

Chemical Analysis Report

SW-DIST-2022-12-16-01

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

Event Description: **SCIs Thompson Branch**
Request ID: **RQ-2022-11-14-42**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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Certified by: Colin Wright, Program Administrator

Date Certified: 20-JAN-2023 09:38

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink 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: Thompson Branch @ US17 north of Causey Road

Collection Date/Time: 12/15/2022 12:05

Field ID: G3SW0086

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375935	DEP SOP: NU-094-1	Color (true)	54		PCU	P423684	
	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P423691	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P423938	
		Sulfate	58		mg SO4/L	P423941	
	SM 2320 B-2011	Total Alkalinity	55		mg CaCO3/L	P423946	
	SM 2540 C-2015	TDS	217		mg/L	P424056	
	SM 2540 D-2015	TSS	6	I	mg/L	P423856	
2375936	SM 4500-F- C-2011	Fluoride	0.40		mg F/L	P423951	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.041		mg N/L	P424224	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P423819	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.7		mg N/L	P423897	
	EPA 365.1 Rev. 2.0	Total-P	0.54		mg P/L	P423792	
2375937	SM 5310 B-2011	Organic Carbon	7.9		mg C/L	P423743	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.41		mg P/L	P423694	
2375941	EPA 8321B	2,4-D	0.0020	U	ug/L	P423628	
		Acesulfame K	0.10	U	ug/L	P423561	
		2,4,5-T	0.0040	U	ug/L	P423628	
		AMPA	0.17	I	ug/L	P423561	
		Acetaminophen	0.0080	U	ug/L	P423628	
		Acetamiprid	0.0020	U	ug/L	P423628	
		Endothall	0.25	U	ug/L	P423561	
		Glufosinate	0.10	U	ug/L	P423561	
		Glyphosate	0.14	I	ug/L	P423561	
		Afidopyropen	0.0020	U	ug/L	P423628	
		Bentazon	8.0E-04	U	ug/L	P423628	
		Sucralose	0.42		ug/L	P423561	
		Benzovindiflupyr	0.0020	U	ug/L	P423628	
		Carbamazepine	8.0E-04	U	ug/L	P423628	
		Clothianidin	0.068		ug/L	P423628	
		Dinotefuran	0.0020	U	ug/L	P423628	
		Diuron	0.0037	I	ug/L	P423628	
		Fenuron	0.032	U	ug/L	P423628	
		Fluridone	8.0E-04	U	ug/L	P423628	
		Imazapyr	0.0066	I	ug/L	P423628	
		Hydrocodone	0.0020	U	ug/L	P423628	
		Ibuprofen	0.20	U	ug/L	P423628	
		Imidacloprid	0.058		ug/L	P423628	
		Linuron	0.0040	U	ug/L	P423628	
		Mandestrobin	0.0020	U	ug/L	P423628	
		MCPP	0.0040	U	ug/L	P423628	
		Naproxen	0.0080	U	ug/L	P423628	
		Primidone	0.0040	U	ug/L	P423628	

Field ID: G3SW0086

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375941	EPA 8321B	Pyraclostrobin	0.0020	U	ug/L	P423628	
		Silvex	0.0040	U	ug/L	P423628	
		Thiamethoxam	0.057		ug/L	P423628	
		Tolfenpyrad	0.0020	U	ug/L	P423628	
		Triclopyr	0.0040	U	ug/L	P423628	
2375942	EPA 200.7 Rev. 4.4	Calcium	30.1		mg/L	P423707	
		Iron	350		ug/L	P423707	
		Magnesium	10.7		mg/L	P423707	
		Potassium	6.1		mg/L	P423707	
		Sodium	11.9		mg/L	P423707	
		Strontium	673		ug/L	P423707	
		Tin	3.0	U	ug/L	P423707	
		Titanium	1.3	I	ug/L	P423707	
		Vanadium	9.3		ug/L	P423707	
		Zinc	5.7	I	ug/L	P423707	
	EPA 200.8 Rev. 5.4	Aluminum	263		ug/L	P423707	
		Antimony	0.25		ug/L	P423707	
		Arsenic	0.92		ug/L	P423707	
		Barium	7.69		ug/L	P423707	
		Beryllium	0.019	I	ug/L	P423707	
		Boron	45.1		ug/L	P423707	
		Cadmium	0.081		ug/L	P423707	
		Chromium	1.0	I	ug/L	P423707	
		Cobalt	0.185		ug/L	P423707	
		Copper	1.52		ug/L	P423707	
		Lead	0.40		ug/L	P423707	
		Manganese	19.2		ug/L	P423707	
		Molybdenum	1.09		ug/L	P423707	
		Nickel	1.3	I	ug/L	P423707	
		Selenium	0.42	I	ug/L	P423707	
		Silver	0.010	U	ug/L	P423707	
		Thallium	0.14	I	ug/L	P423707	
	SM 2340 B-2011	Hardness	119		mg/L	P423707	
2375943	EPA 8270E	Oxybenzone**	9.9	U	ng/L	P423751	
		Acetochlor	0.25	U	ng/L	P423751	
		Octinoxate**	20	U	ng/L	P423751	
		Alachlor	0.25	U	ng/L	P423751	
		Avobenzone**	99	U	ng/L	P423751	
		Ametryn	0.59	U	ng/L	P423751	
		Atrazine	0.67	I	ng/L	P423751	
		PBDE-47**	4.0	U	ng/L	P423751	
		Atrazine Desethyl	1.5	U	ng/L	P423751	
		PBDE-99**	5.0	U	ng/L	P423751	
		Azinphos Methyl	2.0	U	ng/L	P423751	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P423751	

Field ID: G3SW0086

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375943	EPA 8270E	Azoxystrobin	0.50	U	ng/L	P423751	
		Bromacil	130		ng/L	P423751	
		2-Ethylhexyl	12	U	ng/L	P423751	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.40	U	ng/L	P423751	
		Dechlorane Plus**	30	U	ng/L	P423751	
		Caffeine**	24	I	ng/L	P423751	
		Carbophenothion	0.20	U	ng/L	P423751	
		Carfentrazone Ethyl	0.099	U	ng/L	P423751	
		Chlorfenapyr	0.17	U	ng/L	P423751	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P423751	
		Chlorpyrifos Methyl	0.050	U	ng/L	P423751	
		Coumaphos	0.50	U	ng/L	P423751	
		Cyanazine	3.2	UJ	ng/L	P423751	LCS, MS
		Cyprodinil	0.099	U	ng/L	P423751	
		Demeton	1.5	U	ng/L	P423751	
		Diazinon	0.12	U	ng/L	P423751	
		Difenoconazole	0.59	U	ng/L	P423751	
		Dimethenamid	0.099	U	ng/L	P423751	
		Dimethomorph	0.17	U	ng/L	P423751	
		Disulfoton	0.50	U	ng/L	P423751	
		Dithiopyr	0.62	U	ng/L	P423751	
		EPTC	1.2	U	ng/L	P423751	
		Ethion	0.15	U	ng/L	P423751	
		Ethoprop	0.099	U	ng/L	P423751	
		Etridiazole	0.15	U	ng/L	P423751	
		Fenamiphos	0.50	U	ng/L	P423751	
		Fenbuconazole	0.12	U	ng/L	P423751	
		Fipronil	0.63	I	ng/L	P423751	
		Fipronil Desulfinyl**	0.12	U	ng/L	P423751	
		Fipronil Sulfide	0.18	I	ng/L	P423751	
		Fipronil Sulfone	0.71		ng/L	P423751	
		Fluazifop-P-butyl	0.099	U	ng/L	P423751	
		Fludioxonil	0.12	U	ng/L	P423751	
		Flumioxazin	4.5	U	ng/L	P423751	
		Flutolanil	0.099	U	ng/L	P423751	
		Fluxapyroxad	0.099	U	ng/L	P423751	
		Fonofos	0.20	U	ng/L	P423751	
		Hexazinone	2.4		ng/L	P423751	
		Imazalil	0.74	U	ng/L	P423751	
		Iprodione	0.59	U	ng/L	P423751	
		Loratadine**	0.35	U	ng/L	P423751	
		Malathion	0.35	U	ng/L	P423751	
		Metalaxyl	14		ng/L	P423751	
		Metolachlor	5.8		ng/L	P423751	

Field ID: G3SW0086

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2375943	EPA 8270E	Metribuzin	1.5	U	ng/L	P423751	
		Mevinphos	1.0	U	ng/L	P423751	
		Molinate	0.30	U	ng/L	P423751	
		Myclobutanil	0.25	U	ng/L	P423751	
		Naled	1.5	U	ng/L	P423751	
		Napropamide	0.40	U	ng/L	P423751	
		Norflurazon	38		ng/L	P423751	
		Oxadiazon	0.30	U	ng/L	P423751	
		Oxyfluorfen	0.15	U	ng/L	P423751	
		Parathion Ethyl	0.25	U	ng/L	P423751	
		Parathion Methyl	0.55	U	ng/L	P423751	
		Pendimethalin	0.99	U	ng/L	P423751	
		Phenytol**	3.5	U	ng/L	P423751	
		Phorate	0.52	U	ng/L	P423751	
		Prodiamine	0.23	I	ng/L	P423751	
		Prometon	0.89	U	ng/L	P423751	
		Prometryn	0.20	U	ng/L	P423751	
		Pronamide	0.15	U	ng/L	P423751	
		Propanil	0.12	U	ng/L	P423751	
		Propargite	1.5	U	ng/L	P423751	
		Propiconazole	0.80	I	ng/L	P423751	
		Pyraflufen Ethyl	0.25	U	ng/L	P423751	
		Pyridaben	0.45	U	ng/L	P423751	
		Pyriproxyfen	0.12	U	ng/L	P423751	
		Simazine	1.3	I	ng/L	P423751	
		Stirophos	0.12	U	ng/L	P423751	
		Sulfentrazone	1.3	I	ng/L	P423751	
		Tebuconazole	0.55	I	ng/L	P423751	
		Terbufos	0.099	U	ng/L	P423751	
		Terbutylazine	0.42	U	ng/L	P423751	
		Thiobencarb	0.59	U	ng/L	P423751	
		Triadimefon	0.25	U	ng/L	P423751	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8270E: MS accuracy for bromacil and norflurazon 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: P423684

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423691

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423707

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: P423707

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423938

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423941

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424224

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423819

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423897

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423792

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423694

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

Reference Method: EPA 8270E
Batch ID: P423751

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P423751

Component	Result	Code	Units
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P423751

Component	Result	Code	Units
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P423751

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazole	0.50	U	ng/L
Sulfentrazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P423751

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8321B

Batch ID: P423561

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: P423628

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
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	0.20	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	0.0040	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: P423946

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P423946

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

Reference Method: SM 2540 C-2015
Batch ID: P424056

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P423856

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P423743

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: P423684

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423691

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	96.8		P	85 - 115
Iron	97.2		P	85 - 115
Magnesium	98.8		P	85 - 115
Potassium	97.4		P	85 - 115
Sodium	99.5		P	85 - 115
Strontium	98.1		P	85 - 115
Tin	94.9		P	85 - 115
Titanium	97.0		P	85 - 115
Vanadium	96.3		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.9		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	100		P	85 - 115
Barium	101		P	85 - 115
Beryllium	94.6		P	85 - 115
Boron	100		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	94.9		P	85 - 115
Cobalt	99.0		P	85 - 115
Copper	98.7		P	85 - 115
Lead	92.3		P	85 - 115
Manganese	95.6		P	85 - 115
Molybdenum	97.3		P	85 - 115
Nickel	99.2		P	85 - 115
Selenium	100		P	85 - 115
Silver	97.8		P	85 - 115
Thallium	99.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423938

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423941

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424224

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423819

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423897

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423792

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423694

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

Reference Method: EPA 8270E
Batch ID: P423751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.5		P	42 - 162
Acetochlor	88.5		P	69 - 123
Alachlor	79.3		P	65 - 118
Ametryn	111		P	58 - 141
Atrazine	101		P	73 - 118
Atrazine Desethyl	73.6		P	32 - 125
Avobenzone	115		P	40 - 203
Azinphos Methyl	133		P	36 - 197
Azoxystrobin	101		P	58 - 226
Bromacil	107		P	48 - 120
Butylate	57.8		P	27 - 85.0
Caffeine	98.8		P	40 - 137
Carbophenothion	100		P	54 - 132
Carfentrazone Ethyl	99.0		P	60 - 142
Chlorfenapyr	63.5		P	53 - 117
Chlorpyrifos Ethyl	83.1		P	59 - 116

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	89.8		P	66 - 119
Coumaphos	225		P	11 - 234
Cyanazine	264		F	61 - 248
Cyprodinil	95.2		P	50 - 147
Dechlorane Plus	105		P	47 - 182
Demeton	65.0		P	30 - 138
Diazinon	91.1		P	67 - 126
Difenoconazole	95.4		P	38 - 205
Dimethenamid	103		P	57 - 111
Dimethomorph	121		P	16 - 212
Disulfoton	69.3		P	46 - 126
Dithiopyr	85.2		P	62 - 115
EPTC	47.1		P	28 - 80.0
Ethion	68.8		P	24 - 122
Ethoprop	72.7		P	62 - 113
Etridiazole	43.2		P	28 - 92.0
Fenamiphos	103		P	57 - 128
Fenbuconazole	99.2		P	52 - 155
Fipronil	73.9		P	63 - 130
Fipronil Desulfinyl	101		P	61 - 130
Fipronil Sulfide	69.5		P	56 - 117
Fipronil Sulfone	99.7		P	52 - 118
Fluazifop-P-butyl	111		P	61 - 128
Fludioxonil	114		P	59 - 129
Flumioxazin	103		P	30 - 250
Flutolanil	106		P	53 - 127
Fluxapyroxad	92.4		P	42 - 132
Fonofos	77.6		P	61 - 110
Hexazinone	97.3		P	46 - 139
Imazalil	115		P	40 - 139
Iprodione	130		P	40 - 146
Loratadine	120		P	10 - 224
Malathion	86.0		P	61 - 135
Metaxyl	115		P	58 - 121
Metolachlor	99.8		P	64 - 118
Metribuzin	96.4		P	45 - 245
Mevinphos	80.0		P	49 - 118
Molinate	57.1		P	42 - 92.0
Myclobutanil	80.2		P	55 - 127
Naled	111		P	10 - 114
Napropamide	51.5		P	39 - 121
Norflurazon	119		P	55 - 129
Octinoxate	76.2		P	26 - 166
Oxadiazon	76.4		P	54 - 115
Oxybenzone	71.6		P	49 - 135
Oxyfluorfen	74.8		P	64 - 139
Parathion Ethyl	93.6		P	70 - 111
Parathion Methyl	97.7		P	76 - 136
PBDE-47	76.5		P	41 - 148
PBDE-99	80.5		P	38 - 147
Pendimethalin	76.9		P	52 - 118
Phenytol	25.6		P	10 - 162

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P423751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	68.2		P	40 - 122
Prodiamine	86.5		P	26 - 141
Prometon	97.6		P	54 - 122
Prometryn	89.9		P	61 - 128
Pronamide	76.1		P	72 - 121
Propanil	111		P	45 - 144
Propargite	76.2		P	10 - 199
Propiconazole	79.5		P	56 - 127
Pyraflufen Ethyl	77.6		P	56 - 140
Pyridaben	117		P	26 - 211
Pyriproxyfen	106		P	33 - 194
Simazine	91.0		P	67 - 121
Stirophos	83.4		P	20 - 142
Sulfentrazone	60.4		P	21 - 144
Tebuconazole	77.8		P	10 - 122
Terbufos	80.7		P	60 - 129
Terbutylazine	89.9		P	69 - 113
Thiobencarb	102		P	51 - 120
Tri-o-cresyl Phosphate	80.8		P	49 - 150
Triadimefon	74.2		P	56 - 114

Reference Method: EPA 8321B

Batch ID: P423561

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	74.1		P	40 - 150
AMPA	106		P	40 - 150
Endothall	97.9		P	40 - 150
Glufosinate	100		P	40 - 150
Glyphosate	98.6		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P423628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	102		P	40 - 150
2,4,5-T	76.0		P	40 - 150
Acetaminophen	95.1		P	30 - 150
Acetamiprid	83.1		P	40 - 150
Afidopyropen	64.9		P	30 - 150
Bentazon	69.1		P	30 - 150
Benzovindiflupyr	85.1		P	40 - 150
Carbamazepine	81.2		P	40 - 150
Clothianidin	93.6		P	40 - 150
Dinotefuran	95.1		P	40 - 150
Diuron	69.3		P	40 - 150
Fenuron	93.5		P	40 - 150
Fluridone	78.0		P	40 - 150
Hydrocodone	86.3		P	40 - 150
Ibuprofen	96.7		P	40 - 150
Imazapyr	83.6		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P423628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	85.4		P	40 - 150
Linuron	77.2		P	40 - 150
Mandestrobin	91.0		P	40 - 150
MCPPP	102		P	40 - 150
Naproxen	87.6		P	40 - 150
Primidone	89.9		P	40 - 150
Pyraclostrobin	78.4		P	40 - 150
Silvex	82.2		P	40 - 150
Thiamethoxam	86.6		P	40 - 150
Tolfenpyrad	40.8		P	30 - 150
Triclopyr	73.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P423946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P424056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.1		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P423856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	104		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P423951

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P423743

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: P423707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376061	Calcium	100	98.2	P/P	80 - 120
2376061	Iron	98.8	100	P/P	80 - 120
2376061	Magnesium	100	102	P/P	80 - 120
2376061	Potassium	99.2	99.3	P/P	80 - 120
2376061	Sodium	99.4	100	P/P	80 - 120
2376061	Strontium	98.6	99.0	P/P	80 - 120
2376061	Tin	98.1	95.8	P/P	80 - 120
2376061	Titanium	99.6	99.1	P/P	80 - 120
2376061	Vanadium	98.6	99.3	P/P	80 - 120
2376061	Zinc	101	101	P/P	80 - 120
2376067	Calcium	94.5		P	80 - 120
2376067	Iron	98.0		P	80 - 120
2376067	Magnesium	98.8		P	80 - 120
2376067	Potassium	98.5		P	80 - 120
2376067	Sodium	101		P	80 - 120
2376067	Strontium	98.7		P	80 - 120
2376067	Tin	92.0		P	80 - 120
2376067	Titanium	97.5		P	80 - 120
2376067	Vanadium	98.0		P	80 - 120
2376067	Zinc	95.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P423707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376061	Aluminum	93.4	89.7	P/P	80 - 120
2376061	Antimony	101	101	P/P	80 - 120
2376061	Arsenic	102	101	P/P	80 - 120
2376061	Barium	103	103	P/P	80 - 120
2376061	Beryllium	94.8	93.3	P/P	80 - 120
2376061	Boron	102	101	P/P	80 - 120
2376061	Cadmium	102	102	P/P	80 - 120
2376061	Chromium	99.0	98.7	P/P	80 - 120
2376061	Cobalt	100	101	P/P	80 - 120
2376061	Copper	102	101	P/P	80 - 120
2376061	Lead	93.4	94.1	P/P	80 - 120
2376061	Manganese	99.5	98.2	P/P	80 - 120
2376061	Molybdenum	98.3	98.8	P/P	80 - 120
2376061	Nickel	103	103	P/P	80 - 120
2376061	Selenium	103	105	P/P	80 - 120
2376061	Silver	98.5	100	P/P	80 - 120
2376061	Thallium	102	102	P/P	80 - 120
2376067	Aluminum	94.2		P	80 - 120
2376067	Antimony	103		P	80 - 120
2376067	Arsenic	101		P	80 - 120
2376067	Barium	102		P	80 - 120
2376067	Beryllium	95.9		P	80 - 120
2376067	Boron	101		P	80 - 120
2376067	Cadmium	105		P	80 - 120
2376067	Chromium	98.0		P	80 - 120
2376067	Cobalt	99.5		P	80 - 120
2376067	Copper	98.9		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P423707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376067	Lead	93.7		P	80 - 120
2376067	Manganese	102		P	80 - 120
2376067	Molybdenum	100		P	80 - 120
2376067	Nickel	99.2		P	80 - 120
2376067	Selenium	101		P	80 - 120
2376067	Silver	99.2		P	80 - 120
2376067	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P423938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375906	Chloride	101		P	90 - 110
2375913	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P423941

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375906	Sulfate	100		P	90 - 110
2375913	Sulfate	98.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P424224

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375704	Ammonia-N	97.4	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P423819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375978	Kjeldahl Nitrogen	98.8	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P423897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375907	NO2NO3-N	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P423694

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375921	O-Phosphate-P	102	101	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P423751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375943	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	79.6	86.8	P/P	26 - 165
2375943	Acetochlor	85.2	89.1	P/P	67 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P423751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375943	Alachlor	77.6	74.4	P/P	60 - 120
2375943	Ametryn	138	143	P/P	54 - 216
2375943	Atrazine	113	110	P/P	66 - 128
2375943	Atrazine Desethyl	65.7	72.0	P/P	15 - 122
2375943	Avobenzone	93.3	119	P/P	37 - 178
2375943	Azinphos Methyl	145	157	P/P	40 - 292
2375943	Azoxystrobin	109	126	P/P	35 - 220
2375943	Butylate	55.1	61.3	P/P	20 - 83.0
2375943	Caffeine	98.3	97.2	P/P	10 - 194
2375943	Carbophenothion	122	122	P/P	57 - 127
2375943	Carfentrazone Ethyl	108	109	P/P	51 - 141
2375943	Chlorfenapyr	80.2	80.9	P/P	46 - 111
2375943	Chlorpyrifos Ethyl	110	120	P/P	52 - 120
2375943	Chlorpyrifos Methyl	86.0	106	P/P	63 - 119
2375943	Coumaphos	217	222	P/P	10 - 228
2375943	Cyanazine	279	303	F/F	59 - 241
2375943	Cyprodinil	89.6	105	P/P	47 - 146
2375943	Dechlorane Plus	79.5	96.6	P/P	50 - 150
2375943	Demeton	70.7	79.6	P/P	40 - 136
2375943	Diazinon	99.6	119	P/P	69 - 132
2375943	Difenoconazole	192	140	P/P	57 - 258
2375943	Dimethenamid	86.3	87.3	P/P	54 - 110
2375943	Dimethomorph	109	167	P/P	28 - 210
2375943	Disulfoton	79.5	81.5	P/P	43 - 133
2375943	Dithiopyr	91.9	99.7	P/P	39 - 116
2375943	EPTC	48.7	55.8	P/P	20 - 78.0
2375943	Ethion	70.1	83.0	P/P	17 - 119
2375943	Ethoprop	84.1	112	P/P	66 - 120
2375943	Etridiazole	47.3	44.6	P/P	28 - 96.0
2375943	Fenamiphos	122	122	P/P	41 - 126
2375943	Fenbuconazole	113	131	P/P	42 - 169
2375943	Fipronil	100	91.2	P/P	61 - 132
2375943	Fipronil Desulfinyl	83.7	106	P/P	56 - 132
2375943	Fipronil Sulfide	99.3	78.4	P/P	48 - 119
2375943	Fipronil Sulfone	104	117	P/P	42 - 131
2375943	Fluazifop-P-butyl	117	130	P/P	53 - 131
2375943	Fludioxonil	107	125	P/P	56 - 127
2375943	Flumioxazin	205	204	P/P	19 - 300
2375943	Flutolanil	123	124	P/P	41 - 127
2375943	Fluxapyroxad	135	120	P/P	42 - 172
2375943	Fonofos	89.3	111	P/P	59 - 113
2375943	Hexazinone	105	116	P/P	66 - 122
2375943	Imazalil	111	117	P/P	21 - 283
2375943	Iprodione	108	104	P/P	43 - 150
2375943	Loratadine	154	161	P/P	23 - 201
2375943	Malathion	106	111	P/P	58 - 136
2375943	Metalaxyl	103	101	P/P	55 - 120
2375943	Metolachlor	91.9	84.4	P/P	57 - 121
2375943	Metribuzin	99.0	117	P/P	58 - 294
2375943	Mevinphos	94.1	102	P/P	50 - 126
2375943	Molinate	68.9	76.2	P/P	42 - 93.0
2375943	Myclobutanil	121	123	P/P	55 - 125

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P423751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375943	Naled	113	132	P/P	18 - 200
2375943	Napropamide	63.2	65.9	P/P	39 - 110
2375943	Octinoxate	63.0	77.4	P/P	21 - 159
2375943	Oxadiazon	88.4	97.3	P/P	43 - 112
2375943	Oxybenzone	62.2	73.4	P/P	41 - 142
2375943	Oxyfluorfen	88.6	95.3	P/P	64 - 153
2375943	Parathion Ethyl	106	111	P/P	69 - 114
2375943	Parathion Methyl	105	137	P/P	79 - 139
2375943	PBDE-47	63.8	76.8	P/P	27 - 144
2375943	PBDE-99	68.3	81.0	P/P	18 - 150
2375943	Pendimethalin	116	123	P/P	50 - 139
2375943	Phenytoin	72.1	59.6	P/P	10 - 146
2375943	Phorate	74.0	102	P/P	54 - 161
2375943	Prodiamine	94.0	104	P/P	30 - 161
2375943	Prometon	112	115	P/P	45 - 134
2375943	Prometryn	86.9	103	P/P	45 - 137
2375943	Pronamide	84.3	87.1	P/P	65 - 133
2375943	Propanil	99.2	123	P/P	49 - 142
2375943	Propargite	101	97.9	P/P	10 - 203
2375943	Propiconazole	106	105	P/P	38 - 146
2375943	Pyraflufen Ethyl	105	85.9	P/P	34 - 153
2375943	Pyridaben	112	128	P/P	12 - 192
2375943	Pyriproxyfen	105	120	P/P	33 - 180
2375943	Simazine	113	117	P/P	51 - 157
2375943	Stirophos	108	105	P/P	10 - 128
2375943	Sulfentrazone	147	162	P/P	53 - 186
2375943	Tebuconazole	93.5	92.8	P/P	10 - 133
2375943	Terbufos	92.2	123	P/P	65 - 139
2375943	Terbuthylazine	86.6	89.6	P/P	66 - 117
2375943	Thiobencarb	99.0	102	P/P	51 - 119
2375943	Tri-o-cresyl Phosphate	66.5	79.7	P/P	31 - 144
2375943	Triadimefon	72.9	63.5	P/P	48 - 119

Reference Method: EPA 8321B

Batch ID: P423561

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375144	Acesulfame K	77.0	95.0	P/P	40 - 150
2375144	AMPA	99.4	99.4	P/P	40 - 150
2375144	Endothall	103	100	P/P	40 - 150
2375144	Glufosinate	111	110	P/P	40 - 150
2375144	Glyphosate	97.5	102	P/P	40 - 150
2375144	Sucralose	112	110	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P423628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375490	2,4-D	108	102	P/P	40 - 150
2375490	2,4,5-T	80.2	74.0	P/P	40 - 150
2375490	Acetaminophen	103	100	P/P	30 - 150
2375490	Acetamiprid	87.9	83.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P423628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375490	Afidopyropen	64.1	70.2	P/P	30 - 150
2375490	Bentazon	70.5	75.8	P/P	30 - 150
2375490	Benzovindiflupyr	93.9	88.2	P/P	40 - 150
2375490	Carbamazepine	86.2	83.4	P/P	40 - 150
2375490	Clothianidin	100	103	P/P	40 - 150
2375490	Dinotefuran	103	97.9	P/P	40 - 150
2375490	Diuron	79.8	76.3	P/P	40 - 150
2375490	Fenuron	100	101	P/P	40 - 150
2375490	Fluridone	78.9	81.6	P/P	40 - 150
2375490	Hydrocodone	90.1	92.1	P/P	40 - 150
2375490	Ibuprofen	99.9	92.6	P/P	40 - 150
2375490	Imazapyr	90.6	89.4	P/P	40 - 150
2375490	Imidacloprid	92.5	91.9	P/P	40 - 150
2375490	Linuron	81.9	80.5	P/P	40 - 150
2375490	Mandestrobin	94.3	99.3	P/P	40 - 150
2375490	MCPP	105	96.5	P/P	40 - 150
2375490	Naproxen	89.4	66.8	P/P	40 - 150
2375490	Primidone	95.7	95.6	P/P	40 - 150
2375490	Pyraclostrobin	88.7	85.3	P/P	40 - 150
2375490	Silvex	78.6	88.1	P/P	40 - 150
2375490	Thiamethoxam	95.2	95.2	P/P	40 - 150
2375490	Tolfenpyrad	50.0	42.3	P/P	30 - 150
2375490	Triclopyr	87.9	74.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P423951

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375528	Fluoride	100	99.5	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P423743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375988	Organic Carbon	94.6	95.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P423684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375919	Color (true)	1.54	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375906	Turbidity	11.8	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376061	Calcium	1.01	Spike	P	0 - 20
2376061	Iron	1.23	Spike	P	0 - 20
2376061	Magnesium	1.25	Spike	P	0 - 20
2376061	Potassium	0.0332	Spike	P	0 - 20
2376061	Sodium	0.501	Spike	P	0 - 20
2376061	Strontium	0.414	Spike	P	0 - 20
2376061	Tin	2.33	Spike	P	0 - 20
2376061	Titanium	0.480	Spike	P	0 - 20
2376061	Vanadium	0.741	Spike	P	0 - 20
2376061	Zinc	0.00694	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376061	Aluminum	2.90	Spike	P	0 - 20
2376061	Antimony	0.186	Spike	P	0 - 20
2376061	Arsenic	0.659	Spike	P	0 - 20
2376061	Barium	0.101	Spike	P	0 - 20
2376061	Beryllium	1.52	Spike	P	0 - 20
2376061	Boron	1.01	Spike	P	0 - 20
2376061	Cadmium	0.0364	Spike	P	0 - 20
2376061	Chromium	0.354	Spike	P	0 - 20
2376061	Cobalt	0.446	Spike	P	0 - 20
2376061	Copper	0.251	Spike	P	0 - 20
2376061	Lead	0.749	Spike	P	0 - 20
2376061	Manganese	0.881	Spike	P	0 - 20
2376061	Molybdenum	0.458	Spike	P	0 - 20
2376061	Nickel	0.280	Spike	P	0 - 20
2376061	Selenium	1.25	Spike	P	0 - 20
2376061	Silver	1.73	Spike	P	0 - 20
2376061	Thallium	0.0231	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P423938

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375906	Chloride	0.114	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P423941

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375906	Sulfate	1.26	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P424224

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375704	Ammonia-N	0.104	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P423819

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375978	Kjeldahl Nitrogen	4.38	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P423897

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375907	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P423792

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375743	Total-P	3.04	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P423694

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375921	O-Phosphate-P	0.791	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P423751

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375943	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.66	Spike	P	0 - 37
2375943	Acetochlor	4.53	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P423751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375943	Alachlor	4.22	Spike	P	0 - 30
2375943	Ametryn	3.80	Spike	P	0 - 32
2375943	Atrazine	1.82	Spike	P	0 - 41
2375943	Atrazine Desethyl	9.09	Spike	P	0 - 36
2375943	Avobenzone	24.4	Spike	P	0 - 36
2375943	Azinphos Methyl	7.69	Spike	P	0 - 75
2375943	Azoxystrobin	14.4	Spike	P	0 - 39
2375943	Bromacil	14.5	Spike	P	0 - 33
2375943	Butylate	10.7	Spike	P	0 - 44
2375943	Caffeine	1.08	Spike	P	0 - 74
2375943	Carbophenothion	0.388	Spike	P	0 - 25
2375943	Carfentrazone Ethyl	0.720	Spike	P	0 - 27
2375943	Chlorfenapyr	0.885	Spike	P	0 - 24
2375943	Chlorpyrifos Ethyl	8.69	Spike	P	0 - 26
2375943	Chlorpyrifos Methyl	20.6	Spike	P	0 - 26
2375943	Coumaphos	2.20	Spike	P	0 - 28
2375943	Cyanazine	8.25	Spike	P	0 - 48
2375943	Cyprodinil	15.6	Spike	P	0 - 29
2375943	Dechlorane Plus	19.4	Spike	P	0 - 30
2375943	Demeton	11.9	Spike	P	0 - 33
2375943	Diazinon	17.5	Spike	P	0 - 29
2375943	Difenoconazole	31.6	Spike	P	0 - 34
2375943	Dimethenamid	1.18	Spike	P	0 - 39
2375943	Dimethomorph	42.2	Spike	P	0 - 51
2375943	Disulfoton	2.53	Spike	P	0 - 30
2375943	Dithiopyr	8.10	Spike	P	0 - 26
2375943	EPTC	13.5	Spike	P	0 - 43
2375943	Ethion	16.8	Spike	P	0 - 79
2375943	Ethoprop	28.7	Spike	P	0 - 29
2375943	Etridiazole	6.05	Spike	P	0 - 33
2375943	Fenamiphos	0.00973	Spike	P	0 - 40
2375943	Fenbuconazole	15.0	Spike	P	0 - 74
2375943	Fipronil	8.10	Spike	P	0 - 29
2375943	Fipronil Desulfanyl	23.5	Spike	P	0 - 32
2375943	Fipronil Sulfide	21.4	Spike	P	0 - 30
2375943	Fipronil Sulfone	8.99	Spike	P	0 - 33
2375943	Fluazifop-P-butyl	10.6	Spike	P	0 - 38
2375943	Fludioxonil	15.4	Spike	P	0 - 29
2375943	Flumioxazin	0.675	Spike	P	0 - 51
2375943	Flutolanil	0.696	Spike	P	0 - 25
2375943	Fluxapyroxad	12.0	Spike	P	0 - 45
2375943	Fonofos	22.1	Spike	P	0 - 27
2375943	Hexazinone	8.63	Spike	P	0 - 30
2375943	Imazalil	5.31	Spike	P	0 - 100
2375943	Iprodione	4.09	Spike	P	0 - 33
2375943	Loratadine	4.75	Spike	P	0 - 56
2375943	Malathion	4.26	Spike	P	0 - 37
2375943	Metalaxyl	1.17	Spike	P	0 - 40
2375943	Metolachlor	5.45	Spike	P	0 - 29
2375943	Metribuzin	16.3	Spike	P	0 - 45
2375943	Mevinphos	8.06	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P423751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375943	Molinate	10.1	Spike	P	0 - 33
2375943	Myclobutanil	1.65	Spike	P	0 - 26
2375943	Naled	15.7	Spike	P	0 - 37
2375943	Napropamide	4.12	Spike	P	0 - 44
2375943	Norflurazon	13.3	Spike	P	0 - 30
2375943	Octinoxate	20.6	Spike	P	0 - 45
2375943	Oxadiazon	9.57	Spike	P	0 - 28
2375943	Oxybenzone	16.6	Spike	P	0 - 46
2375943	Oxyfluorfen	7.27	Spike	P	0 - 28
2375943	Parathion Ethyl	4.61	Spike	P	0 - 31
2375943	Parathion Methyl	26.7	Spike	P	0 - 29
2375943	PBDE-47	18.5	Spike	P	0 - 36
2375943	PBDE-99	17.1	Spike	P	0 - 40
2375943	Pendimethalin	5.84	Spike	P	0 - 33
2375943	Phenytoin	18.9	Spike	P	0 - 100
2375943	Phorate	31.6	Spike	P	0 - 36
2375943	Prodiamine	9.15	Spike	P	0 - 71
2375943	Prometon	2.56	Spike	P	0 - 36
2375943	Prometryn	17.3	Spike	P	0 - 28
2375943	Pronamide	3.29	Spike	P	0 - 24
2375943	Propanil	21.2	Spike	P	0 - 28
2375943	Propargite	3.46	Spike	P	0 - 43
2375943	Propiconazole	1.04	Spike	P	0 - 33
2375943	Pyraflufen Ethyl	20.2	Spike	P	0 - 29
2375943	Pyridaben	13.9	Spike	P	0 - 30
2375943	Pyriproxyfen	14.0	Spike	P	0 - 79
2375943	Simazine	2.79	Spike	P	0 - 29
2375943	Stirophos	2.79	Spike	P	0 - 61
2375943	Sulfentrazone	8.78	Spike	P	0 - 33
2375943	Tebuconazole	0.717	Spike	P	0 - 69
2375943	Terbufos	28.3	Spike	P	0 - 29
2375943	Terbutylazine	3.43	Spike	P	0 - 32
2375943	Thiobencarb	3.17	Spike	P	0 - 26
2375943	Tri-o-cresyl Phosphate	18.0	Spike	P	0 - 33
2375943	Triadimefon	13.8	Spike	P	0 - 28

Reference Method: EPA 8321B

Batch ID: P423561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375144	Acesulfame K	21.0	Spike	P	0 - 30
2375144	AMPA	0.00724	Spike	P	0 - 30
2375144	Endothall	2.13	Spike	P	0 - 30
2375144	Glufosinate	0.419	Spike	P	0 - 30
2375144	Glyphosate	4.40	Spike	P	0 - 30
2375144	Sucralose	0.765	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P423628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375490	2,4-D	6.37	Spike	P	0 - 30
2375490	2,4,5-T	8.04	Spike	P	0 - 30
2375490	Acetaminophen	3.22	Spike	P	0 - 30
2375490	Acetamiprid	4.61	Spike	P	0 - 30
2375490	Afidopyropen	9.12	Spike	P	0 - 30
2375490	Bentazon	7.20	Spike	P	0 - 30
2375490	Benzovindiflupyr	6.34	Spike	P	0 - 30
2375490	Carbamazepine	3.33	Spike	P	0 - 30
2375490	Clothianidin	2.29	Spike	P	0 - 30
2375490	Dinotefuran	4.92	Spike	P	0 - 30
2375490	Diuron	4.49	Spike	P	0 - 30
2375490	Fenuron	0.949	Spike	P	0 - 30
2375490	Fluridone	3.36	Spike	P	0 - 30
2375490	Hydrocodone	2.16	Spike	P	0 - 30
2375490	Ibuprofen	7.56	Spike	P	0 - 30
2375490	Imazapyr	1.32	Spike	P	0 - 30
2375490	Imidacloprid	0.616	Spike	P	0 - 30
2375490	Linuron	1.69	Spike	P	0 - 30
2375490	Mandestrobin	5.14	Spike	P	0 - 30
2375490	MCP	8.12	Spike	P	0 - 30
2375490	Naproxen	29.0	Spike	P	0 - 30
2375490	Primidone	0.111	Spike	P	0 - 30
2375490	Pyraclostrobin	3.99	Spike	P	0 - 30
2375490	Silvex	11.4	Spike	P	0 - 30
2375490	Thiamethoxam	0.0381	Spike	P	0 - 30
2375490	Tolfenpyrad	16.5	Spike	P	0 - 30
2375490	Triclopyr	17.0	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P423946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375528	Total Alkalinity	0.302	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P424056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375700	TDS	3.36	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P423951

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375528	Fluoride	0.477	Spike	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P423743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375988	Organic Carbon	0.521	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2375941
Field Sample ID: G3SW0086

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.5	P	30 - 160
EPA 8321B	Diuron-d6	78.7	P	30 - 160
EPA 8321B	Endothall-d6	99.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.4	P	30 - 160
EPA 8321B	Primidone-d5	90.2	P	30 - 160
EPA 8321B	Sucralose-d6	57.5	P	30 - 160

Lab Sample ID: 2375943
Field Sample ID: G3SW0086

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	79.3	P	20 - 200
EPA 8270E	Simazine-d10	99.5	P	62 - 142
EPA 8270E	Terbufos-d10	110	P	58 - 132
EPA 8270E	Terphenyl-d14	102	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A116511

Included Lab Sample IDs: 2375935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	98.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A116515

Included Lab Sample IDs: 2375935

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A116518

Included Lab Sample IDs: 2375937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.7	93.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A116536

Included Lab Sample IDs: 2375941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	90.5	89.7	P/P	60 - 160
Sucralose	114	110	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A116538

Included Lab Sample IDs: 2375941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	110	93.6	P/P	60 - 160
Endothall	99.3	96.3	P/P	60 - 160
Glufosinate	106	98.2	P/P	60 - 160
Glyphosate	98.4	100	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A116559

Included Lab Sample IDs: 2375935

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

Reference Method: SM 5310 B-2011

Run ID: A116560

Included Lab Sample IDs: 2375936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.7	98.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A116630

Included Lab Sample IDs: 2375936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A116631

Included Lab Sample IDs: 2375936

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

Reference Method: EPA 8270E

Run ID: A116648

Included Lab Sample IDs: 2375943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120
Avobenzone	109		P	80 - 120
Declorane Plus	101		P	80 - 120
Octinoxate	91.7		P	80 - 120
Oxybenzone	92.3		P	80 - 120
PBDE-47	95.8		P	80 - 120
PBDE-99	99.6		P	80 - 120
Tri-o-cresyl Phosphate	94.8		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A116652

Included Lab Sample IDs: 2375935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.6	98.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A116652

Included Lab Sample IDs: 2375935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	107	108	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A116658

Included Lab Sample IDs: 2375943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.9		P	80 - 120
Alachlor	96.2		P	80 - 120
Atrazine	104		P	80 - 120
Atrazine Desethyl	111		P	80 - 120
Azinphos Methyl	84.7		P	80 - 120
Azoxystrobin	90.3		P	80 - 120
Butylate	99.9		P	80 - 120
Caffeine	98.8		P	80 - 120
Chlorfenapyr	97.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116658
Included Lab Sample IDs: 2375943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	118		P	80 - 120
Chlorpyrifos Methyl	88.4		P	80 - 120
Coumaphos	89.3		P	80 - 120
Cyprodinil	99.3		P	80 - 120
Demeton	87.3		P	80 - 120
Diazinon	90.2		P	80 - 120
Difenoconazole	84.4		P	80 - 120
Dimethomorph	82.6		P	80 - 120
Disulfoton	87.9		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	105		P	80 - 120
Ethion	98.9		P	80 - 120
Ethoprop	119		P	80 - 120
Etridiazole	83.7		P	80 - 120
Fenamiphos	108		P	80 - 120
Fenbuconazole	83.6		P	80 - 120
Fipronil	114		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	113		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	112		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	92.2		P	80 - 120
Fonofos	97.8		P	80 - 120
Imazalil	115		P	80 - 120
Loratadine	86.9		P	80 - 120
Metribuzin	104		P	80 - 120
Molinate	94.5		P	80 - 120
Myclobutanil	95.0		P	80 - 120
Naled	118		P	80 - 120
Napropamide	87.1		P	80 - 120
Oxadiazon	99.6		P	80 - 120
Oxyfluorfen	87.3		P	80 - 120
Parathion Ethyl	93.4		P	80 - 120
Parathion Methyl	81.6		P	80 - 120
Pendimethalin	109		P	80 - 120
Phenytol	115		P	80 - 120
Phorate	119		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	90.1		P	80 - 120
Prometryn	112		P	80 - 120
Pronamide	80.8		P	80 - 120
Propanil	100		P	80 - 120
Propargite	108		P	80 - 120
Propiconazole	117		P	80 - 120
Pyraflufen Ethyl	97.8		P	80 - 120
Pyridaben	81.9		P	80 - 120
Pyriproxyfen	88.3		P	80 - 120
Simazine	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116658
Included Lab Sample IDs: 2375943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stiropfos	102		P	80 - 120
Sulfentrazone	100		P	80 - 120
Tebuconazole	108		P	80 - 120
Terbufos	92.8		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	114		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116679
Included Lab Sample IDs: 2375943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ametryn	103		P	80 - 120
Bromacil	102		P	80 - 120
Carbophenothion	98.0		P	80 - 120
Carfentrazone Ethyl	92.2		P	80 - 120
Cyanazine	97.5		P	80 - 120
Dimethenamid	106		P	80 - 120
Hexazinone	96.6		P	80 - 120
Iprodione	89.6		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	108		P	80 - 120
Mevinphos	93.5		P	80 - 120
Norflurazon	100		P	80 - 120
Terbutylazine	97.3		P	80 - 120

Reference Method: EPA 8321B
Run ID: A116684
Included Lab Sample IDs: 2375941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	105	P/P	50 - 150
2,4,5-T	99.8	107	P/P	50 - 150
Acetaminophen	111	111	P/P	60 - 160
Acetamiprid	100	101	P/P	50 - 150
Afidopyropen	74.0	77.9	P/P	50 - 150
Bentazon	96.6	95.2	P/P	50 - 160
Benzovindiflupyr	114	112	P/P	50 - 150
Carbamazepine	99.8	94.6	P/P	60 - 150
Clothianidin	106	107	P/P	60 - 150
Dinotefuran	106	108	P/P	50 - 150
Diuron	114	107	P/P	60 - 160
Fenuron	100	99.3	P/P	60 - 150
Fluridone	95.3	101	P/P	60 - 160
Hydrocodone	105	100	P/P	60 - 150
Ibuprofen	92.7	103	P/P	50 - 160
Imazapyr	92.0	96.5	P/P	50 - 150
Imidacloprid	93.6	92.4	P/P	60 - 150
Linuron	90.8	94.4	P/P	60 - 150
Mandestrobin	113	106	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A116684
Included Lab Sample IDs: 2375941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MCP	97.1	96.8	P/P	50 - 150
Naproxen	64.1	89.1	P/P	50 - 160
Primidone	96.9	100	P/P	60 - 150
Pyraclostrobin	118	122	P/P	60 - 150
Silvex	101	105	P/P	50 - 150
Thiamethoxam	104	106	P/P	50 - 150
Tolfenpyrad	98.8	95.4	P/P	60 - 150
Triclopyr	95.1	114	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116710
Included Lab Sample IDs: 2375936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.8	95.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116773
Included Lab Sample IDs: 2375936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	98.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A116909
Included Lab Sample IDs: 2375942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.5	92.4	P/P	90 - 110
Iron	95.5	93.3	P/P	90 - 110
Magnesium	96.5	94.0	P/P	90 - 110
Potassium	98.9	96.7	P/P	90 - 110
Sodium	99.8	97.3	P/P	90 - 110
Strontium	94.3	95.6	P/P	90 - 110
Tin	92.5	92.2	P/P	90 - 110
Titanium	94.7	95.1	P/P	90 - 110
Vanadium	93.9	94.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A116924
Included Lab Sample IDs: 2375942

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116933
Included Lab Sample IDs: 2375942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A116933

Included Lab Sample IDs: 2375942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	102	105	P/P	90 - 110
Arsenic	102	103	P/P	90 - 110
Barium	101	102	P/P	90 - 110
Boron	98.1	102	P/P	90 - 110
Cadmium	101	104	P/P	90 - 110
Chromium	97.8	98.4	P/P	90 - 110
Cobalt	100	99.4	P/P	90 - 110
Copper	100	99.8	P/P	90 - 110
Lead	93.5	95.6	P/P	90 - 110
Manganese	98.4	100	P/P	90 - 110
Molybdenum	99.0	101	P/P	90 - 110
Nickel	101	99.8	P/P	90 - 110
Selenium	104	105	P/P	90 - 110
Silver	100	102	P/P	90 - 110
Thallium	101	103	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A116967

Included Lab Sample IDs: 2375942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	98.0	98.8	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)	99.5				1.54	
EPA 180.1 Rev. 2.0	Turbidity	101				11.8	
EPA 200.7 Rev. 4.4	Calcium	96.8	100	98.2	94.5		1.01
	Iron	97.2	98.8	100	98.0		1.23
	Magnesium	98.8	100	102	98.8		1.25
	Potassium	97.4	99.2	99.3	98.5		0.0332
	Sodium	99.5	99.4	100	101		0.501
	Strontium	98.1	98.6	99.0	98.7		0.414
	Tin	94.9	98.1	95.8	92.0		2.33
	Titanium	97.0	99.6	99.1	97.5		0.480
	Vanadium	96.3	98.6	99.3	98.0		0.741
	Zinc	101	101	101	95.4		0.0069
EPA 200.8 Rev. 5.4	Aluminum	99.9	93.4	89.7	94.2		2.90
	Antimony	100	101	101	103		0.186
	Arsenic	100	102	101	101		0.659
	Barium	101	103	103	102		0.101
	Beryllium	94.6	94.8	93.3	95.9		1.52
	Boron	100	102	101	101		1.01
	Cadmium	100	102	102	105		0.0364
	Chromium	94.9	99.0	98.7	98.0		0.354
	Cobalt	99.0	100	101	99.5		0.446
	Copper	98.7	102	101	98.9		0.251
	Lead	92.3	93.4	94.1	93.7		0.749
	Manganese	95.6	99.5	98.2	102		0.881
	Molybdenum	97.3	98.3	98.8	100		0.458
	Nickel	99.2	103	103	99.2		0.280
	Selenium	100	103	105	101		1.25
	Silver	97.8	98.5	100	99.2		1.73
	Thallium	99.8	102	102	102		0.0231
EPA 300.0 Rev. 2.1	Chloride	98.7	101	99.3		0.114	
	Sulfate	98.4	100	98.0		1.26	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	97.4	97.2			0.104
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1	98.8	104			4.38
EPA 353.2 Rev. 2.0	NO2NO3-N	105	108	108			0.0
EPA 365.1 Rev. 2.0	Total-P	103					3.04
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	102	101			0.791
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.5	79.6	86.8			8.66
	Acetochlor	88.5	85.2	89.1			4.53
	Alachlor	79.3	77.6	74.4			4.22
	Ametryn	111	138	143			3.80
	Atrazine	101	113	110			1.82
	Atrazine Desethyl	73.6	65.7	72.0			9.09
	Avobenzone	115	93.3	119			24.4
	Azinphos Methyl	133	145	157			7.69
	Azoxystrobin	101	109	126			14.4
	Bromacil	107					14.5
	Butylate	57.8	55.1	61.3			10.7
	Caffeine	98.8	98.3	97.2			1.08
	Carbophenothion	100	122	122			0.388
	Carfentrazone Ethyl	99.0	108	109			0.720
	Chlorfenapyr	63.5	80.2	80.9			0.885
	Chlorpyrifos Ethyl	83.1	110	120			8.69

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	89.8	86.0	106			20.6
	Coumaphos	225	217	222			2.20
	Cyanazine	264	279	303			8.25
	Cyprodinil	95.2	89.6	105			15.6
	Dechlorane Plus	105	79.5	96.6			19.4
	Demeton	65.0	70.7	79.6			11.9
	Diazinon	91.1	99.6	119			17.5
	Difenoconazole	95.4	192	140			31.6
	Dimethenamid	103	86.3	87.3			1.18
	Dimethomorph	121	109	167			42.2
	Disulfoton	69.3	79.5	81.5			2.53
	Dithiopyr	85.2	91.9	99.7			8.10
	EPTC	47.1	48.7	55.8			13.5
	Ethion	68.8	70.1	83.0			16.8
	Ethoprop	72.7	84.1	112			28.7
	Etridiazole	43.2	47.3	44.6			6.05
	Fenamiphos	103	122	122			0.0097
	Fenbuconazole	99.2	113	131			15.0
	Fipronil	73.9	100	91.2			8.10
	Fipronil Desulfinyl	101	83.7	106			23.5
	Fipronil Sulfide	69.5	99.3	78.4			21.4
	Fipronil Sulfone	99.7	104	117			8.99
	Fluazifop-P-butyl	111	117	130			10.6
	Fludioxonil	114	107	125			15.4
	Flumioxazin	103	205	204			0.675
	Flutolanil	106	123	124			0.696
	Fluxapyroxad	92.4	135	120			12.0
	Fonofos	77.6	89.3	111			22.1
	Hexazinone	97.3	105	116			8.63
	Imazalil	115	111	117			5.31
	Iprodione	130	108	104			4.09
	Loratadine	120	154	161			4.75
	Malathion	86.0	106	111			4.26
	Metalaxyl	115	103	101			1.17
	Metolachlor	99.8	91.9	84.4			5.45
	Metribuzin	96.4	99.0	117			16.3
	Mevinphos	80.0	94.1	102			8.06
	Molinate	57.1	68.9	76.2			10.1
	Myclobutanil	80.2	121	123			1.65
	Naled	111	113	132			15.7
	Napropamide	51.5	63.2	65.9			4.12
	Norflurazon	119					13.3
	Octinoxate	76.2	63.0	77.4			20.6
	Oxadiazon	76.4	88.4	97.3			9.57
	Oxybenzone	71.6	62.2	73.4			16.6
	Oxyfluorfen	74.8	88.6	95.3			7.27
	Parathion Ethyl	93.6	106	111			4.61
	Parathion Methyl	97.7	105	137			26.7
	PBDE-47	76.5	63.8	76.8			18.5
	PBDE-99	80.5	68.3	81.0			17.1
	Pendimethalin	76.9	116	123			5.84
	Phenytol	25.6	72.1	59.6			18.9
	Phorate	68.2	74.0	102			31.6
	Prodiamine	86.5	94.0	104			9.15

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prometon	97.6	112	115			2.56
	Prometryn	89.9	86.9	103			17.3
	Pronamide	76.1	84.3	87.1			3.29
	Propanil	111	99.2	123			21.2
	Propargite	76.2	101	97.9			3.46
	Propiconazole	79.5	106	105			1.04
	Pyraflufen Ethyl	77.6	105	85.9			20.2
	Pyridaben	117	112	128			13.9
	Pyriproxyfen	106	105	120			14.0
	Simazine	91.0	113	117			2.79
	Stirophos	83.4	108	105			2.79
	Sulfentrazone	60.4	147	162			8.78
	Tebuconazole	77.8	93.5	92.8			0.717
	Terbufos	80.7	92.2	123			28.3
	Terbuthylazine	89.9	86.6	89.6			3.43
	Thiobencarb	102	99.0	102			3.17
	Tri-o-cresyl Phosphate	80.8	66.5	79.7			18.0
	Triadimefon	74.2	72.9	63.5			13.8
EPA 8321B	2,4-D	102	108	102			6.37
	2,4,5-T	76.0	80.2	74.0			8.04
	Acesulfame K	74.1	77.0	95.0			21.0
	Acetaminophen	95.1	103	100			3.22
	Acetamiprid	83.1	87.9	83.9			4.61
	Afidopyropen	64.9	64.1	70.2			9.12
	AMPA	106	99.4	99.4			0.0072
	Bentazon	69.1	70.5	75.8			7.20
	Benzovindiflupyr	85.1	93.9	88.2			6.34
	Carbamazepine	81.2	86.2	83.4			3.33
	Clothianidin	93.6	100	103			2.29
	Dinotefuran	95.1	103	97.9			4.92
	Diuron	69.3	79.8	76.3			4.49
	Endothall	97.9	103	100			2.13
	Fenuron	93.5	100	101			0.949
	Fluridone	78.0	78.9	81.6			3.36
	Glufosinate	100	111	110			0.419
	Glyphosate	98.6	97.5	102			4.40
	Hydrocodone	86.3	90.1	92.1			2.16
	Ibuprofen	96.7	99.9	92.6			7.56
	Imazapyr	83.6	90.6	89.4			1.32
	Imidacloprid	85.4	92.5	91.9			0.616
	Linuron	77.2	81.9	80.5			1.69
	Mandestrobin	91.0	94.3	99.3			5.14
	MCPP	102	105	96.5			8.12
	Naproxen	87.6	89.4	66.8			29.0
	Primidone	89.9	95.7	95.6			0.111
	Pyraclostrobin	78.4	88.7	85.3			3.99
	Silvex	82.2	78.6	88.1			11.4
	Sucralose	113	112	110			0.765
	Thiamethoxam	86.6	95.2	95.2			0.0381
	Tolfenpyrad	40.8	50.0	42.3			16.5
	Triclopyr	73.2	87.9	74.1			17.0
SM 2320 B-2011	Total Alkalinity	98.9				0.302	
SM 2540 C-2015	TDS	97.1				3.36	
SM 2540 D-2015	TSS	104					

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500-F- C-2011	Fluoride	102	100	99.5		0.477
SM 5310 B-2011	Organic Carbon	97.8	94.6	95.2		0.521

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2375935
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2375935
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2375942
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2375942
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2375935
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2375935
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2375936
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2375936
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2375936
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2375936
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2375937
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2375943
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2375943
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2375941
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2375935
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2375942
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2375935
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2375935
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2375935
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2375936

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	12/16/2022			12/16/2022 14:48	Alexis Price	2375935
EPA 180.1 Rev. 2.0	12/16/2022			12/16/2022 13:54	Khloe J Berg	2375935
EPA 200.7 Rev. 4.4	12/16/2022	12/19/2022 11:45	George D Taylor	01/13/2023 22:34	McKinley C Carter	2375942
	12/16/2022	12/19/2022 11:45	George D Taylor	01/17/2023 17:09	McKinley C Carter	2375942
EPA 200.8 Rev. 5.4	12/16/2022	12/19/2022 11:45	George D Taylor	01/17/2023 18:04	Emily M Philpot	2375942
	12/16/2022	12/19/2022 11:45	George D Taylor	01/18/2023 14:37	Emily M Philpot	2375942
EPA 300.0 Rev. 2.1	12/16/2022			12/22/2022 17:21	Anna M. Plaviak	2375935
EPA 350.1 Rev. 2.0	12/16/2022			01/06/2023 12:02	Ping Hua	2375936
EPA 351.2 Rev. 2.0	12/16/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/03/2023 12:49	Samantha L Bates	2375936
EPA 353.2 Rev. 2.0	12/16/2022			12/22/2022 10:16	Beverly Y. Sanders	2375936
EPA 365.1 Rev. 2.0	12/16/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 11:42	James L Waggeberby	2375936
EPA 365.1 Rev. 2.0 dissolved	12/16/2022			12/16/2022 15:39	Chandler E Cox	2375937
EPA 8270E	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/22/2022 18:22	Arthur Maknenko	2375943
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/23/2022 16:01	Michael Poppell	2375943
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/28/2022 20:03	Michael Poppell	2375943
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/28/2022 21:23	Michael Poppell	2375943
EPA 8321B	12/16/2022	12/16/2022 12:30	Manjita Shrestha	12/16/2022 15:52	Manjita Shrestha	2375941
	12/16/2022	12/16/2022 12:30	Manjita Shrestha	12/16/2022 23:59	Manjita Shrestha	2375941
	12/16/2022	12/20/2022 08:30	June Rhew	12/20/2022 21:36	Juyoung Kim	2375941
SM 2320 B-2011	12/16/2022			12/23/2022 14:01	Dale L. Simmons	2375935
SM 2340 B-2011	12/16/2022			01/13/2023 22:34	McKinley C Carter	2375942
SM 2540 C-2015	12/16/2022			12/19/2022 16:08	Yijie Li	2375935
SM 2540 D-2015	12/16/2022			12/19/2022 16:08	Yijie Li	2375935
SM 4500-F- C-2011	12/16/2022			12/23/2022 14:01	Dale L. Simmons	2375935
SM 5310 B-2011	12/16/2022			12/19/2022 18:27	Elise M. Gillis	2375936