

Chemical Analysis Report

SO-DIST-2023-11-28-01

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

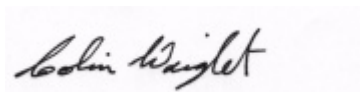
Event Description: **SMP : Prairie Creek SCI**
Request ID: **RQ-2023-10-16-40**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

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Certified by: Colin Wright, Program Administrator

Date Certified: 03-JAN-2024 11:02

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue rectangular background.

Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Prairie Creek at Washington Loop

Collection Date/Time: 11/27/2023 11:25

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452745	DEP SOP: NU-094-1	Color (true)	71	A	PCU	P438244	
	EPA 180.1 Rev. 2.0	Turbidity	5.2		NTU	P438249	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P438359	
		Sulfate	110		mg SO4/L	P438362	
	SM 2320 B-2011	Total Alkalinity	119		mg CaCO3/L	P438330	
	SM 2540 C-2015	TDS	478	A	mg/L	P438788	
	SM 2540 D-2015	TSS	11	A	mg/L	P438693	
	SM 4500-F- C-2011	Fluoride	0.33		mg F/L	P438332	
2452746	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P438560	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P438308	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.58		mg N/L	P438407	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P438324	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P438314	
2452747	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P438250	
2452751	EPA 8321B	2,4-D	0.088		ug/L	P438226	
		Acesulfame K	0.10	U	ug/L	P438195	
		2,4,5-T	0.0040	U	ug/L	P438226	
		AMPA	2.9		ug/L	P438195	
		Acetaminophen	0.0080	U	ug/L	P438226	
		Acetamiprid	0.0020	U	ug/L	P438226	
		Endothall	0.25	U	ug/L	P438195	
		Glufosinate	0.10	U	ug/L	P438195	
		Glyphosate	2.0		ug/L	P438195	
		Afidopyropen	0.0020	U	ug/L	P438226	
		Bentazon	0.043		ug/L	P438226	
		Sucralose	0.018	I	ug/L	P438195	
		Benzovindiflupyr	0.0020	U	ug/L	P438226	
		Carbamazepine	8.0E-04	U	ug/L	P438226	
		Clothianidin	0.036		ug/L	P438226	
		Dinotefuran	0.0020	U	ug/L	P438226	
		Diuron	0.042		ug/L	P438226	
		Fenuron	0.032	U	ug/L	P438226	
		Fluridone	0.0019	I	ug/L	P438226	
		Imazapyr	0.0069	I	ug/L	P438226	
		Hydrocodone	0.0020	U	ug/L	P438226	
		Ibuprofen	0.080	U	ug/L	P438226	
		Imidacloprid	0.13		ug/L	P438226	
		Linuron	0.0040	U	ug/L	P438226	
		Mandestrobin	0.0020	U	ug/L	P438226	
		MCPD	0.0020	U	ug/L	P438226	
		Naproxen	0.0080	U	ug/L	P438226	
		Primidone	0.0040	U	ug/L	P438226	
		Pyraclostrobin	0.0020	U	ug/L	P438226	

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452751	EPA 8321B	Silvex	0.0040	U	ug/L	P438226	
		Thiamethoxam	0.077		ug/L	P438226	
		Tolfenpyrad	0.0020	U	ug/L	P438226	
		Triclopyr	0.0040	U	ug/L	P438226	
2452752	EPA 200.7 Rev. 4.4	Calcium	72.4		mg/L	P438276	
		Iron	480		ug/L	P438276	
		Magnesium	20.7		mg/L	P438276	
		Potassium	11.7		mg/L	P438276	
		Sodium	52.4		mg/L	P438276	
		Strontium	5.61E+03		ug/L	P438276	
		Tin	3.0	U	ug/L	P438276	
		Titanium	0.82	I	ug/L	P438276	
		Vanadium	3.0	I	ug/L	P438276	
		Zinc	5.0	U	ug/L	P438276	
	EPA 200.8 Rev. 5.4	Aluminum	66		ug/L	P438276	
		Antimony	0.17	I	ug/L	P438276	
		Arsenic	0.75		ug/L	P438276	
		Barium	46.9		ug/L	P438276	
		Beryllium	0.011	I	ug/L	P438276	
		Boron	67.2		ug/L	P438276	
		Cadmium	0.020	U	ug/L	P438276	
		Chromium	0.61	I	ug/L	P438453	
		Cobalt	0.163		ug/L	P438276	
		Copper	0.84		ug/L	P438276	
		Lead	0.20	U	ug/L	P438276	
		Manganese	34.0		ug/L	P438276	
		Molybdenum	0.60		ug/L	P438276	
		Nickel	0.80	I	ug/L	P438453	
		Selenium	0.36	I	ug/L	P438276	
		Silver	0.010	U	ug/L	P438276	
		Thallium	0.10	U	ug/L	P438276	
	SM 2340 B-2011	Hardness	266		mg/L	P438276	
2452753	EPA 8270E	Oxybenzone**	11	U	ng/L	P438257	
		Acetochlor	0.21	U	ng/L	P438257	
		Octinoxate**	160	U	ng/L	P438257	RPD
		Alachlor	0.42	U	ng/L	P438257	
		Avobenzone**	110	U	ng/L	P438257	
		Ametryn	1.2	U	ng/L	P438257	
		Atrazine	29		ng/L	P438257	
		PBDE-47**	4.2	U	ng/L	P438257	
		Atrazine Desethyl	1.4	I	ng/L	P438257	
		PBDE-99**	5.3	U	ng/L	P438257	
		Azinphos Methyl	3.2	U	ng/L	P438257	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P438257	
		Azoxystrobin	0.42	U	ng/L	P438257	

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452753	EPA 8270E	Bromacil	170	J	ng/L	P438257	
		2-Ethylhexyl	13	U	ng/L	P438257	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.48	U	ng/L	P438257	
		Dechlorane Plus**	32	U	ng/L	P438257	
		Caffeine**	7.9	U	ng/L	P438257	
		Dechlorane 602**	5.3	U	ng/L	P438257	
		Carbophenothion	0.53	U	ng/L	P438257	
		Dechlorane 603**	4.2	U	ng/L	P438257	
		Carfentrazone Ethyl	0.16	U	ng/L	P438257	
		Hexabromobenzene**	6.4	U	ng/L	P438257	
		Chlorfenapyr	0.32	U	ng/L	P438257	
		PBB-153**	6.4	U	ng/L	P438257	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P438257	
		Pentabromotoluene**	3.2	U	ng/L	P438257	RPD
		Chlorpyrifos Methyl	0.11	U	ng/L	P438257	MS, RPD
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P438257	
		Coumaphos	1.1	U	ng/L	P438257	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P438257	
		Cyanazine	5.3	U	ng/L	P438257	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P438257	
		Cyprodinil	0.21	U	ng/L	P438257	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P438257	
		Demeton	3.7	U	ng/L	P438257	
		Diazinon	0.13	U	ng/L	P438257	
		Difenoconazole	0.64	U	ng/L	P438257	
		Dimethenamid	0.11	U	ng/L	P438257	
		Dimethomorph	0.32	U	ng/L	P438257	
		Disulfoton	0.64	U	ng/L	P438257	
		Dithiopyr	1.1	U	ng/L	P438257	
		EPTC	0.53	U	ng/L	P438257	
		Ethion	0.32	U	ng/L	P438257	
		Ethoprop	0.13	U	ng/L	P438257	
		Etridiazole	0.11	U	ng/L	P438257	
		Fenamiphos	0.48	U	ng/L	P438257	
		Fenbuconazole	2.4	I	ng/L	P438257	
		Fipronil	0.21	U	ng/L	P438257	
		Fipronil Desulfinyl**	0.11	U	ng/L	P438257	
		Fipronil Sulfide	0.11	U	ng/L	P438257	
		Fipronil Sulfone	0.11	U	ng/L	P438257	RPD
		Fluazifop-P-butyl	0.11	U	ng/L	P438257	
		Fludioxonil	0.11	U	ng/L	P438257	
		Flumioxazin	3.2	U	ng/L	P438257	
		Flutolanil	0.11	U	ng/L	P438257	
		Fluxapyroxad	0.26	U	ng/L	P438257	

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452753	EPA 8270E	Fonofos	0.16	U	ng/L	P438257	CCV
		Hexazinone	30		ng/L	P438257	
		Imazalil	0.69	U	ng/L	P438257	
		Iprodione	0.53	UJ	ng/L	P438257	
		Loratadine**	0.32	U	ng/L	P438257	
		Malathion	0.37	U	ng/L	P438257	
		Metalaxyl	49		ng/L	P438257	
		Metolachlor	23		ng/L	P438257	
		Metribuzin	0.42	U	ng/L	P438257	
		Mevinphos	1.1	U	ng/L	P438257	
		Molinate	0.26	U	ng/L	P438257	
		Myclobutanil	0.37	U	ng/L	P438257	
		Naled	2.6	U	ng/L	P438257	
		Napropamide	0.74	U	ng/L	P438257	
		Norflurazon	290		ng/L	P438257	
		Oxadiazon	0.37	U	ng/L	P438257	
		Oxyfluorfen	0.21	U	ng/L	P438257	
		Parathion Ethyl	0.16	U	ng/L	P438257	
		Parathion Methyl	0.21	U	ng/L	P438257	LCS, MS
		Pendimethalin	1.8	UJ	ng/L	P438257	
		Phenytol**	5.6	U	ng/L	P438257	
		Phorate	0.26	U	ng/L	P438257	
		Prodiamine	0.21	U	ng/L	P438257	
		Prometon	3.2	U	ng/L	P438257	
		Prometryn	0.37	U	ng/L	P438257	
		Pronamide	0.11	U	ng/L	P438257	
		Propanil	0.11	U	ng/L	P438257	
		Propargite	0.85	U	ng/L	P438257	
		Propiconazole	0.64	U	ng/L	P438257	
		Pyraflufen Ethyl	0.32	U	ng/L	P438257	
		Pyridaben	1.5	U	ng/L	P438257	
		Pyriproxyfen	0.26	U	ng/L	P438257	
		Simazine	0.26	U	ng/L	P438257	
		Stirophos	0.42	U	ng/L	P438257	
		Sulfentrazone	88	J	ng/L	P438257	
		Tebuconazole	1.5	U	ng/L	P438257	
		Terbufos	0.21	U	ng/L	P438257	
		Terbuthylazine	0.21	U	ng/L	P438257	
		Thiobencarb	0.53	U	ng/L	P438257	
		Triadimefon	0.16	U	ng/L	P438257	

Field ID: G3SD0067

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 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for aluminum are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 8270E: Estimation for bromacil and sulfentrazone due to internal standard recovery exceeding control limits. 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: P438244

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438249

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438276

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: P438276

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
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
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438453

Component	Result	Code	Units
Chromium	0.40	U	ug/L
Nickel	0.50	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438560

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438407

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438324

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438250

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

Reference Method: EPA 8270E
Batch ID: P438257

Component	Result	Code	Units
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
Bromacil	0.60	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438257

Component	Result	Code	Units
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
Metaxyl	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438257

Component	Result	Code	Units
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: P438195

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: P438226

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P438226

Component	Result	Code	Units
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: P438330

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015

Batch ID: P438788

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P438693

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P438332

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P438314

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: P438244

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438249

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	102		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	101		P	85 - 115
Sodium	102		P	85 - 115
Strontium	97.2		P	85 - 115
Tin	98.2		P	85 - 115
Titanium	96.3		P	85 - 115
Vanadium	97.1		P	85 - 115
Zinc	96.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	98.2		P	85 - 115
Barium	103		P	85 - 115
Beryllium	94.4		P	85 - 115
Boron	106		P	85 - 115
Cadmium	102		P	85 - 115
Cobalt	98.1		P	85 - 115
Copper	95.9		P	85 - 115
Lead	96.9		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	98.6		P	85 - 115
Selenium	98.8		P	85 - 115
Silver	104		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chromium	102		P	85 - 115
Nickel	98.5		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438560

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438407

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438324

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438250

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

Reference Method: EPA 8270E
Batch ID: P438257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.8		P	37 - 154
Acetochlor	113		P	64 - 124
Alachlor	111		P	61 - 118
Ametryn	138		P	47 - 158
Atrazine	106		P	68 - 121
Atrazine Desethyl	111		P	30 - 119
Avobenzone	133		P	48 - 193
Azinphos Methyl	73.0		P	30 - 194
Azoxystrobin	120		P	58 - 154
Bromacil	110		P	47 - 126

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P438257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Butylate	62.8		P	31 - 83.0
Caffeine	91.7		P	10 - 180
Carbophenothion	114		P	59 - 133
Carfentrazone Ethyl	126		P	59 - 147
Chlorfenapyr	108		P	52 - 118
Chlorpyrifos Ethyl	113		P	59 - 119
Chlorpyrifos Methyl	121		P	65 - 123
Coumaphos	178		P	11 - 223
Cyanazine	170		P	63 - 250
Cyprodinil	140		P	52 - 143
Dechlorane 602	82.2		P	23 - 142
Dechlorane 603	92.4		P	51 - 171
Dechlorane Plus	89.7		P	46 - 161
Demeton	88.5		P	42 - 119
Diazinon	115		P	67 - 132
Difenoconazole	142		P	12 - 204
Dimethenamid	110		P	53 - 113
Dimethomorph	203		P	13 - 238
Disulfoton	98.7		P	56 - 126
Dithiopyr	93.3		P	58 - 127
EPTC	59.2		P	31 - 78.0
Ethion	93.1		P	24 - 127
Ethoprop	98.9		P	60 - 118
Etridiazole	75.5		P	32 - 91.0
Fenamiphos	109		P	54 - 129
Fenbuconazole	121		P	31 - 162
Fipronil	100		P	56 - 131
Fipronil Desulfinyl	110		P	58 - 132
Fipronil Sulfide	103		P	51 - 123
Fipronil Sulfone	95.6		P	50 - 125
Fluazifop-P-butyl	128		P	52 - 132
Fludioxonil	105		P	52 - 129
Flumioxazin	165		P	34 - 250
Flutolanil	124		P	45 - 128
Fluxapyroxad	113		P	31 - 150
Fonofos	101		P	60 - 116
Hexabromobenzene	87.2		P	52 - 165
Hexazinone	112		P	59 - 120
Imazalil	124		P	39 - 134
Iprodione	127		P	39 - 243
Loratadine	168		P	10 - 240
Malathion	113		P	53 - 145
Metalaxyl	109		P	59 - 120
Metolachlor	108		P	64 - 122
Metribuzin	125		P	33 - 128
Mevinphos	97.6		P	48 - 119
Molinate	60.0		P	42 - 89.0
Myclobutanil	128		P	54 - 129
Naled	45.3		P	10 - 138
Napropamide	112		P	40 - 122
Norflurazon	123		P	49 - 132
Octinoxate	101		P	29 - 176

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxadiazon	106		P	50 - 115
Oxybenzone	91.3		P	45 - 145
Oxyfluorfen	142		P	62 - 149
Parathion Ethyl	111		P	68 - 119
Parathion Methyl	136		P	68 - 147
PBB-153	86.3		P	42 - 179
PBDE-47	85.5		P	44 - 141
PBDE-99	92.2		P	36 - 141
Pendimethalin	179		F	59 - 158
Pentabromotoluene	81.3		P	58 - 148
Phenytoin	67.8		P	10 - 151
Phorate	94.9		P	44 - 124
Prodiamine	59.9		P	10 - 136
Prometon	123		P	45 - 131
Prometryn	137		P	52 - 140
Pronamide	113		P	70 - 129
Propanil	126		P	54 - 144
Propargite	140		P	10 - 191
Propiconazole	96.0		P	49 - 128
Pyraflufen Ethyl	134		P	46 - 141
Pyridaben	149		P	29 - 198
Pyriproxyfen	125		P	33 - 221
Simazine	114		P	62 - 119
Stirophos	117		P	13 - 144
Sulfentrazone	87.9		P	12 - 152
Tebuconazole	112		P	10 - 135
Terbufos	103		P	67 - 136
Terbutylazine	99.6		P	66 - 113
Tetradecachloro-m-terphenyl	119		P	30 - 235
Thiobencarb	115		P	51 - 125
Tri-o-cresyl Phosphate	104		P	50 - 150
Triadimefon	103		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.1		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.0		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	102		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P438195

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	92.2		P	40 - 150
AMPA	94.4		P	40 - 160
Endothall	93.9		P	40 - 160
Glufosinate	92.7		P	40 - 160
Glyphosate	97.5		P	40 - 160
Sucralose	86.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	92.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P438226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	94.4		P	40 - 150
Acetaminophen	87.9		P	30 - 150
Acetamiprid	82.7		P	40 - 150
Afidopyropen	59.0		P	30 - 150
Bentazon	60.6		P	30 - 150
Benzovindiflupyr	80.7		P	40 - 150
Carbamazepine	70.6		P	40 - 150
Clothianidin	87.4		P	40 - 150
Dinotefuran	98.4		P	40 - 150
Diuron	66.7		P	40 - 150
Fenuron	112		P	40 - 150
Fluridone	82.2		P	40 - 150
Hydrocodone	92.2		P	40 - 150
Ibuprofen	64.9		P	40 - 150
Imazapyr	84.2		P	40 - 150
Imidacloprid	84.7		P	40 - 150
Linuron	68.9		P	40 - 150
Mandestrobin	78.6		P	40 - 150
MCPP	85.2		P	40 - 150
Naproxen	53.5		P	40 - 150
Primidone	82.7		P	40 - 150
Pyraclostrobin	70.1		P	40 - 150
Silvex	79.0		P	40 - 150
Thiamethoxam	87.3		P	40 - 150
Tolfenpyrad	36.3		P	30 - 150
Triclopyr	101		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P438330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P438788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	92.4		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P438693

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

Reference Method: SM 4500-F- C-2011
Batch ID: P438332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P438314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P438276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452737	Calcium	103	102	P/P	80 - 120
2452737	Iron	103	102	P/P	80 - 120
2452737	Magnesium	105	104	P/P	80 - 120
2452737	Potassium	104	103	P/P	80 - 120
2452737	Sodium	101	99.7	P/P	80 - 120
2452737	Strontium	97.1	96.1	P/P	80 - 120
2452737	Tin	97.5	97.0	P/P	80 - 120
2452737	Titanium	96.1	94.7	P/P	80 - 120
2452737	Vanadium	96.1	95.3	P/P	80 - 120
2452737	Zinc	96.4	95.2	P/P	80 - 120
2453042	Calcium	101		P	80 - 120
2453042	Iron	102		P	80 - 120
2453042	Magnesium	103		P	80 - 120
2453042	Potassium	100		P	80 - 120
2453042	Sodium	101		P	80 - 120
2453042	Strontium	97.0		P	80 - 120
2453042	Tin	93.8		P	80 - 120
2453042	Titanium	93.2		P	80 - 120
2453042	Vanadium	96.7		P	80 - 120
2453042	Zinc	97.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P438276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452737	Aluminum	100	101	P/P	80 - 120
2452737	Antimony	102	102	P/P	80 - 120
2452737	Arsenic	96.8	98.2	P/P	80 - 120
2452737	Barium	102	103	P/P	80 - 120
2452737	Beryllium	94.3	92.6	P/P	80 - 120
2452737	Boron	106	108	P/P	80 - 120
2452737	Cadmium	101	103	P/P	80 - 120
2452737	Cobalt	97.1	99.8	P/P	80 - 120
2452737	Copper	95.6	98.1	P/P	80 - 120
2452737	Lead	96.1	97.0	P/P	80 - 120
2452737	Manganese	101	103	P/P	80 - 120
2452737	Molybdenum	97.7	98.6	P/P	80 - 120
2452737	Selenium	97.1	99.0	P/P	80 - 120
2452737	Silver	102	103	P/P	80 - 120
2452737	Thallium	101	102	P/P	80 - 120
2453042	Antimony	94.4		P	80 - 120
2453042	Arsenic	94.7		P	80 - 120
2453042	Barium	100		P	80 - 120
2453042	Beryllium	91.4		P	80 - 120
2453042	Boron	109		P	80 - 120
2453042	Cadmium	99.7		P	80 - 120
2453042	Cobalt	96.8		P	80 - 120
2453042	Copper	94.5		P	80 - 120
2453042	Lead	95.4		P	80 - 120
2453042	Manganese	90.7		P	80 - 120
2453042	Molybdenum	95.1		P	80 - 120
2453042	Selenium	94.9		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453042	Silver	101		P	80 - 120
2453042	Thallium	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454047	Chromium	101	102	P/P	80 - 120
2454047	Nickel	96.7	96.1	P/P	80 - 120
2454148	Chromium	102		P	80 - 120
2454148	Nickel	95.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452598	Chloride	104		P	90 - 110
2452883	Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452598	Sulfate	107		P	90 - 110
2452883	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452746	Ammonia-N	99.0	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452885	Kjeldahl Nitrogen	106	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452098	NO2NO3-N	104	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438324

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452772	Total-P	109	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454160	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.6	102	P/P	29 - 155
2454160	Acetochlor	101	123	P/P	60 - 124
2454160	Alachlor	99.8	102	P/P	54 - 122
2454160	Ametryn	136	153	P/P	51 - 208
2454160	Atrazine	93.2	105	P/P	57 - 131
2454160	Atrazine Desethyl	105	107	P/P	13 - 124
2454160	Avobenzone	126	152	P/P	35 - 187
2454160	Azinphos Methyl	77.5	84.4	P/P	43 - 276
2454160	Azoxystrobin	113	127	P/P	52 - 300
2454160	Bromacil	107	116	P/P	44 - 134
2454160	Butylate	50.9	71.5	P/P	23 - 82.0
2454160	Caffeine	211	117	P/P	10 - 277
2454160	Carbophenothion	104	108	P/P	47 - 135
2454160	Carfentrazone Ethyl	125	113	P/P	46 - 147
2454160	Chlorfenapyr	78.1	87.8	P/P	43 - 114
2454160	Chlorpyrifos Ethyl	102	112	P/P	47 - 124
2454160	Chlorpyrifos Methyl	111	159	P/F	60 - 135
2454160	Coumaphos	176	187	P/P	10 - 222
2454160	Cyanazine	149	166	P/P	10 - 257
2454160	Cyprodinil	123	142	P/P	42 - 148
2454160	Dechlorane 602	78.4	65.5	P/P	14 - 133
2454160	Dechlorane 603	93.5	88.8	P/P	18 - 191
2454160	Dechlorane Plus	89.2	77.3	P/P	23 - 154
2454160	Demeton	94.2	109	P/P	41 - 137
2454160	Diazinon	110	122	P/P	64 - 139
2454160	Difenoconazole	116	58.6	P/P	46 - 254
2454160	Dimethenamid	101	106	P/P	47 - 117
2454160	Dimethomorph	211	212	P/P	14 - 255
2454160	Disulfoton	89.6	107	P/P	52 - 130
2454160	Dithiopyr	95.6	110	P/P	40 - 121
2454160	EPTC	53.8	67.4	P/P	19 - 78.0
2454160	Ethion	103	69.8	P/P	12 - 124
2454160	Ethoprop	88.4	108	P/P	68 - 144
2454160	Etridiazole	64.8	81.8	P/P	26 - 96.0
2454160	Fenamiphos	97.0	107	P/P	41 - 129
2454160	Fenbuconazole	117	100	P/P	26 - 169
2454160	Fipronil	127	89.4	P/P	46 - 145
2454160	Fipronil Desulfinyl	109	123	P/P	47 - 136
2454160	Fipronil Sulfide	104	87.7	P/P	41 - 127
2454160	Fipronil Sulfone	94.7	49.6	P/P	35 - 133
2454160	Fluazifop-P-butyl	97.6	109	P/P	46 - 131
2454160	Fludioxonil	110	103	P/P	51 - 124
2454160	Flumioxazin	170	164	P/P	10 - 289
2454160	Flutolanil	112	114	P/P	34 - 130
2454160	Fluxapyroxad	106	79.3	P/P	10 - 197
2454160	Fonofos	93.4	111	P/P	42 - 131
2454160	Hexabromobenzene	83.4	95.6	P/P	47 - 178
2454160	Hexazinone	107	105	P/P	64 - 125
2454160	Imazalil	108	108	P/P	37 - 252
2454160	Iprodione	126	98.8	P/P	34 - 265
2454160	Loratadine	172	169	P/P	20 - 231
2454160	Malathion	111	113	P/P	34 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454160	Metalaxyl	104	118	P/P	49 - 125
2454160	Metolachlor	105	99.4	P/P	54 - 125
2454160	Metribuzin	130	138	P/P	51 - 139
2454160	Mevinphos	93.9	115	P/P	46 - 130
2454160	Molinate	51.6	67.4	P/P	39 - 93.0
2454160	Myclobutanil	117	123	P/P	50 - 130
2454160	Naled	43.4	47.0	P/P	10 - 150
2454160	Napropamide	90.5	80.5	P/P	10 - 109
2454160	Norflurazon	124	122	P/P	36 - 134
2454160	Octinoxate	90.4	129	P/P	18 - 170
2454160	Oxadiazon	95.1	96.6	P/P	43 - 112
2454160	Oxybenzone	84.0	113	P/P	33 - 154
2454160	Oxyfluorfen	119	138	P/P	62 - 154
2454160	Parathion Ethyl	94.9	104	P/P	65 - 120
2454160	Parathion Methyl	151	180	P/P	77 - 185
2454160	PBB-153	97.2	104	P/P	23 - 193
2454160	PBDE-47	74.4	86.6	P/P	31 - 139
2454160	PBDE-99	93.5	93.3	P/P	24 - 138
2454160	Pendimethalin	156	161	F/F	50 - 146
2454160	Pentabromotoluene	77.7	98.2	P/P	54 - 152
2454160	Phenytoin	98.6	112	P/P	10 - 157
2454160	Phorate	80.5	113	P/P	54 - 161
2454160	Prodiamine	61.5	73.0	P/P	29 - 160
2454160	Prometon	119	120	P/P	38 - 145
2454160	Prometryn	126	126	P/P	32 - 151
2454160	Pronamide	108	104	P/P	61 - 140
2454160	Propanil	130	132	P/P	50 - 147
2454160	Propargite	134	94.8	P/P	10 - 190
2454160	Propiconazole	104	103	P/P	30 - 146
2454160	Pyraflufen Ethyl	140	122	P/P	30 - 147
2454160	Pyridaben	159	121	P/P	15 - 195
2454160	Pyriproxyfen	112	102	P/P	31 - 218
2454160	Simazine	114	123	P/P	45 - 139
2454160	Stirophos	111	80.5	P/P	10 - 134
2454160	Sulfentrazone	115	91.3	P/P	53 - 186
2454160	Tebuconazole	124	87.8	P/P	10 - 133
2454160	Terbufos	93.7	118	P/P	65 - 151
2454160	Terbutylazine	85.3	102	P/P	62 - 117
2454160	Tetradecachloro-m-terphenyl	137	136	P/P	10 - 260
2454160	Thiobencarb	104	98.7	P/P	48 - 122
2454160	Tri-o-cresyl Phosphate	99.3	113	P/P	32 - 151
2454160	Triadimefon	86.9	96.7	P/P	46 - 124
2454160	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	89.4	P/P	51 - 154
2454160	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	118	102	P/P	59 - 147
2454160	Tris(2-chloroethyl) phosphate (TCEP)	118	103	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P438195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452734	Acesulfame K	93.1	95.3	P/P	40 - 150
2452734	AMPA	92.1	92.2	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P438195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452734	Endothall	101	94.5	P/P	40 - 160
2452734	Glufosinate	89.9	92.3	P/P	40 - 160
2452734	Glyphosate	92.5	91.8	P/P	40 - 160
2452734	Sucralose	87.0	88.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452734	2,4-D	101	96.7	P/P	40 - 150
2452734	2,4,5-T	76.6	89.6	P/P	40 - 150
2452734	Acetaminophen	94.1	93.3	P/P	30 - 150
2452734	Acetamiprid	77.3	80.8	P/P	40 - 150
2452734	Afidopyropen	58.0	57.7	P/P	30 - 150
2452734	Bentazon	58.5	61.2	P/P	30 - 150
2452734	Benzovindiflupyr	83.9	86.0	P/P	40 - 150
2452734	Carbamazepine	71.0	72.3	P/P	40 - 150
2452734	Clothianidin	89.1	90.6	P/P	40 - 150
2452734	Dinotefuran	104	105	P/P	40 - 150
2452734	Diuron	68.4	67.5	P/P	40 - 150
2452734	Fenuron	107	100	P/P	40 - 150
2452734	Fluridone	80.5	81.9	P/P	40 - 150
2452734	Hydrocodone	93.8	92.8	P/P	40 - 150
2452734	Ibuprofen	60.0	70.3	P/P	40 - 150
2452734	Imazapyr	109	108	P/P	40 - 150
2452734	Imidacloprid	95.2	95.4	P/P	40 - 150
2452734	Linuron	64.6	72.0	P/P	40 - 150
2452734	Mandestrobin	80.4	82.9	P/P	40 - 150
2452734	MCP	86.8	85.9	P/P	40 - 150
2452734	Naproxen	52.1	58.2	P/P	40 - 150
2452734	Primidone	90.4	80.2	P/P	40 - 150
2452734	Pyraclostrobin	79.2	79.4	P/P	40 - 150
2452734	Silvex	85.4	79.8	P/P	40 - 150
2452734	Thiamethoxam	85.4	83.0	P/P	40 - 150
2452734	Tolfenpyrad	50.0	49.0	P/P	30 - 150
2452734	Triclopyr	96.2	96.8	P/P	40 - 150

Reference Method: SM 5310 B-2011

Batch ID: P438314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452885	Organic Carbon	96.6	95.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452745	Color (true)	0.0645	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452709	Turbidity	1.27	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452737	Calcium	0.708	Spike	P	0 - 20
2452737	Iron	1.15	Spike	P	0 - 20
2452737	Magnesium	1.36	Spike	P	0 - 20
2452737	Potassium	0.972	Spike	P	0 - 20
2452737	Sodium	0.998	Spike	P	0 - 20
2452737	Strontium	0.984	Spike	P	0 - 20
2452737	Tin	0.509	Spike	P	0 - 20
2452737	Titanium	1.42	Spike	P	0 - 20
2452737	Vanadium	0.896	Spike	P	0 - 20
2452737	Zinc	1.26	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452737	Aluminum	0.656	Spike	P	0 - 20
2452737	Antimony	0.865	Spike	P	0 - 20
2452737	Arsenic	1.39	Spike	P	0 - 20
2452737	Barium	0.808	Spike	P	0 - 20
2452737	Beryllium	1.80	Spike	P	0 - 20
2452737	Boron	2.04	Spike	P	0 - 20
2452737	Cadmium	2.30	Spike	P	0 - 20
2452737	Cobalt	2.82	Spike	P	0 - 20
2452737	Copper	2.18	Spike	P	0 - 20
2452737	Lead	0.988	Spike	P	0 - 20
2452737	Manganese	1.75	Spike	P	0 - 20
2452737	Molybdenum	0.946	Spike	P	0 - 20
2452737	Selenium	1.87	Spike	P	0 - 20
2452737	Silver	0.462	Spike	P	0 - 20
2452737	Thallium	1.23	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438453

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454047	Chromium	0.374	Spike	P	0 - 20
2454047	Nickel	0.571	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452598	Chloride	1.15	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452598	Sulfate	0.267	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452746	Ammonia-N	1.42	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452885	Kjeldahl Nitrogen	3.14	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452098	NO2NO3-N	1.90	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452772	Total-P	1.21	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452747	O-Phosphate-P	0.475	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454160	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.63	Spike	P	0 - 35
2454160	Acetochlor	19.7	Spike	P	0 - 28
2454160	Alachlor	2.43	Spike	P	0 - 30
2454160	Ametryn	12.0	Spike	P	0 - 32
2454160	Atrazine	11.2	Spike	P	0 - 33
2454160	Atrazine Desethyl	1.81	Spike	P	0 - 36
2454160	Avobenzone	18.6	Spike	P	0 - 35
2454160	Azinphos Methyl	8.55	Spike	P	0 - 62
2454160	Azoxystrobin	11.3	Spike	P	0 - 39
2454160	Bromacil	7.90	Spike	P	0 - 33
2454160	Butylate	33.7	Spike	P	0 - 51
2454160	Caffeine	57.0	Spike	P	0 - 100
2454160	Carbophenothion	4.18	Spike	P	0 - 34
2454160	Carfentrazone Ethyl	9.51	Spike	P	0 - 33
2454160	Chlorfenapyr	11.7	Spike	P	0 - 28
2454160	Chlorpyrifos Ethyl	9.30	Spike	P	0 - 31
2454160	Chlorpyrifos Methyl	35.4	Spike	F	0 - 27
2454160	Coumaphos	5.98	Spike	P	0 - 62
2454160	Cyanazine	10.9	Spike	P	0 - 48
2454160	Cyprodinil	13.7	Spike	P	0 - 29
2454160	Dechlorane 602	18.0	Spike	P	0 - 60
2454160	Dechlorane 603	5.05	Spike	P	0 - 40
2454160	Dechlorane Plus	14.3	Spike	P	0 - 38
2454160	Demeton	14.9	Spike	P	0 - 33
2454160	Diazinon	10.6	Spike	P	0 - 32
2454160	Difenoconazole	65.7	Spike	P	0 - 71
2454160	Dimethenamid	5.04	Spike	P	0 - 60
2454160	Dimethomorph	0.395	Spike	P	0 - 61
2454160	Disulfoton	17.6	Spike	P	0 - 30
2454160	Dithiopyr	14.1	Spike	P	0 - 28
2454160	EPTC	22.5	Spike	P	0 - 56
2454160	Ethion	38.2	Spike	P	0 - 79
2454160	Ethoprop	19.9	Spike	P	0 - 31
2454160	Etridiazole	23.1	Spike	P	0 - 43
2454160	Fenamiphos	9.65	Spike	P	0 - 43
2454160	Fenbuconazole	15.7	Spike	P	0 - 79
2454160	Fipronil	34.7	Spike	P	0 - 46
2454160	Fipronil Desulfinyl	11.8	Spike	P	0 - 36
2454160	Fipronil Sulfide	16.6	Spike	P	0 - 34
2454160	Fipronil Sulfone	58.9	Spike	F	0 - 47
2454160	Fluazifop-P-butyl	10.6	Spike	P	0 - 38
2454160	Fludioxonil	5.98	Spike	P	0 - 29
2454160	Flumioxazin	3.44	Spike	P	0 - 63
2454160	Flutolanil	1.55	Spike	P	0 - 36
2454160	Fluxapyroxad	29.1	Spike	P	0 - 65
2454160	Fonofos	17.3	Spike	P	0 - 35
2454160	Hexabromobenzene	13.6	Spike	P	0 - 41
2454160	Hexazinone	1.83	Spike	P	0 - 31
2454160	Imazalil	0.179	Spike	P	0 - 52
2454160	Iprodione	24.1	Spike	P	0 - 49
2454160	Loratadine	1.63	Spike	P	0 - 59

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P438257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454160	Malathion	1.59	Spike	P	0 - 77
2454160	Metalaxyl	12.1	Spike	P	0 - 76
2454160	Metolachlor	5.34	Spike	P	0 - 29
2454160	Metribuzin	5.71	Spike	P	0 - 51
2454160	Mevinphos	20.3	Spike	P	0 - 31
2454160	Molinate	26.5	Spike	P	0 - 39
2454160	Myclobutanil	5.65	Spike	P	0 - 34
2454160	Naled	7.86	Spike	P	0 - 37
2454160	Napropamide	11.8	Spike	P	0 - 100
2454160	Norflurazon	2.01	Spike	P	0 - 54
2454160	Octinoxate	35.0	Spike	F	0 - 35
2454160	Oxadiazon	1.55	Spike	P	0 - 34
2454160	Oxybenzone	29.6	Spike	P	0 - 35
2454160	Oxyfluorfen	14.5	Spike	P	0 - 28
2454160	Parathion Ethyl	8.83	Spike	P	0 - 31
2454160	Parathion Methyl	17.3	Spike	P	0 - 29
2454160	PBB-153	7.23	Spike	P	0 - 49
2454160	PBDE-47	15.2	Spike	P	0 - 36
2454160	PBDE-99	0.248	Spike	P	0 - 46
2454160	Pendimethalin	2.89	Spike	P	0 - 31
2454160	Pentabromotoluene	23.3	Spike	F	0 - 16
2454160	Phenytol	13.1	Spike	P	0 - 100
2454160	Phorate	33.3	Spike	P	0 - 36
2454160	Prodiamine	17.2	Spike	P	0 - 68
2454160	Prometon	0.939	Spike	P	0 - 35
2454160	Prometryn	0.157	Spike	P	0 - 33
2454160	Pronamide	3.83	Spike	P	0 - 24
2454160	Propanil	1.34	Spike	P	0 - 28
2454160	Propargite	34.3	Spike	P	0 - 53
2454160	Propiconazole	1.20	Spike	P	0 - 44
2454160	Pyraflufen Ethyl	13.9	Spike	P	0 - 61
2454160	Pyridaben	27.0	Spike	P	0 - 43
2454160	Pyriproxyfen	9.30	Spike	P	0 - 82
2454160	Simazine	7.13	Spike	P	0 - 29
2454160	Stirophos	31.5	Spike	P	0 - 100
2454160	Sulfentrazone	22.7	Spike	P	0 - 64
2454160	Tebuconazole	34.2	Spike	P	0 - 76
2454160	Terbufos	22.7	Spike	P	0 - 29
2454160	Terbuthylazine	18.0	Spike	P	0 - 28
2454160	Tetradecachloro-m-terphenyl	0.223	Spike	P	0 - 42
2454160	Thiobencarb	5.15	Spike	P	0 - 26
2454160	Tri-o-cresyl Phosphate	13.0	Spike	P	0 - 24
2454160	Triadimefon	10.6	Spike	P	0 - 40
2454160	Tris(1-chloro-2-propyl) phosphate (TCPP)	18.1	Spike	P	0 - 30
2454160	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	15.0	Spike	P	0 - 22
2454160	Tris(2-chloroethyl) phosphate (TCEP)	14.2	Spike	P	0 - 15

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P438195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452734	Acesulfame K	2.32	Spike	P	0 - 30
2452734	AMPA	0.0586	Spike	P	0 - 30
2452734	Endothall	6.43	Spike	P	0 - 30
2452734	Glufosinate	2.64	Spike	P	0 - 30
2452734	Glyphosate	0.739	Spike	P	0 - 30
2452734	Sucralose	1.47	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452734	2,4-D	4.24	Spike	P	0 - 30
2452734	2,4,5-T	15.6	Spike	P	0 - 30
2452734	Acetaminophen	0.840	Spike	P	0 - 30
2452734	Acetamiprid	4.42	Spike	P	0 - 30
2452734	Afidopyropen	0.436	Spike	P	0 - 30
2452734	Bentazon	4.50	Spike	P	0 - 30
2452734	Benzovindiflupyr	2.47	Spike	P	0 - 30
2452734	Carbamazepine	1.82	Spike	P	0 - 30
2452734	Clothianidin	1.68	Spike	P	0 - 30
2452734	Dinotefuran	0.941	Spike	P	0 - 30
2452734	Diuron	1.39	Spike	P	0 - 30
2452734	Fenuron	6.78	Spike	P	0 - 30
2452734	Fluridone	1.72	Spike	P	0 - 30
2452734	Hydrocodone	1.04	Spike	P	0 - 30
2452734	Ibuprofen	15.8	Spike	P	0 - 30
2452734	Imazapyr	1.01	Spike	P	0 - 30
2452734	Imidacloprid	0.191	Spike	P	0 - 30
2452734	Linuron	10.9	Spike	P	0 - 30
2452734	Mandestrobin	3.08	Spike	P	0 - 30
2452734	MCPP	0.970	Spike	P	0 - 30
2452734	Naproxen	11.2	Spike	P	0 - 30
2452734	Primidone	11.9	Spike	P	0 - 30
2452734	Pyraclostrobin	0.236	Spike	P	0 - 30
2452734	Silvex	6.83	Spike	P	0 - 30
2452734	Thiamethoxam	2.78	Spike	P	0 - 30
2452734	Tolfenpyrad	2.10	Spike	P	0 - 30
2452734	Triclopyr	0.684	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P438330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452866	Total Alkalinity	0.494	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P438788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452745	TDS	6.91	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P438693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452745	TSS	7.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452866	Fluoride	0.986	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452885	Organic Carbon	0.983	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2452751
Field Sample ID: G3SD0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.7	P	30 - 160
EPA 8321B	Diuron-d6	57.2	P	30 - 160
EPA 8321B	Endothall-d6	89.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.3	P	30 - 160
EPA 8321B	Primidone-d5	83.3	P	30 - 160
EPA 8321B	Sucralose-d6	87.6	P	30 - 160

Lab Sample ID: 2452753
Field Sample ID: G3SD0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	106	P	20 - 200
EPA 8270E	Simazine-d10	109	P	58 - 137
EPA 8270E	Terbufos-d10	101	P	50 - 134
EPA 8270E	Terphenyl-d14	101	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122915

Included Lab Sample IDs: 2452745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122917

Included Lab Sample IDs: 2452745

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122919

Included Lab Sample IDs: 2452747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	98.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122922

Included Lab Sample IDs: 2452751

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	90.4	101	P/P	60 - 160
Sucralose	83.8	90.1	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A122947

Included Lab Sample IDs: 2452746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.9	96.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122949

Included Lab Sample IDs: 2452745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	102	P/P	90 - 110
Sulfate	103	102	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A122950

Included Lab Sample IDs: 2452745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	95.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122950

Included Lab Sample IDs: 2452745

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

Reference Method: SM 4500-F- C-2011

Run ID: A122950

Included Lab Sample IDs: 2452745

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

Reference Method: EPA 8321B

Run ID: A122960

Included Lab Sample IDs: 2452751

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	95.3	P/P	50 - 150
2,4,5-T	97.5	99.1	P/P	50 - 150
Acetaminophen	114	113	P/P	60 - 160
Acetamiprid	108	108	P/P	50 - 150
Afidopyropen	100	99.3	P/P	50 - 150
Bentazon	90.7	96.8	P/P	50 - 160
Benzovindiflupyr	103	107	P/P	50 - 150
Carbamazepine	109	108	P/P	60 - 150
Clothianidin	99.7	103	P/P	60 - 150
Dinotefuran	110	111	P/P	50 - 150
Diuron	112	111	P/P	60 - 160
Fenuron	104	104	P/P	60 - 150
Fluridone	115	106	P/P	60 - 160
Hydrocodone	113	115	P/P	60 - 150
Ibuprofen	88.4	86.3	P/P	50 - 160
Imazapyr	107	86.3	P/P	50 - 150
Imidacloprid	96.1	95.3	P/P	60 - 150
Linuron	103	104	P/P	60 - 150
Mandestrobin	106	105	P/P	50 - 150
MCPP	106	99.7	P/P	50 - 150
Naproxen	112	98.2	P/P	50 - 160
Primidone	97.3	95.1	P/P	60 - 150
Pyraclostrobin	105	107	P/P	60 - 150
Silvex	93.2	102	P/P	50 - 150
Thiamethoxam	108	109	P/P	50 - 150
Tolfenpyrad	99.5	98.4	P/P	60 - 150
Triclopyr	103	93.4	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122966

Included Lab Sample IDs: 2452746

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122975

Included Lab Sample IDs: 2452752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	101	P/P	90 - 110
Antimony	102	102	P/P	90 - 110
Arsenic	99.1	98.7	P/P	90 - 110
Barium	101	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122975

Included Lab Sample IDs: 2452752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.7	95.7	P/P	90 - 110
Boron	104	107	P/P	90 - 110
Cadmium	103	103	P/P	90 - 110
Cobalt	99.4	99.1	P/P	90 - 110
Copper	97.3	97.3	P/P	90 - 110
Lead	97.7	98.0	P/P	90 - 110
Manganese	105	106	P/P	90 - 110
Molybdenum	101	100	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Thallium	99.4	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122977

Included Lab Sample IDs: 2452751

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.6	103	P/P	60 - 160
Endothall	99.7	104	P/P	60 - 160
Glufosinate	98.5	95.7	P/P	60 - 160
Glyphosate	98.1	101	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122981

Included Lab Sample IDs: 2452746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.9	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122992

Included Lab Sample IDs: 2452746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123042

Included Lab Sample IDs: 2452752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	102	102	P/P	90 - 110
Nickel	97.0	96.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123056

Included Lab Sample IDs: 2452746

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A123155

Included Lab Sample IDs: 2452752

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.5	97.2	P/P	90 - 110
Iron	96.1	98.3	P/P	90 - 110
Magnesium	96.2	98.2	P/P	90 - 110
Potassium	95.1	96.6	P/P	90 - 110
Sodium	94.2	95.8	P/P	90 - 110
Strontium	98.2	98.9	P/P	90 - 110
Tin	99.7	97.5	P/P	90 - 110
Titanium	98.5	96.8	P/P	90 - 110
Vanadium	98.2	96.5	P/P	90 - 110
Zinc	98.7	96.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A123340

Included Lab Sample IDs: 2452753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.4		P	80 - 120
Alachlor	89.2		P	80 - 120
Ametryn	95.4		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	91.0		P	80 - 120
Azinphos Methyl	85.7		P	80 - 120
Azoxystrobin	105		P	80 - 120
Bromacil	93.6		P	80 - 120
Butylate	114		P	80 - 120
Caffeine	95.0		P	80 - 120
Carbophenothion	94.6		P	80 - 120
Carfentrazone Ethyl	90.1		P	80 - 120
Chlorfenapyr	100		P	80 - 120
Chlorpyrifos Ethyl	97.6		P	80 - 120
Chlorpyrifos Methyl	94.2		P	80 - 120
Coumaphos	83.1		P	80 - 120
Cyanazine	88.7		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	110		P	80 - 120
Diazinon	107		P	80 - 120
Difenoconazole	113		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	97.3		P	80 - 120
Disulfoton	97.8		P	80 - 120
Dithiopyr	86.5		P	80 - 120
EPTC	98.0		P	80 - 120
Ethion	93.6		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	108		P	80 - 120
Fenamiphos	88.5		P	80 - 120
Fenbuconazole	103		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	92.1		P	80 - 120
Fipronil Sulfide	108		P	80 - 120
Fipronil Sulfone	90.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123340
Included Lab Sample IDs: 2452753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluazifop-P-butyl	98.2		P	80 - 120
Fludioxonil	92.6		P	80 - 120
Flumioxazin	107		P	80 - 120
Flutolanil	94.9		P	80 - 120
Fluxapyroxad	90.5		P	80 - 120
Fonofos	89.0		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	95.1		P	80 - 120
Iprodione	79.6*		F	80 - 120
Loratadine	105		P	80 - 120
Malathion	87.3		P	80 - 120
Metalaxyl	90.0		P	80 - 120
Metolachlor	95.9		P	80 - 120
Metribuzin	94.8		P	80 - 120
Mevinphos	97.5		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	95.1		P	80 - 120
Naled	95.7		P	80 - 120
Napropamide	96.9		P	80 - 120
Norflurazon	95.4		P	80 - 120
Oxadiazon	92.7		P	80 - 120
Oxyfluorfen	94.0		P	80 - 120
Parathion Ethyl	107		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytoin	97.5		P	80 - 120
Phorate	89.6		P	80 - 120
Prodiamine	89.8		P	80 - 120
Prometon	97.2		P	80 - 120
Prometryn	96.4		P	80 - 120
Pronamide	90.1		P	80 - 120
Propanil	93.5		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	98.7		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	94.6		P	80 - 120
Pyriproxyfen	94.7		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	100		P	80 - 120
Sulfentrazone	95.3		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	98.4		P	80 - 120
Thiobencarb	88.9		P	80 - 120
Triadimefon	82.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123453
Included Lab Sample IDs: 2452753

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

Reference Method: EPA 8270E
Run ID: A123453
Included Lab Sample IDs: 2452753

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120
Avobenzene	105		P	80 - 120
Dechlorane 602	106		P	80 - 120
Dechlorane 603	100		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	105		P	80 - 120
Octinoxate	105		P	80 - 120
Oxybenzone	106		P	80 - 120
PBB-153	96.1		P	80 - 120
PBDE-47	106		P	80 - 120
PBDE-99	106		P	80 - 120
Pentabromotoluene	98.7		P	80 - 120
Tetradecachloro-m-terphenyl	94.4		P	80 - 120
Tri-o-cresyl Phosphate	107		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	103		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	98.8		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.9					0.0645	
EPA 180.1 Rev. 2.0	Turbidity	104					1.27	
EPA 200.7 Rev. 4.4	Calcium	103	103	102	101			0.708
	Iron	102	103	102	102			1.15
	Magnesium	105	105	104	103			1.36
	Potassium	101	104	103	100			0.972
	Sodium	102	101	101	99.7			0.998
	Strontium	97.2	97.1	96.1	97.0			0.984
	Tin	98.2	97.5	97.0	93.8			0.509
	Titanium	96.3	96.1	94.7	93.2			1.42
	Vanadium	97.1	96.1	95.3	96.7			0.896
	Zinc	96.7	96.4	95.2	97.3			1.26
EPA 200.8 Rev. 5.4	Aluminum	101	100	101				0.656
	Antimony	103	102	102	94.4			0.865
	Arsenic	98.2	96.8	98.2	94.7			1.39
	Barium	103	102	103	100			0.808
	Beryllium	94.4	94.3	92.6	91.4			1.80
	Boron	106	106	108	109			2.04
	Cadmium	102	101	103	99.7			2.30
	Chromium	102	101	102	102			0.374
	Cobalt	98.1	97.1	99.8	96.8			2.82
	Copper	95.9	95.6	98.1	94.5			2.18
	Lead	96.9	96.1	97.0	95.4			0.988
	Manganese	102	101	103	90.7			1.75
	Molybdenum	98.6	97.7	98.6	95.1			0.946
	Nickel	98.5	96.7	96.1	95.6			0.571
	Selenium	98.8	97.1	99.0	94.9			1.87
	Silver	104	102	103	101			0.462
	Thallium	100	101	102	101			1.23
EPA 300.0 Rev. 2.1	Chloride	101	104	98.5			1.15	
	Sulfate	101	107	104			0.267	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	99.0	102				1.42
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	106	103				3.14
EPA 353.2 Rev. 2.0	NO2NO3-N	100	104	106				1.90
EPA 365.1 Rev. 2.0	Total-P	105	109	108				1.21
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102						0.475
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.8	99.6	102				2.63
	Acetochlor	113	101	123				19.7
	Alachlor	111	99.8	102				2.43
	Ametryn	138	136	153				12.0
	Atrazine	106	93.2	105				11.2
	Atrazine Desethyl	111	105	107				1.81
	Avobenzone	133	126	152				18.6
	Azinphos Methyl	73.0	77.5	84.4				8.55
	Azoxystrobin	120	113	127				11.3
	Bromacil	110	107	116				7.90
	Butylate	62.8	50.9	71.5				33.7
	Caffeine	91.7	211	117				57.0
	Carbophenothion	114	104	108				4.18
	Carfentrazone Ethyl	126	125	113				9.51
	Chlorfenapyr	108	78.1	87.8				11.7
	Chlorpyrifos Ethyl	113	102	112				9.30

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	121	111	159		35.4
	Coumaphos	178	176	187		5.98
	Cyanazine	170	149	166		10.9
	Cyprodinil	140	123	142		13.7
	Dechlorane 602	82.2	78.4	65.5		18.0
	Dechlorane 603	92.4	93.5	88.8		5.05
	Dechlorane Plus	89.7	89.2	77.3		14.3
	Demeton	88.5	94.2	109		14.9
	Diazinon	115	110	122		10.6
	Difenoconazole	142	116	58.6		65.7
	Dimethenamid	110	101	106		5.04
	Dimethomorph	203	211	212		0.395
	Disulfoton	98.7	89.6	107		17.6
	Dithiopyr	93.3	95.6	110		14.1
	EPTC	59.2	53.8	67.4		22.5
	Ethion	93.1	103	69.8		38.2
	Ethoprop	98.9	88.4	108		19.9
	Etridiazole	75.5	64.8	81.8		23.1
	Fenamiphos	109	97.0	107		9.65
	Fenbuconazole	121	117	100		15.7
	Fipronil	100	127	89.4		34.7
	Fipronil Desulfinyl	110	109	123		11.8
	Fipronil Sulfide	103	104	87.7		16.6
	Fipronil Sulfone	95.6	94.7	49.6		58.9
	Fluazifop-P-butyl	128	97.6	109		10.6
	Fludioxonil	105	110	103		5.98
	Flumioxazin	165	170	164		3.44
	Flutolanil	124	112	114		1.55
	Fluxapyroxad	113	106	79.3		29.1
	Fonofos	101	93.4	111		17.3
	Hexabromobenzene	87.2	83.4	95.6		13.6
	Hexazinone	112	107	105		1.83
	Imazalil	124	108	108		0.179
	Iprodione	127	126	98.8		24.1
	Loratadine	168	172	169		1.63
	Malathion	113	111	113		1.59
	Metalaxyl	109	104	118		12.1
	Metolachlor	108	105	99.4		5.34
	Metribuzin	125	130	138		5.71
	Mevinphos	97.6	93.9	115		20.3
	Molinate	60.0	51.6	67.4		26.5
	Myclobutanil	128	117	123		5.65
	Naled	45.3	43.4	47.0		7.86
	Napropamide	112	90.5	80.5		11.8
	Norflurazon	123	124	122		2.01
	Octinoxate	101	90.4	129		35.0
	Oxadiazon	106	95.1	96.6		1.55
	Oxybenzone	91.3	84.0	113		29.6
	Oxyfluorfen	142	119	138		14.5
	Parathion Ethyl	111	94.9	104		8.83
	Parathion Methyl	136	151	180		17.3
	PBB-153	86.3	97.2	104		7.23
	PBDE-47	85.5	74.4	86.6		15.2
	PBDE-99	92.2	93.5	93.3		0.248

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	179	156	161		2.89
	Pentabromotoluene	81.3	77.7	98.2		23.3
	Phenytoin	67.8	98.6	112		13.1
	Phorate	94.9	80.5	113		33.3
	Prodiamine	59.9	61.5	73.0		17.2
	Prometon	123	119	120		0.939
	Prometryn	137	126	126		0.157
	Pronamide	113	108	104		3.83
	Propanil	126	130	132		1.34
	Propargite	140	134	94.8		34.3
	Propiconazole	96.0	104	103		1.20
	Pyraflufen Ethyl	134	140	122		13.9
	Pyridaben	149	159	121		27.0
	Pyriproxyfen	125	112	102		9.30
	Simazine	114	114	123		7.13
	Stirophos	117	111	80.5		31.5
	Sulfentrazone	87.9	115	91.3		22.7
	Tebuconazole	112	124	87.8		34.2
	Terbufos	103	93.7	118		22.7
	Terbutylazine	99.6	85.3	102		18.0
	Tetradecachloro-m-terphenyl	119	137	136		0.223
	Thiobencarb	115	104	98.7		5.15
	Tri-o-cresyl Phosphate	104	99.3	113		13.0
	Triadimefon	103	86.9	96.7		10.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	94.1	107	89.4		18.1
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.0	118	102		15.0
	Tris(2-chloroethyl) phosphate (TCEP)	102	118	103		14.2
EPA 8321B	2,4-D	92.5	101	96.7		4.24
	2,4,5-T	94.4	76.6	89.6		15.6
	Acesulfame K	92.2	93.1	95.3		2.32
	Acetaminophen	87.9	94.1	93.3		0.840
	Acetamiprid	82.7	77.3	80.8		4.42
	Afidopyropen	59.0	58.0	57.7		0.436
	AMPA	94.4	92.1	92.2		0.0586
	Bentazon	60.6	58.5	61.2		4.50
	Benzovindiflupyr	80.7	83.9	86.0		2.47
	Carbamazepine	70.6	71.0	72.3		1.82
	Clothianidin	87.4	89.1	90.6		1.68
	Dinotefuran	98.4	104	105		0.941
	Diuron	66.7	68.4	67.5		1.39
	Endothall	93.9	101	94.5		6.43
	Fenuron	112	107	100		6.78
	Fluridone	82.2	80.5	81.9		1.72
	Glufosinate	92.7	89.9	92.3		2.64
	Glyphosate	97.5	92.5	91.8		0.739
	Hydrocodone	92.2	93.8	92.8		1.04
	Ibuprofen	64.9	60.0	70.3		15.8
	Imazapyr	84.2	109	108		1.01
	Imidacloprid	84.7	95.2	95.4		0.191
	Linuron	68.9	64.6	72.0		10.9
	Mandestrobin	78.6	80.4	82.9		3.08

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	MCP	85.2	86.8	85.9			0.970
	Naproxen	53.5	52.1	58.2			11.2
	Primidone	82.7	90.4	80.2			11.9
	Pyraclostrobin	70.1	79.2	79.4			0.236
	Silvex	79.0	85.4	79.8			6.83
	Sucralose	86.7	87.0	88.3			1.47
	Thiamethoxam	87.3	85.4	83.0			2.78
	Tolfenpyrad	36.3	50.0	49.0			2.10
	Triclopyr	101	96.2	96.8			0.684
SM 2320 B-2011	Total Alkalinity	97.8				0.494	
SM 2540 C-2015	TDS	92.4				6.91	
SM 2540 D-2015	TSS	102				7.41	
SM 4500-F- C-2011	Fluoride	101					0.986
SM 5310 B-2011	Organic Carbon	96.3	96.6	95.3			0.983

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2452745
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2452745
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2452752
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2452752
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2452745
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2452745
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2452746
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2452746
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2452746
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2452746
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2452747
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2452753
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2452753
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2452751
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2452745
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2452752
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2452745
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2452745
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2452745
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2452746

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	11/28/2023			11/28/2023 13:27	Blanca Fach	2452745
EPA 180.1 Rev. 2.0	11/28/2023			11/28/2023 13:26	Anna M. Plaviak	2452745
EPA 200.7 Rev. 4.4	11/28/2023	11/29/2023 13:50	George D Taylor	12/11/2023 19:01	McKinley C Carter	2452752
EPA 200.8 Rev. 5.4	11/28/2023	11/29/2023 13:50	George D Taylor	11/30/2023 19:25	Emily M Philpot	2452752
	11/28/2023	12/04/2023 13:55	George D Taylor	12/05/2023 16:47	Emily M Philpot	2452752
EPA 300.0 Rev. 2.1	11/28/2023			11/30/2023 05:47	James L Waggeberby	2452745
EPA 350.1 Rev. 2.0	11/28/2023			12/06/2023 11:04	Khloe J Berg	2452746
EPA 351.2 Rev. 2.0	11/28/2023	12/01/2023 09:23	Simonne.V. Calhoun	12/01/2023 13:39	Ping Hua	2452746
EPA 353.2 Rev. 2.0	11/28/2023			11/30/2023 13:39	Fadila Guebre	2452746
EPA 365.1 Rev. 2.0	11/28/2023	11/30/2023 12:55	Adam P Silver	12/01/2023 12:39	James L Waggeberby	2452746
EPA 365.1 Rev. 2.0 dissolved	11/28/2023			11/28/2023 15:55	Chandler E Cox	2452747
EPA 8270E	11/28/2023	12/03/2023 08:30	Rasheda Ghaffari	12/16/2023 19:43	Vandana T. Nagar	2452753
	11/28/2023	12/03/2023 08:30	Rasheda Ghaffari	12/16/2023 20:12	Vandana T. Nagar	2452753
	11/28/2023	12/03/2023 08:30	Rasheda Ghaffari	12/28/2023 19:11	Arthur Maknenko	2452753
EPA 8321B	11/28/2023	11/28/2023 13:00	Hana Lee	11/28/2023 16:52	Tae K Lee	2452751
	11/28/2023	11/28/2023 13:00	Hana Lee	11/29/2023 17:53	Tae K Lee	2452751
	11/28/2023	11/29/2023 09:00	Hoor Shaik	11/29/2023 19:10	Juyoung Kim	2452751
SM 2320 B-2011	11/28/2023			11/29/2023 20:11	Chandler E Cox	2452745
SM 2340 B-2011	11/28/2023			12/11/2023 19:01	McKinley C Carter	2452752
SM 2540 C-2015	11/28/2023			12/01/2023 15:02	Yijie Li	2452745
SM 2540 D-2015	11/28/2023			12/01/2023 15:02	Yijie Li	2452745
SM 4500-F- C-2011	11/28/2023			11/29/2023 20:11	Chandler E Cox	2452745
SM 5310 B-2011	11/28/2023			11/29/2023 18:24	Kenneth H Lee	2452746