	
		Pyriproxyfen	0.28	U	ng/L	P444414	
		Simazine	0.28	U	ng/L	P444414	
		Stirophos	0.45	U	ng/L	P444414	
		Sulfentrazone	1.6	U	ng/L	P444414	
		Tebuconazole	1.6	U	ng/L	P444414	
		Terbufos	0.22	U	ng/L	P444414	
		Terbuthylazine	0.22	U	ng/L	P444414	
		Thiobencarb	0.56	U	ng/L	P444414	
		Triadimefon	0.17	U	ng/L	P444414	

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: 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: P444475

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444493

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444559

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: P444559

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: P444876

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: P444879

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444569

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445311

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445196

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444616

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444470

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

Reference Method: EPA 8270E
Batch ID: P444414

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: P444414

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: P444414

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
Terbuthylazine	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: P444443

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: P444465

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: P444465

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	4.0E-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	0.0020	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: P444691

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

Reference Method: SM 2540 C-2015
Batch ID: P444845

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P444744

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P445376

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P444771

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: P444475

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444493

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444559

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	103		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	97.5		P	85 - 115
Sodium	105		P	85 - 115
Strontium	96.2		P	85 - 115
Tin	92.0		P	85 - 115
Titanium	97.9		P	85 - 115
Vanadium	98.8		P	85 - 115
Zinc	96.2		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444559

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	99.0		P	85 - 115
Barium	101		P	85 - 115
Beryllium	102		P	85 - 115
Boron	107		P	85 - 115
Cadmium	98.9		P	85 - 115
Chromium	99.7		P	85 - 115
Cobalt	99.0		P	85 - 115
Copper	96.2		P	85 - 115
Lead	102		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	98.3		P	85 - 115
Nickel	96.7		P	85 - 115
Selenium	102		P	85 - 115
Silver	103		P	85 - 115
Thallium	98.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444876

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444879

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444569

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445311

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445196

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444616

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: P444470

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.1		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P444414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	52.5		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	59.9		P	37 - 154
Acetochlor	117		P	64 - 124
Alachlor	87.8		P	61 - 118
Ametryn	109		P	47 - 158
Atrazine	85.5		P	68 - 121
Atrazine Desethyl	95.0		P	30 - 119
Avobenzone	186		P	48 - 193
Azinphos Methyl	111		P	30 - 194
Azoxystrobin	118		P	58 - 154
Bromacil	98.8		P	47 - 126
Butylate	57.1		P	31 - 83.0
Caffeine	110		P	10 - 180
Carbophenothion	112		P	59 - 133
Carfentrazone Ethyl	124		P	59 - 147
Chlorfenapyr	84.5		P	52 - 118

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	90.9		P	59 - 119
Chlorpyrifos Methyl	101		P	65 - 123
Coumaphos	92.7		P	11 - 223
Cyanazine	129		P	63 - 250
Cyprodinil	83.6		P	52 - 143
Dechlorane 602	56.3		P	23 - 142
Dechlorane 603	94.6		P	51 - 171
Dechlorane Plus	93.0		P	46 - 161
Demeton	80.1		P	42 - 119
Diazinon	119		P	67 - 132
Difenoconazole	52.3		P	12 - 204
Dimethenamid	91.8		P	53 - 113
Dimethomorph	167		P	13 - 238
Disulfoton	117		P	56 - 126
Dithiopyr	132		F	58 - 127
EPTC	48.7		P	31 - 78.0
Ethion	73.1		P	24 - 127
Ethoprop	98.7		P	60 - 118
Etridiazole	67.0		P	32 - 91.0
Fenamiphos	93.4		P	54 - 129
Fenbuconazole	65.3		P	31 - 162
Fipronil	101		P	56 - 131
Fipronil Desulfinyl	93.5		P	58 - 132
Fipronil Sulfide	99.1		P	51 - 123
Fipronil Sulfone	78.6		P	50 - 125
Fluazifop-P-butyl	97.2		P	52 - 132
Fludioxonil	91.7		P	52 - 129
Flumioxazin	177		P	34 - 250
Flutolanil	80.2		P	45 - 128
Fluxapyroxad	98.2		P	31 - 150
Fonofos	97.0		P	60 - 116
Hexabromobenzene	94.0		P	52 - 165
Hexazinone	87.6		P	59 - 120
Imazalil	88.2		P	39 - 134
Iprodione	103		P	39 - 243
Loratadine	198		P	10 - 240
Malathion	81.1		P	53 - 145
Metalaxyl	112		P	59 - 120
Metolachlor	102		P	64 - 122
Metribuzin	95.5		P	33 - 128
Mevinphos	95.4		P	48 - 119
Molinate	58.1		P	42 - 89.0
Myclobutanil	78.1		P	54 - 129
Naled	69.6		P	10 - 138
Napropamide	86.7		P	40 - 122
Norflurazon	65.2		P	49 - 132
Octinoxate	115		P	29 - 176
Oxadiazon	77.7		P	50 - 115
Oxybenzone	128		P	45 - 145
Oxyfluorfen	136		P	62 - 149
Parathion Ethyl	94.3		P	68 - 119
Parathion Methyl	151		F	68 - 147

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	69.5		P	42 - 179
PBDE-47	46.5		P	44 - 141
PBDE-99	64.5		P	36 - 141
Pendimethalin	180		F	59 - 158
Pentabromotoluene	92.2		P	58 - 148
Phenytoin	43.9		P	10 - 151
Phorate	73.7		P	44 - 124
Prodiamine	111		P	10 - 136
Prometon	86.6		P	45 - 131
Prometryn	120		P	52 - 140
Pronamide	111		P	70 - 129
Propanil	132		P	54 - 144
Propargite	75.9		P	10 - 191
Propiconazole	54.2		P	49 - 128
Pyraflufen Ethyl	59.1		P	46 - 141
Pyridaben	102		P	29 - 198
Pyriproxyfen	84.5		P	33 - 221
Simazine	103		P	62 - 119
Stirophos	56.8		P	13 - 144
Sulfentrazone	85.2		P	12 - 152
Tebuconazole	48.8		P	10 - 135
Terbufos	97.0		P	67 - 136
Terbuthylazine	74.7		P	66 - 113
Tetradecachloro-m-terphenyl	142		P	30 - 235
Thiobencarb	93.6		P	51 - 125
Tri-o-cresyl Phosphate	121		P	50 - 150
Triadimefon	99.5		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	148		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	164		P	59 - 166

Reference Method: EPA 8321B
Batch ID: P444443

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	97.1		P	40 - 160
Endothall	99.0		P	40 - 160
Glufosinate	102		P	40 - 160
Glyphosate	99.5		P	40 - 160
Sucralose	104		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P444465

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	40 - 150
2,4,5-T	103		P	40 - 150
Acetaminophen	87.0		P	30 - 150
Acetamiprid	82.5		P	40 - 150
Afidopyropen	64.4		P	30 - 150
Bentazon	95.1		P	30 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P444465

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	86.6		P	40 - 150
Carbamazepine	85.4		P	40 - 150
Clothianidin	92.5		P	40 - 150
Dinotefuran	93.4		P	40 - 150
Diuron	76.8		P	40 - 150
Fenuron	93.7		P	40 - 150
Fluridone	83.1		P	40 - 150
Hydrocodone	93.9		P	40 - 150
Ibuprofen	76.8		P	40 - 150
Imazapyr	83.0		P	40 - 150
Imidacloprid	88.9		P	40 - 150
Linuron	89.2		P	40 - 150
Mandestrobin	87.1		P	40 - 150
MCPP	116		P	40 - 150
Naproxen	70.3		P	40 - 150
Primidone	85.7		P	40 - 150
Pyraclostrobin	86.5		P	40 - 150
Silvex	85.2		P	40 - 150
Thiamethoxam	96.1		P	40 - 150
Tolfenpyrad	50.3		P	30 - 150
Triclopyr	88.8		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P444691

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P444845

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.0		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P444744

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

Reference Method: SM 4500-F- C-2011
Batch ID: P445376

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P444771

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483228	Calcium	99.3	98.0	P/P	80 - 120
2483228	Iron	101	99.6	P/P	80 - 120
2483228	Magnesium	99.8	98.4	P/P	80 - 120
2483228	Potassium	105	103	P/P	80 - 120
2483228	Sodium	102	99.9	P/P	80 - 120
2483228	Strontium	95.0	94.7	P/P	80 - 120
2483228	Tin	89.1	88.4	P/P	80 - 120
2483228	Titanium	98.5	98.6	P/P	80 - 120
2483228	Vanadium	98.7	96.4	P/P	80 - 120
2483228	Zinc	93.4	93.2	P/P	80 - 120
2483448	Calcium	94.9		P	80 - 120
2483448	Iron	101		P	80 - 120
2483448	Magnesium	99.6		P	80 - 120
2483448	Potassium	95.3		P	80 - 120
2483448	Sodium	98.3		P	80 - 120
2483448	Strontium	102		P	80 - 120
2483448	Tin	85.2		P	80 - 120
2483448	Titanium	96.2		P	80 - 120
2483448	Vanadium	98.7		P	80 - 120
2483448	Zinc	93.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483228	Aluminum	98.0	97.9	P/P	80 - 120
2483228	Antimony	99.6	98.2	P/P	80 - 120
2483228	Arsenic	97.3	96.6	P/P	80 - 120
2483228	Barium	100	99.1	P/P	80 - 120
2483228	Beryllium	103	102	P/P	80 - 120
2483228	Boron	103	103	P/P	80 - 120
2483228	Cadmium	99.4	97.5	P/P	80 - 120
2483228	Chromium	100	99.7	P/P	80 - 120
2483228	Cobalt	97.8	96.6	P/P	80 - 120
2483228	Copper	97.4	97.0	P/P	80 - 120
2483228	Lead	102	101	P/P	80 - 120
2483228	Manganese	101	99.2	P/P	80 - 120
2483228	Molybdenum	97.5	97.6	P/P	80 - 120
2483228	Nickel	97.4	96.5	P/P	80 - 120
2483228	Selenium	97.0	97.2	P/P	80 - 120
2483228	Silver	101	101	P/P	80 - 120
2483228	Thallium	99.1	99.2	P/P	80 - 120
2483448	Aluminum	95.1		P	80 - 120
2483448	Antimony	97.2		P	80 - 120
2483448	Arsenic	98.3		P	80 - 120
2483448	Barium	100		P	80 - 120
2483448	Beryllium	100		P	80 - 120
2483448	Boron	103		P	80 - 120
2483448	Cadmium	99.9		P	80 - 120
2483448	Chromium	97.7		P	80 - 120
2483448	Cobalt	97.2		P	80 - 120
2483448	Copper	94.5		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483448	Lead	102		P	80 - 120
2483448	Manganese	99.5		P	80 - 120
2483448	Molybdenum	99.2		P	80 - 120
2483448	Nickel	95.8		P	80 - 120
2483448	Selenium	98.3		P	80 - 120
2483448	Silver	99.6		P	80 - 120
2483448	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483122	Chloride	102		P	90 - 110
2483185	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444879

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483122	Sulfate	103		P	90 - 110
2483185	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483155	Ammonia-N	95.8	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445311

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483283	Kjeldahl Nitrogen	108	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2481542	NO2NO3-N	97.0	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444616

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483155	Total-P	107	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444470

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483383	O-Phosphate-P	97.0	96.4	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483055	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	62.6	79.2	P/P	50 - 150
2483055	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.4	106	P/P	29 - 155
2483055	Acetochlor	116	118	P/P	60 - 124
2483055	Alachlor	92.4	97.8	P/P	54 - 122
2483055	Ametryn	100	101	P/P	51 - 208
2483055	Atrazine	93.7	102	P/P	57 - 131
2483055	Atrazine Desethyl	97.9	104	P/P	13 - 124
2483055	Avobenzone	103	133	P/P	35 - 187
2483055	Azinphos Methyl	116	118	P/P	43 - 276
2483055	Azoxystrobin	109	134	P/P	52 - 300
2483055	Bromacil	99.5	96.6	P/P	44 - 134
2483055	Butylate	48.6	48.8	P/P	23 - 82.0
2483055	Caffeine	81.3	81.9	P/P	10 - 277
2483055	Carbophenothion	99.2	110	P/P	47 - 135
2483055	Carfentrazone Ethyl	103	114	P/P	46 - 147
2483055	Chlorfenapyr	76.6	82.3	P/P	43 - 114
2483055	Chlorpyrifos Ethyl	82.8	86.2	P/P	47 - 124
2483055	Chlorpyrifos Methyl	101	105	P/P	60 - 135
2483055	Coumaphos	112	146	P/P	10 - 222
2483055	Cyanazine	124	130	P/P	10 - 257
2483055	Cyprodinil	77.2	86.8	P/P	42 - 148
2483055	Dechlorane 602	56.0	63.8	P/P	14 - 133
2483055	Dechlorane 603	80.0	93.5	P/P	18 - 191
2483055	Dechlorane Plus	80.7	93.0	P/P	23 - 154
2483055	Demeton	71.5	80.4	P/P	41 - 137
2483055	Diazinon	107	118	P/P	64 - 139
2483055	Difenoconazole	123	113	P/P	46 - 254
2483055	Dimethenamid	93.1	95.7	P/P	47 - 117
2483055	Dimethomorph	129	184	P/P	14 - 255
2483055	Disulfoton	116	113	P/P	52 - 130
2483055	Dithiopyr	114	95.2	P/P	40 - 121
2483055	EPTC	36.1	38.4	P/P	19 - 78.0
2483055	Ethion	58.6	56.6	P/P	12 - 124
2483055	Ethoprop	97.2	104	P/P	68 - 144
2483055	Etridiazole	60.8	57.4	P/P	26 - 96.0
2483055	Fenamiphos	109	99.2	P/P	41 - 129
2483055	Fenbuconazole	77.2	79.0	P/P	26 - 169
2483055	Fipronil	112	90.1	P/P	46 - 145
2483055	Fipronil Desulfinyl	93.2	109	P/P	47 - 136
2483055	Fipronil Sulfide	84.5	100	P/P	41 - 127
2483055	Fipronil Sulfone	93.0	104	P/P	35 - 133
2483055	Fluazifop-P-butyl	121	126	P/P	46 - 131
2483055	Fludioxonil	97.7	105	P/P	51 - 124
2483055	Flumioxazin	125	138	P/P	10 - 289
2483055	Flutolanil	91.1	89.8	P/P	34 - 130
2483055	Fluxapyroxad	94.7	75.7	P/P	10 - 197
2483055	Fonofos	99.3	106	P/P	42 - 131
2483055	Hexabromobenzene	78.1	89.3	P/P	47 - 178
2483055	Hexazinone	91.7	97.1	P/P	64 - 125
2483055	Imazalil	65.7	71.0	P/P	37 - 252
2483055	Iprodione	90.4	72.9	P/P	34 - 265
2483055	Loratadine	163	182	P/P	20 - 231

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483055	Malathion	100	105	P/P	34 - 164
2483055	Metalaxyl	110	107	P/P	49 - 125
2483055	Metolachlor	102	113	P/P	54 - 125
2483055	Metribuzin	101	109	P/P	51 - 139
2483055	Mevinphos	93.3	96.0	P/P	46 - 130
2483055	Molinate	51.7	54.7	P/P	39 - 93.0
2483055	Myclobutanil	76.8	83.4	P/P	50 - 130
2483055	Naled	61.7	61.2	P/P	10 - 150
2483055	Napropamide	80.6	74.1	P/P	10 - 109
2483055	Norflurazon	79.9	73.7	P/P	36 - 134
2483055	Octinoxate	103	150	P/P	18 - 170
2483055	Oxadiazon	74.0	81.3	P/P	43 - 112
2483055	Oxybenzone	121	185	P/F	33 - 154
2483055	Oxyfluorfen	132	130	P/P	62 - 154
2483055	Parathion Ethyl	91.2	98.7	P/P	65 - 120
2483055	Parathion Methyl	163	165	P/P	77 - 185
2483055	PBB-153	86.9	110	P/P	23 - 193
2483055	PBDE-47	52.8	57.4	P/P	31 - 139
2483055	PBDE-99	72.2	89.3	P/P	24 - 138
2483055	Pendimethalin	178	192	F/F	50 - 146
2483055	Pentabromotoluene	89.6	124	P/P	54 - 152
2483055	Phenytoin	56.2	52.6	P/P	10 - 157
2483055	Phorate	86.1	104	P/P	54 - 161
2483055	Prodiamine	100	110	P/P	29 - 160
2483055	Prometon	87.1	91.0	P/P	38 - 145
2483055	Prometryn	122	122	P/P	32 - 151
2483055	Pronamide	109	108	P/P	61 - 140
2483055	Propanil	120	129	P/P	50 - 147
2483055	Propargite	64.8	70.6	P/P	10 - 190
2483055	Propiconazole	75.3	68.3	P/P	30 - 146
2483055	Pyraflufen Ethyl	95.1	74.2	P/P	30 - 147
2483055	Pyridaben	119	120	P/P	15 - 195
2483055	Pyriproxyfen	78.7	84.1	P/P	31 - 218
2483055	Simazine	107	104	P/P	45 - 139
2483055	Stirophos	59.0	54.8	P/P	10 - 134
2483055	Sulfentrazone	76.6	90.0	P/P	53 - 186
2483055	Tebuconazole	56.3	40.1	P/P	10 - 133
2483055	Terbufos	97.9	100	P/P	65 - 151
2483055	Terbuthylazine	75.3	78.6	P/P	62 - 117
2483055	Tetradecachloro-m-terphenyl	114	137	P/P	10 - 260
2483055	Thiobencarb	93.4	90.5	P/P	48 - 122
2483055	Tri-o-cresyl Phosphate	99.2	132	P/P	32 - 151
2483055	Triadimefon	106	101	P/P	46 - 124
2483055	Tris(1-chloro-2-propyl) phosphate (TCPP)	147	213	P/F	51 - 154
2483055	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	104	138	P/P	59 - 147
2483055	Tris(2-chloroethyl) phosphate (TCEP)	159	230	F/F	65 - 156

Reference Method: EPA 8321B
Batch ID: P444443

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483171	Acesulfame K	113	111	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P444443

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483171	AMPA	103	98.8	P/P	40 - 160
2483171	Endothall	98.1	106	P/P	40 - 160
2483171	Glufosinate	99.3	97.9	P/P	40 - 160
2483171	Glyphosate	112	110	P/P	40 - 160
2483171	Sucralose	107	99.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P444465

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2482710	2,4-D	131	141	P/P	40 - 150
2482710	2,4,5-T	116	129	P/P	40 - 150
2482710	Acetaminophen	101	112	P/P	30 - 150
2482710	Acetamiprid	89.7	97.4	P/P	40 - 150
2482710	Afidopyropen	60.1	58.9	P/P	30 - 150
2482710	Bentazon	69.2	77.1	P/P	30 - 150
2482710	Benzovindiflupyr	86.0	91.1	P/P	40 - 150
2482710	Carbamazepine	87.1	91.9	P/P	40 - 150
2482710	Clothianidin	107	112	P/P	40 - 150
2482710	Dinotefuran	109	113	P/P	40 - 150
2482710	Diuron	72.8	78.9	P/P	40 - 150
2482710	Fenuron	91.3	98.2	P/P	40 - 150
2482710	Fluridone	80.6	84.4	P/P	40 - 150
2482710	Hydrocodone	105	113	P/P	40 - 150
2482710	Ibuprofen	88.8	90.9	P/P	40 - 150
2482710	Imazapyr	91.5	101	P/P	40 - 150
2482710	Imidacloprid	115	127	P/P	40 - 150
2482710	Linuron	84.9	93.4	P/P	40 - 150
2482710	Mandestrobin	88.5	96.7	P/P	40 - 150
2482710	MCPP	120	128	P/P	40 - 150
2482710	Naproxen	76.2	79.0	P/P	40 - 150
2482710	Primidone	97.9	106	P/P	40 - 150
2482710	Pyraclostrobin	87.7	95.2	P/P	40 - 150
2482710	Silvex	90.8	100	P/P	40 - 150
2482710	Thiamethoxam	117	124	P/P	40 - 150
2482710	Tolfenpyrad	59.5	68.0	P/P	30 - 150
2482710	Triclopyr	105	109	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P445376

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483513	Fluoride	99.6	99.6	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P444771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2483283	Organic Carbon	99.4	102	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P444475

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483200	Color (true)	4.56	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483282	Turbidity	6.86	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483228	Calcium	0.907	Spike	P	0 - 20
2483228	Iron	1.13	Spike	P	0 - 20
2483228	Magnesium	1.17	Spike	P	0 - 20
2483228	Potassium	1.67	Spike	P	0 - 20
2483228	Sodium	1.53	Spike	P	0 - 20
2483228	Strontium	0.303	Spike	P	0 - 20
2483228	Tin	0.791	Spike	P	0 - 20
2483228	Titanium	0.153	Spike	P	0 - 20
2483228	Vanadium	2.31	Spike	P	0 - 20
2483228	Zinc	0.254	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483228	Aluminum	0.118	Spike	P	0 - 20
2483228	Antimony	1.49	Spike	P	0 - 20
2483228	Arsenic	0.704	Spike	P	0 - 20
2483228	Barium	1.17	Spike	P	0 - 20
2483228	Beryllium	1.17	Spike	P	0 - 20
2483228	Boron	0.225	Spike	P	0 - 20
2483228	Cadmium	1.95	Spike	P	0 - 20
2483228	Chromium	0.620	Spike	P	0 - 20
2483228	Cobalt	1.27	Spike	P	0 - 20
2483228	Copper	0.356	Spike	P	0 - 20
2483228	Lead	1.18	Spike	P	0 - 20
2483228	Manganese	0.986	Spike	P	0 - 20
2483228	Molybdenum	0.119	Spike	P	0 - 20
2483228	Nickel	1.01	Spike	P	0 - 20
2483228	Selenium	0.273	Spike	P	0 - 20
2483228	Silver	0.173	Spike	P	0 - 20
2483228	Thallium	0.121	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483122	Chloride	1.77	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444879

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483122	Sulfate	1.47	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P444569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483155	Ammonia-N	1.37	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P445311

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483283	Kjeldahl Nitrogen	5.50	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2481542	NO2NO3-N	1.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483155	Total-P	1.39	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P444470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483383	O-Phosphate-P	0.550	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P444414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483055	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	23.4	Spike	P	0 - 30
2483055	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	24.1	Spike	P	0 - 35

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P444414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483055	Acetochlor	2.21	Spike	P	0 - 28
2483055	Alachlor	5.70	Spike	P	0 - 30
2483055	Ametryn	0.368	Spike	P	0 - 32
2483055	Atrazine	3.46	Spike	P	0 - 33
2483055	Atrazine Desethyl	5.73	Spike	P	0 - 36
2483055	Avobenzone	25.2	Spike	P	0 - 35
2483055	Azinphos Methyl	1.43	Spike	P	0 - 62
2483055	Azoxystrobin	20.7	Spike	P	0 - 39
2483055	Bromacil	3.03	Spike	P	0 - 33
2483055	Butylate	0.521	Spike	P	0 - 51
2483055	Caffeine	0.575	Spike	P	0 - 100
2483055	Carbophenothion	10.3	Spike	P	0 - 34
2483055	Carfentrazone Ethyl	10.5	Spike	P	0 - 33
2483055	Chlorfenapyr	7.24	Spike	P	0 - 28
2483055	Chlorpyrifos Ethyl	4.06	Spike	P	0 - 31
2483055	Chlorpyrifos Methyl	3.94	Spike	P	0 - 27
2483055	Coumaphos	26.1	Spike	P	0 - 62
2483055	Cyanazine	5.17	Spike	P	0 - 48
2483055	Cyprodinil	11.6	Spike	P	0 - 29
2483055	Dechlorane 602	13.1	Spike	P	0 - 60
2483055	Dechlorane 603	15.5	Spike	P	0 - 40
2483055	Dechlorane Plus	14.1	Spike	P	0 - 38
2483055	Demeton	11.7	Spike	P	0 - 33
2483055	Diazinon	10.2	Spike	P	0 - 32
2483055	Difenoconazole	8.75	Spike	P	0 - 71
2483055	Dimethenamid	2.56	Spike	P	0 - 60
2483055	Dimethomorph	35.3	Spike	P	0 - 61
2483055	Disulfoton	2.43	Spike	P	0 - 30
2483055	Dithiopyr	17.6	Spike	P	0 - 28
2483055	EPTC	6.31	Spike	P	0 - 56
2483055	Ethion	3.61	Spike	P	0 - 79
2483055	Ethoprop	7.15	Spike	P	0 - 31
2483055	Etridiazole	5.72	Spike	P	0 - 43
2483055	Fenamiphos	9.46	Spike	P	0 - 43
2483055	Fenbuconazole	2.30	Spike	P	0 - 79
2483055	Fipronil	21.9	Spike	P	0 - 46
2483055	Fipronil Desulfinyl	14.4	Spike	P	0 - 36
2483055	Fipronil Sulfide	16.8	Spike	P	0 - 34
2483055	Fipronil Sulfone	10.8	Spike	P	0 - 47
2483055	Fluazifop-P-butyl	3.92	Spike	P	0 - 38
2483055	Fludioxonil	7.13	Spike	P	0 - 29
2483055	Flumioxazin	9.53	Spike	P	0 - 63
2483055	Flutolanil	1.46	Spike	P	0 - 36
2483055	Fluxapyroxad	22.4	Spike	P	0 - 65
2483055	Fonofos	6.18	Spike	P	0 - 35
2483055	Hexabromobenzene	13.4	Spike	P	0 - 41
2483055	Hexazinone	5.71	Spike	P	0 - 31
2483055	Imazalil	7.76	Spike	P	0 - 52
2483055	Iprodione	21.5	Spike	P	0 - 49
2483055	Loratadine	11.3	Spike	P	0 - 59
2483055	Malathion	4.71	Spike	P	0 - 77

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P444414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483055	Metalaxyl	2.70	Spike	P	0 - 76
2483055	Metolachlor	9.96	Spike	P	0 - 29
2483055	Metribuzin	6.90	Spike	P	0 - 51
2483055	Mevinphos	2.85	Spike	P	0 - 31
2483055	Molinate	5.68	Spike	P	0 - 39
2483055	Myclobutanil	8.14	Spike	P	0 - 34
2483055	Naled	0.885	Spike	P	0 - 37
2483055	Napropamide	8.39	Spike	P	0 - 100
2483055	Norflurazon	8.17	Spike	P	0 - 54
2483055	Octinoxate	37.3	Spike	F	0 - 35
2483055	Oxadiazon	6.76	Spike	P	0 - 34
2483055	Oxybenzone	41.8	Spike	F	0 - 35
2483055	Oxyfluorfen	1.89	Spike	P	0 - 28
2483055	Parathion Ethyl	7.92	Spike	P	0 - 31
2483055	Parathion Methyl	0.656	Spike	P	0 - 29
2483055	PBB-153	23.9	Spike	P	0 - 49
2483055	PBDE-47	8.46	Spike	P	0 - 36
2483055	PBDE-99	21.2	Spike	P	0 - 46
2483055	Pendimethalin	7.42	Spike	P	0 - 31
2483055	Pentabromotoluene	32.4	Spike	F	0 - 16
2483055	Phenytoin	6.49	Spike	P	0 - 100
2483055	Phorate	19.1	Spike	P	0 - 36
2483055	Prodiamine	9.51	Spike	P	0 - 68
2483055	Prometon	4.34	Spike	P	0 - 35
2483055	Prometryn	0.0115	Spike	P	0 - 33
2483055	Pronamide	0.860	Spike	P	0 - 24
2483055	Propanil	7.59	Spike	P	0 - 28
2483055	Propargite	8.66	Spike	P	0 - 53
2483055	Propiconazole	9.84	Spike	P	0 - 44
2483055	Pyraflufen Ethyl	24.7	Spike	P	0 - 61
2483055	Pyridaben	0.565	Spike	P	0 - 43
2483055	Pyriproxyfen	6.64	Spike	P	0 - 82
2483055	Simazine	2.31	Spike	P	0 - 29
2483055	Stirophos	7.39	Spike	P	0 - 100
2483055	Sulfentrazone	16.2	Spike	P	0 - 64
2483055	Tebuconazole	33.6	Spike	P	0 - 76
2483055	Terbufos	2.63	Spike	P	0 - 29
2483055	Terbuthylazine	4.33	Spike	P	0 - 28
2483055	Tetradecachloro-m-terphenyl	18.6	Spike	P	0 - 42
2483055	Thiobencarb	3.19	Spike	P	0 - 26
2483055	Tri-o-cresyl Phosphate	28.3	Spike	F	0 - 24
2483055	Triadimefon	4.09	Spike	P	0 - 40
2483055	Tris(1-chloro-2-propyl) phosphate (TCPP)	33.3	Spike	F	0 - 30
2483055	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	27.0	Spike	F	0 - 22
2483055	Tris(2-chloroethyl) phosphate (TCEP)	36.3	Spike	F	0 - 15

Reference Method: EPA 8321B
Batch ID: P444443

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P444443

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483171	Acesulfame K	1.90	Spike	P	0 - 30
2483171	AMPA	3.71	Spike	P	0 - 30
2483171	Endothall	7.82	Spike	P	0 - 30
2483171	Glufosinate	1.47	Spike	P	0 - 30
2483171	Glyphosate	1.36	Spike	P	0 - 30
2483171	Sucralose	6.87	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P444465

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2482710	2,4-D	6.75	Spike	P	0 - 30
2482710	2,4,5-T	11.1	Spike	P	0 - 30
2482710	Acetaminophen	10.4	Spike	P	0 - 30
2482710	Acetamiprid	8.28	Spike	P	0 - 30
2482710	Afidopyropen	1.99	Spike	P	0 - 30
2482710	Bentazon	10.9	Spike	P	0 - 30
2482710	Benzovindiflupyr	5.82	Spike	P	0 - 30
2482710	Carbamazepine	5.31	Spike	P	0 - 30
2482710	Clothianidin	5.38	Spike	P	0 - 30
2482710	Dinotefuran	3.64	Spike	P	0 - 30
2482710	Diuron	8.08	Spike	P	0 - 30
2482710	Fenuron	7.30	Spike	P	0 - 30
2482710	Fluridone	4.63	Spike	P	0 - 30
2482710	Hydrocodone	6.86	Spike	P	0 - 30
2482710	Ibuprofen	2.31	Spike	P	0 - 30
2482710	Imazapyr	7.08	Spike	P	0 - 30
2482710	Imidacloprid	10.2	Spike	P	0 - 30
2482710	Linuron	9.56	Spike	P	0 - 30
2482710	Mandestrobin	8.83	Spike	P	0 - 30
2482710	MCPP	6.34	Spike	P	0 - 30
2482710	Naproxen	3.59	Spike	P	0 - 30
2482710	Primidone	8.13	Spike	P	0 - 30
2482710	Pyraclostrobin	8.24	Spike	P	0 - 30
2482710	Silvex	9.68	Spike	P	0 - 30
2482710	Thiamethoxam	6.00	Spike	P	0 - 30
2482710	Tolfenpyrad	13.3	Spike	P	0 - 30
2482710	Triclopyr	3.44	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P444691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483771	Total Alkalinity	0.343	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P444845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483282	TDS	0.746	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P445376

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483513	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P444771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2483283	Organic Carbon	1.71	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2483290
Field Sample ID: 20030855

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	142	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.5	P	30 - 160
EPA 8321B	Diuron-d6	78.9	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	89.8	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	118	P	30 - 160

Lab Sample ID: 2483292
Field Sample ID: 20030855

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	50.2	P	20 - 200
EPA 8270E	Simazine-d10	80.6	P	58 - 137
EPA 8270E	Terbufos-d10	90.2	P	50 - 134
EPA 8270E	Terphenyl-d14	192	F	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A125394
Included Lab Sample IDs: 2483284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.8	98.9	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A125395
Included Lab Sample IDs: 2483282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	98.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125402
Included Lab Sample IDs: 2483282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.5	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125430
Included Lab Sample IDs: 2483283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.9	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A125458
Included Lab Sample IDs: 2483290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	100	96.3	P/P	60 - 160
Endothall	103	106	P/P	60 - 160
Glufosinate	93.0	98.9	P/P	60 - 160
Glyphosate	104	99.9	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125460
Included Lab Sample IDs: 2483283

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A125461
Included Lab Sample IDs: 2483291

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.9	97.7	P/P	90 - 110
Antimony	97.9	98.5	P/P	90 - 110
Arsenic	98.0	98.3	P/P	90 - 110
Barium	98.3	98.9	P/P	90 - 110
Beryllium	98.0	100	P/P	90 - 110
Boron	100	99.5	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A125461
Included Lab Sample IDs: 2483291

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	98.2	99.2	P/P	90 - 110
Chromium	95.6	97.3	P/P	90 - 110
Cobalt	96.2	97.9	P/P	90 - 110
Copper	94.8	96.4	P/P	90 - 110
Lead	99.8	100	P/P	90 - 110
Manganese	97.4	98.8	P/P	90 - 110
Molybdenum	97.6	98.3	P/P	90 - 110
Nickel	95.2	96.8	P/P	90 - 110
Selenium	97.2	98.3	P/P	90 - 110
Silver	98.1	99.0	P/P	90 - 110
Thallium	99.4	101	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A125464
Included Lab Sample IDs: 2483290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	127	109	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A125466
Included Lab Sample IDs: 2483290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	71.8	82.4	P/P	60 - 160

Reference Method: SM 2320 B-2011
Run ID: A125479
Included Lab Sample IDs: 2483282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	97.8	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A125504
Included Lab Sample IDs: 2483291

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	96.6	97.7	P/P	90 - 110
Iron	99.3	99.8	P/P	90 - 110
Magnesium	95.9	96.8	P/P	90 - 110
Potassium	99.1	100	P/P	90 - 110
Sodium	99.7	101	P/P	90 - 110
Strontium	105	106	P/P	90 - 110
Tin	91.8	93.7	P/P	90 - 110
Titanium	97.2	98.1	P/P	90 - 110
Zinc	92.0	92.1	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2014
Run ID: A125508
Included Lab Sample IDs: 2483283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	102	P/P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A125536
Included Lab Sample IDs: 2483291

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Vanadium	95.2	97.4	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125571
Included Lab Sample IDs: 2483282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	102	P/P	90 - 110
Sulfate	102	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125660
Included Lab Sample IDs: 2483283

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A125683
Included Lab Sample IDs: 2483292

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.3		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.8		P	80 - 120
Avobenzone	96.0		P	80 - 120
Dechlorane 602	99.1		P	80 - 120
Dechlorane 603	97.5		P	80 - 120
Dechlorane Plus	96.3		P	80 - 120
Hexabromobenzene	92.9		P	80 - 120
Octinoxate	95.5		P	80 - 120
Oxybenzone	98.5		P	80 - 120
PBB-153	89.8		P	80 - 120
PBDE-47	95.1		P	80 - 120
PBDE-99	95.0		P	80 - 120
Pentabromotoluene	95.6		P	80 - 120
Tetradecachloro-m-terphenyl	87.9		P	80 - 120
Tri-o-cresyl Phosphate	95.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	90.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	83.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125688
Included Lab Sample IDs: 2483292

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.9		P	80 - 120
Alachlor	87.0		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine Desethyl	109		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	80.9		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	86.4		P	80 - 120
Chlorpyrifos Ethyl	88.7		P	80 - 120
Chlorpyrifos Methyl	93.3		P	80 - 120
Coumaphos	93.1		P	80 - 120
Cyanazine	97.8		P	80 - 120
Cyprodinil	97.2		P	80 - 120
Demeton	99.9		P	80 - 120
Diazinon	108		P	80 - 120
Difenoconazole	96.6		P	80 - 120
Dimethenamid	95.7		P	80 - 120
Dimethomorph	95.5		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	100		P	80 - 120
Ethion	86.7		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	108		P	80 - 120
Fenamiphos	95.4		P	80 - 120
Fenbuconazole	85.5		P	80 - 120
Fipronil	83.5		P	80 - 120
Fipronil Desulfinyl	89.9		P	80 - 120
Fipronil Sulfide	89.6		P	80 - 120
Fipronil Sulfone	90.9		P	80 - 120
Fluazifop-P-butyl	88.9		P	80 - 120
Fludioxonil	92.0		P	80 - 120
Flumioxazin	98.6		P	80 - 120
Flutolanil	100		P	80 - 120
Fluxapyroxad	99.3		P	80 - 120
Fonofos	94.4		P	80 - 120
Hexazinone	95.5		P	80 - 120
Imazalil	99.2		P	80 - 120
Iprodione	92.5		P	80 - 120
Loratadine	96.4		P	80 - 120
Malathion	86.7		P	80 - 120
Metalaxyl	88.0		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	98.4		P	80 - 120
Mevinphos	98.1		P	80 - 120
Molinate	86.4		P	80 - 120
Myclobutanil	85.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125688
Included Lab Sample IDs: 2483292

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	105		P	80 - 120
Napropamide	95.8		P	80 - 120
Norflurazon	97.4		P	80 - 120
Oxadiazon	96.0		P	80 - 120
Oxyfluorfen	103		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	91.1		P	80 - 120
Pendimethalin	96.0		P	80 - 120
Phenytoin	95.8		P	80 - 120
Phorate	96.1		P	80 - 120
Prodiamine	119		P	80 - 120
Prometon	97.1		P	80 - 120
Prometryn	100		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	94.8		P	80 - 120
Propargite	98.5		P	80 - 120
Propiconazole	89.1		P	80 - 120
Pyraflufen Ethyl	96.8		P	80 - 120
Pyridaben	95.3		P	80 - 120
Pyriproxyfen	94.1		P	80 - 120
Simazine	99.1		P	80 - 120
Stirophos	80.5		P	80 - 120
Sulfentrazone	87.3		P	80 - 120
Tebuconazole	94.6		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	89.9		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125690
Included Lab Sample IDs: 2483292

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	94.2		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A125734
Included Lab Sample IDs: 2483282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.1	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A125763
Included Lab Sample IDs: 2483283

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A125769
Included Lab Sample IDs: 2483290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	103	P/P	50 - 150
2,4,5-T	114	104	P/P	50 - 150
Acetaminophen	117	122	P/P	60 - 160
Acetamiprid	125	129	P/P	50 - 150
Afidopyropen	120	122	P/P	50 - 150
Bentazon	116	126	P/P	50 - 160
Benzovindiflupyr	126	128	P/P	50 - 150
Carbamazepine	121	123	P/P	60 - 150
Clothianidin	116	115	P/P	60 - 150
Dinotefuran	121	127	P/P	50 - 150
Diuron	117	119	P/P	60 - 160
Fenuron	123	127	P/P	60 - 150
Fluridone	122	113	P/P	60 - 160
Hydrocodone	122	122	P/P	60 - 150
Ibuprofen	64.6	81.6	P/P	50 - 160
Imazapyr	110	102	P/P	50 - 150
Imidacloprid	115	117	P/P	60 - 150
Linuron	127	116	P/P	60 - 150
Mandestrobin	125	128	P/P	50 - 150
MCPP	118	118	P/P	50 - 150
Naproxen	98.3	107	P/P	50 - 160
Primidone	111	103	P/P	60 - 150
Pyraclostrobin	127	132	P/P	60 - 150
Silvex	119	117	P/P	50 - 150
Thiamethoxam	125	128	P/P	50 - 150
Tolfenpyrad	109	111	P/P	60 - 150
Triclopyr	101	108	P/P	50 - 150

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	98.2					4.56	
EPA 180.1 Rev. 2.0	Turbidity	102					6.86	
EPA 200.7 Rev. 4.4	Calcium	102	99.3	98.0	94.9			0.907
	Iron	103	101	99.6	101			1.13
	Magnesium	101	99.8	98.4	99.6			1.17
	Potassium	97.5	105	103	95.3			1.67
	Sodium	105	102	99.9	98.3			1.53
	Strontium	96.2	95.0	94.7	102			0.303
	Tin	92.0	89.1	88.4	85.2			0.791
	Titanium	97.9	98.5	98.6	96.2			0.153
	Vanadium	98.8	98.7	96.4	98.7			2.31
	Zinc	96.2	93.4	93.2	93.3			0.254
EPA 200.8 Rev. 5.4	Aluminum	100	98.0	97.9	95.1			0.118
	Antimony	101	99.6	98.2	97.2			1.49
	Arsenic	99.0	97.3	96.6	98.3			0.704
	Barium	101	100	99.1	100			1.17
	Beryllium	102	103	102	100			1.17
	Boron	107	103	103	103			0.225
	Cadmium	98.9	99.4	97.5	99.9			1.95
	Chromium	99.7	100	99.7	97.7			0.620
	Cobalt	99.0	97.8	96.6	97.2			1.27
	Copper	96.2	97.4	97.0	94.5			0.356
	Lead	102	102	101	102			1.18
	Manganese	101	101	99.2	99.5			0.986
	Molybdenum	98.3	97.5	97.6	99.2			0.119
	Nickel	96.7	97.4	96.5	95.8			1.01
	Selenium	102	97.0	97.2	98.3			0.273
	Silver	103	101	101	99.6			0.173
	Thallium	98.7	99.1	99.2	101			0.121
EPA 300.0 Rev. 2.1	Chloride	103	102	103			1.77	
	Sulfate	105	103	104			1.47	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	95.8	97.2				1.37
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.6	108	100				5.50
EPA 353.2 Rev. 2.0	NO2NO3-N	103	97.0	99.0				1.24
EPA 365.1 Rev. 2.0	Total-P	103	107	105				1.39
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	97.0	96.4				0.550
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	52.5	62.6	79.2				23.4
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	59.9	83.4	106				24.1
	Acetochlor	117	116	118				2.21
	Alachlor	87.8	92.4	97.8				5.70
	Ametryn	109	100	101				0.368
	Atrazine	85.5	93.7	102				3.46
	Atrazine Desethyl	95.0	97.9	104				5.73
	Avobenzone	186	103	133				25.2
	Azinphos Methyl	111	116	118				1.43
	Azoxystrobin	118	109	134				20.7
	Bromacil	98.8	99.5	96.6				3.03
	Butylate	57.1	48.6	48.8				0.521
	Caffeine	110	81.3	81.9				0.575
	Carbophenothion	112	99.2	110				10.3
	Carfentrazone Ethyl	124	103	114				10.5

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Chlorfenapyr	84.5	76.6	82.3			7.24
	Chlorpyrifos Ethyl	90.9	82.8	86.2			4.06
	Chlorpyrifos Methyl	101	101	105			3.94
	Coumaphos	92.7	112	146			26.1
	Cyanazine	129	124	130			5.17
	Cyprodinil	83.6	77.2	86.8			11.6
	Dechlorane 602	56.3	56.0	63.8			13.1
	Dechlorane 603	94.6	80.0	93.5			15.5
	Dechlorane Plus	93.0	80.7	93.0			14.1
	Demeton	80.1	71.5	80.4			11.7
	Diazinon	119	107	118			10.2
	Difenoconazole	52.3	123	113			8.75
	Dimethenamid	91.8	93.1	95.7			2.56
	Dimethomorph	167	129	184			35.3
	Disulfoton	117	116	113			2.43
	Dithiopyr	132	114	95.2			17.6
	EPTC	48.7	36.1	38.4			6.31
	Ethion	73.1	58.6	56.6			3.61
	Ethoprop	98.7	97.2	104			7.15
	Etridiazole	67.0	60.8	57.4			5.72
	Fenamiphos	93.4	109	99.2			9.46
	Fenbuconazole	65.3	77.2	79.0			2.30
	Fipronil	101	112	90.1			21.9
	Fipronil Desulfinyl	93.5	93.2	109			14.4
	Fipronil Sulfide	99.1	84.5	100			16.8
	Fipronil Sulfone	78.6	93.0	104			10.8
	Fluazifop-P-butyl	97.2	121	126			3.92
	Fludioxonil	91.7	97.7	105			7.13
	Flumioxazin	177	125	138			9.53
	Flutolanil	80.2	91.1	89.8			1.46
	Fluxapyroxad	98.2	94.7	75.7			22.4
	Fonofos	97.0	99.3	106			6.18
	Hexabromobenzene	94.0	78.1	89.3			13.4
	Hexazinone	87.6	91.7	97.1			5.71
	Imazalil	88.2	65.7	71.0			7.76
	Iprodione	103	90.4	72.9			21.5
	Loratadine	198	163	182			11.3
	Malathion	81.1	100	105			4.71
	Metalaxyl	112	110	107			2.70
	Metolachlor	102	102	113			9.96
	Metribuzin	95.5	101	109			6.90
	Mevinphos	95.4	93.3	96.0			2.85
	Molinate	58.1	51.7	54.7			5.68
	Myclobutanil	78.1	76.8	83.4			8.14
	Naled	69.6	61.7	61.2			0.885
	Napropamide	86.7	80.6	74.1			8.39
	Norflurazon	65.2	79.9	73.7			8.17
	Octinoxate	115	103	150			37.3
	Oxadiazon	77.7	74.0	81.3			6.76
	Oxybenzone	128	121	185			41.8
	Oxyfluorfen	136	132	130			1.89
	Parathion Ethyl	94.3	91.2	98.7			7.92
	Parathion Methyl	151	163	165			0.656
	PBB-153	69.5	86.9	110			23.9

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	PBDE-47	46.5	52.8	57.4			8.46
	PBDE-99	64.5	72.2	89.3			21.2
	Pendimethalin	180	178	192			7.42
	Pentabromotoluene	92.2	89.6	124			32.4
	Phenytoin	43.9	56.2	52.6			6.49
	Phorate	73.7	86.1	104			19.1
	Prodiamine	111	100	110			9.51
	Prometon	86.6	87.1	91.0			4.34
	Prometryn	120	122	122			0.0115
	Pronamide	111	109	108			0.860
	Propanil	132	120	129			7.59
	Propargite	75.9	64.8	70.6			8.66
	Propiconazole	54.2	75.3	68.3			9.84
	Pyraflufen Ethyl	59.1	95.1	74.2			24.7
	Pyridaben	102	119	120			0.565
	Pyriproxyfen	84.5	78.7	84.1			6.64
	Simazine	103	107	104			2.31
	Stirophos	56.8	59.0	54.8			7.39
	Sulfentrazone	85.2	76.6	90.0			16.2
	Tebuconazole	48.8	56.3	40.1			33.6
	Terbufos	97.0	97.9	100			2.63
	Terbuthylazine	74.7	75.3	78.6			4.33
	Tetradecachloro-m-terphenyl	142	114	137			18.6
	Thiobencarb	93.6	93.4	90.5			3.19
	Tri-o-cresyl Phosphate	121	99.2	132			28.3
	Triadimefon	99.5	106	101			4.09
	Tris(1-chloro-2-propyl) phosphate (TCPP)	148	147	213			33.3
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120	104	138			27.0
	Tris(2-chloroethyl) phosphate (TCEP)	164	159	230			36.3
EPA 8321B	2,4-D	108	131	141			6.75
	2,4,5-T	103	116	129			11.1
	Acesulfame K	105	113	111			1.90
	Acetaminophen	87.0	101	112			10.4
	Acetamiprid	82.5	89.7	97.4			8.28
	Afidopyropen	64.4	60.1	58.9			1.99
	AMPA	97.1	103	98.8			3.71
	Bentazon	95.1	69.2	77.1			10.9
	Benzovindiflupyr	86.6	86.0	91.1			5.82
	Carbamazepine	85.4	87.1	91.9			5.31
	Clothianidin	92.5	107	112			5.38
	Dinotefuran	93.4	109	113			3.64
	Diuron	76.8	72.8	78.9			8.08
	Endothall	99.0	98.1	106			7.82
	Fenuron	93.7	91.3	98.2			7.30
	Fluridone	83.1	80.6	84.4			4.63
	Glufosinate	102	99.3	97.9			1.47
	Glyphosate	99.5	112	110			1.36
	Hydrocodone	93.9	105	113			6.86
	Ibuprofen	76.8	88.8	90.9			2.31
	Imazapyr	83.0	91.5	101			7.08
	Imidacloprid	88.9	115	127			10.2

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Linuron	89.2	84.9	93.4			9.56
	Mandestrobin	87.1	88.5	96.7			8.83
	MCPP	116	120	128			6.34
	Naproxen	70.3	76.2	79.0			3.59
	Primidone	85.7	97.9	106			8.13
	Pyraclostrobin	86.5	87.7	95.2			8.24
	Silvex	85.2	90.8	100			9.68
	Sucralose	104	107	99.4			6.87
	Thiamethoxam	96.1	117	124			6.00
	Tolfenpyrad	50.3	59.5	68.0			13.3
	Triclopyr	88.8	105	109			3.44
SM 2320 B-2011	Total Alkalinity	99.1				0.343	
SM 2540 C-2015	TDS	96.0				0.746	
SM 2540 D-2015	TSS	99.2					
SM 4500-F- C-2011	Fluoride	97.9	99.6	99.6			0.0
SM 5310 B-2014	Organic Carbon	101	99.4	102			1.71

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2483282
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2483282
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2483291
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2483291
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2483282
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2483282
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2483283
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2483283
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2483283
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2483283
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2483284
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2483292
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2483292
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2483290
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2483282
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2483291
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2483282
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2483282
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2483282
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2483283

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	04/18/2024			04/18/2024 13:00	Chandler E Cox	2483282
EPA 180.1 Rev. 2.0	04/18/2024			04/18/2024 12:31	Jessica K Wilks	2483282
EPA 200.7 Rev. 4.4	04/18/2024	04/19/2024 14:00	George D Taylor	04/24/2024 13:57	McKinley C Carter	2483291
	04/18/2024	04/19/2024 14:00	George D Taylor	04/25/2024 13:53	McKinley C Carter	2483291
EPA 200.8 Rev. 5.4	04/18/2024	04/19/2024 14:00	George D Taylor	04/22/2024 21:53	Emily M Philpot	2483291
EPA 300.0 Rev. 2.1	04/18/2024			04/28/2024 00:54	James L Waggerby	2483282
EPA 350.1 Rev. 2.0	04/18/2024			04/19/2024 13:16	Khloe J Berg	2483283
EPA 351.2 Rev. 2.0	04/18/2024	05/07/2024 12:12	Robyn Blevins	05/08/2024 11:04	Samantha L Bates	2483283
EPA 353.2 Rev. 2.0	04/18/2024			05/01/2024 14:59	Fadila Guebre	2483283
EPA 365.1 Rev. 2.0	04/18/2024	04/22/2024 13:25	Adam P Silver	04/23/2024 09:34	Elise M. Gillis	2483283
EPA 365.1 Rev. 2.0 dissolved	04/18/2024			04/18/2024 13:05	Adam P Silver	2483284
EPA 8270E	04/18/2024	04/19/2024 08:00	Fe-Val Siddell	04/23/2024 21:14	Arthur Maknenko	2483292
	04/18/2024	04/19/2024 08:00	Fe-Val Siddell	04/29/2024 21:11	Julie Wi	2483292
	04/18/2024	04/19/2024 08:00	Fe-Val Siddell	05/01/2024 22:56	Julie Wi	2483292
EPA 8321B	04/18/2024	04/18/2024 11:00	Samatha Luckman	04/19/2024 12:21	Samatha Luckman	2483290
	04/18/2024	04/18/2024 11:00	Samatha Luckman	04/20/2024 02:25	Samatha Luckman	2483290
	04/18/2024	04/19/2024 09:00	Hoor Shaik	05/08/2024 22:59	Juyoung Kim	2483290
SM 2320 B-2011	04/18/2024			04/23/2024 23:50	Dale L. Simmons	2483282
SM 2340 B-2011	04/18/2024			04/24/2024 13:57	McKinley C Carter	2483291
SM 2540 C-2015	04/18/2024			04/19/2024 16:49	Yijie Li	2483282
SM 2540 D-2015	04/18/2024			04/19/2024 16:49	Yijie Li	2483282
SM 4500-F- C-2011	04/18/2024			05/07/2024 16:20	Dale L. Simmons	2483282
SM 5310 B-2014	04/18/2024			04/23/2024 18:28	Khloe J Berg	2483283