

Chemical Analysis Report

CEN-DIST-2023-06-20-02

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

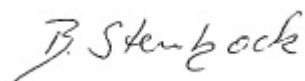
Event Description: **Run 22**
Request ID: **RQ-2023-06-19-20**
Customer: **CEN-DIST**
Project ID: **SMP**

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

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

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

Date Certified: 12-JUL-2023 18:13



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 WINONA AT CENTER OF LAKE

Collection Date/Time: 06/19/2023 12:53

Field ID: G2CE0288

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418460	EPA 200.7 Rev. 4.4	Calcium	3.51		mg/L	P431650	
		Iron	30	U	ug/L	P431650	
		Magnesium	3.38		mg/L	P431650	
		Potassium	3.5		mg/L	P431650	
		Sodium	8.4		mg/L	P431650	
		Strontium	22.3		ug/L	P431650	
		Tin	3.0	U	ug/L	P431650	
		Titanium	0.75	U	ug/L	P431650	
		Vanadium	2.0	U	ug/L	P431650	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P431650	
		Aluminum	37		ug/L	P431650	
		Antimony	0.13	I	ug/L	P431650	
		Arsenic	0.67		ug/L	P431650	
		Barium	11.1		ug/L	P431650	
		Beryllium	0.010	U	ug/L	P431650	
		Boron	29.6		ug/L	P431650	
		Cadmium	0.020	U	ug/L	P431650	
		Chromium	0.40	U	ug/L	P431650	
		Cobalt	0.020	U	ug/L	P431650	
		Copper	0.40	U	ug/L	P431650	
		Lead	0.20	U	ug/L	P431650	
		Manganese	9.73		ug/L	P431650	
		Molybdenum	0.17	I	ug/L	P431650	
		Nickel	0.50	U	ug/L	P431650	
		Selenium	0.20	U	ug/L	P431650	
		Silver	0.010	U	ug/L	P431650	
		Thallium	0.10	U	ug/L	P431650	
	SM 2340 B-2011	Hardness	22.7		mg/L	P431650	

Sample Location: LAKE TALMADGE S OF CENTER

Collection Date/Time: 06/19/2023 14:10

Field ID: G2CE0267

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418455	DEP SOP: NU-094-1	Color (true)	97		PCU	P431508	
	EPA 180.1 Rev. 2.0	Turbidity	1.5	A	NTU	P431511	
	EPA 300.0 Rev. 2.1	Chloride	20	A	mg Cl/L	P431829	
		Sulfate	6.5	A	mg SO4/L	P431832	
	SM 2320 B-2011	Total Alkalinity	14		mg CaCO3/L	P431770	
	SM 2540 C-2015	TDS	85		mg/L	P431842	
	SM 2540 D-2015	TSS	4	I	mg/L	P431776	
	SM 4500-F- C-2011	Fluoride	0.042	I	mg F/L	P431773	MS
2418456	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P431819	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P431652	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431813	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P431598	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P431708	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high 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.

Sample Location: LAKE LOUISE AT CENTER OF SOUTH LOBE

Collection Date/Time: 06/19/2023 11:33

Field ID: G2CE0065

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418461	EPA 200.7 Rev. 4.4	Calcium	6.50		mg/L	P431650	
		Iron	30	U	ug/L	P431650	
		Magnesium	4.43		mg/L	P431650	
		Potassium	6.7		mg/L	P431650	
		Sodium	9.7		mg/L	P431650	
		Strontium	31.0		ug/L	P431650	
		Tin	3.0	U	ug/L	P431650	
		Titanium	0.75	U	ug/L	P431650	
		Vanadium	2.0	U	ug/L	P431650	
		Zinc	5.0	U	ug/L	P431650	
	EPA 200.8 Rev. 5.4	Aluminum	27		ug/L	P431650	
		Antimony	0.085	I	ug/L	P431650	
		Arsenic	1.27		ug/L	P431650	
		Barium	9.66		ug/L	P431650	
		Beryllium	0.010	U	ug/L	P431650	
		Boron	68.5		ug/L	P431650	
		Cadmium	0.020	U	ug/L	P431650	
		Chromium	0.40	U	ug/L	P431650	
		Cobalt	0.020	U	ug/L	P431650	
		Copper	0.40	U	ug/L	P431650	
		Lead	0.20	U	ug/L	P431650	
		Manganese	17.0		ug/L	P431650	
		Molybdenum	0.15	U	ug/L	P431650	
		Nickel	0.50	U	ug/L	P431650	
		Selenium	0.20	U	ug/L	P431650	
		Silver	0.010	U	ug/L	P431650	
		Thallium	0.10	U	ug/L	P431650	
	SM 2340 B-2011	Hardness	34.5		mg/L	P431650	
2418464	EPA 8270E	Oxybenzone**	10	U	ng/L	P431467	
		Acetochlor	0.20	U	ng/L	P431467	
		Octinoxate**	20	U	ng/L	P431467	
		Alachlor	0.41	U	ng/L	P431467	
		Avobenzone**	100	U	ng/L	P431467	
		Ametryn	1.1	U	ng/L	P431467	
		Atrazine	1.4		ng/L	P431467	
		PBDE-47**	4.1	U	ng/L	P431467	
		Atrazine Desethyl	1.3	U	ng/L	P431467	
		PBDE-99**	5.1	U	ng/L	P431467	
		Azinphos Methyl	3.1	U	ng/L	P431467	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P431467	
		Azoxystrobin	0.41	U	ng/L	P431467	
		Bromacil	0.61	U	ng/L	P431467	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P431467	

Field ID: G2CE0065

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418464	EPA 8270E	Butylate	0.20	U	ng/L	P431467	
		Dechlorane Plus**	31	U	ng/L	P431467	
		Caffeine**	7.7	U	ng/L	P431467	
		Dechlorane 602**	5.1	U	ng/L	P431467	
		Carbophenothion	0.51	U	ng/L	P431467	
		Dechlorane 603**	4.1	U	ng/L	P431467	MS
		Carfentrazone Ethyl	0.15	U	ng/L	P431467	
		Hexabromobenzene**	6.1	U	ng/L	P431467	
		Chlorfenapyr	0.31	U	ng/L	P431467	
		PBB-153**	8.2	U	ng/L	P431467	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431467	
		Pentabromotoluene**	3.1	U	ng/L	P431467	
		Chlorpyrifos Methyl	0.10	U	ng/L	P431467	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P431467	
		Coumaphos	1.1	U	ng/L	P431467	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	I	ng/L	P431467	
		Cyanazine	5.1	U	ng/L	P431467	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P431467	
		Cyprodinil	0.20	U	ng/L	P431467	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P431467	
		Demeton	3.6	U	ng/L	P431467	
		Diazinon	0.13	U	ng/L	P431467	
		Difenoconazole	0.61	U	ng/L	P431467	
		Dimethenamid	0.10	U	ng/L	P431467	
		Dimethomorph	0.31	U	ng/L	P431467	
		Disulfoton	0.61	U	ng/L	P431467	
		Dithiopyr	1.0	U	ng/L	P431467	
		EPTC	0.51	U	ng/L	P431467	
		Ethion	0.31	U	ng/L	P431467	
		Ethoprop	0.13	U	ng/L	P431467	
		Etridiazole	0.10	U	ng/L	P431467	
		Fenamiphos	0.46	U	ng/L	P431467	
		Fenbuconazole	0.51	U	ng/L	P431467	
		Fipronil	0.20	U	ng/L	P431467	
		Fipronil Desulfinyl**	0.10	U	ng/L	P431467	
		Fipronil Sulfide	0.10	U	ng/L	P431467	
		Fipronil Sulfone	0.10	U	ng/L	P431467	
		Fluazifop-P-butyl	0.10	U	ng/L	P431467	
		Fludioxonil	0.10	U	ng/L	P431467	
		Flumioxazin	3.1	U	ng/L	P431467	
		Flutolanil	0.10	U	ng/L	P431467	
		Fluxapyroxad	26		ng/L	P431467	
		Fonofos	0.15	U	ng/L	P431467	
		Hexazinone	0.51	U	ng/L	P431467	

Field ID: G2CE0065

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418464	EPA 8270E	Imazalil	0.66	U	ng/L	P431467	CCV, MS, RPD
		Iprodione	0.51	UJ	ng/L	P431467	
		Loratadine**	0.31	U	ng/L	P431467	
		Malathion	0.36	U	ng/L	P431467	
		Metalaxyl	0.51	U	ng/L	P431467	MS
		Metolachlor	0.77	U	ng/L	P431467	
		Metribuzin	0.41	U	ng/L	P431467	
		Mevinphos	1.0	U	ng/L	P431467	
		Molinate	0.26	U	ng/L	P431467	
		Myclobutanil	0.36	U	ng/L	P431467	
		Naled	2.6	U	ng/L	P431467	
		Napropamide	0.71	U	ng/L	P431467	
		Norflurazon	1.0	U	ng/L	P431467	
		Oxadiazon	0.36	U	ng/L	P431467	
		Oxyfluorfen	0.20	U	ng/L	P431467	
		Parathion Ethyl	0.15	U	ng/L	P431467	
		Parathion Methyl	0.20	U	ng/L	P431467	
		Pendimethalin	0.77	U	ng/L	P431467	
		Phenytol**	5.4	U	ng/L	P431467	
		Phorate	0.26	U	ng/L	P431467	
		Prodiamine	0.20	U	ng/L	P431467	
		Prometon	3.1	U	ng/L	P431467	
		Prometryn	0.36	U	ng/L	P431467	
		Pronamide	0.10	U	ng/L	P431467	
		Propanil	0.10	U	ng/L	P431467	
		Propargite	0.82	U	ng/L	P431467	
		Propiconazole	0.61	U	ng/L	P431467	
		Pyraflufen Ethyl	0.31	U	ng/L	P431467	
		Pyridaben	1.4	U	ng/L	P431467	
		Pyriproxyfen	0.26	U	ng/L	P431467	
		Simazine	0.26	U	ng/L	P431467	
		Stirophos	0.41	U	ng/L	P431467	
		Sulfentrazone	1.4	U	ng/L	P431467	
		Tebuconazole	1.4	U	ng/L	P431467	
		Terbufos	0.20	U	ng/L	P431467	
		Terbuthylazine	0.20	U	ng/L	P431467	
		Thiobencarb	0.51	U	ng/L	P431467	
		Triadimefon	0.15	U	ng/L	P431467	

Ref. Method and Comment:

EPA 8270E: MS accuracy for atrazine 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: P431508

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431511

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431650

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: P431650

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: P431829

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: P431832

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431819

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431652

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431813

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431598

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

Reference Method: EPA 8270E
Batch ID: P431467

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
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	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
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	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
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	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
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.50	U	ng/L
Metaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	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	6.4	I	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Terbutylazine	0.20	U	ng/L
Terbutylazine	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
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
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: SM 2320 B-2011

Batch ID: P431770

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

Reference Method: SM 2540 C-2015

Batch ID: P431842

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P431776

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P431773

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P431708

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: P431508

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431511

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	105		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	101		P	85 - 115
Sodium	101		P	85 - 115
Strontium	99.5		P	85 - 115
Tin	101		P	85 - 115
Titanium	100		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	99.2		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	102		P	85 - 115
Barium	106		P	85 - 115
Beryllium	99.8		P	85 - 115
Boron	103		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	98.9		P	85 - 115
Cobalt	98.8		P	85 - 115
Copper	98.2		P	85 - 115
Lead	96.0		P	85 - 115
Manganese	98.8		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	99.2		P	85 - 115
Selenium	102		P	85 - 115
Silver	104		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431829

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431832

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431652

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431813

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.0		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	42 - 162
Acetochlor	80.6		P	69 - 123
Alachlor	88.2		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	96.1		P	73 - 118
Atrazine Desethyl	88.1		P	32 - 125
Avobenzone	121		P	40 - 203
Azinphos Methyl	107		P	36 - 197
Azoxystrobin	103		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	55.5		P	27 - 85.0
Caffeine	100		P	40 - 137
Carbophenothion	102		P	54 - 132
Carfentrazone Ethyl	115		P	60 - 142
Chlorfenapyr	88.4		P	53 - 117
Chlorpyrifos Ethyl	96.4		P	59 - 116
Chlorpyrifos Methyl	94.6		P	66 - 119
Coumaphos	71.4		P	11 - 234
Cyanazine	193		P	61 - 248
Cyprodinil	107		P	50 - 147
Dechlorane 602	98.0		P	50 - 150
Dechlorane 603	134		P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dechlorane Plus	99.8		P	47 - 182
Demeton	88.1		P	30 - 138
Diazinon	110		P	67 - 126
Difenoconazole	129		P	38 - 205
Dimethenamid	91.5		P	57 - 111
Dimethomorph	191		P	16 - 212
Disulfoton	101		P	46 - 126
Dithiopyr	103		P	62 - 115
EPTC	51.5		P	28 - 80.0
Ethion	83.4		P	24 - 122
Ethoprop	95.6		P	62 - 113
Etridiazole	70.0		P	28 - 92.0
Fenamiphos	92.8		P	57 - 128
Fenbuconazole	70.7		P	52 - 155
Fipronil	106		P	63 - 130
Fipronil Desulfinyl	100		P	61 - 130
Fipronil Sulfide	93.5		P	56 - 117
Fipronil Sulfone	83.8		P	52 - 118
Fluazifop-P-butyl	96.3		P	61 - 128
Fludioxonil	89.7		P	59 - 129
Flumioxazin	114		P	30 - 250
Flutolanil	93.6		P	53 - 127
Fluxapyroxad	103		P	42 - 132
Fonofos	93.8		P	61 - 110
Hexabromobenzene	133		P	50 - 150
Hexazinone	98.8		P	46 - 139
Imazalil	101		P	40 - 139
Iprodione	118		P	40 - 146
Loratadine	181		P	10 - 224
Malathion	101		P	61 - 135
Metalaxyl	97.4		P	58 - 121
Metolachlor	101		P	64 - 118
Metribuzin	95.8		P	45 - 245
Mevinphos	97.1		P	49 - 118
Molinate	57.3		P	42 - 92.0
Myclobutanil	98.0		P	55 - 127
Naled	48.5		P	10 - 114
Napropamide	85.0		P	39 - 121
Norflurazon	62.3		P	55 - 129
Octinoxate	123		P	26 - 166
Oxadiazon	94.6		P	54 - 115
Oxybenzone	128		P	49 - 135
Oxyfluorfen	112		P	64 - 139
Parathion Ethyl	103		P	70 - 111
Parathion Methyl	104		P	76 - 136
PBB-153	130		P	50 - 150
PBDE-47	112		P	41 - 148
PBDE-99	96.6		P	38 - 147
Pendimethalin	112		P	52 - 118
Pentabromotoluene	123		P	50 - 150
Phenytoin	22.8		P	10 - 162
Phorate	87.6		P	40 - 122

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	48.2		P	26 - 141
Prometon	98.7		P	54 - 122
Prometryn	118		P	61 - 128
Pronamide	114		P	72 - 121
Propanil	119		P	45 - 144
Propargite	65.7		P	10 - 199
Propiconazole	89.1		P	56 - 127
Pyraflufen Ethyl	97.7		P	56 - 140
Pyridaben	125		P	26 - 211
Pyriproxyfen	85.5		P	33 - 194
Simazine	91.1		P	67 - 121
Stirophos	69.2		P	20 - 142
Sulfentrazone	77.2		P	21 - 144
Tebuconazole	70.0		P	10 - 122
Terbufos	109		P	60 - 129
Terbutylazine	86.5		P	69 - 113
Tetradecachloro-m-terphenyl	141		P	70 - 200
Thiobencarb	93.6		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	96.6		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	121		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: SM 2320 B-2011

Batch ID: P431770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.1		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P431842

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.7		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P431776

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.2		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P431773

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	105		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P431708

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

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P431708

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P431650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418460	Calcium	107	107	P/P	80 - 120
2418460	Iron	109	108	P/P	80 - 120
2418460	Magnesium	106	105	P/P	80 - 120
2418460	Potassium	103	103	P/P	80 - 120
2418460	Sodium	99.3		P	80 - 120
2418460	Strontium	102	101	P/P	80 - 120
2418460	Tin	105	101	P/P	80 - 120
2418460	Titanium	103	103	P/P	80 - 120
2418460	Vanadium	104	104	P/P	80 - 120
2418460	Zinc	102	103	P/P	80 - 120
2418916	Calcium	109		P	80 - 120
2418916	Iron	108		P	80 - 120
2418916	Magnesium	108		P	80 - 120
2418916	Potassium	101		P	80 - 120
2418916	Sodium	105		P	80 - 120
2418916	Strontium	102		P	80 - 120
2418916	Tin	104		P	80 - 120
2418916	Titanium	96.5		P	80 - 120
2418916	Vanadium	105		P	80 - 120
2418916	Zinc	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P431650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418460	Aluminum	103	103	P/P	80 - 120
2418460	Antimony	104	106	P/P	80 - 120
2418460	Arsenic	101	102	P/P	80 - 120
2418460	Barium	106	106	P/P	80 - 120
2418460	Beryllium	101	101	P/P	80 - 120
2418460	Boron	104	103	P/P	80 - 120
2418460	Cadmium	101	102	P/P	80 - 120
2418460	Chromium	97.5	97.7	P/P	80 - 120
2418460	Cobalt	98.4	98.0	P/P	80 - 120
2418460	Copper	99.2	98.7	P/P	80 - 120
2418460	Lead	96.8	97.8	P/P	80 - 120
2418460	Manganese	99.1	98.6	P/P	80 - 120
2418460	Molybdenum	101	102	P/P	80 - 120
2418460	Nickel	98.2	97.9	P/P	80 - 120
2418460	Selenium	103	100	P/P	80 - 120
2418460	Silver	104	104	P/P	80 - 120
2418460	Thallium	104	106	P/P	80 - 120
2418916	Aluminum	99.0		P	80 - 120
2418916	Antimony	101		P	80 - 120
2418916	Arsenic	98.7		P	80 - 120
2418916	Barium	105		P	80 - 120
2418916	Beryllium	93.7		P	80 - 120
2418916	Boron	102		P	80 - 120
2418916	Cadmium	101		P	80 - 120
2418916	Chromium	97.3		P	80 - 120
2418916	Cobalt	98.3		P	80 - 120
2418916	Copper	97.0		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418916	Lead	95.2		P	80 - 120
2418916	Manganese	98.7		P	80 - 120
2418916	Molybdenum	96.2		P	80 - 120
2418916	Nickel	97.2		P	80 - 120
2418916	Selenium	96.9		P	80 - 120
2418916	Silver	102		P	80 - 120
2418916	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418455	Chloride	106		P	90 - 110
2418708	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418455	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418456	Ammonia-N	97.8	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431652

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418510	Kjeldahl Nitrogen	99.6	94.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431813

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418426	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418429	Total-P	100	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	130	113	P/P	26 - 165
2417501	Acetochlor	70.3	103	P/P	67 - 124
2417501	Alachlor	80.8	78.5	P/P	60 - 120

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	Ametryn	150	143	P/P	54 - 216
2417501	Atrazine Desethyl	115	111	P/P	15 - 122
2417501	Avobenzone	132	121	P/P	37 - 178
2417501	Azinphos Methyl	153	122	P/P	40 - 292
2417501	Azoxystrobin	132	126	P/P	35 - 220
2417501	Bromacil	108	114	P/P	45 - 127
2417501	Butylate	58.2	55.0	P/P	20 - 83.0
2417501	Caffeine	108	107	P/P	10 - 194
2417501	Carbophenothion	125	106	P/P	57 - 127
2417501	Carfentrazone Ethyl	138	126	P/P	51 - 141
2417501	Chlorfenapyr	99.6	93.5	P/P	46 - 111
2417501	Chlorpyrifos Ethyl	93.8	101	P/P	52 - 120
2417501	Chlorpyrifos Methyl	87.8	90.0	P/P	63 - 119
2417501	Coumaphos	179	145	P/P	10 - 228
2417501	Cyanazine	213	180	P/P	59 - 241
2417501	Cyprodinil	103	78.3	P/P	47 - 146
2417501	Dechlorane 602	121	113	P/P	50 - 150
2417501	Dechlorane 603	160	156	F/F	50 - 150
2417501	Dechlorane Plus	97.6	98.0	P/P	50 - 150
2417501	Demeton	98.1	93.3	P/P	40 - 136
2417501	Diazinon	110	114	P/P	69 - 132
2417501	Difenoconazole	229	200	P/P	57 - 258
2417501	Dimethenamid	89.4	96.3	P/P	54 - 110
2417501	Dimethomorph	165	184	P/P	28 - 210
2417501	Disulfoton	111	107	P/P	43 - 133
2417501	Dithiopyr	111	110	P/P	39 - 116
2417501	EPTC	49.4	44.8	P/P	20 - 78.0
2417501	Ethion	93.8	81.4	P/P	17 - 119
2417501	Ethoprop	101	100	P/P	66 - 120
2417501	Etridiazole	83.4	66.1	P/P	28 - 96.0
2417501	Fenamiphos	82.4	91.8	P/P	41 - 126
2417501	Fenbuconazole	108	95.7	P/P	42 - 169
2417501	Fipronil	118	106	P/P	61 - 132
2417501	Fipronil Desulfinyl	111	99.5	P/P	56 - 132
2417501	Fipronil Sulfide	94.9	95.4	P/P	48 - 119
2417501	Fipronil Sulfone	95.7	101	P/P	42 - 131
2417501	Fluazifop-P-butyl	80.5	94.7	P/P	53 - 131
2417501	Fludioxonil	91.7	105	P/P	56 - 127
2417501	Flumioxazin	214	194	P/P	19 - 300
2417501	Flutolanil	96.1	99.9	P/P	41 - 127
2417501	Fluxapyroxad	123	112	P/P	42 - 172
2417501	Fonofos	90.1	87.3	P/P	59 - 113
2417501	Hexabromobenzene	145	139	P/P	50 - 150
2417501	Hexazinone	108	109	P/P	66 - 122
2417501	Imazalil	107	94.7	P/P	21 - 283
2417501	Iprodione	94.9	190	P/F	43 - 150
2417501	Loratadine	137	154	P/P	23 - 201
2417501	Malathion	115	105	P/P	58 - 136
2417501	Metalaxyl	111	89.2	P/P	55 - 120
2417501	Metolachlor	80.0	98.7	P/P	57 - 121
2417501	Metribuzin	104	105	P/P	58 - 294
2417501	Mevinphos	143	110	F/P	50 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	Molinate	54.2	60.1	P/P	42 - 93.0
2417501	Myclobutanil	118	102	P/P	55 - 125
2417501	Naled	44.9	46.4	P/P	18 - 200
2417501	Napropamide	78.1	103	P/P	39 - 110
2417501	Norflurazon	120	104	P/P	48 - 128
2417501	Octinoxate	128	126	P/P	21 - 159
2417501	Oxadiazon	106	95.2	P/P	43 - 112
2417501	Oxybenzone	141	136	P/P	41 - 142
2417501	Oxyfluorfen	118	121	P/P	64 - 153
2417501	Parathion Ethyl	106	96.7	P/P	69 - 114
2417501	Parathion Methyl	96.6	82.6	P/P	79 - 139
2417501	PBB-153	149	144	P/P	50 - 150
2417501	PBDE-47	121	118	P/P	27 - 144
2417501	PBDE-99	117	109	P/P	18 - 150
2417501	Pendimethalin	123	105	P/P	50 - 139
2417501	Pentabromotoluene	132	123	P/P	50 - 150
2417501	Phenytoin	41.7	36.9	P/P	10 - 146
2417501	Phorate	127	112	P/P	54 - 161
2417501	Prodiamine	55.7	53.0	P/P	30 - 161
2417501	Prometon	102	99.2	P/P	45 - 134
2417501	Prometryn	111	116	P/P	45 - 137
2417501	Pronamide	131	117	P/P	65 - 133
2417501	Propanil	138	122	P/P	49 - 142
2417501	Propargite	92.3	80.8	P/P	10 - 203
2417501	Propiconazole	124	105	P/P	38 - 146
2417501	Pyraflufen Ethyl	126	111	P/P	34 - 153
2417501	Pyridaben	171	137	P/P	12 - 192
2417501	Pyriproxyfen	134	108	P/P	33 - 180
2417501	Simazine	96.2	95.6	P/P	51 - 157
2417501	Stirophos	53.1	83.0	P/P	10 - 128
2417501	Sulfentrazone	119	87.3	P/P	53 - 186
2417501	Tebuconazole	98.0	91.2	P/P	10 - 133
2417501	Terbufos	121	116	P/P	65 - 139
2417501	Terbuthylazine	90.5	91.7	P/P	66 - 117
2417501	Tetradecachloro-m-terphenyl	126	135	P/P	70 - 200
2417501	Thiobencarb	97.1	91.4	P/P	51 - 119
2417501	Tri-o-cresyl Phosphate	129	129	P/P	31 - 144
2417501	Triadimefon	114	90.4	P/P	48 - 119
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	108	104	P/P	50 - 150
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120	121	P/P	50 - 150
2417501	Tris(2-chloroethyl) phosphate (TCEP)	120	121	P/P	70 - 180

Reference Method: SM 4500-F- C-2011
Batch ID: P431773

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418428	Fluoride	105	107	P/F	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431708

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

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P431708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418854	Organic Carbon	93.1	95.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418428	Color (true)	19.6	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418455	Turbidity	7.17	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418460	Calcium	0.0610	Spike	P	0 - 20
2418460	Iron	0.715	Spike	P	0 - 20
2418460	Magnesium	0.502	Spike	P	0 - 20
2418460	Potassium	0.0725	Spike	P	0 - 20
2418460	Sodium	0.618	Spike	P	0 - 20
2418460	Strontium	0.387	Spike	P	0 - 20
2418460	Tin	3.97	Spike	P	0 - 20
2418460	Titanium	0.0837	Spike	P	0 - 20
2418460	Vanadium	0.108	Spike	P	0 - 20
2418460	Zinc	0.0786	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418460	Aluminum	0.204	Spike	P	0 - 20
2418460	Antimony	1.27	Spike	P	0 - 20
2418460	Arsenic	0.374	Spike	P	0 - 20
2418460	Barium	0.0980	Spike	P	0 - 20
2418460	Beryllium	0.211	Spike	P	0 - 20
2418460	Boron	0.308	Spike	P	0 - 20
2418460	Cadmium	1.20	Spike	P	0 - 20
2418460	Chromium	0.174	Spike	P	0 - 20
2418460	Cobalt	0.391	Spike	P	0 - 20
2418460	Copper	0.527	Spike	P	0 - 20
2418460	Lead	1.07	Spike	P	0 - 20
2418460	Manganese	0.398	Spike	P	0 - 20
2418460	Molybdenum	0.495	Spike	P	0 - 20
2418460	Nickel	0.344	Spike	P	0 - 20
2418460	Selenium	2.93	Spike	P	0 - 20
2418460	Silver	0.197	Spike	P	0 - 20
2418460	Thallium	1.28	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418455	Chloride	5.09	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418455	Sulfate	5.19	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418456	Ammonia-N	1.45	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418510	Kjeldahl Nitrogen	3.12	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431813

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418426	NO2NO3-N	0.962	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418429	Total-P	1.84	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	13.8	Spike	P	0 - 37
2417501	Acetochlor	19.0	Spike	P	0 - 28
2417501	Alachlor	2.84	Spike	P	0 - 30
2417501	Ametryn	4.65	Spike	P	0 - 32
2417501	Atrazine	10.6	Spike	P	0 - 41
2417501	Atrazine Desethyl	2.28	Spike	P	0 - 36
2417501	Avobenzene	8.68	Spike	P	0 - 36
2417501	Azinphos Methyl	22.5	Spike	P	0 - 75
2417501	Azoxystrobin	4.97	Spike	P	0 - 39

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	Bromacil	5.35	Spike	P	0 - 33
2417501	Butylate	5.78	Spike	P	0 - 44
2417501	Caffeine	0.565	Spike	P	0 - 74
2417501	Carbophenothion	16.3	Spike	P	0 - 25
2417501	Carfentrazone Ethyl	9.06	Spike	P	0 - 27
2417501	Chlorfenapyr	6.32	Spike	P	0 - 24
2417501	Chlorpyrifos Ethyl	7.31	Spike	P	0 - 26
2417501	Chlorpyrifos Methyl	2.55	Spike	P	0 - 26
2417501	Coumaphos	21.0	Spike	P	0 - 28
2417501	Cyanazine	16.8	Spike	P	0 - 48
2417501	Cyprodinil	26.9	Spike	P	0 - 29
2417501	Dechlorane 602	6.80	Spike	P	0 - 30
2417501	Dechlorane 603	2.43	Spike	P	0 - 30
2417501	Dechlorane Plus	0.446	Spike	P	0 - 30
2417501	Demeton	5.03	Spike	P	0 - 33
2417501	Diazinon	3.94	Spike	P	0 - 29
2417501	Difenoconazole	13.9	Spike	P	0 - 34
2417501	Dimethenamid	7.49	Spike	P	0 - 39
2417501	Dimethomorph	10.4	Spike	P	0 - 51
2417501	Disulfoton	4.41	Spike	P	0 - 30
2417501	Dithiopyr	1.73	Spike	P	0 - 26
2417501	EPTC	9.68	Spike	P	0 - 43
2417501	Ethion	14.1	Spike	P	0 - 79
2417501	Ethoprop	0.229	Spike	P	0 - 29
2417501	Etridiazole	23.1	Spike	P	0 - 33
2417501	Fenamiphos	10.8	Spike	P	0 - 40
2417501	Fenbuconazole	11.7	Spike	P	0 - 74
2417501	Fipronil	10.6	Spike	P	0 - 29
2417501	Fipronil Desulfinyl	10.7	Spike	P	0 - 32
2417501	Fipronil Sulfide	0.573	Spike	P	0 - 30
2417501	Fipronil Sulfone	5.81	Spike	P	0 - 33
2417501	Fluazifop-P-butyl	16.3	Spike	P	0 - 38
2417501	Fludioxonil	13.5	Spike	P	0 - 29
2417501	Flumioxazin	9.81	Spike	P	0 - 51
2417501	Flutolanil	3.88	Spike	P	0 - 25
2417501	Fluxapyroxad	8.32	Spike	P	0 - 45
2417501	Fonofos	3.09	Spike	P	0 - 27
2417501	Hexabromobenzene	4.15	Spike	P	0 - 30
2417501	Hexazinone	1.22	Spike	P	0 - 30
2417501	Imazalil	12.1	Spike	P	0 - 100
2417501	Iprodione	66.9	Spike	F	0 - 33
2417501	Loratadine	11.1	Spike	P	0 - 56
2417501	Malathion	8.67	Spike	P	0 - 37
2417501	Metalaxyl	21.5	Spike	P	0 - 40
2417501	Metolachlor	8.37	Spike	P	0 - 29
2417501	Metribuzin	0.823	Spike	P	0 - 45
2417501	Mevinphos	26.5	Spike	P	0 - 29
2417501	Molinate	10.3	Spike	P	0 - 33
2417501	Myclobutanil	14.5	Spike	P	0 - 26
2417501	Naled	3.26	Spike	P	0 - 37
2417501	Napropamide	27.1	Spike	P	0 - 44

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	Norflurazon	14.2	Spike	P	0 - 30
2417501	Octinoxate	1.36	Spike	P	0 - 45
2417501	Oxadiazon	10.7	Spike	P	0 - 28
2417501	Oxybenzone	3.25	Spike	P	0 - 46
2417501	Oxyfluorfen	2.79	Spike	P	0 - 28
2417501	Parathion Ethyl	9.05	Spike	P	0 - 31
2417501	Parathion Methyl	15.6	Spike	P	0 - 29
2417501	PBB-153	3.48	Spike	P	0 - 30
2417501	PBDE-47	2.65	Spike	P	0 - 36
2417501	PBDE-99	6.90	Spike	P	0 - 40
2417501	Pendimethalin	16.2	Spike	P	0 - 33
2417501	Pentabromotoluene	7.27	Spike	P	0 - 30
2417501	Phenytoin	12.1	Spike	P	0 - 100
2417501	Phorate	12.7	Spike	P	0 - 36
2417501	Prodiamine	4.96	Spike	P	0 - 71
2417501	Prometon	2.66	Spike	P	0 - 36
2417501	Prometryn	4.96	Spike	P	0 - 28
2417501	Pronamide	11.8	Spike	P	0 - 24
2417501	Propanil	12.4	Spike	P	0 - 28
2417501	Propargite	13.3	Spike	P	0 - 43
2417501	Propiconazole	17.2	Spike	P	0 - 33
2417501	Pyraflufen Ethyl	12.9	Spike	P	0 - 29
2417501	Pyridaben	21.8	Spike	P	0 - 30
2417501	Pyriproxyfen	20.8	Spike	P	0 - 79
2417501	Simazine	0.694	Spike	P	0 - 29
2417501	Stirophos	44.0	Spike	P	0 - 61
2417501	Sulfentrazone	30.4	Spike	P	0 - 33
2417501	Tebuconazole	7.20	Spike	P	0 - 69
2417501	Terbufos	3.50	Spike	P	0 - 29
2417501	Terbuthylazine	1.32	Spike	P	0 - 32
2417501	Tetradecachloro-m-terphenyl	6.71	Spike	P	0 - 30
2417501	Thiobencarb	5.54	Spike	P	0 - 26
2417501	Tri-o-cresyl Phosphate	0.0811	Spike	P	0 - 33
2417501	Triadimefon	23.2	Spike	P	0 - 28
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	4.34	Spike	P	0 - 30
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.26	Spike	P	0 - 30
2417501	Tris(2-chloroethyl) phosphate (TCEP)	0.582	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P431770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418428	Total Alkalinity	1.03	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P431842

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418363	TDS	6.16	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P431773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418428	Fluoride	0.979	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P431708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418854	Organic Carbon	0.966	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2418464
Field Sample ID: G2CE0065

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	89.9	P	20 - 200
EPA 8270E	Simazine-d10	95.1	P	62 - 142
EPA 8270E	Terbufos-d10	82.7	P	58 - 132
EPA 8270E	Terphenyl-d14	84.6	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A119911

Included Lab Sample IDs: 2418455

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119913

Included Lab Sample IDs: 2418455

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119975

Included Lab Sample IDs: 2418456

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.2	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A119991

Included Lab Sample IDs: 2418456

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119997

Included Lab Sample IDs: 2418456

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.3	98.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120013

Included Lab Sample IDs: 2418460, 2418461

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	104	101	P/P	90 - 110
Antimony	102	102	P/P	90 - 110
Arsenic	101	99.8	P/P	90 - 110
Barium	104	102	P/P	90 - 110
Beryllium	101	99.4	P/P	90 - 110
Boron	97.0	101	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	101	98.9	P/P	90 - 110
Cobalt	100	96.9	P/P	90 - 110
Copper	98.6	95.8	P/P	90 - 110
Lead	94.9	93.5	P/P	90 - 110
Manganese	100	98.9	P/P	90 - 110
Molybdenum	99.7	100	P/P	90 - 110
Nickel	100	97.0	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Silver	103	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A120013

Included Lab Sample IDs: 2418460, 2418461

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

Reference Method: EPA 8270E

Run ID: A120027

Included Lab Sample IDs: 2418464

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.2		P	80 - 120
Avobenzone	96.1		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	93.6		P	80 - 120
Hexabromobenzene	97.2		P	80 - 120
Octinoxate	92.7		P	80 - 120
Oxybenzone	96.5		P	80 - 120
PBB-153	97.3		P	80 - 120
PBDE-47	94.3		P	80 - 120
PBDE-99	97.4		P	80 - 120
Pentabromotoluene	95.9		P	80 - 120
Tetradecachloro-m-terphenyl	85.0		P	80 - 120
Tri-o-cresyl Phosphate	95.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	87.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.0		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A120036

Included Lab Sample IDs: 2418455

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.6	94.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120036

Included Lab Sample IDs: 2418455

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120043

Included Lab Sample IDs: 2418456

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120045

Included Lab Sample IDs: 2418456

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120045

Included Lab Sample IDs: 2418456

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120051

Included Lab Sample IDs: 2418455

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Sulfate	101	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120155

Included Lab Sample IDs: 2418464

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.3		P	80 - 120
Alachlor	84.8		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	90.2		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	107		P	80 - 120
Bromacil	99.9		P	80 - 120
Butylate	95.1		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	96.3		P	80 - 120
Carfentrazone Ethyl	100		P	80 - 120
Chlorfenapyr	82.8		P	80 - 120
Chlorpyrifos Ethyl	84.6		P	80 - 120
Chlorpyrifos Methyl	96.3		P	80 - 120
Coumaphos	99.1		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	95.8		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	98.5		P	80 - 120
Difenoconazole	116		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	84.8		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	83.7		P	80 - 120
Ethoprop	99.1		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	92.6		P	80 - 120
Fenbuconazole	92.3		P	80 - 120
Fipronil	90.3		P	80 - 120
Fipronil Desulfinyl	99.2		P	80 - 120
Fipronil Sulfide	98.6		P	80 - 120
Fipronil Sulfone	96.9		P	80 - 120
Fluazifop-P-butyl	98.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120155
Included Lab Sample IDs: 2418464

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fludioxonil	101		P	80 - 120
Flumioxazin	112		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	91.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	97.6		P	80 - 120
Iprodione	55.3*		F	80 - 120
Loratadine	95.3		P	80 - 120
Malathion	82.0		P	80 - 120
Metalaxyl	83.6		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	86.6		P	80 - 120
Myclobutanil	87.0		P	80 - 120
Naled	96.4		P	80 - 120
Napropamide	106		P	80 - 120
Norflurazon	90.7		P	80 - 120
Oxadiazon	99.5		P	80 - 120
Oxyfluorfen	99.2		P	80 - 120
Parathion Ethyl	98.6		P	80 - 120
Parathion Methyl	87.1		P	80 - 120
Pendimethalin	102		P	80 - 120
Phenytoin	94.7		P	80 - 120
Phorate	92.7		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	99.1		P	80 - 120
Propargite	97.6		P	80 - 120
Propiconazole	83.2		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	84.5		P	80 - 120
Stirophos	83.3		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	83.9		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A120209
Included Lab Sample IDs: 2418460, 2418461

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A120209

Included Lab Sample IDs: 2418460, 2418461

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	101	103	P/P	90 - 110
Magnesium	100	102	P/P	90 - 110
Potassium	100	100	P/P	90 - 110
Sodium	98.8	99.1	P/P	90 - 110
Strontium	98.9	102	P/P	90 - 110
Tin	100	104	P/P	90 - 110
Titanium	100	101	P/P	90 - 110
Vanadium	100	102	P/P	90 - 110
Zinc	99.3	103	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)	100					19.6	
EPA 180.1 Rev. 2.0	Turbidity	99.4					7.17	
EPA 200.7 Rev. 4.4	Calcium	105	107	107	109			0.0610
	Iron	105	109	108	108			0.715
	Magnesium	105	106	105	108			0.502
	Potassium	101	103	103	101			0.0725
	Sodium	101	99.3	105				0.618
	Strontium	99.5	102	101	102			0.387
	Tin	101	105	101	104			3.97
	Titanium	100	103	103	96.5			0.0837
	Vanadium	100	104	104	105			0.108
	Zinc	99.2	102	103	104			0.0786
EPA 200.8 Rev. 5.4	Aluminum	103	103	103	99.0			0.204
	Antimony	103	104	106	101			1.27
	Arsenic	102	101	102	98.7			0.374
	Barium	106	106	106	105			0.0980
	Beryllium	99.8	101	101	93.7			0.211
	Boron	103	104	103	102			0.308
	Cadmium	101	101	102	101			1.20
	Chromium	98.9	97.5	97.7	97.3			0.174
	Cobalt	98.8	98.4	98.0	98.3			0.391
	Copper	98.2	99.2	98.7	97.0			0.527
	Lead	96.0	96.8	97.8	95.2			1.07
	Manganese	98.8	99.1	98.6	98.7			0.398
	Molybdenum	101	101	102	96.2			0.495
	Nickel	99.2	98.2	97.9	97.2			0.344
	Selenium	102	103	100	96.9			2.93
	Silver	104	104	104	102			0.197
	Thallium	102	104	106	104			1.28
EPA 300.0 Rev. 2.1	Chloride	103	106	105			5.09	
	Sulfate	102	101				5.19	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	97.8	99.4				1.45
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6	99.6	94.4				3.12
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104				0.962
EPA 365.1 Rev. 2.0	Total-P	98.0	100	102				1.84
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	130	113				13.8
	Acetochlor	80.6	70.3	103				19.0
	Alachlor	88.2	80.8	78.5				2.84
	Ametryn	107	150	143				4.65
	Atrazine	96.1						10.6
	Atrazine Desethyl	88.1	115	111				2.28
	Avobenzone	121	132	121				8.68
	Azinphos Methyl	107	153	122				22.5
	Azoxystrobin	103	132	126				4.97
	Bromacil	104	108	114				5.35
	Butylate	55.5	58.2	55.0				5.78
	Caffeine	100	108	107				0.565
	Carbophenothion	102	125	106				16.3
	Carfentrazone Ethyl	115	138	126				9.06
	Chlorfenapyr	88.4	99.6	93.5				6.32
	Chlorpyrifos Ethyl	96.4	93.8	101				7.31
	Chlorpyrifos Methyl	94.6	87.8	90.0				2.55

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Coumaphos	71.4	179	145		21.0
	Cyanazine	193	213	180		16.8
	Cyprodinil	107	103	78.3		26.9
	Dechlorane 602	98.0	121	113		6.80
	Dechlorane 603	134	160	156		2.43
	Dechlorane Plus	99.8	97.6	98.0		0.446
	Demeton	88.1	98.1	93.3		5.03
	Diazinon	110	110	114		3.94
	Difenoconazole	129	229	200		13.9
	Dimethenamid	91.5	89.4	96.3		7.49
	Dimethomorph	191	165	184		10.4
	Disulfoton	101	111	107		4.41
	Dithiopyr	103	111	110		1.73
	EPTC	51.5	49.4	44.8		9.68
	Ethion	83.4	93.8	81.4		14.1
	Ethoprop	95.6	101	100		0.229
	Etridiazole	70.0	83.4	66.1		23.1
	Fenamiphos	92.8	82.4	91.8		10.8
	Fenbuconazole	70.7	108	95.7		11.7
	Fipronil	106	118	106		10.6
	Fipronil Desulfinyl	100	111	99.5		10.7
	Fipronil Sulfide	93.5	94.9	95.4		0.573
	Fipronil Sulfone	83.8	95.7	101		5.81
	Fluazifop-P-butyl	96.3	80.5	94.7		16.3
	Fludioxonil	89.7	91.7	105		13.5
	Flumioxazin	114	214	194		9.81
	Flutolanil	93.6	96.1	99.9		3.88
	Fluxapyroxad	103	123	112		8.32
	Fonofos	93.8	90.1	87.3		3.09
	Hexabromobenzene	133	145	139		4.15
	Hexazinone	98.8	108	109		1.22
	Imazalil	101	107	94.7		12.1
	Iprodione	118	94.9	190		66.9
	Loratadine	181	137	154		11.1
	Malathion	101	115	105		8.67
	Metalaxyl	97.4	111	89.2		21.5
	Metolachlor	101	80.0	98.7		8.37
	Metribuzin	95.8	104	105		0.823
	Mevinphos	97.1	143	110		26.5
	Molinate	57.3	54.2	60.1		10.3
	Myclobutanil	98.0	118	102		14.5
	Naled	48.5	44.9	46.4		3.26
	Napropamide	85.0	78.1	103		27.1
	Norflurazon	62.3	120	104		14.2
	Octinoxate	123	128	126		1.36
	Oxadiazon	94.6	106	95.2		10.7
	Oxybenzone	128	141	136		3.25
	Oxyfluorfen	112	118	121		2.79
	Parathion Ethyl	103	106	96.7		9.05
	Parathion Methyl	104	96.6	82.6		15.6
	PBB-153	130	149	144		3.48
	PBDE-47	112	121	118		2.65
	PBDE-99	96.6	117	109		6.90
	Pendimethalin	112	123	105		16.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Pentabromotoluene	123	132	123			7.27
	Phenytoln	22.8	41.7	36.9			12.1
	Phorate	87.6	127	112			12.7
	Prodiamine	48.2	55.7	53.0			4.96
	Prometon	98.7	102	99.2			2.66
	Prometryn	118	111	116			4.96
	Pronamide	114	131	117			11.8
	Propanil	119	138	122			12.4
	Propargite	65.7	92.3	80.8			13.3
	Propiconazole	89.1	124	105			17.2
	Pyraflufen Ethyl	97.7	126	111			12.9
	Pyridaben	125	171	137			21.8
	Pyriproxyfen	85.5	134	108			20.8
	Simazine	91.1	96.2	95.6			0.694
	Stirophos	69.2	53.1	83.0			44.0
	Sulfentrazone	77.2	119	87.3			30.4
	Tebuconazole	70.0	98.0	91.2			7.20
	Terbufos	109	121	116			3.50
	Terbuthylazine	86.5	90.5	91.7			1.32
	Tetradecachloro-m-terphenyl	141	126	135			6.71
	Thiobencarb	93.6	97.1	91.4			5.54
	Tri-o-cresyl Phosphate	123	129	129			0.0811
	Triadimefon	96.6	114	90.4			23.2
	Tris(1-chloro-2-propyl) phosphate (TCPP)	121	108	104			4.34
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	120	121			1.26
	Tris(2-chloroethyl) phosphate (TCEP)	117	120	121			0.582
SM 2320 B-2011	Total Alkalinity	95.1				1.03	
SM 2540 C-2015	TDS	97.7				6.16	
SM 2540 D-2015	TSS	91.2					
SM 4500-F- C-2011	Fluoride	105	105	107			0.979
SM 5310 B-2011	Organic Carbon	95.0	93.1	95.0			0.966

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2418455
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2418455
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2418460, 2418461
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2418460, 2418461
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2418455
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2418455
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2418456
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2418456
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2418456
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2418456
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2418464
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2418464
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2418455
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2418460, 2418461

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2418455
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2418455
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2418455
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2418456

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	06/20/2023			06/20/2023 13:27	Chandler E Cox	2418455
EPA 180.1 Rev. 2.0	06/20/2023			06/20/2023 12:53	Alexis Price	2418455
EPA 200.7 Rev. 4.4	06/20/2023	06/22/2023 12:45	George D Taylor	07/06/2023 13:56	Samatha Luckman	2418460
	06/20/2023	06/22/2023 12:45	George D Taylor	07/06/2023 14:27	Samatha Luckman	2418461
EPA 200.8 Rev. 5.4	06/20/2023	06/22/2023 12:45	George D Taylor	06/23/2023 14:27	Emily M Philpot	2418461
	06/20/2023	06/22/2023 12:45	George D Taylor	06/23/2023 14:46	Emily M Philpot	2418460
EPA 300.0 Rev. 2.1	06/20/2023			06/26/2023 19:14	James L Waggeberby	2418455
EPA 350.1 Rev. 2.0	06/20/2023			06/27/2023 11:49	Khloe J Berg	2418456
EPA 351.2 Rev. 2.0	06/20/2023	06/22/2023 12:16	Dana G. Hughes	06/23/2023 12:48	Ping Hua	2418456
EPA 353.2 Rev. 2.0	06/20/2023			06/27/2023 10:37	Beverly Y. Sanders	2418456
EPA 365.1 Rev. 2.0	06/20/2023	06/21/2023 14:57	Adam P Silver	06/22/2023 14:21	Simonne.V. Calhoun	2418456
EPA 8270E	06/20/2023	06/21/2023 08:00	Fe-Val Siddell	06/24/2023 01:44	Arthur Maknenko	2418464
	06/20/2023	06/21/2023 08:00	Fe-Val Siddell	06/29/2023 21:52	Vandana T. Nagar	2418464
SM 2320 B-2011	06/20/2023			06/24/2023 03:38	Dale L. Simmons	2418455
SM 2340 B-2011	06/20/2023			07/06/2023 13:56	Samatha Luckman	2418460
	06/20/2023			07/06/2023 14:27	Samatha Luckman	2418461
SM 2540 C-2015	06/20/2023			06/21/2023 15:02	Yijie Li	2418455
SM 2540 D-2015	06/20/2023			06/21/2023 15:02	Yijie Li	2418455
SM 4500-F- C-2011	06/20/2023			06/24/2023 03:38	Dale L. Simmons	2418455
SM 5310 B-2011	06/20/2023			06/22/2023 19:03	Khloe J Berg	2418456