

Chemical Analysis Report

NE-DIST-2024-01-26-01

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

Event Description: **SCI SMP**
Request ID: **RQ-2024-01-29-39**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Suite 100
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Certified by: Colin Wright, Program Administrator

Date Certified: 16-FEB-2024 09:25



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: Cannon Creek at CR 341 (Sisters Welcome Rd) Collection Date/Time: 01/25/2024 11:20

Field ID: 21030090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463623	DEP SOP: NU-094-1	Color (true)	200		PCU	P440539	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P440548	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P440894	
		Sulfate	2.0		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	47		mg CaCO3/L	P440915	
	SM 2540 C-2015	TDS	119		mg/L	P440998	RPD
	SM 2540 D-2015	TSS	2	I	mg/L	P440829	
	SM 4500-F- C-2011	Fluoride	0.063	I	mg F/L	P440920	
2463624	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P441066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P440822	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.038		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P440687	
	SM 5310 B-2014	Organic Carbon	20		mg C/L	P440631	
2463625	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P440531	
2463647	EPA 8321B	2,4-D	0.0020	U	ug/L	P440426	
		Acesulfame K	0.10	U	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440426	
		AMPA	0.10	U	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440426	
		Acetamiprid	0.0020	U	ug/L	P440426	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.10	U	ug/L	P440425	
		Afidopyrophen	0.0020	U	ug/L	P440426	
		Bentazon	0.0034		ug/L	P440426	
		Sucralose	0.16		ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	8.0E-04	U	ug/L	P440426	
		Clothianidin	0.0020	U	ug/L	P440426	
		Dinotefuran	0.0020	U	ug/L	P440426	
		Diuron	0.0020	U	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	8.0E-04	U	ug/L	P440426	
		Imazapyr	0.052		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.0036	I	ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCPPP	0.0020	U	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0040	U	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	

Field ID: 21030090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463647	EPA 8321B	Silvex	0.0040	U	ug/L	P440426	
		Thiamethoxam	0.0020	U	ug/L	P440426	
		Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	
2463651	EPA 200.7 Rev. 4.4	Calcium	23.8		mg/L	P440576	
		Iron	690		ug/L	P440931	
		Magnesium	2.25		mg/L	P440576	
		Potassium	0.56	I	mg/L	P440576	
		Sodium	6.6		mg/L	P440576	
		Strontium	34.5		ug/L	P440576	
		Tin	3.0	U	ug/L	P440576	
		Titanium	1.9	I	ug/L	P440576	
		Vanadium	2.0	U	ug/L	P440576	
		Zinc	20	I	ug/L	P440576	
	EPA 200.8 Rev. 5.4	Aluminum	392		ug/L	P440576	
		Antimony	0.11	I	ug/L	P440576	
		Arsenic	1.34		ug/L	P440576	
		Barium	10.7		ug/L	P440576	
		Beryllium	0.021	I	ug/L	P440576	
		Boron	14.5		ug/L	P440576	
		Cadmium	0.020	U	ug/L	P440576	
		Chromium	1.0	I	ug/L	P440576	
		Cobalt	0.127		ug/L	P440576	
		Copper	0.68	I	ug/L	P440576	
		Lead	0.53		ug/L	P440576	
		Manganese	17.1		ug/L	P440576	
		Molybdenum	0.24	I	ug/L	P440576	
		Nickel	0.50	U	ug/L	P440576	
		Selenium	0.20	U	ug/L	P440576	
		Silver	0.010	U	ug/L	P440576	
		Thallium	0.10	U	ug/L	P440576	
	SM 2340 B-2011	Hardness	68.7		mg/L	P440576	
2463652	EPA 8270E	Oxybenzone**	10	U	ng/L	P440483	
		Acetochlor	0.21	U	ng/L	P440483	
		Octinoxate**	160	U	ng/L	P440483	
		Alachlor	0.41	U	ng/L	P440483	
		Avobenzone**	100	U	ng/L	P440483	
		Ametryn	1.1	U	ng/L	P440483	
		Atrazine	4.1		ng/L	P440483	
		PBDE-47**	4.1	U	ng/L	P440483	
		Atrazine Desethyl	1.3	U	ng/L	P440483	
		PBDE-99**	5.2	U	ng/L	P440483	
		Azinphos Methyl	3.1	U	ng/L	P440483	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P440483	
		Azoxystrobin	0.41	U	ng/L	P440483	

Field ID: 21030090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463652	EPA 8270E	Bromacil	2.3	I	ng/L	P440483	
		2-Ethylhexyl	12	U	ng/L	P440483	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P440483	
		Dechlorane Plus**	31	U	ng/L	P440483	
		Caffeine**	7.8	U	ng/L	P440483	
		Dechlorane 602**	5.2	U	ng/L	P440483	
		Carbophenothion	0.52	U	ng/L	P440483	
		Dechlorane 603**	4.1	U	ng/L	P440483	
		Carfentrazone Ethyl	0.16	U	ng/L	P440483	
		Hexabromobenzene**	6.2	U	ng/L	P440483	
		Chlorfenapyr	0.31	U	ng/L	P440483	
		PBB-153**	6.2	U	ng/L	P440483	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P440483	
		Pentabromotoluene**	3.1	U	ng/L	P440483	
		Chlorpyrifos Methyl	0.10	U	ng/L	P440483	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P440483	
		Coumaphos	1.1	U	ng/L	P440483	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P440483	
		Cyanazine	5.2	U	ng/L	P440483	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	4.6	I	ng/L	P440483	
		Cyprodinil	0.21	U	ng/L	P440483	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P440483	
		Demeton	3.6	U	ng/L	P440483	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P440483	
		Diazinon	0.13	U	ng/L	P440483	
		Difenoconazole	0.62	U	ng/L	P440483	
		Dimethenamid	0.10	U	ng/L	P440483	
		Dimethomorph	0.31	UJ	ng/L	P440483	MS
		Disulfoton	0.62	U	ng/L	P440483	
		Dithiopyr	1.0	UJ	ng/L	P440483	MS
		EPTC	0.52	U	ng/L	P440483	
		Ethion	0.31	U	ng/L	P440483	
		Ethoprop	0.13	U	ng/L	P440483	
		Etridiazole	0.10	U	ng/L	P440483	
		Fenamiphos	0.47	U	ng/L	P440483	
		Fenbuconazole	0.52	U	ng/L	P440483	
		Fipronil	0.77	IJ	ng/L	P440483	LCS
		Fipronil Desulfinyl**	1.7		ng/L	P440483	
		Fipronil Sulfide	1.8		ng/L	P440483	
		Fipronil Sulfone	3.5		ng/L	P440483	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P440483	LCS
		Fludioxonil	0.10	U	ng/L	P440483	
		Flumioxazin	3.1	U	ng/L	P440483	

Field ID: 21030090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463652	EPA 8270E	Flutolanil	0.10	UJ	ng/L	P440483	MS
		Fluxapyroxad	0.26	U	ng/L	P440483	
		Fonofos	0.16	U	ng/L	P440483	
		Hexazinone	0.52	U	ng/L	P440483	
		Imazalil	0.67	U	ng/L	P440483	
		Iprodione	0.52	U	ng/L	P440483	
		Loratadine**	0.31	UJ	ng/L	P440483	MS
		Malathion	0.36	U	ng/L	P440483	
		Metalaxyl	0.52	U	ng/L	P440483	
		Metolachlor	0.78	U	ng/L	P440483	
		Metribuzin	0.41	U	ng/L	P440483	
		Mevinphos	1.0	U	ng/L	P440483	
		Molinate	0.26	U	ng/L	P440483	
		Myclobutanil	0.36	U	ng/L	P440483	
		Naled	2.6	U	ng/L	P440483	
		Napropamide	0.72	U	ng/L	P440483	
		Norflurazon	1.0	U	ng/L	P440483	
		Oxadiazon	0.36	U	ng/L	P440483	
		Oxyfluorfen	0.21	U	ng/L	P440483	
		Parathion Ethyl	0.16	U	ng/L	P440483	
		Parathion Methyl	0.21	U	ng/L	P440483	
		Pendimethalin	1.8	U	ng/L	P440483	
		Phenytain**	5.5	U	ng/L	P440483	
		Phorate	0.26	U	ng/L	P440483	
		Prodiamine	0.21	U	ng/L	P440483	
		Prometon	3.1	U	ng/L	P440483	
		Prometryn	0.36	U	ng/L	P440483	
		Pronamide	7.6		ng/L	P440483	
		Propanil	0.10	U	ng/L	P440483	
		Propargite	0.83	U	ng/L	P440483	
		Propiconazole	0.62	U	ng/L	P440483	
		Pyraflufen Ethyl	0.31	U	ng/L	P440483	
		Pyridaben	1.4	U	ng/L	P440483	
		Pyriproxyfen	0.26	U	ng/L	P440483	
		Simazine	38		ng/L	P440483	
		Stirophos	0.41	U	ng/L	P440483	
		Sulfentrazone	1.4	U	ng/L	P440483	
		Tebuconazole	3.3	I	ng/L	P440483	
		Terbufos	0.21	U	ng/L	P440483	
		Terbutylazine	0.21	U	ng/L	P440483	
		Thiobencarb	0.52	U	ng/L	P440483	
		Triadimefon	0.16	U	ng/L	P440483	

Field ID: 21030090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: MS accuracy for simazine and pronamide 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: P440539

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440548

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440576

Component	Result	Code	Units
Calcium	0.075	U	mg/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 200.7 Rev. 4.4
Batch ID: P440931

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440576

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440822

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P440531

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

Reference Method: EPA 8270E
Batch ID: P440483

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
Avobenzene	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P440483

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P440483

Component	Result	Code	Units
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
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
Stiophos	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: P440425

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: P440426

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P440426

Component	Result	Code	Units
2,4-D	0.0048	I	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
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: P440915

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

Reference Method: SM 2540 C-2015
Batch ID: P440998

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P440829

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2014
Batch ID: P440631

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: P440539

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440548

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	109		P	85 - 115
Magnesium	109		P	85 - 115
Potassium	104		P	85 - 115
Sodium	107		P	85 - 115
Strontium	104		P	85 - 115
Tin	98.5		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	99.6		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440931

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	98.8		P	85 - 115
Barium	98.8		P	85 - 115
Beryllium	94.0		P	85 - 115
Boron	105		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	97.5		P	85 - 115
Copper	96.3		P	85 - 115
Lead	91.6		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	97.9		P	85 - 115
Nickel	97.8		P	85 - 115
Selenium	99.7		P	85 - 115
Silver	90.6		P	85 - 115
Thallium	95.4		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440822

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P440531

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

Reference Method: EPA 8270E
Batch ID: P440483

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	78.5		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	77.7		P	37 - 154
Acetochlor	94.8		P	64 - 124
Alachlor	109		P	61 - 118
Ametryn	119		P	47 - 158
Atrazine	83.1		P	68 - 121
Atrazine Desethyl	79.1		P	30 - 119
Avobenzone	161		P	48 - 193
Azinphos Methyl	115		P	30 - 194
Azoxystrobin	97.7		P	58 - 154

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440483

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromacil	91.4		P	47 - 126
Butylate	64.1		P	31 - 83.0
Caffeine	86.3		P	10 - 180
Carbophenothion	133		P	59 - 133
Carfentrazone Ethyl	146		P	59 - 147
Chlorfenapyr	90.0		P	52 - 118
Chlorpyrifos Ethyl	113		P	59 - 119
Chlorpyrifos Methyl	102		P	65 - 123
Coumaphos	45.0		P	11 - 223
Cyanazine	119		P	63 - 250
Cyprodinil	137		P	52 - 143
Dechlorane 602	101		P	23 - 142
Dechlorane 603	129		P	51 - 171
Dechlorane Plus	134		P	46 - 161
Demeton	63.6		P	42 - 119
Diazinon	114		P	67 - 132
Difenoconazole	119		P	12 - 204
Dimethenamid	101		P	53 - 113
Dimethomorph	222		P	13 - 238
Disulfoton	106		P	56 - 126
Dithiopyr	106		P	58 - 127
EPTC	54.0		P	31 - 78.0
Ethion	77.8		P	24 - 127
Ethoprop	85.1		P	60 - 118
Etridiazole	63.3		P	32 - 91.0
Fenamiphos	91.9		P	54 - 129
Fenbuconazole	95.5		P	31 - 162
Fipronil	134		F	56 - 131
Fipronil Desulfinyl	120		P	58 - 132
Fipronil Sulfide	116		P	51 - 123
Fipronil Sulfone	112		P	50 - 125
Fluazifop-P-butyl	135		F	52 - 132
Fludioxonil	103		P	52 - 129
Flumioxazin	147		P	34 - 250
Flutolanil	109		P	45 - 128
Fluxapyroxad	136		P	31 - 150
Fonofos	98.3		P	60 - 116
Hexabromobenzene	72.9		P	52 - 165
Hexazinone	92.0		P	59 - 120
Imazalil	112		P	39 - 134
Iprodione	166		P	39 - 243
Loratadine	197		P	10 - 240
Malathion	123		P	53 - 145
Metalaxyl	99.8		P	59 - 120
Metolachlor	110		P	64 - 122
Metribuzin	99.6		P	33 - 128
Mevinphos	90.4		P	48 - 119
Molinate	60.5		P	42 - 89.0
Myclobutanil	108		P	54 - 129
Naled	40.0		P	10 - 138
Napropamide	89.6		P	40 - 122
Norflurazon	101		P	49 - 132

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440483

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	118		P	29 - 176
Oxadiazon	96.4		P	50 - 115
Oxybenzone	133		P	45 - 145
Oxyfluorfen	122		P	62 - 149
Parathion Ethyl	84.5		P	68 - 119
Parathion Methyl	90.2		P	68 - 147
PBB-153	71.1		P	42 - 179
PBDE-47	116		P	44 - 141
PBDE-99	110		P	36 - 141
Pendimethalin	132		P	59 - 158
Pentabromotoluene	98.1		P	58 - 148
Phenytoin	39.2		P	10 - 151
Phorate	87.8		P	44 - 124
Prodiamine	55.7		P	10 - 136
Prometon	117		P	45 - 131
Prometryn	108		P	52 - 140
Pronamide	113		P	70 - 129
Propanil	96.5		P	54 - 144
Propargite	88.2		P	10 - 191
Propiconazole	98.4		P	49 - 128
Pyraflufen Ethyl	132		P	46 - 141
Pyridaben	40.2		P	29 - 198
Pyriproxyfen	98.8		P	33 - 221
Simazine	79.7		P	62 - 119
Stiophos	96.6		P	13 - 144
Sulfentrazone	73.3		P	12 - 152
Tebuconazole	73.6		P	10 - 135
Terbufos	97.2		P	67 - 136
Terbutylazine	93.4		P	66 - 113
Tetradecachloro-m-terphenyl	189		P	30 - 235
Thiobencarb	97.0		P	51 - 125
Tri-o-cresyl Phosphate	99.0		P	50 - 150
Triadimefon	97.6		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	89.6		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	85.3		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	106		P	59 - 166

Reference Method: EPA 8321B
Batch ID: P440425

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150
AMPA	98.6		P	40 - 160
Endothall	89.9		P	40 - 160
Glufosinate	94.0		P	40 - 160
Glyphosate	101		P	40 - 160
Sucralose	88.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440426

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

Reference Method: EPA 8321B
Batch ID: P440426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	123		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	92.3		P	30 - 150
Acetamiprid	95.2		P	40 - 150
Afidopyropen	75.3		P	30 - 150
Bentazon	96.0		P	30 - 150
Benzovindiflupyr	92.6		P	40 - 150
Carbamazepine	87.5		P	40 - 150
Clothianidin	99.1		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	86.0		P	40 - 150
Fenuron	100		P	40 - 150
Fluridone	96.7		P	40 - 150
Hydrocodone	115		P	40 - 150
Ibuprofen	79.1		P	40 - 150
Imazapyr	97.1		P	40 - 150
Imidacloprid	97.0		P	40 - 150
Linuron	81.4		P	40 - 150
Mandestrobin	95.6		P	40 - 150
MCPP	97.9		P	40 - 150
Naproxen	72.6		P	40 - 150
Primidone	90.6		P	40 - 150
Pyraclostrobin	93.9		P	40 - 150
Silvex	92.1		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	61.8		P	30 - 150
Triclopyr	116		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P440915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P440998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.2		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P440829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.4		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P440631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463528	Calcium	103		P	80 - 120
2463528	Magnesium	107		P	80 - 120
2463528	Potassium	104	104	P/P	80 - 120
2463528	Sodium	105	104	P/P	80 - 120
2463528	Strontium	101	101	P/P	80 - 120
2463528	Tin	94.5	94.7	P/P	80 - 120
2463528	Titanium	101	102	P/P	80 - 120
2463528	Vanadium	99.4	99.4	P/P	80 - 120
2463528	Zinc	95.4	95.0	P/P	80 - 120
2463555	Calcium	106		P	80 - 120
2463555	Magnesium	107		P	80 - 120
2463555	Potassium	103		P	80 - 120
2463555	Sodium	106		P	80 - 120
2463555	Strontium	102		P	80 - 120
2463555	Tin	95.1		P	80 - 120
2463555	Titanium	103		P	80 - 120
2463555	Vanadium	101		P	80 - 120
2463555	Zinc	95.6		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2465641	Iron	102	101	P/P	80 - 120
2465754	Iron	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463528	Aluminum	103	101	P/P	80 - 120
2463528	Antimony	105	104	P/P	80 - 120
2463528	Arsenic	104	102	P/P	80 - 120
2463528	Barium	104	103	P/P	80 - 120
2463528	Beryllium	100	101	P/P	80 - 120
2463528	Boron	107	106	P/P	80 - 120
2463528	Cadmium	105	106	P/P	80 - 120
2463528	Chromium	109	108	P/P	80 - 120
2463528	Cobalt	103	101	P/P	80 - 120
2463528	Copper	98.8	97.2	P/P	80 - 120
2463528	Lead	95.9	95.3	P/P	80 - 120
2463528	Manganese	106	104	P/P	80 - 120
2463528	Molybdenum	105	105	P/P	80 - 120
2463528	Nickel	101	100	P/P	80 - 120
2463528	Selenium	103	103	P/P	80 - 120
2463528	Silver	92.7	92.6	P/P	80 - 120
2463528	Thallium	103	103	P/P	80 - 120
2463555	Aluminum	103		P	80 - 120
2463555	Antimony	106		P	80 - 120
2463555	Arsenic	105		P	80 - 120
2463555	Barium	104		P	80 - 120
2463555	Beryllium	100		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463555	Boron	111		P	80 - 120
2463555	Cadmium	108		P	80 - 120
2463555	Chromium	91.7		P	80 - 120
2463555	Cobalt	102		P	80 - 120
2463555	Copper	99.0		P	80 - 120
2463555	Lead	98.2		P	80 - 120
2463555	Manganese	106		P	80 - 120
2463555	Molybdenum	107		P	80 - 120
2463555	Nickel	98.3		P	80 - 120
2463555	Selenium	102		P	80 - 120
2463555	Silver	94.6		P	80 - 120
2463555	Thallium	105		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463628	Chloride	100		P	90 - 110
2463671	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463628	Sulfate	98.5		P	90 - 110
2463671	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463593	Ammonia-N	98.6	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463599	NO2NO3-N	93.4	94.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463656	Total-P	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P440531

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463750	O-Phosphate-P	97.3	98.3	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P440483

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463652	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	73.8	70.7	P/P	50 - 150
2463652	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	67.3	61.0	P/P	29 - 155
2463652	Acetochlor	91.5	95.1	P/P	60 - 124
2463652	Alachlor	96.0	99.8	P/P	54 - 122
2463652	Ametryn	117	133	P/P	51 - 208
2463652	Atrazine	79.7	85.3	P/P	57 - 131
2463652	Atrazine Desethyl	73.7	74.5	P/P	13 - 124
2463652	Avobenzone	123	127	P/P	35 - 187
2463652	Azinphos Methyl	89.8	91.3	P/P	43 - 276
2463652	Azoxystrobin	108	115	P/P	52 - 300
2463652	Bromacil	82.6	86.2	P/P	44 - 134
2463652	Butylate	53.6	52.2	P/P	23 - 82.0
2463652	Caffeine	102	109	P/P	10 - 277
2463652	Carbophenothion	92.8	116	P/P	47 - 135
2463652	Carfentrazone Ethyl	116	139	P/P	46 - 147
2463652	Chlorfenapyr	89.2	93.3	P/P	43 - 114
2463652	Chlorpyrifos Ethyl	94.9	99.0	P/P	47 - 124
2463652	Chlorpyrifos Methyl	95.6	98.3	P/P	60 - 135
2463652	Coumaphos	39.5	71.4	P/P	10 - 222
2463652	Cyanazine	117	131	P/P	10 - 257
2463652	Cyprodinil	124	136	P/P	42 - 148
2463652	Dechlorane 602	72.9	71.9	P/P	14 - 133
2463652	Dechlorane 603	99.5	115	P/P	18 - 191
2463652	Dechlorane Plus	111	124	P/P	23 - 154
2463652	Demeton	58.1	63.4	P/P	41 - 137
2463652	Diazinon	125	127	P/P	64 - 139
2463652	Difenoconazole	135	132	P/P	46 - 254
2463652	Dimethenamid	93.0	95.3	P/P	47 - 117
2463652	Dimethomorph	235	291	P/F	14 - 255
2463652	Disulfoton	109	120	P/P	52 - 130
2463652	Dithiopyr	123	99.9	F/P	40 - 121
2463652	EPTC	43.7	36.2	P/P	19 - 78.0
2463652	Ethion	66.1	64.4	P/P	12 - 124
2463652	Ethoprop	93.7	94.5	P/P	68 - 144
2463652	Etridiazole	54.9	51.6	P/P	26 - 96.0
2463652	Fenamiphos	84.0	79.3	P/P	41 - 129
2463652	Fenbuconazole	100	103	P/P	26 - 169
2463652	Fipronil	114	102	P/P	46 - 145
2463652	Fipronil Desulfinyl	118	105	P/P	47 - 136
2463652	Fipronil Sulfide	113	99.8	P/P	41 - 127
2463652	Fipronil Sulfone	87.9	120	P/P	35 - 133
2463652	Fluazifop-P-butyl	124	130	P/P	46 - 131
2463652	Fludioxonil	92.7	106	P/P	51 - 124
2463652	Flumioxazin	142	147	P/P	10 - 289
2463652	Flutolanil	163	168	F/F	34 - 130
2463652	Fluxapyroxad	123	119	P/P	10 - 197
2463652	Fonofos	96.3	100	P/P	42 - 131
2463652	Hexabromobenzene	79.3	91.1	P/P	47 - 178
2463652	Hexazinone	86.5	97.4	P/P	64 - 125
2463652	Imazalil	115	118	P/P	37 - 252
2463652	Iprodione	145	163	P/P	34 - 265
2463652	Loratadine	211	257	P/F	20 - 231

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P440483

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463652	Malathion	111	114	P/P	34 - 164
2463652	Metalaxyl	102	107	P/P	49 - 125
2463652	Metolachlor	103	108	P/P	54 - 125
2463652	Metribuzin	92.6	106	P/P	51 - 139
2463652	Mevinphos	86.9	97.7	P/P	46 - 130
2463652	Molinate	55.8	57.0	P/P	39 - 93.0
2463652	Myclobutanil	95.9	110	P/P	50 - 130
2463652	Naled	42.3	38.3	P/P	10 - 150
2463652	Napropamide	102	97.1	P/P	10 - 109
2463652	Norflurazon	98.3	99.4	P/P	36 - 134
2463652	Octinoxate	88.9	95.0	P/P	18 - 170
2463652	Oxadiazon	92.6	97.3	P/P	43 - 112
2463652	Oxybenzone	114	122	P/P	33 - 154
2463652	Oxyfluorfen	127	138	P/P	62 - 154
2463652	Parathion Ethyl	79.8	101	P/P	65 - 120
2463652	Parathion Methyl	80.8	95.8	P/P	77 - 185
2463652	PBB-153	66.8	75.1	P/P	23 - 193
2463652	PBDE-47	93.3	101	P/P	31 - 139
2463652	PBDE-99	91.7	92.9	P/P	24 - 138
2463652	Pendimethalin	109	107	P/P	50 - 146
2463652	Pentabromotoluene	85.6	92.5	P/P	54 - 152
2463652	Phenytoin	79.0	76.3	P/P	10 - 157
2463652	Phorate	83.6	86.4	P/P	54 - 161
2463652	Prodiamine	52.7	42.1	P/P	29 - 160
2463652	Prometon	111	120	P/P	38 - 145
2463652	Prometryn	112	112	P/P	32 - 151
2463652	Propanil	85.3	101	P/P	50 - 147
2463652	Propargite	70.7	67.1	P/P	10 - 190
2463652	Propiconazole	92.1	109	P/P	30 - 146
2463652	Pyraflufen Ethyl	114	121	P/P	30 - 147
2463652	Pyridaben	43.8	46.4	P/P	15 - 195
2463652	Pyriproxyfen	90.9	90.3	P/P	31 - 218
2463652	Stirophos	101	96.7	P/P	10 - 134
2463652	Sulfentrazone	110	131	P/P	53 - 186
2463652	Tebuconazole	97.6	80.5	P/P	10 - 133
2463652	Terbufos	86.7	99.5	P/P	65 - 151
2463652	Terbutylazine	95.5	95.1	P/P	62 - 117
2463652	Tetradecachloro-m-terphenyl	154	216	P/P	10 - 260
2463652	Thiobencarb	91.6	96.6	P/P	48 - 122
2463652	Tri-o-cresyl Phosphate	81.0	81.8	P/P	32 - 151
2463652	Triadimefon	90.2	102	P/P	46 - 124
2463652	Tris(1-chloro-2-propyl) phosphate (TCPP)	102	101	P/P	51 - 154
2463652	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	81.1	89.5	P/P	59 - 147
2463652	Tris(2-chloroethyl) phosphate (TCEP)	118	120	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P440425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463113	Acesulfame K	130	141	P/P	40 - 150
2463113	AMPA	94.3	94.9	P/P	40 - 160
2463113	Endothall	98.6	100	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P440425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463113	Glufosinate	99.6	100	P/P	40 - 160
2463113	Glyphosate	102	104	P/P	40 - 160
2463113	Sucralose	96.4	105	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462667	2,4,5-T	91.9	84.9	P/P	40 - 150
2462667	Acetamiprid	96.3	98.7	P/P	40 - 150
2462667	Afidopyropen	94.4	97.6	P/P	30 - 150
2462667	Benzovindiflupyr	91.4	106	P/P	40 - 150
2462667	Carbamazepine	87.7	93.5	P/P	40 - 150
2462667	Clothianidin	111	119	P/P	40 - 150
2462667	Dinotefuran	111	123	P/P	40 - 150
2462667	Diuron	83.3	84.7	P/P	40 - 150
2462667	Fenuron	91.8	91.6	P/P	40 - 150
2462667	Fluridone	90.7	98.5	P/P	40 - 150
2462667	Hydrocodone	98.6	116	P/P	40 - 150
2462667	Ibuprofen	81.1	74.2	P/P	40 - 150
2462667	Imazapyr	99.2	109	P/P	40 - 150
2462667	Imidacloprid	127	133	P/P	40 - 150
2462667	Linuron	84.0	85.1	P/P	40 - 150
2462667	Mandestrobin	99.4	110	P/P	40 - 150
2462667	MCPP	91.9	93.9	P/P	40 - 150
2462667	Naproxen	76.2	73.5	P/P	40 - 150
2462667	Primidone	95.9	106	P/P	40 - 150
2462667	Pyraclostrobin	86.5	99.0	P/P	40 - 150
2462667	Silvex	80.9	84.9	P/P	40 - 150
2462667	Thiamethoxam	121	118	P/P	40 - 150
2462667	Tolfenpyrad	53.1	68.2	P/P	30 - 150
2462667	Triclopyr	90.9	89.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463672	Fluoride	99.5	100	P/P	94 - 106

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P440539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463726	Color (true)	2.61	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463519	Turbidity	18.8	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463528	Calcium	0.188	Spike	P	0 - 20
2463528	Magnesium	0.216	Spike	P	0 - 20
2463528	Potassium	0.569	Spike	P	0 - 20
2463528	Sodium	0.667	Spike	P	0 - 20
2463528	Strontium	0.152	Spike	P	0 - 20
2463528	Tin	0.216	Spike	P	0 - 20
2463528	Titanium	0.142	Spike	P	0 - 20
2463528	Vanadium	0.0458	Spike	P	0 - 20
2463528	Zinc	0.389	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2465641	Iron	0.806	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463528	Aluminum	1.72	Spike	P	0 - 20
2463528	Antimony	0.769	Spike	P	0 - 20
2463528	Arsenic	1.97	Spike	P	0 - 20
2463528	Barium	1.00	Spike	P	0 - 20
2463528	Beryllium	0.861	Spike	P	0 - 20
2463528	Boron	0.983	Spike	P	0 - 20
2463528	Cadmium	1.49	Spike	P	0 - 20
2463528	Chromium	1.15	Spike	P	0 - 20
2463528	Cobalt	1.61	Spike	P	0 - 20
2463528	Copper	1.68	Spike	P	0 - 20
2463528	Lead	0.602	Spike	P	0 - 20
2463528	Manganese	1.54	Spike	P	0 - 20
2463528	Molybdenum	0.420	Spike	P	0 - 20
2463528	Nickel	1.07	Spike	P	0 - 20
2463528	Selenium	0.369	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463528	Silver	0.118	Spike	P	0 - 20
2463528	Thallium	0.306	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463628	Chloride	0.335	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463628	Sulfate	0.472	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463593	Ammonia-N	0.317	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463585	Kjeldahl Nitrogen	4.94	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463599	NO2NO3-N	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463656	Total-P	1.62	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P440531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463750	O-Phosphate-P	0.862	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463652	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	4.23	Spike	P	0 - 30
2463652	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	9.93	Spike	P	0 - 35
2463652	Acetochlor	3.81	Spike	P	0 - 28
2463652	Alachlor	3.96	Spike	P	0 - 30
2463652	Ametryn	12.9	Spike	P	0 - 32
2463652	Atrazine	3.91	Spike	P	0 - 33
2463652	Atrazine Desethyl	1.08	Spike	P	0 - 36
2463652	Avobenzone	3.35	Spike	P	0 - 35
2463652	Azinphos Methyl	1.59	Spike	P	0 - 62
2463652	Azoxystrobin	6.48	Spike	P	0 - 39
2463652	Bromacil	3.52	Spike	P	0 - 33
2463652	Butylate	2.59	Spike	P	0 - 51
2463652	Caffeine	6.63	Spike	P	0 - 100
2463652	Carbophenothion	22.6	Spike	P	0 - 34
2463652	Carfentrazone Ethyl	18.0	Spike	P	0 - 33
2463652	Chlorfenapyr	4.55	Spike	P	0 - 28
2463652	Chlorpyrifos Ethyl	4.20	Spike	P	0 - 31
2463652	Chlorpyrifos Methyl	2.87	Spike	P	0 - 27
2463652	Coumaphos	57.5	Spike	P	0 - 62
2463652	Cyanazine	11.1	Spike	P	0 - 48
2463652	Cyprodinil	9.11	Spike	P	0 - 29
2463652	Dechlorane 602	1.41	Spike	P	0 - 60
2463652	Dechlorane 603	14.8	Spike	P	0 - 40
2463652	Dechlorane Plus	11.7	Spike	P	0 - 38
2463652	Demeton	8.74	Spike	P	0 - 33
2463652	Diazinon	2.04	Spike	P	0 - 32
2463652	Difenoconazole	1.68	Spike	P	0 - 71
2463652	Dimethenamid	2.45	Spike	P	0 - 60
2463652	Dimethomorph	21.0	Spike	P	0 - 61
2463652	Disulfoton	9.64	Spike	P	0 - 30
2463652	Dithiopyr	20.7	Spike	P	0 - 28
2463652	EPTC	18.8	Spike	P	0 - 56
2463652	Ethion	2.65	Spike	P	0 - 79
2463652	Ethoprop	0.885	Spike	P	0 - 31
2463652	Etridiazole	6.35	Spike	P	0 - 43
2463652	Fenamiphos	5.70	Spike	P	0 - 43
2463652	Fenbuconazole	2.06	Spike	P	0 - 79
2463652	Fipronil	9.59	Spike	P	0 - 46
2463652	Fipronil Desulfinyl	7.99	Spike	P	0 - 36
2463652	Fipronil Sulfide	7.96	Spike	P	0 - 34
2463652	Fipronil Sulfone	15.5	Spike	P	0 - 47
2463652	Fluazifop-P-butyl	5.16	Spike	P	0 - 38
2463652	Fludioxonil	13.2	Spike	P	0 - 29
2463652	Flumioxazin	3.71	Spike	P	0 - 63
2463652	Flutolanil	3.15	Spike	P	0 - 36
2463652	Fluxapyroxad	3.66	Spike	P	0 - 65
2463652	Fonofos	4.07	Spike	P	0 - 35
2463652	Hexabromobenzene	13.8	Spike	P	0 - 41
2463652	Hexazinone	11.8	Spike	P	0 - 31
2463652	Imazalil	2.34	Spike	P	0 - 52
2463652	Iprodione	11.8	Spike	P	0 - 49

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463652	Loratadine	19.8	Spike	P	0 - 59
2463652	Malathion	2.25	Spike	P	0 - 77
2463652	Metalaxyl	5.19	Spike	P	0 - 76
2463652	Metolachlor	4.87	Spike	P	0 - 29
2463652	Metribuzin	13.4	Spike	P	0 - 51
2463652	Mevinphos	11.7	Spike	P	0 - 31
2463652	Molinate	2.18	Spike	P	0 - 39
2463652	Myclobutanil	13.8	Spike	P	0 - 34
2463652	Naled	10.1	Spike	P	0 - 37
2463652	Napropamide	4.76	Spike	P	0 - 100
2463652	Norflurazon	1.20	Spike	P	0 - 54
2463652	Octinoxate	6.69	Spike	P	0 - 35
2463652	Oxadiazon	4.96	Spike	P	0 - 34
2463652	Oxybenzone	6.62	Spike	P	0 - 35
2463652	Oxyfluorfen	8.42	Spike	P	0 - 28
2463652	Parathion Ethyl	23.2	Spike	P	0 - 31
2463652	Parathion Methyl	17.0	Spike	P	0 - 29
2463652	PBB-153	11.7	Spike	P	0 - 49
2463652	PBDE-47	8.35	Spike	P	0 - 36
2463652	PBDE-99	1.20	Spike	P	0 - 46
2463652	Pendimethalin	1.50	Spike	P	0 - 31
2463652	Pentabromotoluene	7.78	Spike	P	0 - 16
2463652	Phenytoin	3.42	Spike	P	0 - 100
2463652	Phorate	3.19	Spike	P	0 - 36
2463652	Prodiamine	22.3	Spike	P	0 - 68
2463652	Prometon	7.93	Spike	P	0 - 35
2463652	Prometryn	0.388	Spike	P	0 - 33
2463652	Pronamide	1.52	Spike	P	0 - 24
2463652	Propanil	16.8	Spike	P	0 - 28
2463652	Propargite	5.17	Spike	P	0 - 53
2463652	Propiconazole	17.2	Spike	P	0 - 44
2463652	Pyraflufen Ethyl	5.81	Spike	P	0 - 61
2463652	Pyridaben	5.66	Spike	P	0 - 43
2463652	Pyriproxyfen	0.626	Spike	P	0 - 82
2463652	Simazine	4.18	Spike	P	0 - 29
2463652	Stirophos	4.22	Spike	P	0 - 100
2463652	Sulfentrazone	17.3	Spike	P	0 - 64
2463652	Tebuconazole	15.1	Spike	P	0 - 76
2463652	Terbufos	13.7	Spike	P	0 - 29
2463652	Terbuthylazine	0.380	Spike	P	0 - 28
2463652	Tetradecachloro-m-terphenyl	33.4	Spike	P	0 - 42
2463652	Thiobencarb	5.25	Spike	P	0 - 26
2463652	Tri-o-cresyl Phosphate	1.03	Spike	P	0 - 24
2463652	Triadimefon	11.9	Spike	P	0 - 40
2463652	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.971	Spike	P	0 - 30
2463652	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	9.40	Spike	P	0 - 22
2463652	Tris(2-chloroethyl) phosphate (TCEP)	1.28	Spike	P	0 - 15

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P440425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463113	Acesulfame K	8.00	Spike	P	0 - 30
2463113	AMPA	0.637	Spike	P	0 - 30
2463113	Endothall	1.93	Spike	P	0 - 30
2463113	Glufosinate	0.579	Spike	P	0 - 30
2463113	Glyphosate	2.01	Spike	P	0 - 30
2463113	Sucralose	8.13	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P440426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462667	2,4-D	7.56	Spike	P	0 - 30
2462667	2,4,5-T	7.93	Spike	P	0 - 30
2462667	Acetaminophen	23.5	Spike	P	0 - 30
2462667	Acetamiprid	2.41	Spike	P	0 - 30
2462667	Afidopyropen	3.33	Spike	P	0 - 30
2462667	Bentazon	25.4	Spike	P	0 - 30
2462667	Benzovindiflupyr	14.4	Spike	P	0 - 30
2462667	Carbamazepine	6.42	Spike	P	0 - 30
2462667	Clothianidin	6.74	Spike	P	0 - 30
2462667	Dinotefuran	9.81	Spike	P	0 - 30
2462667	Diuron	1.70	Spike	P	0 - 30
2462667	Fenuron	0.218	Spike	P	0 - 30
2462667	Fluridone	8.18	Spike	P	0 - 30
2462667	Hydrocodone	16.3	Spike	P	0 - 30
2462667	Ibuprofen	8.87	Spike	P	0 - 30
2462667	Imazapyr	6.61	Spike	P	0 - 30
2462667	Imidacloprid	3.62	Spike	P	0 - 30
2462667	Linuron	1.19	Spike	P	0 - 30
2462667	Mandestrobin	10.2	Spike	P	0 - 30
2462667	MCPP	2.08	Spike	P	0 - 30
2462667	Naproxen	2.85	Spike	P	0 - 30
2462667	Primidone	9.77	Spike	P	0 - 30
2462667	Pyraclostrobin	13.5	Spike	P	0 - 30
2462667	Silvex	4.81	Spike	P	0 - 30
2462667	Thiamethoxam	1.88	Spike	P	0 - 30
2462667	Tolfenpyrad	25.1	Spike	P	0 - 30
2462667	Triclopyr	1.27	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P440915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463672	Total Alkalinity	0.302	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P440998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463397	TDS	10.2	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463672	Fluoride	0.473	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P440631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463594	Organic Carbon	1.02	Spike	P	0 - 15

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

Quality Assurance Report Surrogates

Lab Sample ID: 2463647
Field Sample ID: 21030090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	72.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.5	P	30 - 160
EPA 8321B	Diuron-d6	60.7	P	30 - 160
EPA 8321B	Endothall-d6	97.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.8	P	30 - 160
EPA 8321B	Primidone-d5	83.1	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2463652
Field Sample ID: 21030090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	73.6	P	20 - 200
EPA 8270E	Simazine-d10	83.5	P	58 - 137
EPA 8270E	Terbufos-d10	81.1	P	50 - 134
EPA 8270E	Terphenyl-d14	84.7	P	44 - 134

Quality Assurance Report

Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A123857
Included Lab Sample IDs: 2463625

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.7	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A123860
Included Lab Sample IDs: 2463623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A123862
Included Lab Sample IDs: 2463623

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

Reference Method: EPA 8321B
Run ID: A123867
Included Lab Sample IDs: 2463647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	125	126	P/P	60 - 160
Sucralose	88.7	102	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A123868
Included Lab Sample IDs: 2463647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.8	96.5	P/P	60 - 160
Endothall	94.6	90.9	P/P	60 - 160
Glufosinate	98.1	100	P/P	60 - 160
Glyphosate	102	101	P/P	60 - 160

Reference Method: SM 5310 B-2014
Run ID: A123895
Included Lab Sample IDs: 2463624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	111	96.9	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123908
Included Lab Sample IDs: 2463623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.3	99.3	P/P	90 - 110
Sulfate	98.4	98.4	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A123910
Included Lab Sample IDs: 2463651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	100	P/P	90 - 110
Antimony	99.7	99.3	P/P	90 - 110
Arsenic	97.4	97.6	P/P	90 - 110
Barium	98.6	98.1	P/P	90 - 110
Beryllium	99.2	98.9	P/P	90 - 110
Boron	106	105	P/P	90 - 110
Cadmium	100	99.4	P/P	90 - 110
Chromium	98.0	96.6	P/P	90 - 110
Cobalt	95.3	95.0	P/P	90 - 110
Lead	93.6	94.3	P/P	90 - 110
Manganese	96.8	96.3	P/P	90 - 110
Molybdenum	100	100	P/P	90 - 110
Nickel	95.1	94.4	P/P	90 - 110
Selenium	97.1	98.5	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Thallium	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123917
Included Lab Sample IDs: 2463624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A123933
Included Lab Sample IDs: 2463652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	104		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120
Avobenzone	100		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	95.8		P	80 - 120
Dechlorane Plus	110		P	80 - 120
Hexabromobenzene	80.8		P	80 - 120
Octinoxate	96.1		P	80 - 120
Oxybenzone	109		P	80 - 120
PBB-153	93.4		P	80 - 120
PBDE-47	80.7		P	80 - 120
PBDE-99	104		P	80 - 120
Pentabromotoluene	96.2		P	80 - 120
Tetradecachloro-m-terphenyl	105		P	80 - 120
Tri-o-cresyl Phosphate	93.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	109		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	117		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A123934
Included Lab Sample IDs: 2463651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	96.3	92.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A123937
Included Lab Sample IDs: 2463651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	106	106	P/P	90 - 110
Magnesium	106	106	P/P	90 - 110
Potassium	103	104	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Strontium	104	103	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	104	104	P/P	90 - 110
Vanadium	103	103	P/P	90 - 110
Zinc	104	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A123939
Included Lab Sample IDs: 2463652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	90.2		P	80 - 120
Alachlor	97.2		P	80 - 120
Ametryn	116		P	80 - 120
Atrazine	86.0		P	80 - 120
Atrazine Desethyl	94.5		P	80 - 120
Azinphos Methyl	92.4		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	99.1		P	80 - 120
Caffeine	88.0		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	113		P	80 - 120
Chlorfenapyr	87.2		P	80 - 120
Chlorpyrifos Ethyl	88.5		P	80 - 120
Chlorpyrifos Methyl	87.3		P	80 - 120
Coumaphos	99.2		P	80 - 120
Cyanazine	93.5		P	80 - 120
Cyprodinil	116		P	80 - 120
Demeton	92.0		P	80 - 120
Diazinon	109		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	92.8		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	86.5		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123939
Included Lab Sample IDs: 2463652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenamiphos	97.6		P	80 - 120
Fenbuconazole	107		P	80 - 120
Fipronil	99.1		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	97.5		P	80 - 120
Fipronil Sulfone	117		P	80 - 120
Fluazifop-P-butyl	109		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	103		P	80 - 120
Flutolanil	119		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	93.2		P	80 - 120
Hexazinone	105		P	80 - 120
Imazalil	119		P	80 - 120
Iprodione	97.7		P	80 - 120
Loratadine	92.2		P	80 - 120
Malathion	92.9		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	91.8		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	88.9		P	80 - 120
Myclobutanil	109		P	80 - 120
Naled	114		P	80 - 120
Napropamide	113		P	80 - 120
Norflurazon	111		P	80 - 120
Oxadiazon	120		P	80 - 120
Oxyfluorfen	114		P	80 - 120
Parathion Ethyl	97.6		P	80 - 120
Parathion Methyl	107		P	80 - 120
Pendimethalin	95.1		P	80 - 120
Phenytoin	104		P	80 - 120
Phorate	97.8		P	80 - 120
Prodiamine	89.1		P	80 - 120
Prometon	99.8		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	105		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	95.2		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	92.9		P	80 - 120
Simazine	80.2		P	80 - 120
Stirophos	95.4		P	80 - 120
Sulfentrazone	108		P	80 - 120
Tebuconazole	106		P	80 - 120
Terbufos	91.8		P	80 - 120
Terbuthylazine	95.5		P	80 - 120
Thiobencarb	109		P	80 - 120
Triadimefon	99.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A123947
Included Lab Sample IDs: 2463647

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	118	97.5	P/P	50 - 150
2,4,5-T	76.5	79.8	P/P	50 - 150
Acetaminophen	108	106	P/P	60 - 160
Acetamiprid	114	114	P/P	50 - 150
Afidopyropen	107	129	P/P	50 - 150
Bentazon	100	93.1	P/P	50 - 160
Benzovindiflupyr	109	110	P/P	50 - 150
Carbamazepine	109	115	P/P	60 - 150
Clothianidin	109	109	P/P	60 - 150
Dinotefuran	117	115	P/P	50 - 150
Diuron	109	113	P/P	60 - 160
Fenuron	109	110	P/P	60 - 150
Fluridone	124	115	P/P	60 - 160
Hydrocodone	126	123	P/P	60 - 150
Ibuprofen	104	82.3	P/P	50 - 160
Imazapyr	77.5	76.7	P/P	50 - 150
Imidacloprid	101	101	P/P	60 - 150
Linuron	103	94.4	P/P	60 - 150
Mandestrobin	115	115	P/P	50 - 150
MCPP	86.5	88.0	P/P	50 - 150
Naproxen	66.4	95.7	P/P	50 - 160
Primidone	99.6	105	P/P	60 - 150
Pyraclostrobin	112	112	P/P	60 - 150
Silvex	79.5	84.8	P/P	50 - 150
Thiamethoxam	114	125	P/P	50 - 150
Tolfenpyrad	108	105	P/P	60 - 150
Triclopyr	91.5	82.9	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123957
Included Lab Sample IDs: 2463624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A123988
Included Lab Sample IDs: 2463623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.5	94.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A123988
Included Lab Sample IDs: 2463623

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124004
Included Lab Sample IDs: 2463624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.0	93.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124045
Included Lab Sample IDs: 2463624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	97.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124152
Included Lab Sample IDs: 2463651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	97.8	98.4	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.7				2.61	
EPA 180.1 Rev. 2.0	Turbidity	104				18.8	
EPA 200.7 Rev. 4.4	Calcium	109	103	106			0.188
	Iron	102	102	101	101		0.806
	Magnesium	109	107	107			0.216
	Potassium	104	104	104	103		0.569
	Sodium	107	105	104	106		0.667
	Strontium	104	101	101	102		0.152
	Tin	98.5	94.5	94.7	95.1		0.216
	Titanium	104	101	102	103		0.142
	Vanadium	102	99.4	99.4	101		0.0458
	Zinc	99.6	95.4	95.0	95.6		0.389
EPA 200.8 Rev. 5.4	Aluminum	100	103	101	103		1.72
	Antimony	100	105	104	106		0.769
	Arsenic	98.8	104	102	105		1.97
	Barium	98.8	104	103	104		1.00
	Beryllium	94.0	100	100	101		0.861
	Boron	105	107	106	111		0.983
	Cadmium	101	105	106	108		1.49
	Chromium	101	109	108	91.7		1.15
	Cobalt	97.5	103	101	102		1.61
	Copper	96.3	98.8	97.2	99.0		1.68
	Lead	91.6	95.9	95.3	98.2		0.602
	Manganese	101	106	104	106		1.54
	Molybdenum	97.9	105	105	107		0.420
	Nickel	97.8	101	100	98.3		1.07
	Selenium	99.7	103	103	102		0.369
	Silver	90.6	92.7	92.6	94.6		0.118
	Thallium	95.4	103	103	105		0.306
EPA 300.0 Rev. 2.1	Chloride	101	100	101		0.335	
	Sulfate	100	98.5	99.4		0.472	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	98.6	98.0			0.317
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105					4.94
EPA 353.2 Rev. 2.0	NO2NO3-N	101	93.4	94.4			1.02
EPA 365.1 Rev. 2.0	Total-P	102	105	103			1.62
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	97.3	98.3			0.862
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	78.5	73.8	70.7			4.23
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	77.7	67.3	61.0			9.93
	Acetochlor	94.8	91.5	95.1			3.81
	Alachlor	109	96.0	99.8			3.96
	Ametryn	119	117	133			12.9
	Atrazine	83.1	79.7	85.3			3.91
	Atrazine Desethyl	79.1	73.7	74.5			1.08
	Avobenzone	161	123	127			3.35
	Azinphos Methyl	115	89.8	91.3			1.59
	Azoxystrobin	97.7	108	115			6.48
	Bromacil	91.4	82.6	86.2			3.52
	Butylate	64.1	53.6	52.2			2.59
	Caffeine	86.3	102	109			6.63
	Carbophenothion	133	92.8	116			22.6
	Carfentrazone Ethyl	146	116	139			18.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Chlorfenapyr	90.0	89.2	93.3			4.55
	Chlorpyrifos Ethyl	113	94.9	99.0			4.20
	Chlorpyrifos Methyl	102	95.6	98.3			2.87
	Coumaphos	45.0	39.5	71.4			57.5
	Cyanazine	119	117	131			11.1
	Cyprodinil	137	124	136			9.11
	Dechlorane 602	101	72.9	71.9			1.41
	Dechlorane 603	129	99.5	115			14.8
	Dechlorane Plus	134	111	124			11.7
	Demeton	63.6	58.1	63.4			8.74
	Diazinon	114	125	127			2.04
	Difenoconazole	119	135	132			1.68
	Dimethenamid	101	93.0	95.3			2.45
	Dimethomorph	222	235	291			21.0
	Disulfoton	106	109	120			9.64
	Dithiopyr	106	123	99.9			20.7
	EPTC	54.0	43.7	36.2			18.8
	Ethion	77.8	66.1	64.4			2.65
	Ethoprop	85.1	93.7	94.5			0.885
	Etridiazole	63.3	54.9	51.6			6.35
	Fenamiphos	91.9	84.0	79.3			5.70
	Fenbuconazole	95.5	100	103			2.06
	Fipronil	134	114	102			9.59
	Fipronil Desulfinyl	120	118	105			7.99
	Fipronil Sulfide	116	113	99.8			7.96
	Fipronil Sulfone	112	87.9	120			15.5
	Fluazifop-P-butyl	135	124	130			5.16
	Fludioxonil	103	92.7	106			13.2
	Flumioxazin	147	142	147			3.71
	Flutolanil	109	163	168			3.15
	Fluxapyroxad	136	123	119			3.66
	Fonofos	98.3	96.3	100			4.07
	Hexabromobenzene	72.9	79.3	91.1			13.8
	Hexazinone	92.0	86.5	97.4			11.8
	Imazalil	112	115	118			2.34
	Iprodione	166	145	163			11.8
	Loratadine	197	211	257			19.8
	Malathion	123	111	114			2.25
	Metalaxyl	99.8	102	107			5.19
	Metolachlor	110	103	108			4.87
	Metribuzin	99.6	92.6	106			13.4
	Mevinphos	90.4	86.9	97.7			11.7
	Molinate	60.5	55.8	57.0			2.18
	Myclobutanil	108	95.9	110			13.8
	Naled	40.0	42.3	38.3			10.1
	Napropamide	89.6	102	97.1			4.76
	Norflurazon	101	98.3	99.4			1.20
	Octinoxate	118	88.9	95.0			6.69
	Oxadiazon	96.4	92.6	97.3			4.96
	Oxybenzone	133	114	122			6.62
	Oxyfluorfen	122	127	138			8.42
	Parathion Ethyl	84.5	79.8	101			23.2
	Parathion Methyl	90.2	80.8	95.8			17.0
	PBB-153	71.1	66.8	75.1			11.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	PBDE-47	116	93.3	101			8.35
	PBDE-99	110	91.7	92.9			1.20
	Pendimethalin	132	109	107			1.50
	Pentabromotoluene	98.1	85.6	92.5			7.78
	Phenytoin	39.2	79.0	76.3			3.42
	Phorate	87.8	83.6	86.4			3.19
	Prodiamine	55.7	52.7	42.1			22.3
	Prometon	117	111	120			7.93
	Prometryn	108	112	112			0.388
	Pronamide	113					1.52
	Propanil	96.5	85.3	101			16.8
	Propargite	88.2	70.7	67.1			5.17
	Propiconazole	98.4	92.1	109			17.2
	Pyraflufen Ethyl	132	114	121			5.81
	Pyridaben	40.2	43.8	46.4			5.66
	Pyriproxyfen	98.8	90.9	90.3			0.626
	Simazine	79.7					4.18
	Stirophos	96.6	101	96.7			4.22
	Sulfentrazone	73.3	110	131			17.3
	Tebuconazole	73.6	97.6	80.5			15.1
	Terbufos	97.2	86.7	99.5			13.7
	Terbuthylazine	93.4	95.5	95.1			0.380
	Tetradecachloro-m-terphenyl	189	154	216			33.4
	Thiobencarb	97.0	91.6	96.6			5.25
	Tri-o-cresyl Phosphate	99.0	81.0	81.8			1.03
	Triadimefon	97.6	90.2	102			11.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	89.6	102	101			0.971
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	85.3	81.1	89.5			9.40
	Tris(2-chloroethyl) phosphate (TCEP)	106	118	120			1.28
EPA 8321B	2,4-D	123					7.56
	2,4,5-T	105	91.9	84.9			7.93
	Acesulfame K	102	130	141			8.00
	Acetaminophen	92.3					23.5
	Acetamiprid	95.2	96.3	98.7			2.41
	Afidopyropen	75.3	94.4	97.6			3.33
	AMPA	98.6	94.3	94.9			0.637
	Bentazon	96.0					25.4
	Benzovindiflupyr	92.6	91.4	106			14.4
	Carbamazepine	87.5	87.7	93.5			6.42
	Clothianidin	99.1	119	111			6.74
	Dinotefuran	108	123	111			9.81
	Diuron	86.0	83.3	84.7			1.70
	Endothall	89.9	98.6	100			1.93
	Fenuron	100	91.6	91.8			0.218
	Fluridone	96.7	90.7	98.5			8.18
	Glufosinate	94.0	99.6	100			0.579
	Glyphosate	101	102	104			2.01
	Hydrocodone	115	116	98.6			16.3
	Ibuprofen	79.1	81.1	74.2			8.87
	Imazapyr	97.1	99.2	109			6.61
	Imidacloprid	97.0	133	127			3.62

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Linuron	81.4	84.0	85.1			1.19
	Mandestrobin	95.6	99.4	110			10.2
	MCP	97.9	91.9	93.9			2.08
	Naproxen	72.6	76.2	73.5			2.85
	Primidone	90.6	106	95.9			9.77
	Pyraclostrobin	93.9	86.5	99.0			13.5
	Silvex	92.1	80.9	84.9			4.81
	Sucralose	88.4	96.4	105			8.13
	Thiamethoxam	108	118	121			1.88
	Tolfenpyrad	61.8	53.1	68.2			25.1
	Triclopyr	116	90.9	89.8			1.27
SM 2320 B-2011	Total Alkalinity	100				0.302	
SM 2540 C-2015	TDS	93.2				10.2	
SM 2540 D-2015	TSS	94.4					
SM 4500-F- C-2011	Fluoride	97.9	99.5	100			0.473
SM 5310 B-2014	Organic Carbon	97.8					1.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2463623
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2463623
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2463651
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2463651
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2463623
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2463623
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2463624
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2463624
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2463624
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2463624
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2463625
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2463652
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2463652
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2463647
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2463623
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2463651
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2463623
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2463623
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2463623
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2463624

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	01/26/2024			01/26/2024 15:10	Anna M. Plaviak	2463623
EPA 180.1 Rev. 2.0	01/26/2024			01/26/2024 12:19	Dipa Joshi	2463623
EPA 200.7 Rev. 4.4	01/26/2024	01/29/2024 12:10	George D Taylor	01/31/2024 18:08	Chase Roberts	2463651
	01/26/2024	02/05/2024 13:45	George D Taylor	02/13/2024 17:59	McKinley C Carter	2463651
EPA 200.8 Rev. 5.4	01/26/2024	01/29/2024 12:10	George D Taylor	01/30/2024 20:50	Emily M Philpot	2463651
	01/26/2024	01/29/2024 12:10	George D Taylor	01/31/2024 13:58	Conrad Hartmann	2463651
EPA 300.0 Rev. 2.1	01/26/2024			02/01/2024 01:06	James L Waggeberby	2463623
EPA 350.1 Rev. 2.0	01/26/2024			02/07/2024 11:45	Khloe J Berg	2463624
EPA 351.2 Rev. 2.0	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:31	Samantha L Bates	2463624
EPA 353.2 Rev. 2.0	01/26/2024			01/30/2024 12:49	Anna M. Plaviak	2463624
EPA 365.1 Rev. 2.0	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 14:14	Simonne.V. Calhoun	2463624
EPA 365.1 Rev. 2.0 dissolved	01/26/2024			01/26/2024 15:36	Elise M. Gillis	2463625
EPA 8270E	01/26/2024	01/29/2024 08:00	Fe-Val Siddell	01/30/2024 17:49	Vandana T. Nagar	2463652
	01/26/2024	01/29/2024 08:00	Fe-Val Siddell	02/01/2024 00:17	Arthur Maknenko	2463652
EPA 8321B	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 16:51	Samatha Luckman	2463647
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 11:43	Samatha Luckman	2463647
	01/26/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 04:53	Juyoung Kim	2463647
SM 2320 B-2011	01/26/2024			02/01/2024 20:54	Dale L. Simmons	2463623
SM 2340 B-2011	01/26/2024			01/31/2024 18:08	Chase Roberts	2463651
SM 2540 C-2015	01/26/2024			01/30/2024 15:39	Yijie Li	2463623
SM 2540 D-2015	01/26/2024			01/30/2024 15:39	Yijie Li	2463623
SM 4500-F- C-2011	01/26/2024			02/01/2024 20:54	Dale L. Simmons	2463623
SM 5310 B-2014	01/26/2024			01/29/2024 22:35	Khloe J Berg	2463624