

Chemical Analysis Report

SE-DIST-2023-09-22-01

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

Event Description: **SMP - LVI - Clay Lake**
Request ID: **RQ-2023-09-11-25**
Customer: **SE-DIST**
Project ID: **SMP**

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

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

Date Certified: 11-OCT-2023 16:48



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: CLAY LAKE NEAR CENTER

Collection Date/Time: 09/21/2023 11:10

Field ID: G4SE0177

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439205	DEP SOP: NU-094-1	Color (true)	8.4		PCU	P435402	
	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P435405	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P435833	
		Sulfate	23		mg SO4/L	P435836	
	SM 2320 B-2011	Total Alkalinity	14		mg CaCO3/L	P435732	
	SM 2540 C-2015	TDS	94		mg/L	P435880	
	SM 2540 D-2015	TSS	4	I	mg/L	P435850	
2439206	SM 4500-F- C-2011	Fluoride	0.046	I	mg F/L	P435735	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P435513	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P435937	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436189	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P435539	
2439207	SM 5310 B-2011	Organic Carbon	6.4		mg C/L	P435757	
2439209	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P435404	
	EPA 8321B	2,4-D	0.018		ug/L	P435439	
		Acesulfame K	0.10	U	ug/L	P435314	
		2,4,5-T	0.0040	U	ug/L	P435439	
		AMPA	0.10	U	ug/L	P435314	
		Acetaminophen	0.0080	U	ug/L	P435439	
		Acetamiprid	0.0020	U	ug/L	P435439	
		Endothall	0.25	U	ug/L	P435314	
		Glufosinate	0.10	U	ug/L	P435314	
		Glyphosate	0.10	U	ug/L	P435314	
		Afidopyropen	0.0020	U	ug/L	P435439	
		Bentazon	0.0025	I	ug/L	P435439	
		Sucralose	0.66		ug/L	P435314	
		Benzovindiflupyr	0.0020	U	ug/L	P435439	
		Carbamazepine	8.0E-04	U	ug/L	P435439	
		Clothianidin	0.0020	U	ug/L	P435439	
		Dinotefuran	0.0020	U	ug/L	P435439	
		Diuron	0.0020	U	ug/L	P435439	
		Fenuron	0.032	U	ug/L	P435439	
		Fluridone	0.0025	I	ug/L	P435439	
		Imazapyr	0.0040	U	ug/L	P435439	
		Hydrocodone	0.0020	U	ug/L	P435439	
		Ibuprofen	0.080	U	ug/L	P435439	
		Imidacloprid	0.0020	U	ug/L	P435439	
		Linuron	0.0040	U	ug/L	P435439	
		Mandestrobin	0.0020	U	ug/L	P435439	
		MCPD	0.0020	U	ug/L	P435439	
		Naproxen	0.0080	U	ug/L	P435439	
		Primidone	0.0049	I	ug/L	P435439	
		Pyraclostrobin	0.0020	U	ug/L	P435439	

Field ID: G4SE0177

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439209	EPA 8321B	Silvex	0.0040	U	ug/L	P435439	
		Thiamethoxam	0.0020	U	ug/L	P435439	
		Tolfenpyrad	0.0020	U	ug/L	P435439	
		Triclopyr	0.0040	U	ug/L	P435439	
2439210	EPA 200.7 Rev. 4.4	Calcium	10.4		mg/L	P435448	
		Iron	30	U	ug/L	P435448	
		Magnesium	4.08		mg/L	P435448	
		Potassium	5.5		mg/L	P435448	
		Sodium	11.2		mg/L	P435448	
		Strontium	117		ug/L	P435448	
		Tin	3.0	U	ug/L	P435448	
		Titanium	0.75	U	ug/L	P435448	
		Vanadium	2.0	U	ug/L	P435448	
		Zinc	5.0	U	ug/L	P435448	
	EPA 200.8 Rev. 5.4	Aluminum	37		ug/L	P435448	
		Antimony	0.084	I	ug/L	P435448	
		Arsenic	3.35		ug/L	P435448	
		Barium	6.14		ug/L	P435448	
		Beryllium	0.010	U	ug/L	P435448	
		Boron	53.1		ug/L	P435448	
		Cadmium	0.020	U	ug/L	P435448	
		Chromium	0.40	U	ug/L	P435448	
		Cobalt	0.057	I	ug/L	P435448	
		Copper	0.92		ug/L	P435448	
		Lead	0.21	I	ug/L	P435448	
		Manganese	10.5		ug/L	P435448	
		Molybdenum	0.62		ug/L	P435448	
		Nickel	0.50	U	ug/L	P435448	
		Selenium	0.20	U	ug/L	P435448	
		Silver	0.010	U	ug/L	P435448	
		Thallium	0.10	U	ug/L	P435448	
		Hardness	42.7		mg/L	P435448	
2439211	SM 2340 B-2011						
	EPA 8270E	Oxybenzone**	10	U	ng/L	P435385	
		Acetochlor	0.21	U	ng/L	P435385	
		Octinoxate**	150	U	ng/L	P435385	
		Alachlor	0.41	U	ng/L	P435385	
		Avobenzone**	100	U	ng/L	P435385	
		Ametryn	1.1	U	ng/L	P435385	
		Atrazine	15		ng/L	P435385	
		PBDE-47**	4.1	U	ng/L	P435385	
		Atrazine Desethyl	6.0	I	ng/L	P435385	
		PBDE-99**	5.1	U	ng/L	P435385	
		Azinphos Methyl	3.1	U	ng/L	P435385	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P435385	
		Azoxystrobin	0.72	I	ng/L	P435385	

Field ID: G4SE0177

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439211	EPA 8270E	Bromacil	2.6	I	ng/L	P435385	
		2-Ethylhexyl	12	U	ng/L	P435385	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P435385	
		Dechlorane Plus**	31	U	ng/L	P435385	
		Caffeine**	7.7	U	ng/L	P435385	
		Dechlorane 602**	5.1	U	ng/L	P435385	
		Carbophenothion	0.51	U	ng/L	P435385	
		Dechlorane 603**	4.1	UJ	ng/L	P435385	LCS
		Carfentrazone Ethyl	0.15	U	ng/L	P435385	
		Hexabromobenzene**	6.2	U	ng/L	P435385	
		Chlorfenapyr	0.31	U	ng/L	P435385	
		PBB-153**	8.2	UJ	ng/L	P435385	LCS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435385	MS
		Pentabromotoluene**	3.1	U	ng/L	P435385	
		Chlorpyrifos Methyl	0.10	U	ng/L	P435385	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P435385	
		Coumaphos	1.1	U	ng/L	P435385	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P435385	
		Cyanazine	5.1	U	ng/L	P435385	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P435385	
		Cyprodinil	0.21	U	ng/L	P435385	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P435385	
		Demeton	3.6	U	ng/L	P435385	
		Diazinon	0.13	UJ	ng/L	P435385	CCV
		Difenoconazole	0.62	U	ng/L	P435385	
		Dimethenamid	0.10	U	ng/L	P435385	
		Dimethomorph	0.31	U	ng/L	P435385	
		Disulfoton	0.62	U	ng/L	P435385	
		Dithiopyr	1.0	U	ng/L	P435385	
		EPTC	0.51	U	ng/L	P435385	
		Ethion	0.31	U	ng/L	P435385	
		Ethoprop	0.13	U	ng/L	P435385	
		Etridiazole	0.10	U	ng/L	P435385	
		Fenamiphos	0.46	U	ng/L	P435385	
		Fenbuconazole	0.51	U	ng/L	P435385	
		Fipronil	0.21	U	ng/L	P435385	
		Fipronil Desulfinyl**	0.31	I	ng/L	P435385	
		Fipronil Sulfide	0.10	U	ng/L	P435385	
		Fipronil Sulfone	0.10	U	ng/L	P435385	
		Fluazifop-P-butyl	0.10	U	ng/L	P435385	
		Fludioxonil	0.10	U	ng/L	P435385	
		Flumioxazin	3.1	U	ng/L	P435385	
		Flutolanil	0.10	U	ng/L	P435385	
		Fluxapyroxad	0.26	UJ	ng/L	P435385	LCS

Field ID: G4SE0177

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439211	EPA 8270E	Fonofos	0.15	U	ng/L	P435385	
		Hexazinone	0.51	U	ng/L	P435385	
		Imazalil	0.67	U	ng/L	P435385	
		Iprodione	0.51	UJ	ng/L	P435385	LCS
		Loratadine**	0.31	U	ng/L	P435385	
		Malathion	0.36	UJ	ng/L	P435385	LCS, MS
		Metalaxyl	2.3	I	ng/L	P435385	
		Metolachlor	0.77	U	ng/L	P435385	
		Metribuzin	0.41	U	ng/L	P435385	
		Mevinphos	1.0	U	ng/L	P435385	
		Molinate	0.26	U	ng/L	P435385	
		Myclobutanil	0.36	U	ng/L	P435385	
		Naled	2.6	U	ng/L	P435385	
		Napropamide	0.72	U	ng/L	P435385	
		Norflurazon	4.7	I	ng/L	P435385	
		Oxadiazon	0.36	U	ng/L	P435385	
		Oxyfluorfen	0.21	U	ng/L	P435385	
		Parathion Ethyl	0.15	U	ng/L	P435385	
		Parathion Methyl	0.21	U	ng/L	P435385	
		Pendimethalin	0.77	U	ng/L	P435385	
		Phenytol**	5.4	U	ng/L	P435385	
		Phorate	0.26	U	ng/L	P435385	
		Prodiamine	0.21	U	ng/L	P435385	
		Prometon	3.1	U	ng/L	P435385	
		Prometryn	0.36	U	ng/L	P435385	
		Pronamide	0.10	U	ng/L	P435385	
		Propanil	0.10	U	ng/L	P435385	
		Propargite	0.82	U	ng/L	P435385	
		Propiconazole	0.62	U	ng/L	P435385	
		Pyraflufen Ethyl	0.31	U	ng/L	P435385	
		Pyridaben	1.4	U	ng/L	P435385	
		Pyriproxyfen	0.26	U	ng/L	P435385	
		Simazine	0.26	U	ng/L	P435385	
		Stiophos	0.41	UJ	ng/L	P435385	LCS, MS
		Sulfentrazone	1.4	UJ	ng/L	P435385	CCV
		Tebuconazole	2.4	I	ng/L	P435385	
		Terbufos	0.21	U	ng/L	P435385	
		Terbuthylazine	0.21	U	ng/L	P435385	
		Thiobencarb	0.51	U	ng/L	P435385	
		Triadimefon	0.15	U	ng/L	P435385	

Ref. Method and Comment:

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

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for bromacil not assessed due to high content of this parameter 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: P435402

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435405

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435448

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: P435448

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: P435833

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: P435836

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435513

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435937

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436189

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435539

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435404

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

Reference Method: EPA 8270E
Batch ID: P435385

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
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435385

Component	Result	Code	Units
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
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	8.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435385

Component	Result	Code	Units
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
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)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B

Batch ID: P435314

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: P435439

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P435439

Component	Result	Code	Units
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: P435732

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

Reference Method: SM 2540 C-2015

Batch ID: P435880

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P435850

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P435735

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P435757

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: P435402

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435405

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	80 - 120
Iron	99.2		P	80 - 120
Magnesium	102		P	80 - 120
Potassium	99.9		P	80 - 120
Sodium	102		P	80 - 120
Strontium	106		P	80 - 120
Tin	104		P	80 - 120
Titanium	102		P	80 - 120
Vanadium	104		P	80 - 120
Zinc	106		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.7		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	102		P	85 - 115
Barium	101		P	85 - 115
Beryllium	96.7		P	85 - 115
Boron	102		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	97.9		P	85 - 115
Cobalt	97.7		P	85 - 115
Copper	98.9		P	85 - 115
Lead	101		P	85 - 115
Manganese	97.6		P	85 - 115
Molybdenum	99.3		P	85 - 115
Nickel	99.3		P	85 - 115
Selenium	100		P	85 - 115
Silver	113		P	85 - 115
Thallium	103		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435833

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435836

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435513

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435937

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436189

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435539

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435404

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

Reference Method: EPA 8270E
Batch ID: P435385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	142		P	42 - 162
Acetochlor	85.2		P	69 - 123
Alachlor	80.3		P	65 - 118
Ametryn	111		P	58 - 141
Atrazine	109		P	73 - 118
Atrazine Desethyl	92.3		P	32 - 125
Avobenzone	184		P	40 - 203
Azinphos Methyl	191		P	36 - 197
Azoxystrobin	118		P	58 - 226
Bromacil	94.6		P	48 - 120
Butylate	51.6		P	27 - 85.0
Caffeine	122		P	40 - 137
Carbophenothion	104		P	54 - 132
Carfentrazone Ethyl	122		P	60 - 142
Chlorfenapyr	106		P	53 - 117
Chlorpyrifos Ethyl	74.3		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	108		P	66 - 119
Coumaphos	172		P	11 - 234
Cyanazine	141		P	61 - 248
Cyprodinil	80.9		P	50 - 147
Dechlorane 602	96.1		P	50 - 150
Dechlorane 603	159		F	50 - 150
Dechlorane Plus	170		P	47 - 182
Demeton	97.4		P	30 - 138
Diazinon	115		P	67 - 126
Difenoconazole	179		P	38 - 205
Dimethenamid	85.8		P	57 - 111
Dimethomorph	127		P	16 - 212
Disulfoton	92.7		P	46 - 126
Dithiopyr	89.4		P	62 - 115
EPTC	47.0		P	28 - 80.0
Ethion	73.3		P	24 - 122
Ethoprop	110		P	62 - 113
Etridiazole	45.5		P	28 - 92.0
Fenamiphos	105		P	57 - 128
Fenbuconazole	96.2		P	52 - 155
Fipronil	79.6		P	63 - 130
Fipronil Desulfinyl	86.9		P	61 - 130
Fipronil Sulfide	83.2		P	56 - 117
Fipronil Sulfone	77.1		P	52 - 118
Fluazifop-P-butyl	96.6		P	61 - 128
Fludioxonil	77.6		P	59 - 129
Flumioxazin	201		P	30 - 250
Flutolanil	80.4		P	53 - 127
Fluxapyroxad	187		F	42 - 132
Fonofos	104		P	61 - 110
Hexabromobenzene	122		P	50 - 150
Hexazinone	110		P	46 - 139
Imazalil	80.7		P	40 - 139
Iprodione	240		F	40 - 146
Loratadine	169		P	10 - 224
Malathion	155		F	61 - 135
Metalaxyl	88.3		P	58 - 121
Metolachlor	90.3		P	64 - 118
Metribuzin	106		P	45 - 245
Mevinphos	94.3		P	49 - 118
Molinate	71.0		P	42 - 92.0
Myclobutanil	79.1		P	55 - 127
Naled	38.7		P	10 - 114
Napropamide	79.1		P	39 - 121
Norflurazon	86.4		P	55 - 129
Octinoxate	135		P	26 - 166
Oxadiazon	77.5		P	54 - 115
Oxybenzone	134		P	49 - 135
Oxyfluorfen	119		P	64 - 139
Parathion Ethyl	107		P	70 - 111
Parathion Methyl	127		P	76 - 136
PBB-153	152		F	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	109		P	41 - 148
PBDE-99	111		P	38 - 147
Pendimethalin	93.2		P	52 - 118
Pentabromotoluene	118		P	50 - 150
Phenytoin	76.0		P	10 - 162
Phorate	69.3		P	40 - 122
Prodiamine	39.0		P	26 - 141
Prometon	104		P	54 - 122
Prometryn	80.7		P	61 - 128
Pronamide	106		P	72 - 121
Propanil	87.6		P	45 - 144
Propargite	104		P	10 - 199
Propiconazole	87.5		P	56 - 127
Pyraflufen Ethyl	98.2		P	56 - 140
Pyridaben	129		P	26 - 211
Pyriproxyfen	104		P	33 - 194
Simazine	99.7		P	67 - 121
Stirophos	166		F	20 - 142
Sulfentrazone	83.8		P	21 - 144
Tebuconazole	70.1		P	10 - 122
Terbufos	127		P	60 - 129
Terbutylazine	97.3		P	69 - 113
Tetradecachloro-m-terphenyl	147		P	70 - 200
Thiobencarb	89.2		P	51 - 120
Tri-o-cresyl Phosphate	145		P	49 - 150
Triadimefon	92.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	139		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	130		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	138		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P435314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	118		P	40 - 150
AMPA	92.1		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	114		P	40 - 150
Glyphosate	90.4		P	40 - 150
Sucralose	88.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435439

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.0		P	40 - 150
2,4,5-T	108		P	40 - 150
Acetaminophen	88.7		P	30 - 150
Acetamiprid	89.8		P	40 - 150
Afidopyropen	66.8		P	30 - 150
Bentazon	91.2		P	30 - 150
Benzovindiflupyr	86.6		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P435439

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	86.7		P	40 - 150
Clothianidin	92.4		P	40 - 150
Dinotefuran	96.6		P	40 - 150
Diuron	79.0		P	40 - 150
Fenuron	90.6		P	40 - 150
Fluridone	93.9		P	40 - 150
Hydrocodone	94.6		P	40 - 150
Ibuprofen	63.6		P	40 - 150
Imazapyr	76.1		P	40 - 150
Imidacloprid	87.8		P	40 - 150
Linuron	67.3		P	40 - 150
Mandestrobin	91.4		P	40 - 150
MCPP	120		P	40 - 150
Naproxen	63.5		P	40 - 150
Primidone	77.6		P	40 - 150
Pyraclostrobin	85.7		P	40 - 150
Silvex	96.7		P	40 - 150
Thiamethoxam	95.5		P	40 - 150
Tolfenpyrad	55.4		P	30 - 150
Triclopyr	109		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P435732

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.8		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P435880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	91.8		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P435850

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.1		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P435735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P435757

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439134	Calcium	101		P	80 - 120
2439134	Iron	100	99.4	P/P	80 - 120
2439134	Magnesium	99.6		P	80 - 120
2439134	Potassium	100	101	P/P	80 - 120
2439134	Sodium	102		P	80 - 120
2439134	Strontium	105	106	P/P	80 - 120
2439134	Tin	101	102	P/P	80 - 120
2439134	Titanium	104	106	P/P	80 - 120
2439134	Vanadium	106	106	P/P	80 - 120
2439134	Zinc	106	107	P/P	80 - 120
2439159	Calcium	104		P	80 - 120
2439159	Iron	101		P	80 - 120
2439159	Magnesium	104		P	80 - 120
2439159	Potassium	103		P	80 - 120
2439159	Sodium	106		P	80 - 120
2439159	Strontium	106		P	80 - 120
2439159	Tin	106		P	80 - 120
2439159	Titanium	106		P	80 - 120
2439159	Vanadium	108		P	80 - 120
2439159	Zinc	108		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439134	Aluminum	97.9	99.0	P/P	80 - 120
2439134	Antimony	103	103	P/P	80 - 120
2439134	Arsenic	102	103	P/P	80 - 120
2439134	Barium	102	102	P/P	80 - 120
2439134	Beryllium	97.2	95.2	P/P	80 - 120
2439134	Boron	105	106	P/P	80 - 120
2439134	Cadmium	102	105	P/P	80 - 120
2439134	Chromium	97.6	99.2	P/P	80 - 120
2439134	Cobalt	94.3	95.4	P/P	80 - 120
2439134	Copper	95.4	96.4	P/P	80 - 120
2439134	Lead	102	102	P/P	80 - 120
2439134	Manganese	89.7	98.4	P/P	80 - 120
2439134	Molybdenum	103	103	P/P	80 - 120
2439134	Nickel	96.6	96.8	P/P	80 - 120
2439134	Selenium	101	102	P/P	80 - 120
2439134	Silver	114	114	P/P	80 - 120
2439134	Thallium	105	106	P/P	80 - 120
2439159	Aluminum	102		P	80 - 120
2439159	Antimony	102		P	80 - 120
2439159	Arsenic	101		P	80 - 120
2439159	Barium	101		P	80 - 120
2439159	Beryllium	94.9		P	80 - 120
2439159	Boron	113		P	80 - 120
2439159	Cadmium	105		P	80 - 120
2439159	Chromium	104		P	80 - 120
2439159	Cobalt	96.9		P	80 - 120
2439159	Copper	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439159	Lead	104		P	80 - 120
2439159	Manganese	96.5		P	80 - 120
2439159	Molybdenum	101		P	80 - 120
2439159	Nickel	102		P	80 - 120
2439159	Selenium	101		P	80 - 120
2439159	Silver	115		P	80 - 120
2439159	Thallium	106		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435833

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439768	Chloride	101		P	90 - 110
2439794	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439768	Sulfate	103		P	90 - 110
2439794	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435513

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439123	Ammonia-N	97.2	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439752	Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437482	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435539

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439291	Total-P	108	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439207	O-Phosphate-P	100	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438596	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	131	120	P/P	26 - 165
2438596	Acetochlor	93.9	83.0	P/P	67 - 124
2438596	Alachlor	75.9	70.9	P/P	60 - 120
2438596	Ametryn	116	134	P/P	54 - 216
2438596	Atrazine	106	104	P/P	66 - 128
2438596	Atrazine Desethyl	97.3	100	P/P	15 - 122
2438596	Avobenzone	156	170	P/P	37 - 178
2438596	Azinphos Methyl	220	200	P/P	40 - 292
2438596	Azoxystrobin	151	120	P/P	35 - 220
2438596	Butylate	54.5	65.3	P/P	20 - 83.0
2438596	Caffeine	139	136	P/P	10 - 194
2438596	Carbophenothion	122	95.5	P/P	57 - 127
2438596	Carfentrazone Ethyl	140	112	P/P	51 - 141
2438596	Chlorfenapyr	106	91.0	P/P	46 - 111
2438596	Chlorpyrifos Ethyl	123	110	F/P	52 - 120
2438596	Chlorpyrifos Methyl	118	96.8	P/P	63 - 119
2438596	Coumaphos	178	202	P/P	10 - 228
2438596	Cyanazine	159	126	P/P	59 - 241
2438596	Cyprodinil	114	73.3	P/P	47 - 146
2438596	Dechlorane 602	75.0	63.1	P/P	50 - 150
2438596	Dechlorane 603	149	139	P/P	50 - 150
2438596	Dechlorane Plus	146	148	P/P	50 - 150
2438596	Demeton	84.0	91.6	P/P	40 - 136
2438596	Diazinon	108	110	P/P	69 - 132
2438596	Difenoconazole	170	171	P/P	57 - 258
2438596	Dimethenamid	94.8	82.3	P/P	54 - 110
2438596	Dimethomorph	189	146	P/P	28 - 210
2438596	Disulfoton	102	77.7	P/P	43 - 133
2438596	Dithiopyr	96.7	90.6	P/P	39 - 116
2438596	EPTC	50.3	65.0	P/P	20 - 78.0
2438596	Ethion	55.8	62.0	P/P	17 - 119
2438596	Ethoprop	116	119	P/P	66 - 120
2438596	Etridiazole	62.8	55.0	P/P	28 - 96.0
2438596	Fenamiphos	85.4	87.0	P/P	41 - 126
2438596	Fenbuconazole	96.1	80.8	P/P	42 - 169
2438596	Fipronil	100	81.3	P/P	61 - 132
2438596	Fipronil Desulfinyl	124	73.0	P/P	56 - 132
2438596	Fipronil Sulfide	110	65.6	P/P	48 - 119
2438596	Fipronil Sulfone	120	62.6	P/P	42 - 131
2438596	Fluazifop-P-butyl	106	88.3	P/P	53 - 131
2438596	Fludioxonil	118	93.5	P/P	56 - 127
2438596	Flumioxazin	199	174	P/P	19 - 300
2438596	Flutolanil	65.7	60.3	P/P	41 - 127
2438596	Fluxapyroxad	155	148	P/P	42 - 172
2438596	Fonofos	106	96.8	P/P	59 - 113
2438596	Hexabromobenzene	122	118	P/P	50 - 150
2438596	Hexazinone	106	109	P/P	66 - 122
2438596	Imazalil	78.7	74.7	P/P	21 - 283
2438596	Iprodione	92.2	90.1	P/P	43 - 150
2438596	Loratadine	193	183	P/P	23 - 201
2438596	Malathion	167	144	F/F	58 - 136
2438596	Metalaxyl	93.6	80.4	P/P	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438596	Metolachlor	99.8	90.0	P/P	57 - 121
2438596	Metribuzin	111	101	P/P	58 - 294
2438596	Mevinphos	118	100	P/P	50 - 126
2438596	Molinate	61.9	70.6	P/P	42 - 93.0
2438596	Myclobutanil	95.0	73.8	P/P	55 - 125
2438596	Naled	53.3	51.4	P/P	18 - 200
2438596	Napropamide	81.3	76.6	P/P	39 - 110
2438596	Norflurazon	105	77.6	P/P	48 - 128
2438596	Octinoxate	129	127	P/P	21 - 159
2438596	Oxadiazon	90.5	79.1	P/P	43 - 112
2438596	Oxybenzone	133	126	P/P	41 - 142
2438596	Oxyfluorfen	134	101	P/P	64 - 153
2438596	Parathion Ethyl	106	102	P/P	69 - 114
2438596	Parathion Methyl	137	119	P/P	79 - 139
2438596	PBB-153	143	125	P/P	50 - 150
2438596	PBDE-47	95.1	89.2	P/P	27 - 144
2438596	PBDE-99	95.2	84.1	P/P	18 - 150
2438596	Pendimethalin	109	95.9	P/P	50 - 139
2438596	Pentabromotoluene	111	114	P/P	50 - 150
2438596	Phenytoin	56.6	65.2	P/P	10 - 146
2438596	Phorate	70.4	75.6	P/P	54 - 161
2438596	Prodiamine	55.0	58.7	P/P	30 - 161
2438596	Prometon	74.1	93.3	P/P	45 - 134
2438596	Prometryn	90.2	84.2	P/P	45 - 137
2438596	Pronamide	108	102	P/P	65 - 133
2438596	Propanil	107	81.3	P/P	49 - 142
2438596	Propargite	82.5	78.4	P/P	10 - 203
2438596	Propiconazole	93.3	73.7	P/P	38 - 146
2438596	Pyraflufen Ethyl	117	98.5	P/P	34 - 153
2438596	Pyridaben	159	129	P/P	12 - 192
2438596	Pyriproxyfen	99.4	85.9	P/P	33 - 180
2438596	Simazine	102	101	P/P	51 - 157
2438596	Stiropfos	147	140	F/F	10 - 128
2438596	Sulfentrazone	55.6	92.4	P/P	53 - 186
2438596	Tebuconazole	54.1	55.4	P/P	10 - 133
2438596	Terbufos	129	115	P/P	65 - 139
2438596	Terbuthylazine	91.8	91.3	P/P	66 - 117
2438596	Tetradecachloro-m-terphenyl	121	154	P/P	70 - 200
2438596	Thiobencarb	94.3	88.6	P/P	51 - 119
2438596	Tri-o-cresyl Phosphate	139	129	P/P	31 - 144
2438596	Triadimefon	87.5	76.5	P/P	48 - 119
2438596	Tris(1-chloro-2-propyl) phosphate (TCPP)	139	134	P/P	50 - 150
2438596	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	125	123	P/P	50 - 150
2438596	Tris(2-chloroethyl) phosphate (TCEP)	127	121	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P435314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438929	Acesulfame K	131	133	P/P	40 - 150
2438929	AMPA	82.0	80.3	P/P	40 - 150
2438929	Endothall	121	124	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P435314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438929	Glufosinate	95.1	96.2	P/P	40 - 150
2438929	Glyphosate	73.9	78.4	P/P	40 - 150
2438929	Sucralose	92.8	97.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435439

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438930	2,4,5-T	114	104	P/P	40 - 150
2438930	Acetaminophen	58.5	58.6	P/P	30 - 150
2438930	Acetamiprid	66.0	62.2	P/P	40 - 150
2438930	Afidopyropen	91.8	79.4	P/P	30 - 150
2438930	Bentazon	33.3	31.8	P/P	30 - 150
2438930	Benzovindiflupyr	90.2	95.9	P/P	40 - 150
2438930	Carbamazepine	63.8	64.1	P/P	40 - 150
2438930	Clothianidin	58.7	57.7	P/P	40 - 150
2438930	Dinotefuran	47.8	48.2	P/P	40 - 150
2438930	Diuron	57.7	57.4	P/P	40 - 150
2438930	Fenuron	41.6	41.4	P/P	40 - 150
2438930	Fluridone	79.3	75.7	P/P	40 - 150
2438930	Hydrocodone	49.2	48.3	P/P	40 - 150
2438930	Ibuprofen	66.5	65.4	P/P	40 - 150
2438930	Imazapyr	93.7	84.7	P/P	40 - 150
2438930	Imidacloprid	95.4	93.6	P/P	40 - 150
2438930	Linuron	64.8	69.3	P/P	40 - 150
2438930	Mandestrobin	89.1	90.1	P/P	40 - 150
2438930	MCPP	108	110	P/P	40 - 150
2438930	Naproxen	70.0	76.1	P/P	40 - 150
2438930	Primidone	58.3	63.7	P/P	40 - 150
2438930	Pyraclostrobin	93.7	93.5	P/P	40 - 150
2438930	Silvex	89.1	90.4	P/P	40 - 150
2438930	Thiamethoxam	57.0	54.0	P/P	40 - 150
2438930	Tolfenpyrad	59.8	63.0	P/P	30 - 150
2438930	Triclopyr	111	109	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P435735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439769	Fluoride	103	102	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435757

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439027	Organic Carbon	98.6		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439177	Color (true)	12.7	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439148	Turbidity	1.50	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439134	Calcium	0.131	Spike	P	0 - 20
2439134	Iron	0.857	Spike	P	0 - 20
2439134	Magnesium	1.11	Spike	P	0 - 20
2439134	Potassium	0.757	Spike	P	0 - 20
2439134	Sodium	0.753	Spike	P	0 - 20
2439134	Strontium	0.644	Spike	P	0 - 20
2439134	Tin	0.651	Spike	P	0 - 20
2439134	Titanium	1.43	Spike	P	0 - 20
2439134	Vanadium	0.000215	Spike	P	0 - 20
2439134	Zinc	1.12	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439134	Aluminum	1.14	Spike	P	0 - 20
2439134	Antimony	0.0716	Spike	P	0 - 20
2439134	Arsenic	1.06	Spike	P	0 - 20
2439134	Barium	0.258	Spike	P	0 - 20
2439134	Beryllium	2.14	Spike	P	0 - 20
2439134	Boron	1.12	Spike	P	0 - 20
2439134	Cadmium	2.75	Spike	P	0 - 20
2439134	Chromium	1.66	Spike	P	0 - 20
2439134	Cobalt	1.19	Spike	P	0 - 20
2439134	Copper	1.09	Spike	P	0 - 20
2439134	Lead	0.265	Spike	P	0 - 20
2439134	Manganese	3.21	Spike	P	0 - 20
2439134	Molybdenum	0.206	Spike	P	0 - 20
2439134	Nickel	0.211	Spike	P	0 - 20
2439134	Selenium	1.03	Spike	P	0 - 20
2439134	Silver	0.547	Spike	P	0 - 20
2439134	Thallium	0.616	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439768	Chloride	0.484	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439768	Sulfate	0.773	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435513

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439123	Ammonia-N	0.192	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439752	Kjeldahl Nitrogen	0.678	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437482	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439291	Total-P	0.158	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439207	O-Phosphate-P	0.299	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P435385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438596	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.81	Spike	P	0 - 37
2438596	Acetochlor	12.4	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438596	Alachlor	6.82	Spike	P	0 - 30
2438596	Ametryn	14.6	Spike	P	0 - 32
2438596	Atrazine	1.42	Spike	P	0 - 41
2438596	Atrazine Desethyl	3.12	Spike	P	0 - 36
2438596	Avobenzone	8.03	Spike	P	0 - 36
2438596	Azinphos Methyl	9.16	Spike	P	0 - 75
2438596	Azoxystrobin	16.2	Spike	P	0 - 39
2438596	Bromacil	32.5	Spike	P	0 - 33
2438596	Butylate	18.0	Spike	P	0 - 44
2438596	Caffeine	2.00	Spike	P	0 - 74
2438596	Carbophenothion	24.0	Spike	P	0 - 25
2438596	Carfentrazone Ethyl	22.5	Spike	P	0 - 27
2438596	Chlorfenapyr	15.0	Spike	P	0 - 24
2438596	Chlorpyrifos Ethyl	10.9	Spike	P	0 - 26
2438596	Chlorpyrifos Methyl	20.0	Spike	P	0 - 26
2438596	Coumaphos	12.8	Spike	P	0 - 28
2438596	Cyanazine	23.4	Spike	P	0 - 48
2438596	Cyprodinil	23.8	Spike	P	0 - 29
2438596	Dechlorane 602	17.2	Spike	P	0 - 30
2438596	Dechlorane 603	7.17	Spike	P	0 - 30
2438596	Dechlorane Plus	1.88	Spike	P	0 - 30
2438596	Demeton	8.66	Spike	P	0 - 33
2438596	Diazinon	1.46	Spike	P	0 - 29
2438596	Difenoconazole	0.756	Spike	P	0 - 34
2438596	Dimethenamid	14.0	Spike	P	0 - 39
2438596	Dimethomorph	25.6	Spike	P	0 - 51
2438596	Disulfoton	26.8	Spike	P	0 - 30
2438596	Dithiopyr	6.50	Spike	P	0 - 26
2438596	EPTC	25.6	Spike	P	0 - 43
2438596	Ethion	10.6	Spike	P	0 - 79
2438596	Ethoprop	2.51	Spike	P	0 - 29
2438596	Etridiazole	13.2	Spike	P	0 - 33
2438596	Fenamiphos	1.86	Spike	P	0 - 40
2438596	Fenbuconazole	17.4	Spike	P	0 - 74
2438596	Fipronil	20.0	Spike	P	0 - 29
2438596	Fipronil Desulfinyl	28.3	Spike	P	0 - 32
2438596	Fipronil Sulfide	21.9	Spike	P	0 - 30
2438596	Fipronil Sulfone	26.5	Spike	P	0 - 33
2438596	Fluazifop-P-butyl	18.5	Spike	P	0 - 38
2438596	Fludioxonil	6.70	Spike	P	0 - 29
2438596	Flumioxazin	13.7	Spike	P	0 - 51
2438596	Flutolanil	7.50	Spike	P	0 - 25
2438596	Fluxapyroxad	1.54	Spike	P	0 - 45
2438596	Fonofos	9.27	Spike	P	0 - 27
2438596	Hexabromobenzene	2.91	Spike	P	0 - 30
2438596	Hexazinone	3.12	Spike	P	0 - 30
2438596	Imazalil	5.20	Spike	P	0 - 100
2438596	Iprodione	2.34	Spike	P	0 - 33
2438596	Loratadine	5.50	Spike	P	0 - 56
2438596	Malathion	14.5	Spike	P	0 - 37
2438596	Metalaxyl	11.9	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438596	Metolachlor	10.3	Spike	P	0 - 29
2438596	Metribuzin	9.06	Spike	P	0 - 45
2438596	Mevinphos	16.2	Spike	P	0 - 29
2438596	Molinate	13.0	Spike	P	0 - 33
2438596	Myclobutanil	9.96	Spike	P	0 - 26
2438596	Naled	3.64	Spike	P	0 - 37
2438596	Napropamide	6.01	Spike	P	0 - 44
2438596	Norflurazon	24.5	Spike	P	0 - 30
2438596	Octinoxate	1.94	Spike	P	0 - 45
2438596	Oxadiazon	13.3	Spike	P	0 - 28
2438596	Oxybenzone	5.72	Spike	P	0 - 46
2438596	Oxyfluorfen	19.7	Spike	P	0 - 28
2438596	Parathion Ethyl	4.09	Spike	P	0 - 31
2438596	Parathion Methyl	13.6	Spike	P	0 - 29
2438596	PBB-153	13.4	Spike	P	0 - 30
2438596	PBDE-47	6.45	Spike	P	0 - 36
2438596	PBDE-99	12.3	Spike	P	0 - 40
2438596	Pendimethalin	13.2	Spike	P	0 - 33
2438596	Pentabromotoluene	2.28	Spike	P	0 - 30
2438596	Phenytoin	14.2	Spike	P	0 - 100
2438596	Phorate	7.16	Spike	P	0 - 36
2438596	Prodiamine	4.67	Spike	P	0 - 71
2438596	Prometon	22.9	Spike	P	0 - 36
2438596	Prometryn	6.84	Spike	P	0 - 28
2438596	Pronamide	6.41	Spike	P	0 - 24
2438596	Propanil	27.6	Spike	P	0 - 28
2438596	Propargite	5.21	Spike	P	0 - 43
2438596	Propiconazole	18.1	Spike	P	0 - 33
2438596	Pyraflufen Ethyl	16.9	Spike	P	0 - 29
2438596	Pyridaben	20.6	Spike	P	0 - 30
2438596	Pyriproxyfen	14.6	Spike	P	0 - 79
2438596	Simazine	1.48	Spike	P	0 - 29
2438596	Stirophos	4.61	Spike	P	0 - 61
2438596	Sulfentrazone	28.2	Spike	P	0 - 33
2438596	Tebuconazole	2.28	Spike	P	0 - 69
2438596	Terbufos	11.1	Spike	P	0 - 29
2438596	Terbuthylazine	0.556	Spike	P	0 - 32
2438596	Tetradecachloro-m-terphenyl	24.2	Spike	P	0 - 30
2438596	Thiobencarb	6.22	Spike	P	0 - 26
2438596	Tri-o-cresyl Phosphate	7.61	Spike	P	0 - 33
2438596	Triadimefon	13.4	Spike	P	0 - 28
2438596	Tris(1-chloro-2-propyl) phosphate (TCPP)	3.90	Spike	P	0 - 30
2438596	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.12	Spike	P	0 - 30
2438596	Tris(2-chloroethyl) phosphate (TCEP)	4.23	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438929	Acesulfame K	1.10	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P435314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438929	AMPA	2.11	Spike	P	0 - 30
2438929	Endothall	2.62	Spike	P	0 - 30
2438929	Glufosinate	1.16	Spike	P	0 - 30
2438929	Glyphosate	6.03	Spike	P	0 - 30
2438929	Sucralose	3.66	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435439

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438930	2,4-D	1.44	Spike	P	0 - 30
2438930	2,4,5-T	8.93	Spike	P	0 - 30
2438930	Acetaminophen	0.161	Spike	P	0 - 30
2438930	Acetamiprid	5.93	Spike	P	0 - 30
2438930	Afidopyropen	14.4	Spike	P	0 - 30
2438930	Bentazon	4.44	Spike	P	0 - 30
2438930	Benzovindiflupyr	6.11	Spike	P	0 - 30
2438930	Carbamazepine	0.388	Spike	P	0 - 30
2438930	Clothianidin	1.69	Spike	P	0 - 30
2438930	Dinotefuran	0.822	Spike	P	0 - 30
2438930	Diuron	0.486	Spike	P	0 - 30
2438930	Fenuron	0.486	Spike	P	0 - 30
2438930	Fluridone	4.68	Spike	P	0 - 30
2438930	Hydrocodone	1.91	Spike	P	0 - 30
2438930	Ibuprofen	1.73	Spike	P	0 - 30
2438930	Imazapyr	6.63	Spike	P	0 - 30
2438930	Imidacloprid	1.88	Spike	P	0 - 30
2438930	Linuron	6.77	Spike	P	0 - 30
2438930	Mandestrobin	1.16	Spike	P	0 - 30
2438930	MCPP	2.17	Spike	P	0 - 30
2438930	Naproxen	8.41	Spike	P	0 - 30
2438930	Primidone	8.77	Spike	P	0 - 30
2438930	Pyraclostrobin	0.193	Spike	P	0 - 30
2438930	Silvex	1.46	Spike	P	0 - 30
2438930	Thiamethoxam	5.33	Spike	P	0 - 30
2438930	Tolfenpyrad	5.29	Spike	P	0 - 30
2438930	Triclopyr	2.14	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439769	Total Alkalinity	0.0418	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435880

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

Reference Method: SM 2540 C-2015
Batch ID: P435880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439024	TDS	8.12	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439769	Fluoride	0.516	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439027	Organic Carbon	0.0616	Sample	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2439209
Field Sample ID: G4SE0177

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.9	P	30 - 160
EPA 8321B	Diuron-d6	57.8	P	30 - 160
EPA 8321B	Endothall-d6	147	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.4	P	30 - 160
EPA 8321B	Primidone-d5	65.5	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2439211
Field Sample ID: G4SE0177

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	50.8	P	20 - 200
EPA 8270E	Simazine-d10	93.6	P	62 - 142
EPA 8270E	Terbufos-d10	95.2	P	58 - 132
EPA 8270E	Terphenyl-d14	88.6	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121726

Included Lab Sample IDs: 2439205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121727

Included Lab Sample IDs: 2439207

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121728

Included Lab Sample IDs: 2439205

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121764

Included Lab Sample IDs: 2439206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.9	98.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121765

Included Lab Sample IDs: 2439209

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	114	P/P	60 - 160
Endothall	117	101	P/P	60 - 160
Glufosinate	110	115	P/P	60 - 160
Glyphosate	93.0	104	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121768

Included Lab Sample IDs: 2439209

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	129	132	P/P	60 - 160
Sucralose	104	90.7	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121771

Included Lab Sample IDs: 2439205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.4	97.5	P/P	90 - 110
Sulfate	99.2	99.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121777

Included Lab Sample IDs: 2439210

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	90.8	91.6	P/P	90 - 110
Arsenic	93.2	93.0	P/P	90 - 110
Barium	91.3	91.1	P/P	90 - 110
Boron	99.8	94.5	P/P	90 - 110
Cadmium	93.7	94.3	P/P	90 - 110
Chromium	97.2	94.4	P/P	90 - 110
Lead	93.4	93.5	P/P	90 - 110
Molybdenum	93.2	92.9	P/P	90 - 110
Nickel	93.8	91.7	P/P	90 - 110
Selenium	94.0	91.6	P/P	90 - 110
Silver	95.2	95.5	P/P	90 - 110
Thallium	93.1	92.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121784

Included Lab Sample IDs: 2439209

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	94.2	93.5	P/P	50 - 150
2,4,5-T	87.8	81.2	P/P	50 - 150
Acetaminophen	121	118	P/P	60 - 160
Acetamiprid	112	114	P/P	50 - 150
Afidopyropen	110	108	P/P	50 - 150
Bentazon	139	114	P/P	50 - 160
Benzovindiflupyr	108	109	P/P	50 - 150
Carbamazepine	105	106	P/P	60 - 150
Clothianidin	109	109	P/P	60 - 150
Dinotefuran	115	111	P/P	50 - 150
Diuron	115	110	P/P	60 - 160
Fenuron	110	110	P/P	60 - 150
Fluridone	127	118	P/P	60 - 160
Hydrocodone	119	116	P/P	60 - 150
Ibuprofen	76.7	87.6	P/P	50 - 160
Imazapyr	95.6	91.9	P/P	50 - 150
Imidacloprid	99.5	99.7	P/P	60 - 150
Linuron	116	107	P/P	60 - 150
Mandestrobin	114	115	P/P	50 - 150
MCPP	82.2	93.2	P/P	50 - 150
Naproxen	86.2	147	P/P	50 - 160
Primidone	98.6	97.2	P/P	60 - 150
Pyraclostrobin	114	118	P/P	60 - 150
Silvex	104	91.2	P/P	50 - 150
Thiamethoxam	120	119	P/P	50 - 150
Tolfenpyrad	107	107	P/P	60 - 150
Triclopyr	96.0	81.7	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121804

Included Lab Sample IDs: 2439210

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121804

Included Lab Sample IDs: 2439210

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	94.6	95.0	P/P	90 - 110
Beryllium	92.6	91.8	P/P	90 - 110
Cobalt	91.0	91.8	P/P	90 - 110
Copper	91.2	92.4	P/P	90 - 110
Manganese	91.1	92.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121807

Included Lab Sample IDs: 2439210

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Iron	98.7	98.2	P/P	90 - 110
Magnesium	100	100	P/P	90 - 110
Potassium	100	101	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Strontium	102	101	P/P	90 - 110
Tin	102	101	P/P	90 - 110
Titanium	102	101	P/P	90 - 110
Vanadium	102	101	P/P	90 - 110
Zinc	102	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121808

Included Lab Sample IDs: 2439211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.1		P	80 - 120
Avobenzone	96.4		P	80 - 120
Dechlorane 602	98.4		P	80 - 120
Dechlorane 603	102		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	90.4		P	80 - 120
Octinoxate	92.4		P	80 - 120
Oxybenzone	96.1		P	80 - 120
PBB-153	92.8		P	80 - 120
PBDE-47	91.9		P	80 - 120
PBDE-99	86.0		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	97.3		P	80 - 120
Tri-o-cresyl Phosphate	95.0		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	100		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	104		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121830

Included Lab Sample IDs: 2439206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A121844

Included Lab Sample IDs: 2439205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.0	95.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121844

Included Lab Sample IDs: 2439205

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

Reference Method: SM 5310 B-2011

Run ID: A121855

Included Lab Sample IDs: 2439206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	96.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121936

Included Lab Sample IDs: 2439211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	106		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	99.1		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	112		P	80 - 120
Azinphos Methyl	94.1		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	95.6		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	97.1		P	80 - 120
Chlorfenapyr	107		P	80 - 120
Chlorpyrifos Ethyl	97.0		P	80 - 120
Chlorpyrifos Methyl	108		P	80 - 120
Coumaphos	92.9		P	80 - 120
Cyanazine	114		P	80 - 120
Cyprodinil	97.6		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	127*		F	80 - 120
Difenoconazole	92.2		P	80 - 120
Dimethenamid	111		P	80 - 120
Dimethomorph	110		P	80 - 120
Disulfoton	108		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	109		P	80 - 120
Ethion	114		P	80 - 120
Ethoprop	97.4		P	80 - 120
Etridiazole	107		P	80 - 120
Fenamiphos	93.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A121936
 Included Lab Sample IDs: 2439211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenbuconazole	106		P	80 - 120
Fipronil	90.9		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	89.4		P	80 - 120
Fipronil Sulfone	95.7		P	80 - 120
Fluazifop-P-butyl	98.6		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	93.5		P	80 - 120
Flutolanil	89.0		P	80 - 120
Fluxapyroxad	95.7		P	80 - 120
Fonofos	99.9		P	80 - 120
Hexazinone	94.3		P	80 - 120
Imazalil	91.4		P	80 - 120
Iprodione	90.7		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	97.4		P	80 - 120
Metaxyl	111		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	91.4		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	96.7		P	80 - 120
Myclobutanil	97.7		P	80 - 120
Naled	116		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	96.7		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	99.3		P	80 - 120
Pendimethalin	97.9		P	80 - 120
Phenytoin	114		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	114		P	80 - 120
Prometryn	107		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	110		P	80 - 120
Propargite	93.9		P	80 - 120
Propiconazole	93.0		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	107		P	80 - 120
Pyriproxyfen	97.0		P	80 - 120
Simazine	100		P	80 - 120
Stirophos	89.6		P	80 - 120
Sulfentrazone	159*		F	80 - 120
Tebuconazole	90.3		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	106		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122021

Included Lab Sample IDs: 2439206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122024

Included Lab Sample IDs: 2439206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	98.6	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			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.7					12.7	
EPA 180.1 Rev. 2.0	Turbidity	105					1.50	
EPA 200.7 Rev. 4.4	Calcium	101	101	104				0.131
	Iron	99.2	100	99.4	101			0.857
	Magnesium	102	99.6	104				1.11
	Potassium	99.9	100	101	103			0.757
	Sodium	102	102	106				0.753
	Strontium	106	105	106	106			0.644
	Tin	104	101	102	106			0.651
	Titanium	102	104	106	106			1.43
	Vanadium	104	106	106	108			0.0002
	Zinc	106	106	107	108			1.12
EPA 200.8 Rev. 5.4	Aluminum	98.7	97.9	99.0	102			1.14
	Antimony	100	103	103	102			0.0716
	Arsenic	102	102	103	101			1.06
	Barium	101	102	102	101			0.258
	Beryllium	96.7	97.2	95.2	94.9			2.14
	Boron	102	105	106	113			1.12
	Cadmium	101	102	105	105			2.75
	Chromium	97.9	97.6	99.2	104			1.66
	Cobalt	97.7	94.3	95.4	96.9			1.19
	Copper	98.9	95.4	96.4	101			1.09
	Lead	101	102	102	104			0.265
	Manganese	97.6	89.7	98.4	96.5			3.21
	Molybdenum	99.3	103	103	101			0.206
	Nickel	99.3	96.6	96.8	102			0.211
	Selenium	100	101	102	101			1.03
	Silver	113	114	114	115			0.547
	Thallium	103	105	106	106			0.616
EPA 300.0 Rev. 2.1	Chloride	101	101	101			0.484	
	Sulfate	103	103	101			0.773	
EPA 350.1 Rev. 2.0	Ammonia-N	100	97.2	97.0				0.192
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	102	101				0.678
EPA 353.2 Rev. 2.0	NO2NO3-N	103	102	103				0.487
EPA 365.1 Rev. 2.0	Total-P	108	108	108				0.158
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	100	101				0.299
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	142	131	120				8.81
	Acetochlor	85.2	93.9	83.0				12.4
	Alachlor	80.3	75.9	70.9				6.82
	Ametryn	111	116	134				14.6
	Atrazine	109	106	104				1.42
	Atrazine Desethyl	92.3	97.3	100				3.12
	Avobenzone	184	156	170				8.03
	Azinphos Methyl	191	220	200				9.16
	Azoxystrobin	118	151	120				16.2
	Bromacil	94.6						32.5
	Butylate	51.6	54.5	65.3				18.0
	Caffeine	122	139	136				2.00
	Carbophenothion	104	122	95.5				24.0
	Carfentrazone Ethyl	122	140	112				22.5
	Chlorfenapyr	106	106	91.0				15.0
	Chlorpyrifos Ethyl	74.3	123	110				10.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	108	118	96.8			20.0
	Coumaphos	172	178	202			12.8
	Cyanazine	141	159	126			23.4
	Cyprodinil	80.9	114	73.3			23.8
	Dechlorane 602	96.1	75.0	63.1			17.2
	Dechlorane 603	159	149	139			7.17
	Dechlorane Plus	170	146	148			1.88
	Demeton	97.4	84.0	91.6			8.66
	Diazinon	115	108	110			1.46
	Difenoconazole	179	170	171			0.756
	Dimethenamid	85.8	94.8	82.3			14.0
	Dimethomorph	127	189	146			25.6
	Disulfoton	92.7	102	77.7			26.8
	Dithiopyr	89.4	96.7	90.6			6.50
	EPTC	47.0	50.3	65.0			25.6
	Ethion	73.3	55.8	62.0			10.6
	Ethoprop	110	116	119			2.51
	Etridiazole	45.5	62.8	55.0			13.2
	Fenamiphos	105	85.4	87.0			1.86
	Fenbuconazole	96.2	96.1	80.8			17.4
	Fipronil	79.6	100	81.3			20.0
	Fipronil Desulfinyl	86.9	124	73.0			28.3
	Fipronil Sulfide	83.2	110	65.6			21.9
	Fipronil Sulfone	77.1	120	62.6			26.5
	Fluazifop-P-butyl	96.6	106	88.3			18.5
	Fludioxonil	77.6	118	93.5			6.70
	Flumioxazin	201	199	174			13.7
	Flutolanil	80.4	65.7	60.3			7.50
	Fluxapyroxad	187	155	148			1.54
	Fonofos	104	106	96.8			9.27
	Hexabromobenzene	122	122	118			2.91
	Hexazinone	110	106	109			3.12
	Imazalil	80.7	78.7	74.7			5.20
	Iprodione	240	92.2	90.1			2.34
	Loratadine	169	193	183			5.50
	Malathion	155	167	144			14.5
	Metalaxyl	88.3	93.6	80.4			11.9
	Metolachlor	90.3	99.8	90.0			10.3
	Metribuzin	106	111	101			9.06
	Mevinphos	94.3	118	100			16.2
	Molinate	71.0	61.9	70.6			13.0
	Myclobutanil	79.1	95.0	73.8			9.96
	Naled	38.7	53.3	51.4			3.64
	Napropamide	79.1	81.3	76.6			6.01
	Norflurazon	86.4	105	77.6			24.5
	Octinoxate	135	129	127			1.94
	Oxadiazon	77.5	90.5	79.1			13.3
	Oxybenzone	134	133	126			5.72
	Oxyfluorfen	119	134	101			19.7
	Parathion Ethyl	107	106	102			4.09
	Parathion Methyl	127	137	119			13.6
	PBB-153	152	143	125			13.4
	PBDE-47	109	95.1	89.2			6.45
	PBDE-99	111	95.2	84.1			12.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	93.2	109	95.9		13.2
	Pentabromotoluene	118	111	114		2.28
	Phenytoin	76.0	56.6	65.2		14.2
	Phorate	69.3	70.4	75.6		7.16
	Prodiamine	39.0	55.0	58.7		4.67
	Prometon	104	74.1	93.3		22.9
	Prometryn	80.7	90.2	84.2		6.84
	Pronamide	106	108	102		6.41
	Propanil	87.6	107	81.3		27.6
	Propargite	104	82.5	78.4		5.21
	Propiconazole	87.5	93.3	73.7		18.1
	Pyraflufen Ethyl	98.2	117	98.5		16.9
	Pyridaben	129	159	129		20.6
	Pyriproxyfen	104	99.4	85.9		14.6
	Simazine	99.7	102	101		1.48
	Stirophos	166	147	140		4.61
	Sulfentrazone	83.8	55.6	92.4		28.2
	Tebuconazole	70.1	54.1	55.4		2.28
	Terbufos	127	129	115		11.1
	Terbutylazine	97.3	91.8	91.3		0.556
	Tetradecachloro-m-terphenyl	147	121	154		24.2
	Thiobencarb	89.2	94.3	88.6		6.22
	Tri-o-cresyl Phosphate	145	139	129		7.61
	Triadimefon	92.3	87.5	76.5		13.4
	Tris(1-chloro-2-propyl) phosphate (TCPP)	139	139	134		3.90
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	130	125	123		2.12
	Tris(2-chloroethyl) phosphate (TCEP)	138	127	121		4.23
EPA 8321B	2,4-D	90.0				1.44
	2,4,5-T	108	104	114		8.93
	Acesulfame K	118	131	133		1.10
	Acetaminophen	88.7	58.5	58.6		0.161
	Acetamiprid	89.8	66.0	62.2		5.93
	Afidopyropen	66.8	91.8	79.4		14.4
	AMPA	92.1	82.0	80.3		2.11
	Bentazon	91.2	33.3	31.8		4.44
	Benzovindiflupyr	86.6	90.2	95.9		6.11
	Carbamazepine	86.7	63.8	64.1		0.388
	Clothianidin	92.4	58.7	57.7		1.69
	Dinotefuran	96.6	47.8	48.2		0.822
	Diuron	79.0	57.7	57.4		0.486
	Endothall	106	121	124		2.62
	Fenuron	90.6	41.6	41.4		0.486
	Fluridone	93.9	79.3	75.7		4.68
	Glufosinate	114	95.1	96.2		1.16
	Glyphosate	90.4	73.9	78.4		6.03
	Hydrocodone	94.6	49.2	48.3		1.91
	Ibuprofen	63.6	65.4	66.5		1.73
	Imazapyr	76.1	93.7	84.7		6.63
	Imidacloprid	87.8	95.4	93.6		1.88
	Linuron	67.3	64.8	69.3		6.77
	Mandestrobin	91.4	89.1	90.1		1.16

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8321B	MCCP	120	110	108		2.17
	Naproxen	63.5	76.1	70.0		8.41
	Primidone	77.6	58.3	63.7		8.77
	Pyraclostrobin	85.7	93.7	93.5		0.193
	Silvex	96.7	90.4	89.1		1.46
	Sucralose	88.9	92.8	97.2		3.66
	Thiamethoxam	95.5	57.0	54.0		5.33
	Tolfenpyrad	55.4	59.8	63.0		5.29
	Triclopyr	109	111	109		2.14
SM 2320 B-2011	Total Alkalinity	96.8			0.0418	
SM 2540 C-2015	TDS	91.8			8.12	
SM 2540 D-2015	TSS	93.1				
SM 4500-F- C-2011	Fluoride	102	103	102		0.516
SM 5310 B-2011	Organic Carbon	99.8	98.6		0.0616	

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2439205
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2439205
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2439210
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2439210
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2439205
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2439205
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2439206
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2439206
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2439206
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2439206
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2439207
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2439211
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2439211
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2439209
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2439205
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2439210
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2439205
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2439205
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2439205
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2439206

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	09/22/2023			09/22/2023 14:13	Alexis Price	2439205
EPA 180.1 Rev. 2.0	09/22/2023			09/22/2023 13:33	Alexis Price	2439205
EPA 200.7 Rev. 4.4	09/22/2023	09/25/2023 12:30	George D Taylor	09/27/2023 18:12	McKinley C Carter	2439210
EPA 200.8 Rev. 5.4	09/22/2023	09/25/2023 12:30	George D Taylor	09/26/2023 23:29	Conrad Hartmann	2439210
	09/22/2023	09/25/2023 12:30	George D Taylor	09/27/2023 17:19	Conrad Hartmann	2439210
EPA 300.0 Rev. 2.1	09/22/2023			09/28/2023 04:14	James L Waggeberby	2439205
EPA 350.1 Rev. 2.0	09/22/2023			09/26/2023 14:57	Ping Hua	2439206
EPA 351.2 Rev. 2.0	09/22/2023	10/04/2023 14:26	Simonne.V. Calhoun	10/09/2023 09:46	Samantha L Bates	2439206
EPA 353.2 Rev. 2.0	09/22/2023			10/06/2023 12:26	Anna M. Plaviak	2439206
EPA 365.1 Rev. 2.0	09/22/2023	09/27/2023 14:07	Adam P Silver	09/28/2023 14:50	James L Waggeberby	2439206
EPA 365.1 Rev. 2.0 dissolved	09/22/2023			09/22/2023 14:15	Chandler E Cox	2439207
EPA 8270E	09/22/2023	09/25/2023 08:30	Rasheda Ghaffari	09/26/2023 21:21	Arthur Maknenko	2439211
	09/22/2023	09/25/2023 08:30	Rasheda Ghaffari	09/28/2023 21:33	Vandana T. Nagar	2439211
EPA 8321B	09/22/2023	09/25/2023 11:00	Hana Lee	09/25/2023 17:57	Hana Lee	2439209
	09/22/2023	09/25/2023 11:00	Hana Lee	09/26/2023 05:09	Tae K Lee	2439209
	09/22/2023	09/26/2023 13:00	Hoor Shaik	09/26/2023 22:29	Juyoung Kim	2439209
SM 2320 B-2011	09/22/2023			09/29/2023 01:04	Adam P Silver	2439205
SM 2340 B-2011	09/22/2023			09/27/2023 18:12	McKinley C Carter	2439210
SM 2540 C-2015	09/22/2023			09/25/2023 15:40	Yijie Li	2439205
SM 2540 D-2015	09/22/2023			09/25/2023 15:40	Yijie Li	2439205
SM 4500-F- C-2011	09/22/2023			09/29/2023 01:04	Adam P Silver	2439205
SM 5310 B-2011	09/22/2023			09/29/2023 08:20	Khloe J Berg	2439206