Chemical Analysis Report

CEN-DIST-2023-05-10-01

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

Event Description: **Lake Ola LVI**
Request ID: **RQ-2023-05-08-28**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 30-MAY-2023 11:29

Chris Bowen

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: LAKE OLA AT CENTER **Collection Date/Time: 05/09/2023 13:13**

Field ID: G1CE0127 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408651	DEP SOP: NU-094-1	Color (true)	10		PCU	P429682	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P429689	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P430017	
		Sulfate	23		mg SO4/L	P430020	
	SM 2320 B-2011	Total Alkalinity	30	A	mg CaCO3/L	P430117	
	SM 2540 C-2015	TDS	130		mg/L	P430183	
	SM 2540 D-2015	TSS	2	I	mg/L	P430027	
	SM 4500-F- C-2011	Fluoride	0.067	I	mg F/L	P429887	
2408652	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P429928	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P429954	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429985	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P429803	
	SM 5310 B-2011	Organic Carbon	8.6		mg C/L	P429896	
2408653	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P429685	
2408655	EPA 8321B	2,4-D	0.21		ug/L	P429749	
		Acesulfame K	0.10	U	ug/L	P429733	
		2,4,5-T	0.0040	U	ug/L	P429749	
		AMPA	0.10	U	ug/L	P429733	
		Acetaminophen	0.0088	I	ug/L	P429749	
		Acetamiprid	0.0020	U	ug/L	P429749	
		Endothall	0.25	U	ug/L	P429733	
		Glufosinate	0.10	U	ug/L	P429733	
		Glyphosate	0.10	U	ug/L	P429733	
		Afidopyropen	0.0020	U	ug/L	P429749	
		Bentazon	0.015		ug/L	P429749	
		Sucralose	0.73		ug/L	P429733	
		Benzovindiflupyr	0.0020	U	ug/L	P429749	
		Carbamazepine	8.0E-04	U	ug/L	P429749	
		Clothianidin	0.0020	U	ug/L	P429749	
		Dinotefuran	0.0020	U	ug/L	P429749	
		Diuron	0.0020	U	ug/L	P429749	
		Fenuron	0.032	U	ug/L	P429749	
		Fluridone	0.54		ug/L	P429749	
		Imazapyr	0.0040	U	ug/L	P429749	
		Hydrocodone	0.0020	U	ug/L	P429749	
		Ibuprofen	0.080	U	ug/L	P429749	
		Imidacloprid	0.0020	U	ug/L	P429749	
		Linuron	0.0040	U	ug/L	P429749	
		Mandestrobin	0.0020	U	ug/L	P429749	
		MCPP	0.0020	U	ug/L	P429749	
		Naproxen	0.0080	U	ug/L	P429749	
		Primidone	0.0060	I	ug/L	P429749	
		Pyraclostrobin	0.0020	U	ug/L	P429749	

Field ID: G1CE0127 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408655	EPA 8321B	Silvex	0.0040	U	ug/L	P429749	
		Thiamethoxam	0.0020	U	ug/L	P429749	
		Tolfenpyrad	0.0020	U	ug/L	P429749	
		Triclopyr	0.0040	U	ug/L	P429749	
2408656	EPA 200.7 Rev. 4.4	Calcium	13.0		mg/L	P429734	
		Iron	30	U	ug/L	P429734	
		Magnesium	5.60		mg/L	P429734	
		Potassium	7.5		mg/L	P429734	
		Sodium	18.5		mg/L	P429734	
		Strontium	45.8		ug/L	P429734	
		Tin	3.0	U	ug/L	P429734	
		Titanium	0.75	U	ug/L	P429734	
		Vanadium	2.0	U	ug/L	P429734	
		Zinc	5.0	U	ug/L	P429734	
	EPA 200.8 Rev. 5.4	Aluminum	25		ug/L	P429734	
		Antimony	0.16	I	ug/L	P429734	
		Arsenic	2.08		ug/L	P429734	
		Barium	26.8		ug/L	P429734	
		Beryllium	0.010	U	ug/L	P429734	
		Boron	53.6		ug/L	P429734	
		Cadmium	0.020	U	ug/L	P429734	
		Chromium	0.40	U	ug/L	P429734	
		Cobalt	0.020	U	ug/L	P429734	
		Copper	0.75	I	ug/L	P429734	
		Lead	0.20	U	ug/L	P429734	
		Manganese	9.79		ug/L	P429734	
		Molybdenum	0.58	I	ug/L	P429734	
		Nickel	0.50	U	ug/L	P429734	
		Selenium	0.20	U	ug/L	P429734	
		Silver	0.010	U	ug/L	P429734	
		Thallium	0.10	U	ug/L	P429734	
	SM 2340 B-2011	Hardness	55.5		mg/L	P429734	
2408657	EPA 8270E	Oxybenzone**	10	U	ng/L	P429600	
		Acetochlor	0.21	U	ng/L	P429600	
		Octinoxate**	21	U	ng/L	P429600	
		Alachlor	0.42	U	ng/L	P429600	
		Avobenzone**	100	U	ng/L	P429600	
		Ametryn	1.8	I	ng/L	P429600	
		Atrazine	19		ng/L	P429600	
		PBDE-47**	4.2	U	ng/L	P429600	
		Atrazine Desethyl	4.6	I	ng/L	P429600	
		PBDE-99**	5.2	U	ng/L	P429600	
		Azinphos Methyl	3.1	U	ng/L	P429600	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P429600	
		Azoxystrobin	0.42	U	ng/L	P429600	

Field ID: G1CE0127 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408657	EPA 8270E	Bromacil	0.63	U	ng/L	P429600	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P429600	
		Butylate	0.21	U	ng/L	P429600	
		Dechlorane Plus**	31	U	ng/L	P429600	
		Caffeine**	7.9	U	ng/L	P429600	
		Dechlorane 602**	5.2	U	ng/L	P429600	
		Carbophenothion	0.52	U	ng/L	P429600	
		Dechlorane 603**	4.2	U	ng/L	P429600	
		Carfentrazone Ethyl	0.16	U	ng/L	P429600	
		Hexabromobenzene**	6.3	U	ng/L	P429600	
		Chlorfenapyr	0.31	U	ng/L	P429600	
		PBB-153**	8.4	U	ng/L	P429600	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P429600	
		Pentabromotoluene**	3.1	U	ng/L	P429600	
		Chlorpyrifos Methyl	0.10	U	ng/L	P429600	
		Tris(2-chloroethyl) phosphate (TCEP)**	73	U	ng/L	P429600	
		Coumaphos	1.1	U	ng/L	P429600	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	23	I	ng/L	P429600	
		Cyanazine	5.2	UJ	ng/L	P429600	CCV
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P429600	
		Cyprodinil	0.21	U	ng/L	P429600	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P429600	
		Demeton	3.7	U	ng/L	P429600	
		Diazinon	0.13	U	ng/L	P429600	
		Difenoconazole	0.63	U	ng/L	P429600	RPD
		Dimethenamid	0.10	U	ng/L	P429600	
		Dimethomorph	0.31	U	ng/L	P429600	
		Disulfoton	0.63	U	ng/L	P429600	
		Dithiopyr	1.0	U	ng/L	P429600	
		EPTC	0.52	U	ng/L	P429600	
		Ethion	0.31	U	ng/L	P429600	
		Ethoprop	0.13	U	ng/L	P429600	
		Etridiazole	0.10	U	ng/L	P429600	
		Fenamiphos	0.47	U	ng/L	P429600	
		Fenbuconazole	0.52	U	ng/L	P429600	
		Fipronil	0.21	U	ng/L	P429600	
		Fipronil Desulfinyl**	0.27	I	ng/L	P429600	
		Fipronil Sulfide	0.10	U	ng/L	P429600	
		Fipronil Sulfone	0.19	I	ng/L	P429600	
		Fluazifop-P-butyl	0.10	U	ng/L	P429600	
		Fludioxonil	0.10	U	ng/L	P429600	
		Flumioxazin	3.1	U	ng/L	P429600	
		Flutolanil	0.10	U	ng/L	P429600	
		Fluxapyroxad	0.26	U	ng/L	P429600	

Field ID: G1CE0127 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2408657	EPA 8270E	Fonofos	0.16	U	ng/L	P429600	
		Hexazinone	0.52	U	ng/L	P429600	
		Imazalil	0.68	U	ng/L	P429600	
		Iprodione	0.52	U	ng/L	P429600	
		Loratadine**	0.31	U	ng/L	P429600	
		Malathion	0.37	U	ng/L	P429600	
		Metalaxyl	0.52	U	ng/L	P429600	
		Metolachlor	1.5	I	ng/L	P429600	
		Metribuzin	0.42	U	ng/L	P429600	
		Mevinphos	1.0	U	ng/L	P429600	
		Molinate	0.26	U	ng/L	P429600	
		Myclobutanil	0.37	U	ng/L	P429600	
		Naled	2.6	U	ng/L	P429600	
		Napropamide	0.73	U	ng/L	P429600	
		Norflurazon	1.0	U	ng/L	P429600	
		Oxadiazon	1.5	I	ng/L	P429600	
		Oxyfluorfen	0.21	U	ng/L	P429600	
		Parathion Ethyl	0.16	U	ng/L	P429600	
		Parathion Methyl	0.21	U	ng/L	P429600	
		Pendimethalin	0.79	U	ng/L	P429600	
		Phenytoin**	5.6	U	ng/L	P429600	
		Phorate	0.26	U	ng/L	P429600	
		Prodiamine	0.21	U	ng/L	P429600	
		Prometon	14	I	ng/L	P429600	
		Prometryn	0.37	U	ng/L	P429600	
		Pronamide	0.10	U	ng/L	P429600	
		Propanil	0.10	U	ng/L	P429600	
		Propargite	0.84	U	ng/L	P429600	
		Propiconazole	0.63	U	ng/L	P429600	
		Pyraflufen Ethyl	0.31	U	ng/L	P429600	
		Pyridaben	1.5	U	ng/L	P429600	
		Pyriproxyfen	0.26	U	ng/L	P429600	
		Simazine	0.26	U	ng/L	P429600	
		Stirophos	0.42	U	ng/L	P429600	
		Sulfentrazone	1.5	U	ng/L	P429600	
		Tebuconazole	1.5	U	ng/L	P429600	
		Terbufos	0.21	U	ng/L	P429600	
		Terbuthylazine	0.21	U	ng/L	P429600	
		Thiobencarb	0.52	U	ng/L	P429600	
		Triadimefon	0.16	U	ng/L	P429600	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: 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: P429682

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429689

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429734

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: P429734

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: P430017

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: P430020

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429985

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429803

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429685

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

Reference Method: EPA 8270E
Batch ID: P429600

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	0.20	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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429600

Component	Result	Code	Units
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	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
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429600

Component	Result	Code	Units
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	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
PBB-153	8.0	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	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	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-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	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
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B
Batch ID: P429733

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P429733

Component	Result	Code	Units
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: P429749

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	0.080	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: P430117

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

Reference Method: SM 2540 C-2015
Batch ID: P430183

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P430027

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P429896

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: P429682

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429689

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.3		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429734

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	102		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	100		P	85 - 115
Sodium	105		P	85 - 115
Strontium	104		P	85 - 115
Tin	104		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	108		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429734

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	99.7		P	85 - 115
Barium	102		P	85 - 115
Beryllium	98.1		P	85 - 115
Boron	103		P	85 - 115
Cadmium	99.8		P	85 - 115
Chromium	98.2		P	85 - 115
Cobalt	102		P	85 - 115
Copper	98.1		P	85 - 115
Lead	102		P	85 - 115
Manganese	99.5		P	85 - 115
Molybdenum	99.1		P	85 - 115
Nickel	98.7		P	85 - 115
Selenium	99.2		P	85 - 115
Silver	107		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430017

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: P430020

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429985

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429803

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429685

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P429600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	103		P	42 - 162
Acetochlor	77.4		P	69 - 123
Alachlor	92.1		P	65 - 118
Ametryn	139		P	58 - 141
Atrazine	96.1		P	73 - 118
Atrazine Desethyl	108		P	32 - 125
Avobenzone	152		P	40 - 203
Azinphos Methyl	94.8		P	36 - 197
Azoxystrobin	109		P	58 - 226
Bromacil	108		P	48 - 120
Butylate	71.4		P	27 - 85.0
Caffeine	85.8		P	40 - 137
Carbophenothion	115		P	54 - 132
Carfentrazone Ethyl	130		P	60 - 142
Chlorfenapyr	87.6		P	53 - 117
Chlorpyrifos Ethyl	101		P	59 - 116

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P429600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	88.8		P	66 - 119
Coumaphos	118		P	11 - 234
Cyanazine	177		P	61 - 248
Cyprodinil	77.4		P	50 - 147
Dechlorane 602	88.0		P	50 - 150
Dechlorane 603	143		P	50 - 150
Dechlorane Plus	103		P	47 - 182
Demeton	80.6		P	30 - 138
Diazinon	121		P	67 - 126
Difenoconazole	72.8		P	38 - 205
Dimethenamid	108		P	57 - 111
Dimethomorph	183		P	16 - 212
Disulfoton	122		P	46 - 126
Dithiopyr	115		P	62 - 115
EPTC	64.5		P	28 - 80.0
Ethion	83.4		P	24 - 122
Ethoprop	103		P	62 - 113
Etridiazole	82.0		P	28 - 92.0
Fenamiphos	86.0		P	57 - 128
Fenbuconazole	65.1		P	52 - 155
Fipronil	109		P	63 - 130
Fipronil Desulfinyl	102		P	61 - 130
Fipronil Sulfide	115		P	56 - 117
Fipronil Sulfone	109		P	52 - 118
Fluazifop-P-butyl	74.3		P	61 - 128
Fludioxonil	98.4		P	59 - 129
Flumioxazin	90.0		P	30 - 250
Flutolanil	84.7		P	53 - 127
Fluxapyroxad	91.9		P	42 - 132
Fonofos	98.5		P	61 - 110
Hexabromobenzene	129		P	50 - 150
Hexazinone	93.8		P	46 - 139
Imazalil	86.6		P	40 - 139
Iprodione	96.3		P	40 - 146
Loratadine	134		P	10 - 224
Malathion	103		P	61 - 135
Metalaxyl	95.1		P	58 - 121
Metolachlor	95.9		P	64 - 118
Metribuzin	104		P	45 - 245
Mevinphos	97.7		P	49 - 118
Molinate	66.4		P	42 - 92.0
Myclobutanil	115		P	55 - 127
Naled	39.1		P	10 - 114
Napropamide	78.7		P	39 - 121
Norflurazon	102		P	55 - 129
Octinoxate	117		P	26 - 166
Oxadiazon	107		P	54 - 115
Oxybenzone	131		P	49 - 135
Oxyfluorfen	124		P	64 - 139
Parathion Ethyl	101		P	70 - 111
Parathion Methyl	101		P	76 - 136
PBB-153	135		P	50 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P429600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	113		P	41 - 148
PBDE-99	99.0		P	38 - 147
Pendimethalin	103		P	52 - 118
Pentabromotoluene	117		P	50 - 150
Phenytoin	60.4		P	10 - 162
Phorate	117		P	40 - 122
Prodiamine	71.3		P	26 - 141
Prometon	67.7		P	54 - 122
Prometryn	110		P	61 - 128
Pronamide	121		P	72 - 121
Propanil	130		P	45 - 144
Propargite	81.0		P	10 - 199
Propiconazole	96.6		P	56 - 127
Pyraflufen Ethyl	64.6		P	56 - 140
Pyridaben	99.8		P	26 - 211
Pyriproxyfen	90.5		P	33 - 194
Simazine	85.1		P	67 - 121
Stirophos	84.8		P	20 - 142
Sulfentrazone	93.4		P	21 - 144
Tebuconazole	65.3		P	10 - 122
Terbufos	124		P	60 - 129
Terbuthylazine	94.6		P	69 - 113
Tetradecachloro-m-terphenyl	185		P	70 - 200
Thiobencarb	109		P	51 - 120
Tri-o-cresyl Phosphate	121		P	49 - 150
Triadimefon	103		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	102		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: EPA 8321B
Batch ID: P429733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.3		P	40 - 150
AMPA	104		P	40 - 150
Endothall	80.0		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	122		P	40 - 150
Sucralose	96.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	85.1		P	40 - 150
2,4,5-T	90.2		P	40 - 150
Acetaminophen	80.4		P	30 - 150
Acetamiprid	82.4		P	40 - 150
Afidopyropen	70.1		P	30 - 150
Bentazon	136		P	30 - 150
Benzovindiflupyr	89.8		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P429749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	88.3		P	40 - 150
Clothianidin	87.7		P	40 - 150
Dinotefuran	95.4		P	40 - 150
Diuron	82.1		P	40 - 150
Fenuron	88.7		P	40 - 150
Fluridone	90.8		P	40 - 150
Hydrocodone	91.3		P	40 - 150
Ibuprofen	75.1		P	40 - 150
Imazapyr	87.8		P	40 - 150
Imidacloprid	86.6		P	40 - 150
Linuron	80.8		P	40 - 150
Mandestrobin	91.4		P	40 - 150
MCPP	90.8		P	40 - 150
Naproxen	81.6		P	40 - 150
Primidone	83.5		P	40 - 150
Pyraclostrobin	82.1		P	40 - 150
Silvex	105		P	40 - 150
Thiamethoxam	86.1		P	40 - 150
Tolfenpyrad	60.7		P	30 - 150
Triclopyr	83.0		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P430117

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

Reference Method: SM 2540 C-2015
Batch ID: P430183

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

Reference Method: SM 2540 D-2015
Batch ID: P430027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

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

Reference Method: SM 5310 B-2011
Batch ID: P429896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408260	Calcium	100	103	P/P	80 - 120
2408260	Iron	102	104	P/P	80 - 120
2408260	Magnesium	101	103	P/P	80 - 120
2408260	Potassium	101	102	P/P	80 - 120
2408260	Sodium	106	106	P/P	80 - 120
2408260	Strontium	104	104	P/P	80 - 120
2408260	Tin	102	103	P/P	80 - 120
2408260	Titanium	103	102	P/P	80 - 120
2408260	Vanadium	103	103	P/P	80 - 120
2408260	Zinc	108	107	P/P	80 - 120
2408656	Calcium	102		P	80 - 120
2408656	Iron	105		P	80 - 120
2408656	Magnesium	101		P	80 - 120
2408656	Potassium	103		P	80 - 120
2408656	Sodium	106		P	80 - 120
2408656	Strontium	105		P	80 - 120
2408656	Tin	101		P	80 - 120
2408656	Titanium	102		P	80 - 120
2408656	Vanadium	104		P	80 - 120
2408656	Zinc	109		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408260	Aluminum	101	101	P/P	80 - 120
2408260	Antimony	103	103	P/P	80 - 120
2408260	Arsenic	100	101	P/P	80 - 120
2408260	Barium	104	104	P/P	80 - 120
2408260	Beryllium	95.5	96.7	P/P	80 - 120
2408260	Boron	103	104	P/P	80 - 120
2408260	Cadmium	102	103	P/P	80 - 120
2408260	Chromium	100	100	P/P	80 - 120
2408260	Cobalt	103	104	P/P	80 - 120
2408260	Copper	100	100	P/P	80 - 120
2408260	Lead	104	105	P/P	80 - 120
2408260	Manganese	102	102	P/P	80 - 120
2408260	Molybdenum	99.5	101	P/P	80 - 120
2408260	Nickel	99.4	99.3	P/P	80 - 120
2408260	Selenium	101	101	P/P	80 - 120
2408260	Silver	104	104	P/P	80 - 120
2408260	Thallium	102	105	P/P	80 - 120
2408656	Aluminum	100		P	80 - 120
2408656	Antimony	104		P	80 - 120
2408656	Arsenic	103		P	80 - 120
2408656	Barium	104		P	80 - 120
2408656	Beryllium	98.2		P	80 - 120
2408656	Boron	102		P	80 - 120
2408656	Cadmium	101		P	80 - 120
2408656	Chromium	97.2		P	80 - 120
2408656	Cobalt	101		P	80 - 120
2408656	Copper	99.1		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408656	Lead	104		P	80 - 120
2408656	Manganese	98.7		P	80 - 120
2408656	Molybdenum	102		P	80 - 120
2408656	Nickel	98.5		P	80 - 120
2408656	Selenium	102		P	80 - 120
2408656	Silver	102		P	80 - 120
2408656	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408605	Chloride	102		P	90 - 110
2408888	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408605	Sulfate	100		P	90 - 110
2408888	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408313	Ammonia-N	99.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408374	Kjeldahl Nitrogen	106	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408652	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429803

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408652	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408226	O-Phosphate-P	96.8	97.5	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P429600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407708	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.1	112	P/P	26 - 165
2407708	Acetochlor	74.2	84.6	P/P	67 - 124
2407708	Alachlor	82.7	81.3	P/P	60 - 120
2407708	Ametryn	118	113	P/P	54 - 216
2407708	Atrazine	105	100	P/P	66 - 128
2407708	Atrazine Desethyl	101	107	P/P	15 - 122
2407708	Avobenzone	131	161	P/P	37 - 178
2407708	Azinphos Methyl	81.7	103	P/P	40 - 292
2407708	Azoxystrobin	83.4	114	P/P	35 - 220
2407708	Bromacil	112	108	P/P	45 - 127
2407708	Butylate	74.4	70.4	P/P	20 - 83.0
2407708	Caffeine	112	101	P/P	10 - 194
2407708	Carbophenothion	103	109	P/P	57 - 127
2407708	Carfentrazone Ethyl	119	120	P/P	51 - 141
2407708	Chlorfenapyr	81.4	88.6	P/P	46 - 111
2407708	Chlorpyrifos Ethyl	89.4	84.9	P/P	52 - 120
2407708	Chlorpyrifos Methyl	86.9	102	P/P	63 - 119
2407708	Coumaphos	117	123	P/P	10 - 228
2407708	Cyanazine	145	165	P/P	59 - 241
2407708	Cyprodinil	84.0	80.3	P/P	47 - 146
2407708	Dechlorane 602	74.0	89.8	P/P	50 - 150
2407708	Dechlorane 603	118	143	P/P	50 - 150
2407708	Dechlorane Plus	86.8	91.3	P/P	50 - 150
2407708	Demeton	75.9	81.9	P/P	40 - 136
2407708	Diazinon	113	119	P/P	69 - 132
2407708	Difenoconazole	58.2	94.4	P/P	57 - 258
2407708	Dimethenamid	97.7	103	P/P	54 - 110
2407708	Dimethomorph	167	183	P/P	28 - 210
2407708	Disulfoton	105	106	P/P	43 - 133
2407708	Dithiopyr	102	101	P/P	39 - 116
2407708	EPTC	67.4	65.6	P/P	20 - 78.0
2407708	Ethion	72.5	74.2	P/P	17 - 119
2407708	Ethoprop	92.0	97.3	P/P	66 - 120
2407708	Etridiazole	74.9	70.7	P/P	28 - 96.0
2407708	Fenamiphos	74.5	74.1	P/P	41 - 126
2407708	Fenbuconazole	47.2	77.0	P/P	42 - 169
2407708	Fipronil	92.3	100	P/P	61 - 132
2407708	Fipronil Desulfinyl	96.8	101	P/P	56 - 132
2407708	Fipronil Sulfide	100	106	P/P	48 - 119
2407708	Fipronil Sulfone	95.3	103	P/P	42 - 131
2407708	Fluazifop-P-butyl	75.9	84.3	P/P	53 - 131
2407708	Fludioxonil	86.7	88.5	P/P	56 - 127
2407708	Flumioxazin	66.7	112	P/P	19 - 300
2407708	Flutolanil	74.9	83.4	P/P	41 - 127
2407708	Fluxapyroxad	80.9	83.7	P/P	42 - 172
2407708	Fonofos	93.1	107	P/P	59 - 113
2407708	Hexabromobenzene	125	132	P/P	50 - 150
2407708	Hexazinone	97.7	93.6	P/P	66 - 122
2407708	Imazalil	79.6	85.1	P/P	21 - 283
2407708	Iprodione	85.0	88.0	P/P	43 - 150
2407708	Loratadine	100	155	P/P	23 - 201
2407708	Malathion	99.7	92.0	P/P	58 - 136

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P429600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407708	Metalaxyl	90.3	92.4	P/P	55 - 120
2407708	Metolachlor	86.7	82.8	P/P	57 - 121
2407708	Metribuzin	101	109	P/P	58 - 294
2407708	Mevinphos	92.4	98.7	P/P	50 - 126
2407708	Molinate	66.5	67.2	P/P	42 - 93.0
2407708	Myclobutanil	106	99.3	P/P	55 - 125
2407708	Naled	38.0	37.3	P/P	18 - 200
2407708	Napropamide	72.4	68.1	P/P	39 - 110
2407708	Norflurazon	92.1	94.9	P/P	48 - 128
2407708	Octinoxate	107	119	P/P	21 - 159
2407708	Oxadiazon	90.4	90.1	P/P	43 - 112
2407708	Oxybenzone	127	122	P/P	41 - 142
2407708	Oxyfluorfen	101	101	P/P	64 - 153
2407708	Parathion Ethyl	95.3	101	P/P	69 - 114
2407708	Parathion Methyl	93.4	107	P/P	79 - 139
2407708	PBB-153	112	138	P/P	50 - 150
2407708	PBDE-47	101	110	P/P	27 - 144
2407708	PBDE-99	84.3	104	P/P	18 - 150
2407708	Pendimethalin	104	108	P/P	50 - 139
2407708	Pentabromotoluene	108	116	P/P	50 - 150
2407708	Phenytoin	59.6	56.9	P/P	10 - 146
2407708	Phorate	107	111	P/P	54 - 161
2407708	Prodiamine	67.6	70.5	P/P	30 - 161
2407708	Prometon	71.0	59.1	P/P	45 - 134
2407708	Prometryn	95.3	103	P/P	45 - 137
2407708	Pronamide	111	108	P/P	65 - 133
2407708	Propanil	128	102	P/P	49 - 142
2407708	Propargite	61.4	63.4	P/P	10 - 203
2407708	Propiconazole	87.3	95.5	P/P	38 - 146
2407708	Pyraflufen Ethyl	71.2	78.0	P/P	34 - 153
2407708	Pyridaben	94.6	102	P/P	12 - 192
2407708	Pyriproxyfen	84.8	82.5	P/P	33 - 180
2407708	Simazine	90.9	91.2	P/P	51 - 157
2407708	Stirophos	70.8	69.7	P/P	10 - 128
2407708	Sulfentrazone	87.4	109	P/P	53 - 186
2407708	Tebuconazole	62.7	57.8	P/P	10 - 133
2407708	Terbufos	116	121	P/P	65 - 139
2407708	Terbuthylazine	88.0	90.0	P/P	66 - 117
2407708	Tetradecachloro-m-terphenyl	170	184	P/P	70 - 200
2407708	Thiobencarb	104	101	P/P	51 - 119
2407708	Tri-o-cresyl Phosphate	112	118	P/P	31 - 144
2407708	Triadimefon	92.1	85.7	P/P	48 - 119
2407708	Tris(1-chloro-2-propyl) phosphate (TCPP)	94.4	87.0	P/P	50 - 150
2407708	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.4	108	P/P	50 - 150
2407708	Tris(2-chloroethyl) phosphate (TCEP)	112	111	P/P	70 - 180

Reference Method: EPA 8321B
Batch ID: P429733

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408587	Acesulfame K	76.9	77.8	P/P	40 - 150
2408587	AMPA	71.7	72.7	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P429733

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408587	Endothall	73.2	75.2	P/P	40 - 150
2408587	Glufosinate	68.2	72.2	P/P	40 - 150
2408587	Glyphosate	79.6	67.2	P/P	40 - 150
2408587	Sucralose	81.1	89.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408093	2,4-D	116	102	P/P	40 - 150
2408093	2,4,5-T	115	113	P/P	40 - 150
2408093	Acetaminophen	96.3	95.4	P/P	30 - 150
2408093	Acetamiprid	72.8	80.5	P/P	40 - 150
2408093	Afidopyropen	73.9	64.4	P/P	30 - 150
2408093	Benzovindiflupyr	91.0	89.7	P/P	40 - 150
2408093	Carbamazepine	83.9	86.2	P/P	40 - 150
2408093	Clothianidin	112	111	P/P	40 - 150
2408093	Dinotefuran	108	109	P/P	40 - 150
2408093	Diuron	69.1	69.9	P/P	40 - 150
2408093	Fenuron	71.8	71.5	P/P	40 - 150
2408093	Hydrocodone	85.5	83.3	P/P	40 - 150
2408093	Ibuprofen	73.2	68.8	P/P	40 - 150
2408093	Imidacloprid	136	137	P/P	40 - 150
2408093	Linuron	71.5	75.4	P/P	40 - 150
2408093	Mandestrobin	80.4	87.2	P/P	40 - 150
2408093	MCPP	122	132	P/P	40 - 150
2408093	Naproxen	106	98.5	P/P	40 - 150
2408093	Primidone	102	89.8	P/P	40 - 150
2408093	Pyraclostrobin	85.1	84.7	P/P	40 - 150
2408093	Silvex	131	142	P/P	40 - 150
2408093	Thiamethoxam	122	119	P/P	40 - 150
2408093	Tolfenpyrad	57.4	58.9	P/P	30 - 150
2408093	Triclopyr	103	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408651	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P429896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408608	Organic Carbon	97.6	97.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P429682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408605	Color (true)	1.14	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408371	Turbidity	1.06	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408260	Calcium	1.53	Spike	P	0 - 20
2408260	Iron	1.69	Spike	P	0 - 20
2408260	Magnesium	1.53	Spike	P	0 - 20
2408260	Potassium	0.862	Spike	P	0 - 20
2408260	Sodium	0.0486	Spike	P	0 - 20
2408260	Strontium	0.373	Spike	P	0 - 20
2408260	Tin	0.887	Spike	P	0 - 20
2408260	Titanium	1.30	Spike	P	0 - 20
2408260	Vanadium	0.396	Spike	P	0 - 20
2408260	Zinc	0.980	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408260	Aluminum	0.515	Spike	P	0 - 20
2408260	Antimony	0.416	Spike	P	0 - 20
2408260	Arsenic	0.531	Spike	P	0 - 20
2408260	Barium	0.346	Spike	P	0 - 20
2408260	Beryllium	1.06	Spike	P	0 - 20
2408260	Boron	1.40	Spike	P	0 - 20
2408260	Cadmium	1.62	Spike	P	0 - 20
2408260	Chromium	0.179	Spike	P	0 - 20
2408260	Cobalt	0.349	Spike	P	0 - 20
2408260	Copper	0.138	Spike	P	0 - 20
2408260	Lead	0.962	Spike	P	0 - 20
2408260	Manganese	0.309	Spike	P	0 - 20
2408260	Molybdenum	1.42	Spike	P	0 - 20
2408260	Nickel	0.0693	Spike	P	0 - 20
2408260	Selenium	0.488	Spike	P	0 - 20
2408260	Silver	0.0980	Spike	P	0 - 20
2408260	Thallium	3.07	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408605	Chloride	0.662	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408313	Ammonia-N	1.46	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408374	Kjeldahl Nitrogen	0.773	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408652	NO2NO3-N	0.489	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408652	Total-P	0.468	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408226	O-Phosphate-P	0.721	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P429600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407708	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	16.4	Spike	P	0 - 37
2407708	Acetochlor	13.0	Spike	P	0 - 28
2407708	Alachlor	1.72	Spike	P	0 - 30
2407708	Ametryn	4.66	Spike	P	0 - 32
2407708	Atrazine	4.56	Spike	P	0 - 41
2407708	Atrazine Desethyl	5.24	Spike	P	0 - 36
2407708	Avobenzone	20.7	Spike	P	0 - 36
2407708	Azinphos Methyl	23.3	Spike	P	0 - 75
2407708	Azoxystrobin	31.1	Spike	P	0 - 39

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P429600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407708	Bromacil	3.09	Spike	P	0 - 33
2407708	Butylate	5.53	Spike	P	0 - 44
2407708	Caffeine	10.7	Spike	P	0 - 74
2407708	Carbophenothion	5.53	Spike	P	0 - 25
2407708	Carfentrazone Ethyl	0.268	Spike	P	0 - 27
2407708	Chlorfenapyr	8.46	Spike	P	0 - 24
2407708	Chlorpyrifos Ethyl	5.17	Spike	P	0 - 26
2407708	Chlorpyrifos Methyl	16.3	Spike	P	0 - 26
2407708	Coumaphos	5.10	Spike	P	0 - 28
2407708	Cyanazine	13.1	Spike	P	0 - 48
2407708	Cyprodinil	4.49	Spike	P	0 - 29
2407708	Dechlorane 602	19.3	Spike	P	0 - 30
2407708	Dechlorane 603	19.1	Spike	P	0 - 30
2407708	Dechlorane Plus	5.11	Spike	P	0 - 30
2407708	Demeton	7.61	Spike	P	0 - 33
2407708	Diazinon	5.45	Spike	P	0 - 29
2407708	Difenoconazole	47.5	Spike	F	0 - 34
2407708	Dimethenamid	4.99	Spike	P	0 - 39
2407708	Dimethomorph	9.09	Spike	P	0 - 51
2407708	Disulfoton	0.858	Spike	P	0 - 30
2407708	Dithiopyr	1.25	Spike	P	0 - 26
2407708	EPTC	2.80	Spike	P	0 - 43
2407708	Ethion	2.42	Spike	P	0 - 79
2407708	Ethoprop	5.65	Spike	P	0 - 29
2407708	Etridiazole	5.73	Spike	P	0 - 33
2407708	Fenamiphos	0.531	Spike	P	0 - 40
2407708	Fenbuconazole	48.0	Spike	P	0 - 74
2407708	Fipronil	8.22	Spike	P	0 - 29
2407708	Fipronil Desulfinyl	4.59	Spike	P	0 - 32
2407708	Fipronil Sulfide	5.32	Spike	P	0 - 30
2407708	Fipronil Sulfone	6.76	Spike	P	0 - 33
2407708	Fluazifop-P-butyl	10.4	Spike	P	0 - 38
2407708	Fludioxonil	2.05	Spike	P	0 - 29
2407708	Flumioxazin	50.3	Spike	P	0 - 51
2407708	Flutolanil	10.7	Spike	P	0 - 25
2407708	Fluxapyroxad	3.40	Spike	P	0 - 45
2407708	Fonofos	14.0	Spike	P	0 - 27
2407708	Hexabromobenzene	5.67	Spike	P	0 - 30
2407708	Hexazinone	4.33	Spike	P	0 - 30
2407708	Imazalil	6.71	Spike	P	0 - 100
2407708	Iprodione	3.42	Spike	P	0 - 33
2407708	Loratadine	42.7	Spike	P	0 - 56
2407708	Malathion	7.95	Spike	P	0 - 37
2407708	Metalaxyl	2.30	Spike	P	0 - 40
2407708	Metolachlor	4.60	Spike	P	0 - 29
2407708	Metribuzin	8.08	Spike	P	0 - 45
2407708	Mevinphos	6.59	Spike	P	0 - 29
2407708	Molinate	1.06	Spike	P	0 - 33
2407708	Myclobutanil	6.32	Spike	P	0 - 26
2407708	Naled	1.82	Spike	P	0 - 37
2407708	Napropamide	6.06	Spike	P	0 - 44

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P429600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407708	Norflurazon	3.08	Spike	P	0 - 30
2407708	Octinoxate	10.5	Spike	P	0 - 45
2407708	Oxadiazon	0.332	Spike	P	0 - 28
2407708	Oxybenzone	3.24	Spike	P	0 - 46
2407708	Oxyfluorfen	0.330	Spike	P	0 - 28
2407708	Parathion Ethyl	5.41	Spike	P	0 - 31
2407708	Parathion Methyl	13.5	Spike	P	0 - 29
2407708	PBB-153	20.5	Spike	P	0 - 30
2407708	PBDE-47	8.65	Spike	P	0 - 36
2407708	PBDE-99	20.7	Spike	P	0 - 40
2407708	Pendimethalin	3.55	Spike	P	0 - 33
2407708	Pentabromotoluene	7.14	Spike	P	0 - 30
2407708	Phenytoin	4.73	Spike	P	0 - 100
2407708	Phorate	4.47	Spike	P	0 - 36
2407708	Prodiamine	4.17	Spike	P	0 - 71
2407708	Prometon	18.3	Spike	P	0 - 36
2407708	Prometryn	6.39	Spike	P	0 - 28
2407708	Pronamide	2.20	Spike	P	0 - 24
2407708	Propanil	23.0	Spike	P	0 - 28
2407708	Propargite	3.28	Spike	P	0 - 43
2407708	Propiconazole	9.00	Spike	P	0 - 33
2407708	Pyraflufen Ethyl	9.12	Spike	P	0 - 29
2407708	Pyridaben	7.90	Spike	P	0 - 30
2407708	Pyriproxyfen	2.71	Spike	P	0 - 79
2407708	Simazine	0.331	Spike	P	0 - 29
2407708	Stirophos	1.64	Spike	P	0 - 61
2407708	Sulfentrazone	22.4	Spike	P	0 - 33
2407708	Tebuconazole	8.08	Spike	P	0 - 69
2407708	Terbufos	3.82	Spike	P	0 - 29
2407708	Terbuthylazine	2.25	Spike	P	0 - 32
2407708	Tetradecachloro-m-terphenyl	7.57	Spike	P	0 - 30
2407708	Thiobencarb	3.38	Spike	P	0 - 26
2407708	Tri-o-cresyl Phosphate	5.44	Spike	P	0 - 33
2407708	Triadimefon	7.20	Spike	P	0 - 28
2407708	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.18	Spike	P	0 - 30
2407708	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	9.55	Spike	P	0 - 30
2407708	Tris(2-chloroethyl) phosphate (TCEP)	1.37	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P429733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408587	Acesulfame K	1.13	Spike	P	0 - 30
2408587	AMPA	1.43	Spike	P	0 - 30
2408587	Endothall	2.76	Spike	P	0 - 30
2408587	Glufosinate	5.74	Spike	P	0 - 30
2408587	Glyphosate	16.8	Spike	P	0 - 30
2408587	Sucralose	8.35	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P429749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408093	2,4-D	11.5	Spike	P	0 - 30
2408093	2,4,5-T	2.08	Spike	P	0 - 30
2408093	Acetaminophen	0.892	Spike	P	0 - 30
2408093	Acetamiprid	10.1	Spike	P	0 - 30
2408093	Afidopyropen	13.8	Spike	P	0 - 30
2408093	Bentazon	20.8	Spike	P	0 - 30
2408093	Benzovindiflupyr	1.37	Spike	P	0 - 30
2408093	Carbamazepine	2.49	Spike	P	0 - 30
2408093	Clothianidin	1.28	Spike	P	0 - 30
2408093	Dinotefuran	1.20	Spike	P	0 - 30
2408093	Diuron	0.757	Spike	P	0 - 30
2408093	Fenuron	0.429	Spike	P	0 - 30
2408093	Fluridone	2.44	Spike	P	0 - 30
2408093	Hydrocodone	2.58	Spike	P	0 - 30
2408093	Ibuprofen	6.25	Spike	P	0 - 30
2408093	Imazapyr	1.43	Spike	P	0 - 30
2408093	Imidacloprid	0.599	Spike	P	0 - 30
2408093	Linuron	5.30	Spike	P	0 - 30
2408093	Mandestrobin	8.09	Spike	P	0 - 30
2408093	MCPP	7.65	Spike	P	0 - 30
2408093	Naproxen	7.29	Spike	P	0 - 30
2408093	Primidone	12.4	Spike	P	0 - 30
2408093	Pyraclostrobin	0.495	Spike	P	0 - 30
2408093	Silvex	7.88	Spike	P	0 - 30
2408093	Thiamethoxam	2.85	Spike	P	0 - 30
2408093	Tolfenpyrad	2.53	Spike	P	0 - 30
2408093	Triclopyr	0.246	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P430117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408651	Total Alkalinity	1.29	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P430183

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408073	TDS	7.07	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P429887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408651	Fluoride	0.0	Spike	P	0 - 1.9

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2011
Batch ID: P429896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408608	Organic Carbon	0.412	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2408655
Field Sample ID: G1CE0127

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.5	P	30 - 160
EPA 8321B	Diuron-d6	84.7	P	30 - 160
EPA 8321B	Endothall-d6	92.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.8	P	30 - 160
EPA 8321B	Primidone-d5	91.3	P	30 - 160
EPA 8321B	Sucralose-d6	96.7	P	30 - 160

Lab Sample ID: 2408657
Field Sample ID: G1CE0127

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	93.2	P	20 - 200
EPA 8270E	Simazine-d10	93.0	P	62 - 142
EPA 8270E	Terbufos-d10	87.8	P	58 - 132
EPA 8270E	Terphenyl-d14	88.5	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A119072
Included Lab Sample IDs: 2408651

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A119074
Included Lab Sample IDs: 2408653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.2	99.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119076
Included Lab Sample IDs: 2408651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: EPA 8270E
Run ID: A119152
Included Lab Sample IDs: 2408657

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	106		P	80 - 120
Avobenzone	111		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	105		P	80 - 120
Dechlorane Plus	95.2		P	80 - 120
Hexabromobenzene	102		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	97.1		P	80 - 120
PBB-153	104		P	80 - 120
PBDE-47	98.7		P	80 - 120
PBDE-99	107		P	80 - 120
Pentabromotoluene	96.9		P	80 - 120
Tetradecachloro-m-terphenyl	104		P	80 - 120
Tri-o-cresyl Phosphate	99.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	86.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	98.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119153
Included Lab Sample IDs: 2408656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	102	101	P/P	90 - 110
Arsenic	99.8	99.4	P/P	90 - 110
Barium	101	100	P/P	90 - 110
Beryllium	98.6	98.4	P/P	90 - 110
Boron	95.7	101	P/P	90 - 110
Cadmium	100	99.7	P/P	90 - 110
Chromium	98.9	98.8	P/P	90 - 110

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Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119153
Included Lab Sample IDs: 2408656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cobalt	101	102	P/P	90 - 110
Copper	97.2	96.4	P/P	90 - 110
Lead	102	102	P/P	90 - 110
Manganese	99.7	100	P/P	90 - 110
Molybdenum	98.9	98.4	P/P	90 - 110
Nickel	98.6	98.7	P/P	90 - 110
Selenium	99.7	101	P/P	90 - 110
Thallium	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119172
Included Lab Sample IDs: 2408652

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

Reference Method: EPA 8321B
Run ID: A119173
Included Lab Sample IDs: 2408655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.8	89.9	P/P	50 - 150
2,4,5-T	107	91.0	P/P	50 - 150
Acetaminophen	89.7	87.8	P/P	60 - 160
Acetamiprid	108	111	P/P	50 - 150
Afidopyropen	79.4	99.2	P/P	50 - 150
Bentazon	127	121	P/P	50 - 160
Benzovindiflupyr	108	101	P/P	50 - 150
Carbamazepine	110	103	P/P	60 - 150
Clothianidin	104	96.4	P/P	60 - 150
Dinotefuran	107	111	P/P	50 - 150
Diuron	110	114	P/P	60 - 160
Fenuron	109	105	P/P	60 - 150
Fluridone	131	102	P/P	60 - 160
Hydrocodone	108	111	P/P	60 - 150
Ibuprofen	110	96.6	P/P	50 - 160
Imazapyr	94.1	94.3	P/P	50 - 150
Imidacloprid	101	99.6	P/P	60 - 150
Linuron	109	103	P/P	60 - 150
Mandestrobin	109	105	P/P	50 - 150
MCPP	107	97.1	P/P	50 - 150
Naproxen	102	128	P/P	50 - 160
Primidone	91.4	86.2	P/P	60 - 150
Pyraclostrobin	107	108	P/P	60 - 150
Silvex	104	98.1	P/P	50 - 150
Thiamethoxam	103	106	P/P	50 - 150
Tolfenpyrad	98.4	98.4	P/P	60 - 150
Triclopyr	102	84.6	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119177
Included Lab Sample IDs: 2408656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.1	97.4	P/P	90 - 110
Silver	101	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A119179
Included Lab Sample IDs: 2408651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	103	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A119185
Included Lab Sample IDs: 2408652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	96.2	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119190
Included Lab Sample IDs: 2408655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	115	115	P/P	60 - 160
Endothall	82.5	85.0	P/P	60 - 160
Glufosinate	105	106	P/P	60 - 160
Glyphosate	127	121	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119191
Included Lab Sample IDs: 2408655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	98.6	P/P	60 - 160
Sucralose	115	92.7	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119199
Included Lab Sample IDs: 2408652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	98.3	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A119207
Included Lab Sample IDs: 2408656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	104	P/P	90 - 110
Iron	103	105	P/P	90 - 110
Magnesium	102	104	P/P	90 - 110
Potassium	102	103	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A119207
Included Lab Sample IDs: 2408656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	106	107	P/P	90 - 110
Strontium	103	103	P/P	90 - 110
Tin	101	102	P/P	90 - 110
Titanium	99.7	99.9	P/P	90 - 110
Vanadium	99.9	100	P/P	90 - 110
Zinc	103	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119211
Included Lab Sample IDs: 2408651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.2	99.9	P/P	90 - 110
Sulfate	99.2	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119221
Included Lab Sample IDs: 2408652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119245
Included Lab Sample IDs: 2408652

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

Reference Method: SM 2320 B-2011
Run ID: A119276
Included Lab Sample IDs: 2408651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	93.7	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119367
Included Lab Sample IDs: 2408657

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	84.7		P	80 - 120
Alachlor	90.7		P	80 - 120
Ametryn	99.6		P	80 - 120
Atrazine	85.7		P	80 - 120
Atrazine Desethyl	85.1		P	80 - 120
Azinphos Methyl	85.0		P	80 - 120
Azoxystrobin	97.7		P	80 - 120
Bromacil	98.6		P	80 - 120
Butylate	98.0		P	80 - 120
Caffeine	116		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119367
Included Lab Sample IDs: 2408657

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	97.7		P	80 - 120
Carfentrazone Ethyl	96.1		P	80 - 120
Chlorfenapyr	83.7		P	80 - 120
Chlorpyrifos Ethyl	91.3		P	80 - 120
Chlorpyrifos Methyl	97.0		P	80 - 120
Coumaphos	95.0		P	80 - 120
Cyanazine	75.8*		F	80 - 120
Cyprodinil	95.0		P	80 - 120
Demeton	98.6		P	80 - 120
Diazinon	99.2		P	80 - 120
Difenoconazole	94.2		P	80 - 120
Dimethenamid	99.5		P	80 - 120
Dimethomorph	85.5		P	80 - 120
Disulfoton	99.9		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	100		P	80 - 120
Ethion	88.4		P	80 - 120
Ethoprop	99.3		P	80 - 120
Etridiazole	97.1		P	80 - 120
Fenamiphos	90.4		P	80 - 120
Fenbuconazole	85.3		P	80 - 120
Fipronil	84.7		P	80 - 120
Fipronil Desulfinyl	97.6		P	80 - 120
Fipronil Sulfide	97.3		P	80 - 120
Fipronil Sulfone	96.2		P	80 - 120
Fluazifop-P-butyl	97.8		P	80 - 120
Fludioxonil	106		P	80 - 120
Flumioxazin	92.0		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	97.1		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	99.4		P	80 - 120
Iprodione	84.2		P	80 - 120
Loratadine	80.1		P	80 - 120
Malathion	83.6		P	80 - 120
Metalaxyl	90.3		P	80 - 120
Metolachlor	98.1		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	105		P	80 - 120
Molinate	88.3		P	80 - 120
Myclobutanil	88.1		P	80 - 120
Naled	92.6		P	80 - 120
Napropamide	95.6		P	80 - 120
Norflurazon	94.2		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	94.5		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	85.3		P	80 - 120
Pendimethalin	97.9		P	80 - 120
Phenytoin	102		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119367
Included Lab Sample IDs: 2408657

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phorate	85.0		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	106		P	80 - 120
Pronamide	97.7		P	80 - 120
Propanil	105		P	80 - 120
Propargite	98.7		P	80 - 120
Propiconazole	104		P	80 - 120
Pyraflufen Ethyl	95.0		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	98.4		P	80 - 120
Simazine	83.7		P	80 - 120
Stirophos	81.9		P	80 - 120
Sulfentrazone	99.6		P	80 - 120
Tebuconazole	98.5		P	80 - 120
Terbufos	104		P	80 - 120
Terbuthylazine	87.2		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	97.2		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	101					1.14	
EPA 180.1 Rev. 2.0	Turbidity	97.3					1.06	
EPA 200.7 Rev. 4.4	Calcium	101	100	103	102			1.53
	Iron	102	102	104	105			1.69
	Magnesium	101	101	103	101			1.53
	Potassium	100	101	102	103			0.862
	Sodium	105	106	106	106			0.0486
	Strontium	104	104	104	105			0.373
	Tin	104	102	103	101			0.887
	Titanium	101	103	102	102			1.30
	Vanadium	103	103	103	104			0.396
	Zinc	108	108	107	109			0.980
EPA 200.8 Rev. 5.4	Aluminum	101	101	101	100			0.515
	Antimony	103	103	103	104			0.416
	Arsenic	99.7	100	101	103			0.531
	Barium	102	104	104	104			0.346
	Beryllium	98.1	95.5	96.7	98.2			1.06
	Boron	103	103	104	102			1.40
	Cadmium	99.8	102	103	101			1.62
	Chromium	98.2	100	100	97.2			0.179
	Cobalt	102	103	104	101			0.349
	Copper	98.1	100	100	99.1			0.138
	Lead	102	104	105	104			0.962
	Manganese	99.5	102	102	98.7			0.309
	Molybdenum	99.1	99.5	101	102			1.42
	Nickel	98.7	99.4	99.3	98.5			0.0693
	Selenium	99.2	101	101	102			0.488
	Silver	107	104	104	102			0.0980
	Thallium	100	102	105	103			3.07
EPA 300.0 Rev. 2.1	Chloride	101	102	102			0.662	
	Sulfate	100	100	101				
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	99.8	102				1.46
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0	106	105				0.773
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	102				0.489
EPA 365.1 Rev. 2.0	Total-P	104	104	104				0.468
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	96.8	97.5				0.721
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	103	95.1	112				16.4
	Acetochlor	77.4	74.2	84.6				13.0
	Alachlor	92.1	82.7	81.3				1.72
	Ametryn	139	118	113				4.66
	Atrazine	96.1	105	100				4.56
	Atrazine Desethyl	108	101	107				5.24
	Avobenzone	152	131	161				20.7
	Azinphos Methyl	94.8	81.7	103				23.3
	Azoxystrobin	109	83.4	114				31.1
	Bromacil	108	112	108				3.09
	Butylate	71.4	74.4	70.4				5.53
	Caffeine	85.8	112	101				10.7
	Carbophenothion	115	103	109				5.53
	Carfentrazone Ethyl	130	119	120				0.268
	Chlorfenapyr	87.6	81.4	88.6				8.46
	Chlorpyrifos Ethyl	101	89.4	84.9				5.17

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Chlorpyrifos Methyl	88.8	86.9	102			16.3
	Coumaphos	118	117	123			5.10
	Cyanazine	177	145	165			13.1
	Cyprodinil	77.4	84.0	80.3			4.49
	Dechlorane 602	88.0	74.0	89.8			19.3
	Dechlorane 603	143	118	143			19.1
	Dechlorane Plus	103	86.8	91.3			5.11
	Demeton	80.6	75.9	81.9			7.61
	Diazinon	121	113	119			5.45
	Difenoconazole	72.8	58.2	94.4			47.5
	Dimethenamid	108	97.7	103			4.99
	Dimethomorph	183	167	183			9.09
	Disulfoton	122	105	106			0.858
	Dithiopyr	115	102	101			1.25
	EPTC	64.5	67.4	65.6			2.80
	Ethion	83.4	72.5	74.2			2.42
	Ethoprop	103	92.0	97.3			5.65
	Etridiazole	82.0	74.9	70.7			5.73
	Fenamiphos	86.0	74.5	74.1			0.531
	Fenbuconazole	65.1	47.2	77.0			48.0
	Fipronil	109	92.3	100			8.22
	Fipronil Desulfinyl	102	96.8	101			4.59
	Fipronil Sulfide	115	100	106			5.32
	Fipronil Sulfone	109	95.3	103			6.76
	Fluazifop-P-butyl	74.3	75.9	84.3			10.4
	Fludioxonil	98.4	86.7	88.5			2.05
	Flumioxazin	90.0	66.7	112			50.3
	Flutolanil	84.7	74.9	83.4			10.7
	Fluxapyroxad	91.9	80.9	83.7			3.40
	Fonofos	98.5	93.1	107			14.0
	Hexabromobenzene	129	125	132			5.67
	Hexazinone	93.8	97.7	93.6			4.33
	Imazalil	86.6	79.6	85.1			6.71
	Iprodione	96.3	85.0	88.0			3.42
	Loratadine	134	100	155			42.7
	Malathion	103	99.7	92.0			7.95
	Metalaxyl	95.1	90.3	92.4			2.30
	Metolachlor	95.9	86.7	82.8			4.60
	Metribuzin	104	101	109			8.08
	Mevinphos	97.7	92.4	98.7			6.59
	Molinate	66.4	66.5	67.2			1.06
	Myclobutanil	115	106	99.3			6.32
	Naled	39.1	38.0	37.3			1.82
	Napropamide	78.7	72.4	68.1			6.06
	Norflurazon	102	92.1	94.9			3.08
	Octinoxate	117	107	119			10.5
	Oxadiazon	107	90.4	90.1			0.332
	Oxybenzone	131	127	122			3.24
	Oxyfluorfen	124	101	101			0.330
	Parathion Ethyl	101	95.3	101			5.41
	Parathion Methyl	101	93.4	107			13.5
	PBB-153	135	112	138			20.5
	PBDE-47	113	101	110			8.65
	PBDE-99	99.0	84.3	104			20.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Pendimethalin	103	104	108			3.55
	Pentabromotoluene	117	108	116			7.14
	Phenytoin	60.4	59.6	56.9			4.73
	Phorate	117	107	111			4.47
	Prodiamine	71.3	67.6	70.5			4.17
	Prometon	67.7	71.0	59.1			18.3
	Prometryn	110	95.3	103			6.39
	Pronamide	121	111	108			2.20
	Propanil	130	128	102			23.0
	Propargite	81.0	61.4	63.4			3.28
	Propiconazole	96.6	87.3	95.5			9.00
	Pyraflufen Ethyl	64.6	71.2	78.0			9.12
	Pyridaben	99.8	94.6	102			7.90
	Pyriproxyfen	90.5	84.8	82.5			2.71
	Simazine	85.1	90.9	91.2			0.331
	Stirophos	84.8	70.8	69.7			1.64
	Sulfentrazone	93.4	87.4	109			22.4
	Tebuconazole	65.3	62.7	57.8			8.08
	Terbufos	124	116	121			3.82
	Terbuthylazine	94.6	88.0	90.0			2.25
	Tetradecachloro-m-terphenyl	185	170	184			7.57
	Thiobencarb	109	104	101			3.38
	Tri-o-cresyl Phosphate	121	112	118			5.44
	Triadimefon	103	92.1	85.7			7.20
	Tris(1-chloro-2-propyl) phosphate (TCPP)	102	94.4	87.0			8.18
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106	98.4	108			9.55
	Tris(2-chloroethyl) phosphate (TCEP)	117	112	111			1.37
EPA 8321B	2,4-D	85.1	116	102			11.5
	2,4,5-T	90.2	115	113			2.08
	Acesulfame K	99.3	76.9	77.8			1.13
	Acetaminophen	80.4	96.3	95.4			0.892
	Acetamiprid	82.4	72.8	80.5			10.1
	Afidopyropen	70.1	73.9	64.4			13.8
	AMPA	104	71.7	72.7			1.43
	Bentazon	136					20.8
	Benzovindiflupyr	89.8	91.0	89.7			1.37
	Carbamazepine	88.3	83.9	86.2			2.49
	Clothianidin	87.7	112	111			1.28
	Dinotefuran	95.4	108	109			1.20
	Diuron	82.1	69.1	69.9			0.757
	Endothall	80.0	73.2	75.2			2.76
	Fenuron	88.7	71.8	71.5			0.429
	Fluridone	90.8					2.44
	Glufosinate	105	68.2	72.2			5.74
	Glyphosate	122	79.6	67.2			16.8
	Hydrocodone	91.3	85.5	83.3			2.58
	Ibuprofen	75.1	73.2	68.8			6.25
	Imazapyr	87.8					1.43
	Imidacloprid	86.6	136	137			0.599
	Linuron	80.8	71.5	75.4			5.30
	Mandestrobin	91.4	80.4	87.2			8.09

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	MCPP	90.8	122	132			7.65
	Naproxen	81.6	106	98.5			7.29
	Primidone	83.5	102	89.8			12.4
	Pyraclostrobin	82.1	85.1	84.7			0.495
	Silvex	105	131	142			7.88
	Sucralose	96.1	81.1	89.4			8.35
	Thiamethoxam	86.1	122	119			2.85
	Tolfenpyrad	60.7	57.4	58.9			2.53
	Triclopyr	83.0	103	103			0.246
SM 2320 B-2011	Total Alkalinity	100				1.29	
SM 2540 C-2015	TDS	105				7.07	
SM 2540 D-2015	TSS	95.9					
SM 4500-F- C-2011	Fluoride	100	103	103			0.0
SM 5310 B-2011	Organic Carbon	96.7	97.6	97.0			0.412

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2408651
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2408651
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2408656
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2408656
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2408651
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2408651
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2408652
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2408652
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2408652
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2408652
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2408653
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2408657
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2408657
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2408655
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2408651
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2408656
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2408651
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2408651
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2408651
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2408652

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	05/10/2023			05/10/2023 15:07	Alexis Price	2408651
EPA 180.1 Rev. 2.0	05/10/2023			05/10/2023 14:33	Anna M. Plaviak	2408651
EPA 200.7 Rev. 4.4	05/10/2023	05/11/2023 13:35	George D Taylor	05/17/2023 00:16	McKinley C Carter	2408656
EPA 200.8 Rev. 5.4	05/10/2023	05/11/2023 13:35	George D Taylor	05/12/2023 19:31	Conrad Hartmann	2408656
	05/10/2023	05/11/2023 13:35	George D Taylor	05/15/2023 16:16	Conrad Hartmann	2408656
EPA 300.0 Rev. 2.1	05/10/2023			05/17/2023 13:28	James L Waggerby	2408651
EPA 350.1 Rev. 2.0	05/10/2023			05/16/2023 14:24	Khloe J Berg	2408652
EPA 351.2 Rev. 2.0	05/10/2023	05/17/2023 10:59	Dana G. Hughes	05/18/2023 11:06	Samantha L Bates	2408652
EPA 353.2 Rev. 2.0	05/10/2023			05/17/2023 11:30	Beverly Y. Sanders	2408652
EPA 365.1 Rev. 2.0	05/10/2023	05/12/2023 12:59	Adam P Silver	05/15/2023 15:20	James L Waggerby	2408652
EPA 365.1 Rev. 2.0 dissolved	05/10/2023			05/10/2023 15:19	Elise M. Gillis	2408653
EPA 8270E	05/10/2023	05/11/2023 08:00	Fe-Val Siddell	05/12/2023 23:41	Arthur Maknenko	2408657
	05/10/2023	05/11/2023 08:00	Fe-Val Siddell	05/14/2023 19:24	Vandana T. Nagar	2408657
EPA 8321B	05/10/2023	05/12/2023 09:00	Hoor Shaik	05/13/2023 01:24	Juyoung Kim	2408655
	05/10/2023	05/12/2023 09:00	Hoor Shaik	05/15/2023 13:19	Juyoung Kim	2408655
	05/10/2023	05/12/2023 12:00	Manjita Shrestha	05/12/2023 17:06	Manjita Shrestha	2408655
	05/10/2023	05/12/2023 12:00	Manjita Shrestha	05/13/2023 21:02	Manjita Shrestha	2408655
SM 2320 B-2011	05/10/2023			05/19/2023 00:38	Dale L. Simmons	2408651
SM 2340 B-2011	05/10/2023			05/17/2023 00:16	McKinley C Carter	2408656
SM 2540 C-2015	05/10/2023			05/12/2023 15:01	Yijie Li	2408651
SM 2540 D-2015	05/10/2023			05/12/2023 15:01	Yijie Li	2408651
SM 4500-F- C-2011	05/10/2023			05/15/2023 22:13	Dale L. Simmons	2408651
SM 5310 B-2011	05/10/2023			05/15/2023 18:52	Elise M. Gillis	2408652