

Chemical Analysis Report

SO-DIST-2020-07-08-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

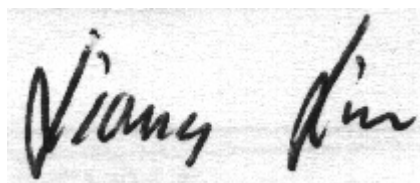
Event Description: **2020 SMP : Sarasota Cricks**
Request ID: **RQ-2020-07-06-50**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 29-JUL-2020 13:33

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: South Creek @HonoreAve

Collection Date/Time: 07/07/2020 09:55

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181539	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P384250	
	EPA 300.0 Rev. 2.1	Chloride	59		mg Cl/L	P384527	
		Sulfate	200		mg SO4/L	P384901	
	SM 2120 B-2011	Color (true)	96		PCU	P384257	
	SM 2320 B-2011	Total Alkalinity	181		mg CaCO3/L	P384612	
	SM 2540 C-2011	TDS	637		mg/L	P384799	
	SM 2540 D-2011	TSS	4	I	mg/L	P384806	
	SM 4500 F-C-2011	Fluoride	0.43		mg F/L	P384925	
2181540	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P384440	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P384350	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P384497	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P384409	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P384347	
2181541	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.072		mg P/L	P384242	
2181561	EPA 8321B	Aldicarb	0.020	U	ug/L	P384331	
		Aldicarb Sulfone	0.0020	U	ug/L	P384331	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P384331	
		Carbaryl	0.0020	U	ug/L	P384331	
		Carbofuran	0.0020	U	ug/L	P384331	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P384331	
		Methiocarb	0.0020	U	ug/L	P384331	
		Methomyl	0.0020	U	ug/L	P384331	
		Oxamyl	0.0020	U	ug/L	P384331	
		Propoxur	0.0020	U	ug/L	P384331	
2181562		2,4-D	0.011		ug/L	P384189	
		Acesulfame K**	0.10	U	ug/L	P384231	MS
		AMPA**	0.41		ug/L	P384231	
		Sucralose**	1.9		ug/L	P384231	
		Acetaminophen**	0.0080	U	ug/L	P384189	
		Acetamiprid**	0.0020	U	ug/L	P384189	
		Endothall**	0.25	U	ug/L	P384231	
		Glufosinate**	0.10	U	ug/L	P384231	
		Glyphosate**	0.61		ug/L	P384231	
		Afidopyropen**	0.0020	U	ug/L	P384189	
		Bentazon	0.070		ug/L	P384189	
		Benzovindiflupyr**	0.0020	U	ug/L	P384189	
		Carbamazepine**	0.0013	I	ug/L	P384189	
		Clothianidin**	0.0058	I	ug/L	P384189	
		Dinotefuran**	0.0020	U	ug/L	P384189	
		Diuron	0.0020	U	ug/L	P384189	
		Fenuron	0.016	U	ug/L	P384189	
		Fluridone**	0.10		ug/L	P384189	
		Imazapyr**	0.25		ug/L	P384189	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181562	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P384189	
		Ibuprofen**	0.020	U	ug/L	P384189	
		Imidacloprid	0.0061	I	ug/L	P384189	
		Linuron	0.0040	U	ug/L	P384189	
		Mandestrobin**	0.0020	U	ug/L	P384189	
		MCP	0.0020	U	ug/L	P384189	
		Naproxen**	0.0080	U	ug/L	P384189	
		Primidone**	0.0085	I	ug/L	P384189	
		Pyraclostrobin**	0.0020	U	ug/L	P384189	
		Thiamethoxam**	0.0022	I	ug/L	P384189	
		Tolfenpyrad**	0.0020	U	ug/L	P384189	
		Triclopyr**	0.0040	U	ug/L	P384189	
2181567	EPA 8270E	Aldrin	4.3	U	ng/L	P384486	
		Alpha-BHC	2.2	U	ng/L	P384486	
		Alpha-Chlordane	1.1	U	ng/L	P384486	
		Beta-BHC	8.7	U	ng/L	P384486	
		Beta-Cyfluthrin**	16	U	ng/L	P384486	
		Bifenthrin**	4.3	U	ng/L	P384486	
		Delta-BHC	8.7	U	ng/L	P384486	
		Gamma-BHC	8.7	U	ng/L	P384486	
		Chlorothalonil	2.2	UJ	ng/L	P384486	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P384486	
		Cypermethrin	22	U	ng/L	P384486	
		Dacthal**	1.1	U	ng/L	P384486	
		DDD-p,p'	5.4	U	ng/L	P384486	
		DDE-p,p'	5.4	U	ng/L	P384486	
		DDT-p,p'	6.5	U	ng/L	P384486	
		Dicofol	33	U	ng/L	P384486	
		Dieldrin	4.3	U	ng/L	P384486	
		Endosulfan I	4.3	U	ng/L	P384486	
		Endosulfan II	4.3	U	ng/L	P384486	
		Endosulfan Sulfate	2.2	U	ng/L	P384486	
		Endrin	2.2	U	ng/L	P384486	
		Endrin Aldehyde	2.2	U	ng/L	P384486	
		Endrin Ketone	2.2	U	ng/L	P384486	
		Ethalfuralin**	3.3	U	ng/L	P384486	
		Gamma-Chlordane	1.1	U	ng/L	P384486	
		Heptachlor	1.6	U	ng/L	P384486	
		Heptachlor Epoxide	2.2	U	ng/L	P384486	
		Hexachlorobenzene	2.2	U	ng/L	P384486	
		Lambda-Cyhalothrin**	16	U	ng/L	P384486	
		Methoxychlor	4.3	U	ng/L	P384486	
		Mirex	2.2	U	ng/L	P384486	
		Permethrin	11	U	ng/L	P384486	
		Phenothrin**	33	U	ng/L	P384486	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181567	EPA 8270E	Prallethrin**	27	UJ	ng/L	P384486	CCV
		Trans-Nonachlor**	1.1	U	ng/L	P384486	
		Trifluralin	2.7	U	ng/L	P384486	
		Chlordane	5.4	U	ng/L	P384486	
		Toxaphene	33	U	ng/L	P384486	
2181568	EPA 8270E	Acetochlor	0.24	U	ng/L	P384079	RPD
		Alachlor	0.24	U	ng/L	P384079	
		Ametryn	4.3		ng/L	P384079	
		Atrazine	26		ng/L	P384079	
		Atrazine Desethyl	5.5	I	ng/L	P384079	
		Azinphos Methyl	2.0	U	ng/L	P384079	
		Bromacil	0.49	U	ng/L	P384079	
		Butylate	0.39	U	ng/L	P384079	
		Carbophenothion	0.49	U	ng/L	P384079	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P384079	
		Chlorpyrifos Methyl	0.049	U	ng/L	P384079	
		Cyanazine	3.2	U	ng/L	P384079	
		Demeton	1.5	U	ng/L	P384079	
		Diazinon	0.12	U	ng/L	P384079	
		Dimethenamid**	0.098	U	ng/L	P384079	
		Disulfoton	0.49	U	ng/L	P384079	
		Dithiopyr**	0.17	I	ng/L	P384079	
		EPTC	1.2	U	ng/L	P384079	
		Ethion	0.15	U	ng/L	P384079	
		Ethoprop	0.098	U	ng/L	P384079	
		Fenamiphos	0.49	U	ng/L	P384079	
		Fipronil	0.24	U	ng/L	P384079	
		Fipronil Desulfinyl**	0.80		ng/L	P384079	
		Fipronil Sulfide	0.44	I	ng/L	P384079	
		Fipronil Sulfone	1.1		ng/L	P384079	
		Flumioxazin**	1.7	U	ng/L	P384079	
		Fonofos	0.20	U	ng/L	P384079	
		Hexazinone	2.2		ng/L	P384079	
		Imazalil**	0.73	U	ng/L	P384079	
		Malathion	0.34	U	ng/L	P384079	
		Metalaxyl	0.73	U	ng/L	P384079	
		Metolachlor	41		ng/L	P384079	
		Metribuzin	3.2	U	ng/L	P384079	
		Mevinphos	0.49	U	ng/L	P384079	
		Molinate	0.29	U	ng/L	P384079	
		Naled**	1.5	U	ng/L	P384079	
		Norflurazon	0.49	U	ng/L	P384079	
		Oxadiazon	1.1		ng/L	P384079	
		Parathion Ethyl	0.24	U	ng/L	P384079	
		Parathion Methyl	0.54	U	ng/L	P384079	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181568	EPA 8270E	Pendimethalin	0.98	U	ng/L	P384079	
		Phorate	0.24	UJ	ng/L	P384079	LCS
		Prodiamine**	0.17	UJ	ng/L	P384079	RPD
		Prometon	0.88	U	ng/L	P384079	
		Prometryn	0.20	U	ng/L	P384079	
		Pronamide**	0.15	U	ng/L	P384079	
		Propiconazole**	0.78	I	ng/L	P384079	
		Simazine	1.5	I	ng/L	P384079	
		Sulfentrazone**	1.8	I	ng/L	P384079	
		Tebuconazole**	0.49	U	ng/L	P384079	
		Terbufos	0.098	U	ng/L	P384079	
		Terbuthylazine	0.42	U	ng/L	P384079	
2181571	EPA 200.7 Rev. 4.4	Barium	40.8		ug/L	P384495	
		Calcium	124		mg/L	P384495	
		Iron	530		ug/L	P384495	
		Magnesium	23.0		mg/L	P384495	
		Potassium	3.2		mg/L	P384495	
		Sodium	41.6		mg/L	P384495	
		Zinc	5.0	U	ug/L	P384495	
	EPA 200.8 Rev. 5.4	Aluminum	54		ug/L	P384495	
		Antimony	0.18	I	ug/L	P384495	
		Arsenic	2.52		ug/L	P384495	
		Boron**	57.1		ug/L	P384495	
		Cadmium	0.020	U	ug/L	P384495	
		Chromium	0.46	I	ug/L	P384495	
		Copper	0.40	U	ug/L	P384495	
		Lead	0.20	U	ug/L	P384495	
		Nickel	0.58	I	ug/L	P384495	
		Selenium	0.35	I	ug/L	P384495	
		Silver	0.010	U	ug/L	P384495	
		Thallium	0.10	U	ug/L	P384495	
		Hardness	405		mg/L	P384495	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

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

EPA 8270E: MS accuracy for 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.

Sample Location: Curry(Tidal)@AlbeeFarm

Collection Date/Time: 07/07/2020 10:45

Field ID: G3SD0066

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181545	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P384249	
	EPA 300.0 Rev. 2.1	Bromide	8.0		mg Br/L	P384895	
		Sulfate	440		mg SO4/L	P384531	
	SM 2320 B-2011	Total Alkalinity	96		mg CaCO3/L	P384612	
	SM 2540 D-2011	TSS	3	UA	mg/L	P384802	
	SM 4500 F-C-2011	Fluoride	0.40		mg F/L	P384925	
2181546	EPA 350.1 Rev. 2.0	Ammonia-N	0.077		mg N/L	P384436	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P384351	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.095		mg N/L	P384342	
	EPA 365.1 Rev. 2.0	Total-P	0.66		mg P/L	P384404	
	SM 5310 B-2011	Organic Carbon	22		mg C/L	P384701	
2181547	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.55		mg P/L	P384244	
2181565	EPA 8321B	2,4-D	0.018		ug/L	P384189	
		Acesulfame K**	0.10	UJ	ug/L	P384231	MS, SUR
		AMPA**	1.0	U	ug/L	P384231	
		Sucralose**	0.28		ug/L	P384231	
		Acetaminophen**	0.0080	U	ug/L	P384189	
		Acetamiprid**	0.0020	U	ug/L	P384189	
		Endothall**	0.25	UJ	ug/L	P384231	SUR
		Glufosinate**	1.0	U	ug/L	P384231	
		Glyphosate**	1.0	U	ug/L	P384231	
		Afidopyropen**	0.0020	U	ug/L	P384189	
		Bentazon	0.0049		ug/L	P384189	
		Benzovindiflupyr**	0.0020	U	ug/L	P384189	
		Carbamazepine**	8.0E-04	U	ug/L	P384189	
		Clothianidin**	0.0020	U	ug/L	P384189	
		Dinotefuran**	0.023		ug/L	P384189	
		Diuron	0.0020	U	ug/L	P384189	
		Fenuron	0.016	U	ug/L	P384189	
		Fluridone**	0.0024	I	ug/L	P384189	
		Imazapyr**	0.15		ug/L	P384189	
		Hydrocodone**	0.0020	U	ug/L	P384189	
		Ibuprofen**	0.020	U	ug/L	P384189	
		Imidacloprid	0.0077	I	ug/L	P384189	
		Linuron	0.0040	U	ug/L	P384189	
		Mandestrobin**	0.0020	U	ug/L	P384189	
		MCPP	0.0020	U	ug/L	P384189	
		Naproxen**	0.0080	U	ug/L	P384189	
		Primidone**	0.0040	U	ug/L	P384189	
		Pyraclostrobin**	0.0020	U	ug/L	P384189	
		Thiamethoxam**	0.0046	I	ug/L	P384189	
		Tolfenpyrad**	0.0020	U	ug/L	P384189	
		Triclopyr**	0.0040	U	ug/L	P384189	

Field ID: G3SD0066

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181573	EPA 200.7 Rev. 4.4	Iron	560		ug/L	P384203	
		Manganese	37		ug/L	P384203	
	EPA 200.8 Rev. 5.4	Zinc	15	U	ug/L	P384203	
		Aluminum	50	U	ug/L	P384203	
		Antimony	0.20	U	ug/L	P384203	
		Arsenic	1.96		ug/L	P384203	
		Cadmium	0.080	U	ug/L	P384203	
		Chromium	4.0	U	ug/L	P384203	
		Copper	1.6	U	ug/L	P384203	
		Lead	0.80	U	ug/L	P384203	
		Nickel	2.0	U	ug/L	P384203	
		Selenium	0.80	U	ug/L	P384203	
		Silver	0.040	U	ug/L	P384203	
		Thallium	1.0	U	ug/L	P384203	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Bromide: Batch matrix spike recoveries for one of two spiked samples and batch relative percent difference are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 8321B: MDL for some parameters elevated due to matrix interference. Results confirmed in sample duplicate. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Hatchett@PinebrookRd

Collection Date/Time: 07/07/2020 11:20

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181542	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P384250	
	EPA 300.0 Rev. 2.1	Chloride	180		mg Cl/L	P384527	
		Sulfate	180		mg SO4/L	P384531	
	SM 2120 B-2011	Color (true)	60		PCU	P384257	
	SM 2320 B-2011	Total Alkalinity	234		mg CaCO3/L	P384612	
	SM 2540 C-2011	TDS	770		mg/L	P384799	
	SM 2540 D-2011	TSS	2	I	mg/L	P384806	
	SM 4500 F-C-2011	Fluoride	0.21		mg F/L	P384925	
2181543	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P384440	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P384350	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.45		mg N/L	P384497	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P384409	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P384347	
2181544	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.073		mg P/L	P384243	
2181563	EPA 8321B	Aldicarb	0.020	U	ug/L	P384331	
		Aldicarb Sulfone	0.0020	U	ug/L	P384331	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P384331	
		Carbaryl	0.0020	U	ug/L	P384331	
		Carbofuran	0.0020	U	ug/L	P384331	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P384331	
		Methiocarb	0.0020	U	ug/L	P384331	
		Methomyl	0.0020	U	ug/L	P384331	
		Oxamyl	0.0020	U	ug/L	P384331	
		Propoxur	0.0020	U	ug/L	P384331	
		2,4-D	0.0020	U	ug/L	P384189	
		Acesulfame K**	0.10	U	ug/L	P384231	MS
2181564		AMPA**	0.31	I	ug/L	P384231	
		Sucralose**	0.99		ug/L	P384231	
		Acetaminophen**	0.0080	U	ug/L	P384189	
		Acetamiprid**	0.0020	U	ug/L	P384189	
		Endothall**	0.25	U	ug/L	P384231	
		Glufosinate**	0.10	U	ug/L	P384231	
		Glyphosate**	0.74		ug/L	P384231	
		Afidopyropen**	0.0020	U	ug/L	P384189	
		Bentazon	0.018		ug/L	P384189	
		Benzovindiflupyr**	0.0020	U	ug/L	P384189	
		Carbamazepine**	8.0E-04	U	ug/L	P384189	
		Clothianidin**	0.0021	I	ug/L	P384189	
		Dinotefuran**	0.0020	U	ug/L	P384189	
		Diuron	0.013		ug/L	P384189	
		Fenuron	0.016	U	ug/L	P384189	
		Fluridone**	0.82		ug/L	P384189	
		Imazapyr**	0.83		ug/L	P384189	

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181564	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P384189	
		Ibuprofen**	0.020	U	ug/L	P384189	
		Imidacloprid	0.0051	I	ug/L	P384189	
		Linuron	0.0040	U	ug/L	P384189	
		Mandestrobin**	0.0020	U	ug/L	P384189	
		MCP	0.0020	U	ug/L	P384189	
		Naproxen**	0.0080	U	ug/L	P384189	
		Primidone**	0.011	I	ug/L	P384189	
		Pyraclostrobin**	0.0020	U	ug/L	P384189	
		Thiamethoxam**	0.0020	U	ug/L	P384189	
		Tolfenpyrad**	0.0020	U	ug/L	P384189	
		Triclopyr**	0.0040	U	ug/L	P384189	
2181569	EPA 8270E	Aldrin	4.5	U	ng/L	P384486	
		Alpha-BHC	2.3	U	ng/L	P384486	
		Alpha-Chlordane	1.1	U	ng/L	P384486	
		Beta-BHC	9.0	U	ng/L	P384486	
		Beta-Cyfluthrin**	17	U	ng/L	P384486	
		Bifenthrin**	4.5	U	ng/L	P384486	
		Delta-BHC	9.0	U	ng/L	P384486	
		Gamma-BHC	9.0	U	ng/L	P384486	
		Chlorothalonil	2.3	UJ	ng/L	P384486	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P384486	
		Cypermethrin	23	U	ng/L	P384486	
		Dacthal**	1.1	U	ng/L	P384486	
		DDD-p,p'	5.7	U	ng/L	P384486	
		DDE-p,p'	5.7	U	ng/L	P384486	
		DDT-p,p'	6.8	U	ng/L	P384486	
		Dicofol	34	U	ng/L	P384486	
		Dieldrin	4.5	U	ng/L	P384486	
		Endosulfan I	4.5	U	ng/L	P384486	
		Endosulfan II	4.5	U	ng/L	P384486	
		Endosulfan Sulfate	2.3	U	ng/L	P384486	
		Endrin	2.3	U	ng/L	P384486	
		Endrin Aldehyde	2.3	U	ng/L	P384486	
		Endrin Ketone	2.3	U	ng/L	P384486	
		Ethalfuralin**	3.4	U	ng/L	P384486	
		Gamma-Chlordane	1.1	U	ng/L	P384486	
		Heptachlor	1.7	U	ng/L	P384486	
		Heptachlor Epoxide	2.3	U	ng/L	P384486	
		Hexachlorobenzene	2.3	U	ng/L	P384486	
		Lambda-Cyhalothrin**	17	U	ng/L	P384486	
		Methoxychlor	4.5	U	ng/L	P384486	
		Mirex	2.3	U	ng/L	P384486	
		Permethrin	11	U	ng/L	P384486	
		Phenothrin**	34	U	ng/L	P384486	

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181569	EPA 8270E	Prallethrin**	28	UJ	ng/L	P384486	CCV
		Trans-Nonachlor**	1.1	U	ng/L	P384486	
		Trifluralin	2.8	U	ng/L	P384486	
		Chlordane	5.7	U	ng/L	P384486	
		Toxaphene	34	U	ng/L	P384486	
2181570	EPA 8270E	Acetochlor	0.26	U	ng/L	P384079	RPD
		Alachlor	0.26	U	ng/L	P384079	
		Ametryn	15		ng/L	P384079	
		Atrazine	49		ng/L	P384079	
		Atrazine Desethyl	7.5		ng/L	P384079	
		Azinphos Methyl	2.1	U	ng/L	P384079	
		Bromacil	0.52	U	ng/L	P384079	
		Butylate	0.41	U	ng/L	P384079	
		Carbophenothion	0.52	U	ng/L	P384079	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P384079	
		Chlorpyrifos Methyl	0.052	U	ng/L	P384079	
		Cyanazine	3.4	U	ng/L	P384079	
		Demeton	1.6	U	ng/L	P384079	
		Diazinon	0.13	U	ng/L	P384079	
		Dimethenamid**	0.10	U	ng/L	P384079	
		Disulfoton	0.52	U	ng/L	P384079	
		Dithiopyr**	0.15	I	ng/L	P384079	
		EPTC	1.3	U	ng/L	P384079	
		Ethion	0.16	U	ng/L	P384079	
		Ethoprop	0.10	U	ng/L	P384079	
		Fenamiphos	0.52	U	ng/L	P384079	
		Fipronil	0.26	U	ng/L	P384079	
		Fipronil Desulfinyl**	1.2		ng/L	P384079	
		Fipronil Sulfide	0.78		ng/L	P384079	
		Fipronil Sulfone	2.2		ng/L	P384079	
		Flumioxazin**	1.8	U	ng/L	P384079	
		Fonofos	0.21	U	ng/L	P384079	
		Hexazinone	1.2	I	ng/L	P384079	
		Imazalil**	0.78	U	ng/L	P384079	
		Malathion	0.36	U	ng/L	P384079	
		Metalaxyl	0.78	U	ng/L	P384079	
		Metolachlor	0.52	U	ng/L	P384079	
		Metribuzin	3.4	U	ng/L	P384079	
		Mevinphos	0.52	U	ng/L	P384079	
		Molinate	0.31	U	ng/L	P384079	
		Naled**	1.6	U	ng/L	P384079	
		Norflurazon	0.52	U	ng/L	P384079	
		Oxadiazon	15		ng/L	P384079	
		Parathion Ethyl	0.26	U	ng/L	P384079	
		Parathion Methyl	0.57	U	ng/L	P384079	

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181570	EPA 8270E	Pendimethalin	1.0	U	ng/L	P384079	
		Phorate	0.26	UJ	ng/L	P384079	LCS
		Prodiamine**	0.18	UJ	ng/L	P384079	RPD
		Prometon	0.93	U	ng/L	P384079	
		Prometryn	0.21	U	ng/L	P384079	
		Pronamide**	0.16	U	ng/L	P384079	
		Propiconazole**	0.52	U	ng/L	P384079	
		Simazine	0.52	U	ng/L	P384079	
		Sulfentrazone**	32		ng/L	P384079	
		Tebuconazole**	0.52	U	ng/L	P384079	
		Terbufos	0.10	U	ng/L	P384079	
		Terbuthylazine	0.44	U	ng/L	P384079	
2181572	EPA 200.7 Rev. 4.4	Barium	41.3		ug/L	P384495	
		Calcium	158		mg/L	P384495	
		Iron	4.88E+03		ug/L	P384495	
		Magnesium	24.7		mg/L	P384495	
		Potassium	5.3		mg/L	P384495	
		Sodium	92.0		mg/L	P384495	
		Zinc	5.0	U	ug/L	P384495	
	EPA 200.8 Rev. 5.4	Aluminum	230		ug/L	P384495	
		Antimony	0.12	I	ug/L	P384495	
		Arsenic	3.65		ug/L	P384495	
		Boron**	67.5		ug/L	P384495	
		Cadmium	0.020	U	ug/L	P384495	
		Chromium	1.2	I	ug/L	P384495	
		Copper	4.27		ug/L	P384495	
		Lead	0.29	I	ug/L	P384495	
		Nickel	0.50	U	ug/L	P384495	
		Selenium	0.23	I	ug/L	P384495	
		Silver	0.010	U	ug/L	P384495	
		Thallium	0.10	U	ug/L	P384495	
		Hardness	496		mg/L	P384495	
	SM 2340B						

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

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

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

EPA 8270E: MS accuracy for 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.

Sample Location: Alligator Tidal @ US 41

Collection Date/Time: 07/07/2020 12:10

Field ID: G2SD0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181548	EPA 180.1 Rev. 2.0	Turbidity	5.2		NTU	P384249	
	EPA 300.0 Rev. 2.1	Sulfate	600		mg SO4/L	P384531	
	SM 2320 B-2011	Total Alkalinity	195	A	mg CaCO3/L	P384615	
	SM 2540 D-2011	TSS	6	I	mg/L	P384802	
	SM 4500 F-C-2011	Fluoride	0.11	I	mg F/L	P384927	
2181549	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P384436	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P384351	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.034		mg N/L	P384342	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P384404	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P384701	
2181550	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.16		mg P/L	P384244	
2181566	EPA 8321B	2,4-D	0.13		ug/L	P384189	
		Acesulfame K**	0.12	I J	ug/L	P384231	MS, SUR
		AMPA**	1.0	U	ug/L	P384231	
		Sucralose**	1.8		ug/L	P384231	
		Acetaminophen**	0.0080	U	ug/L	P384189	
		Acetamiprid**	0.0020	U	ug/L	P384189	
		Endothall**	0.25	UJ	ug/L	P384231	SUR
		Glufosinate**	1.0	U	ug/L	P384231	
		Glyphosate**	6.7		ug/L	P384231	
		Afidopyropen**	0.0020	U	ug/L	P384189	
		Bentazon	0.0098		ug/L	P384189	
		Benzovindiflupyr**	0.0020	U	ug/L	P384189	
		Carbamazepine**	0.0050		ug/L	P384189	
		Clothianidin**	0.0033	I	ug/L	P384189	
		Dinotefuran**	0.0020	U	ug/L	P384189	
		Diuron	0.0020	U	ug/L	P384189	
		Fenuron	0.016	U	ug/L	P384189	
		Fluridone**	0.0098		ug/L	P384189	
		Imazapyr**	0.12		ug/L	P384189	
		Hydrocodone**	0.0020	U	ug/L	P384189	
		Ibuprofen**	0.020	U	ug/L	P384189	
		Imidacloprid	0.037		ug/L	P384189	
		Linuron	0.0040	U	ug/L	P384189	
		Mandestrobin**	0.0020	U	ug/L	P384189	
		MCP	0.021		ug/L	P384189	
		Naproxen**	0.0080	U	ug/L	P384189	
		Primidone**	0.016	I	ug/L	P384189	
		Pyraclostrobin**	0.0020	U	ug/L	P384189	
		Thiamethoxam**	0.0020	U	ug/L	P384189	
		Tolfenpyrad**	0.0020	U	ug/L	P384189	
		Triclopyr**	0.0040	U	ug/L	P384189	
2181574	EPA 200.7 Rev. 4.4	Iron	120	I	ug/L	P384203	

Field ID: G2SD0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2181574	EPA 200.7 Rev. 4.4	Manganese	16		ug/L	P384203	
		Zinc	15	U	ug/L	P384203	
	EPA 200.8 Rev. 5.4	Aluminum	30	I	ug/L	P384203	
		Antimony	0.26	I	ug/L	P384203	
		Arsenic	2.14		ug/L	P384203	
		Cadmium	0.080	U	ug/L	P384203	
		Chromium	4.0	U	ug/L	P384203	
		Copper	1.6	U	ug/L	P384203	
		Lead	2.0	U	ug/L	P384203	
		Nickel	2.0	U	ug/L	P384203	
		Selenium	0.80	U	ug/L	P384203	
		Silver	0.040	U	ug/L	P384203	
		Thallium	1.0	U	ug/L	P384203	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 8321B: MDL for some parameters elevated due to matrix interference. Results confirmed in sample duplicate. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P384249

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P384250

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384203

Component	Result	Code	Units
Iron	30	U	ug/L
Manganese	1.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384495

Component	Result	Code	Units
Barium	1.0	U	ug/L
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
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384203

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	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 200.8 Rev. 5.4
Batch ID: P384495

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384495

Component	Result	Code	Units
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	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: P384527

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384531

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384895

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384901

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384436

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384440

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384350

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384351

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384342

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384497

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384404

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384409

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384242

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384243

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384244

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

Reference Method: EPA 8270E
Batch ID: P384079

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P384079

Component	Result	Code	Units
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Flumioxazin	1.8	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P384486

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	8.0	U	ng/L
Beta-Cyfluthrin	15	U	ng/L
Bifenthrin	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
Dacthal	1.0	U	ng/L
DDD-p,p'	5.0	U	ng/L
DDE-p,p'	5.0	U	ng/L
DDT-p,p'	6.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Prallethrin	25	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P384486

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P384189

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyrophen	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P384189

Component	Result	Code	Units
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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P384231

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P384331

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: SM 2120 B-2011

Batch ID: P384257

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P384257

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P384612

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

Reference Method: SM 2320 B-2011
Batch ID: P384615

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

Reference Method: SM 2540 C-2011
Batch ID: P384799

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P384802

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P384806

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P384925

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P384927

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P384347

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P384701

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	105		P	85 - 115
Manganese	102		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384495

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	106		P	85 - 115
Iron	105		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	105		P	85 - 115
Sodium	106		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	96.2		P	85 - 115
Antimony	95.7		P	85 - 115
Arsenic	97.3		P	85 - 115
Cadmium	97.5		P	85 - 115
Chromium	104		P	85 - 115
Copper	98.2		P	85 - 115
Lead	95.5		P	85 - 115
Nickel	97.6		P	85 - 115
Selenium	100		P	85 - 115
Silver	95.8		P	85 - 115
Thallium	97.1		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384495

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.5		P	85 - 115
Antimony	98.3		P	85 - 115
Arsenic	105		P	85 - 115
Boron	99.9		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	98.8		P	85 - 115
Copper	107		P	85 - 115
Lead	99.6		P	85 - 115
Nickel	103		P	85 - 115
Selenium	103		P	85 - 115
Silver	100		P	85 - 115
Thallium	103		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384527

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384531

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384895

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromide	96.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384436

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384440

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384350

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384351

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384342

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P384497

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P384404

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P384409

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P384242

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P384243

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P384244

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

Reference Method: EPA 8270E
 Batch ID: P384079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	83.5	96.5	P/P	71 - 122
Alachlor	86.4	98.9	P/P	70 - 121
Ametryn	98.6	109	P/P	49 - 137
Atrazine	91.3	104	P/P	76 - 125
Atrazine Desethyl	75.9	83.7	P/P	31 - 144
Azinphos Methyl	106	118	P/P	67 - 150
Bromacil	78.6	88.6	P/P	36 - 121
Butylate	49.8	53.3	P/P	33 - 88.0
Carbophenothion	91.0	109	P/P	50 - 150
Chlorpyrifos Ethyl	90.6	106	P/P	73 - 117
Chlorpyrifos Methyl	89.9	104	P/P	68 - 121
Cyanazine	95.9	109	P/P	20 - 250
Demeton	63.5	83.8	P/P	30 - 123
Diazinon	82.8	96.1	P/P	70 - 128
Dimethenamid	85.4	97.2	P/P	66 - 122
Disulfoton	64.4	87.1	P/P	46 - 124

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P384079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dithiopyr	81.7	95.7	P/P	69 - 122
EPTC	38.4	40.2	P/P	31 - 90.0
Ethion	90.8	109	P/P	45 - 135
Ethoprop	79.2	92.5	P/P	59 - 118
Fenamiphos	91.4	121	P/P	30 - 136
Fipronil	89.6	102	P/P	57 - 127
Fipronil Desulfinyl	96.0	107	P/P	51 - 122
Fipronil Sulfide	90.0	106	P/P	57 - 119
Fipronil Sulfone	92.0	107	P/P	51 - 119
Flumioxazin	152	151	P/P	70 - 200
Fonofos	80.7	102	P/P	60 - 120
Hexazinone	87.5	96.8	P/P	57 - 142
Imazalil	65.2	76.6	P/P	50 - 150
Malathion	101	115	P/P	67 - 128
Metaxyl	88.6	103	P/P	21 - 148
Metolachlor	81.8	97.1	P/P	70 - 120
Metribuzin	107	122	P/P	20 - 253
Mevinphos	70.2	83.4	P/P	47 - 116
Molinate	50.2	56.3	P/P	41 - 99.0
Naled	60.1	69.9	P/P	40 - 130
Norflurazon	93.0	106	P/P	54 - 127
Oxadiazon	83.6	96.9	P/P	65 - 122
Parathion Ethyl	82.4	96.2	P/P	71 - 113
Parathion Methyl	84.2	101	P/P	73 - 129
Pendimethalin	85.6	106	P/P	63 - 130
Phorate	107	134	P/F	48 - 118
Prodiamine	55.8	33.2	P/P	20 - 144
Prometon	78.9	91.3	P/P	53 - 120
Prometryn	84.1	95.6	P/P	63 - 119
Pronamide	88.6	101	P/P	50 - 150
Propiconazole	84.0	95.8	P/P	50 - 150
Simazine	93.7	104	P/P	77 - 129
Sulfentrazone	50.6	54.1	P/P	50 - 150
Tebuconazole	46.4	57.0	P/P	20 - 118
Terbufos	81.5	104	P/P	61 - 119
Terbuthylazine	86.8	98.7	P/P	75 - 119

Reference Method: EPA 8270E
Batch ID: P384486

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	33.8	31.1	P/P	20 - 87.0
Alpha-BHC	85.3	82.3	P/P	65 - 142
Alpha-Chlordane	91.7	85.5	P/P	58 - 106
Beta-BHC	92.3	86.4	P/P	65 - 179
Beta-Cyfluthrin	93.1	81.7	P/P	39 - 153
Bifenthrin	89.0	92.5	P/P	38 - 128
Chlorothalonil	126	72.8	P/P	20 - 214
Cis-Nonachlor	87.7	82.0	P/P	56 - 113
Cypermethrin	85.6	78.9	P/P	37 - 130
Dacthal	95.1	89.7	P/P	75 - 109
DDD-p,p'	96.2	95.1	P/P	66 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P384486

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	96.7	92.2	P/P	53 - 108
DDT-p,p'	95.7	86.9	P/P	57 - 133
Delta-BHC	101	87.4	P/P	68 - 187
Dicofol	88.7	81.8	P/P	66 - 123
Dieldrin	98.9	90.0	P/P	65 - 111
Endosulfan I	104	93.6	P/P	65 - 115
Endosulfan II	109	99.3	P/P	68 - 133
Endosulfan Sulfate	83.4	74.0	P/P	62 - 127
Endrin	108	97.2	P/P	64 - 122
Endrin Aldehyde	102	95.0	P/P	61 - 132
Endrin Ketone	102	93.8	P/P	66 - 120
Ethalfuralin	75.6	73.8	P/P	57 - 127
Gamma-BHC	95.3	91.2	P/P	71 - 158
Gamma-Chlordane	86.6	79.9	P/P	53 - 106
Heptachlor	83.5	74.0	P/P	45 - 96.0
Heptachlor Epoxide	95.4	87.2	P/P	64 - 109
Hexachlorobenzene	77.9	70.1	P/P	46 - 103
Lambda-Cyhalothrin	89.4	83.8	P/P	38 - 145
Methoxychlor	97.8	89.5	P/P	69 - 149
Mirex	69.8	67.5	P/P	31 - 90.0
Permethrin	85.1	82.6	P/P	41 - 108
Phenothrin	46.2	41.8	P/P	22 - 91.0
Prallethrin	44.3	42.6	P/P	32 - 92.0
Trans-Nonachlor	86.2	80.1	P/P	50 - 107
Trifluralin	77.3	74.0	P/P	58 - 119

Reference Method: EPA 8276
Batch ID: P384486

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	86.6	86.5	P/P	47 - 119
Toxaphene	104	102	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P384189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	112		P	30 - 160
Acetaminophen	78.8		P	30 - 160
Acetamiprid	81.8		P	30 - 160
Afidopyropen	71.4		P	30 - 160
Bentazon	69.9		P	30 - 160
Benzovindiflupyr	75.6		P	30 - 160
Carbamazepine	71.9		P	30 - 160
Clothianidin	82.2		P	30 - 160
Dinotefuran	94.0		P	30 - 160
Diuron	62.6		P	30 - 160
Fenuron	99.8		P	30 - 160
Fluridone	104		P	30 - 160
Hydrocodone	86.7		P	30 - 160
Ibuprofen	90.7		P	30 - 160
Imazapyr	84.0		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P384189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	102		P	30 - 160
Linuron	59.7		P	30 - 160
Mandestrobin	84.9		P	30 - 160
MCPP	105		P	30 - 160
Naproxen	75.5		P	30 - 160
Primidone	74.3		P	30 - 160
Pyraclostrobin	75.4		P	30 - 160
Thiamethoxam	88.1		P	30 - 160
Tolfenpyrad	51.7		P	30 - 160
Triclopyr	78.9		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P384231

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	66.1		P	40 - 150
AMPA	81.0		P	40 - 150
Endothall	102		P	40 - 150
Glufosinate	95.5		P	40 - 150
Glyphosate	90.1		P	40 - 140
Sucralose	89.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P384331

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.1		P	30 - 160
Aldicarb	92.3		P	30 - 160
Aldicarb Sulfone	90.0		P	30 - 160
Aldicarb Sulfoxide	99.7		P	30 - 160
Carbaryl	50.1		P	30 - 160
Carbofuran	54.2		P	30 - 160
Methiocarb	66.6		P	30 - 160
Methomyl	87.7		P	30 - 160
Oxamyl	91.4		P	30 - 160
Propoxur	59.4		P	30 - 160

Reference Method: SM 2120 B-2011
Batch ID: P384257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P384612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	93 - 104

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P384615

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P384925

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	90 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P384927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P384347

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P384701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179884	Iron	102	105	P/P	70 - 130
2179884	Manganese	98.7	99.1	P/P	70 - 130
2179884	Zinc	103	103	P/P	70 - 130
2181296	Iron	104		P	70 - 130
2181296	Manganese	101		P	70 - 130
2181296	Zinc	107		P	70 - 130

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384495

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181167	Barium	105		P	80 - 120
2181167	Calcium	103		P	80 - 120
2181167	Iron	108		P	80 - 120
2181167	Magnesium	108		P	80 - 120
2181167	Potassium	106		P	80 - 120
2181167	Sodium	104		P	80 - 120
2181167	Zinc	107		P	80 - 120
2182024	Barium	104	104	P/P	80 - 120
2182024	Calcium	110	107	P/P	80 - 120
2182024	Iron	108	106	P/P	80 - 120
2182024	Magnesium	108	106	P/P	80 - 120
2182024	Potassium	106	104	P/P	80 - 120
2182024	Sodium	105	101	P/P	80 - 120
2182024	Zinc	107	107	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2179884	Aluminum	103	93.7	P/P	70 - 130
2179884	Antimony	96.7	96.7	P/P	70 - 130
2179884	Arsenic	103	102	P/P	70 - 130
2179884	Cadmium	91.4	89.8	P/P	70 - 130
2179884	Chromium	109	107	P/P	70 - 130
2179884	Copper	107	106	P/P	70 - 130
2179884	Lead	96.2	95.6	P/P	70 - 130
2179884	Nickel	95.8	95.5	P/P	70 - 130
2179884	Selenium	101	98.9	P/P	70 - 130
2179884	Silver	88.8	89.4	P/P	70 - 130
2179884	Thallium	96.4	103	P/P	70 - 130
2181296	Aluminum	108		P	70 - 130
2181296	Antimony	97.0		P	70 - 130
2181296	Arsenic	103		P	70 - 130
2181296	Cadmium	91.9		P	70 - 130
2181296	Chromium	108		P	70 - 130
2181296	Copper	109		P	70 - 130
2181296	Lead	96.4		P	70 - 130
2181296	Nickel	97.1		P	70 - 130
2181296	Selenium	101		P	70 - 130
2181296	Silver	88.5		P	70 - 130
2181296	Thallium	96.3		P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P384495

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181167	Aluminum	111		P	80 - 120
2181167	Antimony	95.3		P	80 - 120
2181167	Arsenic	102		P	80 - 120
2181167	Boron	102		P	80 - 120
2181167	Cadmium	103		P	80 - 120
2181167	Chromium	95.8		P	80 - 120
2181167	Copper	97.1		P	80 - 120
2181167	Lead	101		P	80 - 120
2181167	Nickel	101		P	80 - 120
2181167	Selenium	97.7		P	80 - 120
2181167	Silver	99.5		P	80 - 120
2181167	Thallium	104		P	80 - 120
2182024	Aluminum	96.9	97.1	P/P	80 - 120
2182024	Antimony	97.1	97.5	P/P	80 - 120
2182024	Arsenic	102	103	P/P	80 - 120
2182024	Boron	97.5	99.2	P/P	80 - 120
2182024	Cadmium	102	100	P/P	80 - 120
2182024	Chromium	100	100	P/P	80 - 120
2182024	Copper	101	100	P/P	80 - 120
2182024	Lead	98.9	99.6	P/P	80 - 120
2182024	Nickel	100	99.0	P/P	80 - 120
2182024	Selenium	97.3	99.3	P/P	80 - 120
2182024	Silver	99.7	99.9	P/P	80 - 120
2182024	Thallium	102	104	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181410	Chloride	102		P	90 - 110
2181584	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384531

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181410	Sulfate	100		P	90 - 110
2181584	Sulfate	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384895

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2180365	Bromide	95.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P384901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181746	Sulfate	98.5		P	90 - 110
2181902	Sulfate	95.0		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384436

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2180872	Ammonia-N	101	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384440

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181543	Ammonia-N	103	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384350

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181543	Kjeldahl Nitrogen	97.5	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181681	Kjeldahl Nitrogen	95.1	94.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181549	NO2NO3-N	99.7	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384497

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181527	NO2NO3-N	97.6	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181546	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181397	Total-P	106	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384242

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181588	O-Phosphate-P	97.2	97.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P384244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181547	O-Phosphate-P	97.3	96.1	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P384079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2180545	Acetochlor	99.1	85.1	P/P	68 - 126
2180545	Alachlor	101	94.0	P/P	66 - 125
2180545	Ametryn	112	103	P/P	31 - 182
2180545	Atrazine Desethyl	77.6	68.2	P/P	13 - 161
2180545	Azinphos Methyl	115	99.0	P/P	54 - 162
2180545	Bromacil	104	87.4	P/P	34 - 144
2180545	Butylate	60.2	41.8	P/P	16 - 92.0
2180545	Carbophenothion	101	96.6	P/P	50 - 150
2180545	Chlorpyrifos Ethyl	97.2	95.2	P/P	63 - 124
2180545	Chlorpyrifos Methyl	99.9	91.9	P/P	64 - 125
2180545	Cyanazine	116	99.2	P/P	13 - 245
2180545	Demeton	92.8	77.5	P/P	20 - 154
2180545	Diazinon	98.9	88.1	P/P	66 - 141
2180545	Dimethenamid	103	91.4	P/P	50 - 130
2180545	Disulfoton	90.6	78.3	P/P	55 - 130
2180545	Dithiopyr	96.7	88.0	P/P	66 - 122
2180545	EPTC	44.4	28.8	P/P	15 - 93.0
2180545	Ethion	114	107	P/P	15 - 148
2180545	Ethoprop	96.2	80.2	P/P	59 - 126
2180545	Fenamiphos	111	105	P/P	39 - 137
2180545	Fipronil	110	96.8	P/P	47 - 131
2180545	Fipronil Desulfinyl	110	100	P/P	43 - 121
2180545	Fipronil Sulfide	105	98.0	P/P	29 - 134
2180545	Fipronil Sulfone	109	99.8	P/P	19 - 131
2180545	Flumioxazin	198	179	P/P	70 - 200
2180545	Fonofos	93.9	87.0	P/P	62 - 128
2180545	Hexazinone	99.2	99.4	P/P	58 - 154
2180545	Imazalil	85.1	79.5	P/P	50 - 150
2180545	Malathion	114	107	P/P	54 - 135
2180545	Metalaxyl	103	94.6	P/P	46 - 136
2180545	Metolachlor	93.4	80.0	P/P	62 - 126
2180545	Metribuzin	126	113	P/P	44 - 277
2180545	Mevinphos	86.1	68.8	P/P	44 - 135
2180545	Molinate	60.3	43.6	P/P	31 - 104
2180545	Naled	77.3	71.3	P/P	40 - 130
2180545	Norflurazon	107	96.2	P/P	32 - 134
2180545	Oxadiazon	90.3	91.2	P/P	55 - 123
2180545	Parathion Ethyl	90.8	87.0	P/P	67 - 120
2180545	Parathion Methyl	106	93.8	P/P	70 - 140
2180545	Pendimethalin	100	100	P/P	59 - 145
2180545	Phorate	120	107	P/P	52 - 127
2180545	Prodiamine	43.3	40.1	P/P	11 - 157
2180545	Prometon	94.8	87.3	P/P	55 - 130
2180545	Prometryn	100	92.4	P/P	55 - 127
2180545	Pronamide	112	97.7	P/P	50 - 150
2180545	Propiconazole	95.8	92.3	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P384079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2180545	Simazine	106	97.9	P/P	58 - 159
2180545	Sulfentrazone	101	88.9	P/P	50 - 150
2180545	Tebuconazole	61.3	62.5	P/P	10 - 122
2180545	Terbufos	103	91.5	P/P	65 - 131
2180545	Terbutylazine	102	92.6	P/P	63 - 131

Reference Method: EPA 8270E
Batch ID: P384486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181567	Aldrin	55.9	51.7	P/P	32 - 82.0
2181567	Alpha-BHC	94.4	95.1	P/P	68 - 157
2181567	Alpha-Chlordane	86.6	88.0	P/P	54 - 108
2181567	Beta-BHC	81.1	83.7	P/P	54 - 200
2181567	Beta-Cyfluthrin	108	103	P/P	50 - 154
2181567	Bifenthrin	106	106	P/P	49 - 124
2181567	Chlorothalonil	200	173	P/P	10 - 289
2181567	Cis-Nonachlor	82.8	84.5	P/P	53 - 112
2181567	Cypermethrin	97.5	98.8	P/P	43 - 141
2181567	Dacthal	93.3	96.1	P/P	75 - 112
2181567	DDD-p,p'	94.4	89.7	P/P	58 - 125
2181567	DDE-p,p'	87.1	87.5	P/P	50 - 108
2181567	DDT-p,p'	82.4	84.7	P/P	52 - 140
2181567	Delta-BHC	103	97.2	P/P	61 - 228
2181567	Dicofol	75.8	65.0	P/P	59 - 130
2181567	Dieldrin	90.9	93.6	P/P	57 - 121
2181567	Endosulfan I	109	110	P/P	62 - 123
2181567	Endosulfan II	109	115	P/P	48 - 163
2181567	Endosulfan Sulfate	94.3	98.1	P/P	63 - 132
2181567	Endrin	105	107	P/P	58 - 128
2181567	Endrin Aldehyde	97.1	105	P/P	44 - 126
2181567	Endrin Ketone	96.7	120	P/P	68 - 127
2181567	Ethalfuralin	75.4	79.2	P/P	55 - 131
2181567	Gamma-BHC	101	106	P/P	54 - 206
2181567	Gamma-Chlordane	83.0	83.6	P/P	52 - 105
2181567	Heptachlor	80.7	81.9	P/P	47 - 94.0
2181567	Heptachlor Epoxide	91.0	96.4	P/P	61 - 113
2181567	Hexachlorobenzene	57.6	62.1	P/P	45 - 100
2181567	Lambda-Cyhalothrin	110	115	P/P	37 - 165
2181567	Methoxychlor	94.3	95.9	P/P	63 - 153
2181567	Mirex	73.0	74.5	P/P	38 - 90.0
2181567	Permethrin	85.2	96.1	P/P	45 - 112
2181567	Phenothrin	77.3	62.1	P/P	22 - 118
2181567	Prallethrin	63.1	65.6	P/P	21 - 114
2181567	Trans-Nonachlor	62.3	61.4	P/P	50 - 103
2181567	Trifluralin	73.1	76.1	P/P	57 - 122

Reference Method: EPA 8276
Batch ID: P384486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2182355	Chlordane	81.4	89.0	P/P	34 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P384486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2182355	Toxaphene	97.8	105	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P384189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2180960	Acetaminophen	67.9	68.0	P/P	30 - 160
2180960	Acetamiprid	57.2	56.1	P/P	30 - 160
2180960	Afidopyropen	61.6	63.3	P/P	30 - 160
2180960	Bentazon	39.6	35.4	P/P	30 - 160
2180960	Benzovindiflupyr	67.1	69.4	P/P	30 - 160
2180960	Carbamazepine	48.1	49.1	P/P	30 - 160
2180960	Clothianidin	53.6	50.5	P/P	30 - 160
2180960	Dinotefuran	69.5	63.5	P/P	30 - 160
2180960	Diuron	41.0	41.0	P/P	30 - 160
2180960	Fenuron	55.3	55.1	P/P	30 - 160
2180960	Fluridone	100	98.6	P/P	30 - 160
2180960	Hydrocodone	58.6	56.8	P/P	30 - 160
2180960	Ibuprofen	76.2	69.6	P/P	30 - 160
2180960	Imazapyr	94.3	77.8	P/P	30 - 160
2180960	Imidacloprid	95.8	93.2	P/P	30 - 160
2180960	Linuron	49.1	53.3	P/P	30 - 160
2180960	Mandestrobin	75.0	73.9	P/P	30 - 160
2180960	MCP	86.6	80.7	P/P	30 - 160
2180960	Naproxen	61.5	67.1	P/P	30 - 160
2180960	Primidone	63.5	67.9	P/P	30 - 160
2180960	Pyraclostrobin	71.6	71.6	P/P	30 - 160
2180960	Thiamethoxam	68.1	66.8	P/P	30 - 160
2180960	Tolfenpyrad	61.3	62.6	P/P	30 - 160
2180960	Triclopyr	74.7	60.6	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P384231

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181434	Acesulfame K	39.0	42.0	F/P	40 - 150
2181434	AMPA	78.8	78.4	P/P	40 - 150
2181434	Endothall	112	116	P/P	40 - 150
2181434	Glufosinate	83.2	92.7	P/P	40 - 150
2181434	Glyphosate	86.9	91.3	P/P	40 - 140
2181434	Sucralose	51.7	55.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P384331

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2180800	3-Hydroxycarbofuran	54.9	53.0	P/P	30 - 160
2180800	Aldicarb	53.2	51.8	P/P	30 - 160
2180800	Aldicarb Sulfone	68.8	64.1	P/P	30 - 160
2180800	Aldicarb Sulfoxide	33.8	32.9	P/P	30 - 160
2180800	Carbaryl	30.2	32.4	P/P	30 - 160
2180800	Carbofuran	32.8	31.7	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P384331

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2180800	Methiocarb	43.3	42.6	P/P	30 - 160
2180800	Methomyl	50.7	59.2	P/P	30 - 160
2180800	Oxamyl	57.4	67.4	P/P	30 - 160
2180800	Propoxur	31.2	33.0	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P384925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2182007	Fluoride	104	105	P/P	94 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P384927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2182519	Fluoride	100	99.6	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P384347

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181543	Organic Carbon	94.2	94.1	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P384701

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2181681	Organic Carbon	97.0	95.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P384249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181280	Turbidity	1.42	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P384250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181422	Turbidity	3.08	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179884	Iron	1.90	Spike	P	0 - 20
2179884	Manganese	0.272	Spike	P	0 - 20
2179884	Zinc	0.738	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P384495

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182024	Barium	0.418	Spike	P	0 - 20
2182024	Calcium	1.60	Spike	P	0 - 20
2182024	Iron	1.80	Spike	P	0 - 20
2182024	Magnesium	1.56	Spike	P	0 - 20
2182024	Potassium	1.49	Spike	P	0 - 20
2182024	Sodium	1.76	Spike	P	0 - 20
2182024	Zinc	0.286	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2179884	Aluminum	7.47	Spike	P	0 - 20
2179884	Antimony	0.0483	Spike	P	0 - 20
2179884	Arsenic	1.72	Spike	P	0 - 20
2179884	Cadmium	1.74	Spike	P	0 - 20
2179884	Chromium	2.13	Spike	P	0 - 20
2179884	Copper	0.932	Spike	P	0 - 20
2179884	Lead	0.658	Spike	P	0 - 20
2179884	Nickel	0.266	Spike	P	0 - 20
2179884	Selenium	2.44	Spike	P	0 - 20
2179884	Silver	0.632	Spike	P	0 - 20
2179884	Thallium	6.53	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P384495

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182024	Aluminum	0.185	Spike	P	0 - 20
2182024	Antimony	0.397	Spike	P	0 - 20
2182024	Arsenic	0.492	Spike	P	0 - 20
2182024	Boron	1.40	Spike	P	0 - 20
2182024	Cadmium	1.20	Spike	P	0 - 20
2182024	Chromium	0.122	Spike	P	0 - 20
2182024	Copper	0.429	Spike	P	0 - 20
2182024	Lead	0.705	Spike	P	0 - 20
2182024	Nickel	1.20	Spike	P	0 - 20
2182024	Selenium	2.10	Spike	P	0 - 20
2182024	Silver	0.283	Spike	P	0 - 20
2182024	Thallium	2.26	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181584	Chloride	0.823	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181584	Sulfate	0.587	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P384901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181746	Sulfate	0.414	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2180872	Ammonia-N	2.32	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P384440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181543	Ammonia-N	1.54	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384350

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181543	Kjeldahl Nitrogen	2.67	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P384351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181681	Kjeldahl Nitrogen	0.582	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181549	NO2NO3-N	0.428	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P384497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181527	NO2NO3-N	0.990	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181546	Total-P	0.785	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P384409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181397	Total-P	2.99	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384242

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181588	O-Phosphate-P	0.451	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384243

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181591	O-Phosphate-P	0.751	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P384244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181547	O-Phosphate-P	0.793	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P384079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2180545	Acetochlor	11.8	Spike	P	0 - 30
2180545	Alachlor	7.46	Spike	P	0 - 30
2180545	Ametryn	8.57	Spike	P	0 - 30
2180545	Atrazine	12.5	Spike	P	0 - 30
2180545	Atrazine Desethyl	11.3	Spike	P	0 - 30
2180545	Azinphos Methyl	14.9	Spike	P	0 - 30
2180545	Bromacil	17.0	Spike	P	0 - 30
2180545	Butylate	36.2	Spike	F	0 - 30
2180545	Carbophenothion	4.15	Spike	P	0 - 30
2180545	Chlorpyrifos Ethyl	2.09	Spike	P	0 - 30
2180545	Chlorpyrifos Methyl	8.28	Spike	P	0 - 30
2180545	Cyanazine	15.3	Spike	P	0 - 30
2180545	Demeton	17.9	Spike	P	0 - 30
2180545	Diazinon	11.5	Spike	P	0 - 30
2180545	Dimethenamid	11.7	Spike	P	0 - 30
2180545	Disulfoton	14.6	Spike	P	0 - 30
2180545	Dithiopyr	9.48	Spike	P	0 - 30
2180545	EPTC	42.8	Spike	F	0 - 30
2180545	Ethion	6.37	Spike	P	0 - 30
2180545	Ethoprop	18.1	Spike	P	0 - 30
2180545	Fenamiphos	6.24	Spike	P	0 - 30
2180545	Fipronil	12.4	Spike	P	0 - 30
2180545	Fipronil Desulfinyl	9.43	Spike	P	0 - 30
2180545	Fipronil Sulfide	7.25	Spike	P	0 - 30
2180545	Fipronil Sulfone	8.61	Spike	P	0 - 30
2180545	Flumioxazin	10.3	Spike	P	0 - 30
2180545	Fonofos	7.57	Spike	P	0 - 30
2180545	Hexazinone	0.158	Spike	P	0 - 30
2180545	Imazalil	6.72	Spike	P	0 - 30
2180545	Malathion	6.70	Spike	P	0 - 30
2180545	Metalaxyl	8.32	Spike	P	0 - 30
2180545	Metolachlor	10.1	Spike	P	0 - 30
2180545	Metribuzin	10.3	Spike	P	0 - 30
2180545	Mevinphos	22.3	Spike	P	0 - 30
2180545	Molinate	32.2	Spike	F	0 - 30
2180545	Naled	7.96	Spike	P	0 - 30
2180545	Norflurazon	10.3	Spike	P	0 - 30
2180545	Oxadiazon	0.928	Spike	P	0 - 30
2180545	Parathion Ethyl	4.33	Spike	P	0 - 30
2180545	Parathion Methyl	11.7	Spike	P	0 - 30
2180545	Pendimethalin	0.438	Spike	P	0 - 30
2180545	Phorate	11.6	Spike	P	0 - 30
2180545	Prodiamine	7.56	Spike	P	0 - 30
2180545	Prometon	8.24	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P384079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2180545	Prometryn	8.08	Spike	P	0 - 30
2180545	Pronamide	13.5	Spike	P	0 - 30
2180545	Propiconazole	3.67	Spike	P	0 - 30
2180545	Simazine	7.54	Spike	P	0 - 30
2180545	Sulfentrazone	12.8	Spike	P	0 - 30
2180545	Tebuconazole	2.01	Spike	P	0 - 30
2180545	Terbufos	12.0	Spike	P	0 - 30
2180545	Terbutylazine	9.61	Spike	P	0 - 30
LFB	Acetochlor	14.4	LCS	P	0 - 30
LFB	Alachlor	13.6	LCS	P	0 - 30
LFB	Ametryn	10.4	LCS	P	0 - 30
LFB	Atrazine	12.6	LCS	P	0 - 30
LFB	Atrazine Desethyl	9.78	LCS	P	0 - 30
LFB	Azinphos Methyl	11.0	LCS	P	0 - 30
LFB	Bromacil	11.9	LCS	P	0 - 30
LFB	Butylate	6.87	LCS	P	0 - 30
LFB	Carbophenothion	17.8	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	15.8	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	14.6	LCS	P	0 - 30
LFB	Cyanazine	12.9	LCS	P	0 - 30
LFB	Demeton	27.6	LCS	P	0 - 30
LFB	Diazinon	14.8	LCS	P	0 - 30
LFB	Dimethenamid	12.9	LCS	P	0 - 30
LFB	Disulfoton	30.0	LCS	P	0 - 30
LFB	Dithiopyr	15.8	LCS	P	0 - 30
LFB	EPTC	4.59	LCS	P	0 - 30
LFB	Ethion	18.2	LCS	P	0 - 30
LFB	Ethoprop	15.5	LCS	P	0 - 30
LFB	Fenamiphos	27.7	LCS	P	0 - 30
LFB	Fipronil	12.6	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	10.6	LCS	P	0 - 30
LFB	Fipronil Sulfide	16.3	LCS	P	0 - 30
LFB	Fipronil Sulfone	14.6	LCS	P	0 - 30
LFB	Flumioxazin	1.28	LCS	P	0 - 30
LFB	Fonofos	23.4	LCS	P	0 - 30
LFB	Hexazinone	10.2	LCS	P	0 - 30
LFB	Imazalil	16.2	LCS	P	0 - 30
LFB	Malathion	13.2	LCS	P	0 - 30
LFB	Metalaxyl	14.8	LCS	P	0 - 30
LFB	Metolachlor	17.0	LCS	P	0 - 30
LFB	Metribuzin	12.8	LCS	P	0 - 30
LFB	Mevinphos	17.2	LCS	P	0 - 30
LFB	Molinate	11.5	LCS	P	0 - 30
LFB	Naled	15.1	LCS	P	0 - 30
LFB	Norflurazon	13.2	LCS	P	0 - 30
LFB	Oxadiazon	14.7	LCS	P	0 - 30
LFB	Parathion Ethyl	15.5	LCS	P	0 - 30
LFB	Parathion Methyl	18.4	LCS	P	0 - 30
LFB	Pendimethalin	21.1	LCS	P	0 - 30
LFB	Phorate	22.7	LCS	P	0 - 30
LFB	Prodiamine	50.7	LCS	F	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P384079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Prometon	14.6	LCS	P	0 - 30
LFB	Prometryn	12.8	LCS	P	0 - 30
LFB	Pronamide	13.2	LCS	P	0 - 30
LFB	Propiconazole	13.1	LCS	P	0 - 30
LFB	Simazine	10.2	LCS	P	0 - 30
LFB	Sulfentrazone	6.76	LCS	P	0 - 30
LFB	Tebuconazole	20.4	LCS	P	0 - 30
LFB	Terbufos	23.9	LCS	P	0 - 30
LFB	Terbutylazine	12.8	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P384486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181567	Aldrin	7.84	Spike	P	0 - 30
2181567	Alpha-BHC	0.820	Spike	P	0 - 30
2181567	Alpha-Chlordane	1.57	Spike	P	0 - 30
2181567	Beta-BHC	3.11	Spike	P	0 - 30
2181567	Beta-Cyfluthrin	4.29	Spike	P	0 - 30
2181567	Bifenthrin	0.162	Spike	P	0 - 30
2181567	Chlorothalonil	14.6	Spike	P	0 - 30
2181567	Cis-Nonachlor	2.09	Spike	P	0 - 30
2181567	Cypermethrin	1.33	Spike	P	0 - 30
2181567	Dacthal	2.92	Spike	P	0 - 30
2181567	DDD-p,p'	5.12	Spike	P	0 - 30
2181567	DDE-p,p'	0.449	Spike	P	0 - 30
2181567	DDT-p,p'	2.78	Spike	P	0 - 30
2181567	Delta-BHC	5.90	Spike	P	0 - 30
2181567	Dicofol	15.4	Spike	P	0 - 30
2181567	Dieldrin	2.97	Spike	P	0 - 30
2181567	Endosulfan I	0.998	Spike	P	0 - 30
2181567	Endosulfan II	4.84	Spike	P	0 - 30
2181567	Endosulfan Sulfate	3.92	Spike	P	0 - 30
2181567	Endrin	1.84	Spike	P	0 - 30
2181567	Endrin Aldehyde	8.04	Spike	P	0 - 30
2181567	Endrin Ketone	21.7	Spike	P	0 - 30
2181567	Ethalfuralin	5.01	Spike	P	0 - 30
2181567	Gamma-BHC	5.26	Spike	P	0 - 30
2181567	Gamma-Chlordane	0.801	Spike	P	0 - 30
2181567	Heptachlor	1.53	Spike	P	0 - 30
2181567	Heptachlor Epoxide	5.85	Spike	P	0 - 30
2181567	Hexachlorobenzene	7.50	Spike	P	0 - 30
2181567	Lambda-Cyhalothrin	5.07	Spike	P	0 - 30
2181567	Methoxychlor	1.71	Spike	P	0 - 30
2181567	Mirex	2.07	Spike	P	0 - 30
2181567	Permethrin	12.0	Spike	P	0 - 30
2181567	Phenothrin	21.8	Spike	P	0 - 30
2181567	Prallethrin	3.90	Spike	P	0 - 30
2181567	Trans-Nonachlor	1.52	Spike	P	0 - 30
2181567	Trifluralin	4.01	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P384486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Aldrin	8.13	LCS	P	0 - 30
LFB	Alpha-BHC	3.53	LCS	P	0 - 30
LFB	Alpha-Chlordane	7.03	LCS	P	0 - 30
LFB	Beta-BHC	6.63	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	13.0	LCS	P	0 - 30
LFB	Bifenthrin	3.88	LCS	P	0 - 30
LFB	Chlorothalonil	53.7	LCS	F	0 - 30
LFB	Cis-Nonachlor	6.73	LCS	P	0 - 30
LFB	Cypermethrin	8.17	LCS	P	0 - 30
LFB	Dacthal	5.89	LCS	P	0 - 30
LFB	DDD-p,p'	1.15	LCS	P	0 - 30
LFB	DDE-p,p'	4.72	LCS	P	0 - 30
LFB	DDT-p,p'	9.61	LCS	P	0 - 30
LFB	Delta-BHC	14.2	LCS	P	0 - 30
LFB	Dicofol	8.05	LCS	P	0 - 30
LFB	Dieldrin	9.41	LCS	P	0 - 30
LFB	Endosulfan I	10.5	LCS	P	0 - 30
LFB	Endosulfan II	9.12	LCS	P	0 - 30
LFB	Endosulfan Sulfate	11.9	LCS	P	0 - 30
LFB	Endrin	10.4	LCS	P	0 - 30
LFB	Endrin Aldehyde	7.31	LCS	P	0 - 30
LFB	Endrin Ketone	8.68	LCS	P	0 - 30
LFB	Ethalfuralin	2.36	LCS	P	0 - 30
LFB	Gamma-BHC	4.35	LCS	P	0 - 30
LFB	Gamma-Chlordane	8.11	LCS	P	0 - 30
LFB	Heptachlor	12.1	LCS	P	0 - 30
LFB	Heptachlor Epoxide	8.89	LCS	P	0 - 30
LFB	Hexachlorobenzene	10.5	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	6.44	LCS	P	0 - 30
LFB	Methoxychlor	8.86	LCS	P	0 - 30
LFB	Mirex	3.38	LCS	P	0 - 30
LFB	Permethrin	2.98	LCS	P	0 - 30
LFB	Phenothrin	10.0	LCS	P	0 - 30
LFB	Prallethrin	3.87	LCS	P	0 - 30
LFB	Trans-Nonachlor	7.37	LCS	P	0 - 30
LFB	Trifluralin	4.36	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P384486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182355	Chlordane	8.96	Spike	P	0 - 30
2182355	Toxaphene	7.39	Spike	P	0 - 30
LFB	Chlordane	0.0935	LCS	P	0 - 30
LFB	Toxaphene	1.58	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P384189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2180960	2,4-D	5.32	Spike	P	0 - 30
2180960	Acetaminophen	0.148	Spike	P	0 - 30
2180960	Acetamiprid	1.98	Spike	P	0 - 30
2180960	Afidopyropen	2.72	Spike	P	0 - 30
2180960	Bentazon	5.86	Spike	P	0 - 30
2180960	Benzovindiflupyr	3.40	Spike	P	0 - 30
2180960	Carbamazepine	1.67	Spike	P	0 - 30
2180960	Clothianidin	5.38	Spike	P	0 - 30
2180960	Dinotefuran	9.03	Spike	P	0 - 30
2180960	Diuron	0.0735	Spike	P	0 - 30
2180960	Fenuron	0.424	Spike	P	0 - 30
2180960	Fluridone	1.35	Spike	P	0 - 30
2180960	Hydrocodone	3.00	Spike	P	0 - 30
2180960	Ibuprofen	9.15	Spike	P	0 - 30
2180960	Imazapyr	10.7	Spike	P	0 - 30
2180960	Imidacloprid	2.59	Spike	P	0 - 30
2180960	Linuron	8.26	Spike	P	0 - 30
2180960	Mandestrobin	1.40	Spike	P	0 - 30
2180960	MCPP	7.09	Spike	P	0 - 30
2180960	Naproxen	8.72	Spike	P	0 - 30
2180960	Primidone	6.62	Spike	P	0 - 30
2180960	Pyraclostrobin	0.0440	Spike	P	0 - 30
2180960	Thiamethoxam	1.90	Spike	P	0 - 30
2180960	Tolfenpyrad	2.17	Spike	P	0 - 30
2180960	Triclopyr	20.8	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P384231

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181434	Acesulfame K	7.39	Spike	P	0 - 30
2181434	AMPA	0.485	Spike	P	0 - 30
2181434	Endothall	3.58	Spike	P	0 - 30
2181434	Glufosinate	10.8	Spike	P	0 - 30
2181434	Glyphosate	4.87	Spike	P	0 - 30
2181434	Sucralose	6.82	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P384331

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2180800	3-Hydroxycarbofuran	3.56	Spike	P	0 - 30
2180800	Aldicarb	2.59	Spike	P	0 - 30
2180800	Aldicarb Sulfone	7.03	Spike	P	0 - 30
2180800	Aldicarb Sulfoxide	2.67	Spike	P	0 - 30
2180800	Carbaryl	6.93	Spike	P	0 - 30
2180800	Carbofuran	3.24	Spike	P	0 - 30
2180800	Methiocarb	1.71	Spike	P	0 - 30
2180800	Methomyl	15.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P384331

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2180800	Oxamyl	16.0	Spike	P	0 - 30
2180800	Propoxur	5.58	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P384257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181506	Color (true)	0.261	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P384612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181423	Total Alkalinity	0.0372	Sample	P	0 - 8.1

Reference Method: SM 2320 B-2011
Batch ID: P384615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181548	Total Alkalinity	3.74	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P384799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181423	TDS	3.57	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P384925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182007	Fluoride	0.983	Spike	P	0 - 2.8

Reference Method: SM 4500 F-C-2011
Batch ID: P384927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2182519	Fluoride	0.457	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P384347

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181543	Organic Carbon	0.0603	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P384701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2181681	Organic Carbon	1.10	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2181561
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	32.6	P	30 - 160

Lab Sample ID: 2181562
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	66.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.3	P	30 - 160
EPA 8321B	Diuron-d6	49.5	P	30 - 160
EPA 8321B	Endothall-d6	94.1	P	30 - 160
EPA 8321B	Endothall-d6	94.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.7	P	30 - 160
EPA 8321B	Primidone-d5	62.1	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2181563
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	34.5	P	30 - 160

Lab Sample ID: 2181564
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	65.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	48.0	P	30 - 160
EPA 8321B	Diuron-d6	43.8	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	58.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	58.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.0	P	30 - 160
EPA 8321B	Primidone-d5	67.1	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Lab Sample ID: 2181565
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	66.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	49.6	P	30 - 160
EPA 8321B	Diuron-d6	49.1	P	30 - 160
EPA 8321B	Endothall-d6	884	F	30 - 160
EPA 8321B	Endothall-d6	884	F	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2181565
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	58.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	58.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.7	P	30 - 160
EPA 8321B	Primidone-d5	61.7	P	30 - 160
EPA 8321B	Sucralose-d6	94.4	P	30 - 160
EPA 8321B	Sucralose-d6	94.4	P	30 - 160

Lab Sample ID: 2181566
Field Sample ID: G2SD0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	68.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	44.6	P	30 - 160
EPA 8321B	Diuron-d6	41.4	P	30 - 160
EPA 8321B	Endothall-d6	822	F	30 - 160
EPA 8321B	Endothall-d6	822	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	47.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	47.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.4	P	30 - 160
EPA 8321B	Primidone-d5	66.9	P	30 - 160
EPA 8321B	Sucralose-d6	85.5	P	30 - 160
EPA 8321B	Sucralose-d6	85.5	P	30 - 160

Lab Sample ID: 2181567
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	88.0	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	54.2	P	34 - 106
EPA 8276	Decachlorobiphenyl	65.3	P	26 - 97.0
EPA 8276	PCNB	74.6	P	38 - 141

Lab Sample ID: 2181568
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	126	P	72 - 135
EPA 8270E	Terbufos-d10	122	P	57 - 134

Lab Sample ID: 2181569
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	87.0	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	44.9	P	34 - 106
EPA 8276	Decachlorobiphenyl	66.9	P	26 - 97.0
EPA 8276	PCNB	71.1	P	38 - 141

Quality Assurance Report Surrogates

Lab Sample ID: 2181570
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	122	P	72 - 135
EPA 8270E	Terbufos-d10	121	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A99747

Included Lab Sample IDs: 2181541, 2181544, 2181547, 2181550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	94.9	94.9	P/P	90 - 110
O-Phosphate-P	95.9	94.9	P/P	90 - 110
O-Phosphate-P	96.2	95.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A99748

Included Lab Sample IDs: 2181539, 2181542, 2181545, 2181548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	102	P/P	95 - 105
Turbidity	102	102	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A99749

Included Lab Sample IDs: 2181539, 2181542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	90 - 115

Reference Method: EPA 8321B

Run ID: A99760

Included Lab Sample IDs: 2181562, 2181564, 2181565, 2181566

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	76.6	76.9	P/P	60 - 160
AMPA	79.1	81.4	P/P	60 - 160
Glufosinate	101	94.9	P/P	60 - 160
Glufosinate	104	104	P/P	60 - 160
Glyphosate	106	116	P/P	60 - 160
Glyphosate	113	109	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A99780

Included Lab Sample IDs: 2181573, 2181574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	104	103	P/P	90 - 110
Manganese	102	102	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A99786

Included Lab Sample IDs: 2181546, 2181549

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A99787

Included Lab Sample IDs: 2181540, 2181543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.2	94.6	P/P	90 - 110
Organic Carbon	94.4	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A99793

Included Lab Sample IDs: 2181562, 2181564, 2181565, 2181566

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	65.6	74.9	P/P	60 - 160
Acesulfame K	74.9	68.0	P/P	60 - 160
Endothall	110	115	P/P	60 - 160
Endothall	100	110	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A99808

Included Lab Sample IDs: 2181546, 2181549

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A99809

Included Lab Sample IDs: 2181540, 2181543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	103	102	P/P	90 - 110
Ammonia-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A99824

Included Lab Sample IDs: 2181540, 2181543, 2181546, 2181549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.3	P/P	90 - 110
Total-P	98.4	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A99827

Included Lab Sample IDs: 2181540, 2181543

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

Reference Method: EPA 8321B

Run ID: A99828

Included Lab Sample IDs: 2181562, 2181564, 2181565, 2181566

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	88.1	103	P/P	50 - 150
Acetaminophen	112	107	P/P	60 - 160
Acetamiprid	111	107	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A99828

Included Lab Sample IDs: 2181562, 2181564, 2181565, 2181566

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	119	105	P/P	50 - 150
Bentazon	143	132	P/P	50 - 160
Benzovindiflupyr	89.0	88.2	P/P	50 - 150
Carbamazepine	107	106	P/P	60 - 150
Clothianidin	89.8	95.7	P/P	60 - 150
Dinotefuran	92.9	95.9	P/P	50 - 150
Diuron	110	111	P/P	60 - 160
Fenuron	91.2	75.3	P/P	60 - 150
Fluridone	124	113	P/P	60 - 160
Hydrocodone	118	115	P/P	60 - 150
Ibuprofen	94.9	66.7	P/P	50 - 160
Imazapyr	73.5	84.2	P/P	50 - 150
Imidacloprid	95.3	97.4	P/P	60 - 150
Linuron	93.8	92.8	P/P	60 - 150
Mandestrobin	104	102	P/P	50 - 150
MCP	96.9	87.0	P/P	50 - 150
Naproxen	85.3	87.5	P/P	50 - 160
Primidone	91.8	85.2	P/P	60 - 150
Pyraclostrobin	97.8	98.9	P/P	60 - 150
Thiamethoxam	108	108	P/P	50 - 150
Tolfenpyrad	97.6	109	P/P	60 - 150
Triclopyr	88.6	82.7	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99836

Included Lab Sample IDs: 2181539, 2181542

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

Reference Method: EPA 8321B

Run ID: A99846

Included Lab Sample IDs: 2181561, 2181563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	110	106	P/P	60 - 150
Aldicarb	107	126	P/P	60 - 150
Aldicarb Sulfone	103	96.5	P/P	50 - 150
Aldicarb Sulfoxide	108	106	P/P	50 - 150
Bentazon	90.5	93.3	P/P	50 - 160
Carbaryl	123	116	P/P	60 - 150
Carbofuran	111	109	P/P	50 - 150
Fluridone	107	109	P/P	60 - 160
Methiocarb	122	125	P/P	50 - 150
Methomyl	97.7	100	P/P	50 - 150
Oxamyl	105	100	P/P	50 - 150
Propoxur	106	103	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A99850

Included Lab Sample IDs: 2181540, 2181543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.4	93.1	P/P	90 - 110
Kjeldahl Nitrogen	94.7	91.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A99858

Included Lab Sample IDs: 2181546, 2181549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	96.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A99869

Included Lab Sample IDs: 2181573, 2181574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	104	106	P/P	90 - 110
Aluminum	99.9	98.7	P/P	90 - 110
Antimony	92.2	92.1	P/P	90 - 110
Arsenic	97.0	96.8	P/P	90 - 110
Cadmium	93.6	93.8	P/P	90 - 110
Copper	108	107	P/P	90 - 110
Lead	92.1	92.0	P/P	90 - 110
Lead	93.4	92.6	P/P	90 - 110
Nickel	101	101	P/P	90 - 110
Selenium	99.7	100	P/P	90 - 110
Silver	91.3	91.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A99871

Included Lab Sample IDs: 2181571, 2181572

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	101	P/P	90 - 110
Calcium	101	102	P/P	90 - 110
Iron	101	103	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	98.5	100	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A99873

Included Lab Sample IDs: 2181568, 2181570

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.8		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	99.5		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A99873

Included Lab Sample IDs: 2181568, 2181570

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	101		P	80 - 120
Butylate	96.1		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Cyanazine	104		P	80 - 120
Demeton	97.2		P	80 - 120
Diazinon	98.5		P	80 - 120
Dimethenamid	98.8		P	80 - 120
Disulfoton	98.1		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	102		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	99.3		P	80 - 120
Fenamiphos	103		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Flumioxazin	88.3		P	80 - 120
Fonofos	97.3		P	80 - 120
Imazalil	108		P	80 - 120
Malathion	99.6		P	80 - 120
Metalaxyl	106		P	80 - 120
Metolachlor	99.0		P	80 - 120
Metribuzin	99.7		P	80 - 120
Mevinphos	95.9		P	80 - 120
Molinate	99.5		P	80 - 120
Naled	109		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	102		P	80 - 120
Parathion Ethyl	95.7		P	80 - 120
Parathion Methyl	98.6		P	80 - 120
Pendimethalin	96.9		P	80 - 120
Phorate	99.3		P	80 - 120
Prodiamine	92.9		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	100		P	80 - 120
Pronamide	98.9		P	80 - 120
Propiconazole	101		P	80 - 120
Simazine	96.8		P	80 - 120
Sulfentrazone	99.8		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	97.0		P	80 - 120
Terbutylazine	99.6		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A99877

Included Lab Sample IDs: 2181539, 2181542, 2181545, 2181548

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

Reference Method: SM 2320 B-2011

Run ID: A99877

Included Lab Sample IDs: 2181539, 2181542, 2181545, 2181548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	104	P/P	90 - 110
Total Alkalinity	99.3	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A99878

Included Lab Sample IDs: 2181562, 2181564, 2181565, 2181566

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	89.5	88.8	P/P	60 - 160
Sucralose	90.0	89.5	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A99899

Included Lab Sample IDs: 2181573, 2181574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	98.2	98.7	P/P	90 - 110
Thallium	90.9	90.1	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A99908

Included Lab Sample IDs: 2181546, 2181549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.5	93.4	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A99909

Included Lab Sample IDs: 2181567, 2181569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A99923

Included Lab Sample IDs: 2181571, 2181572

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	101	P/P	90 - 110
Antimony	96.5	95.1	P/P	90 - 110
Arsenic	102	101	P/P	90 - 110
Boron	98.2	102	P/P	90 - 110
Cadmium	99.4	98.8	P/P	90 - 110
Lead	99.1	99.3	P/P	90 - 110
Nickel	99.7	97.7	P/P	90 - 110
Selenium	100	100	P/P	90 - 110
Silver	97.5	97.4	P/P	90 - 110
Thallium	98.2	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A99957

Included Lab Sample IDs: 2181567, 2181569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.6		P	80 - 120
Alpha-BHC	107		P	80 - 120
Alpha-Chlordane	96.3		P	80 - 120
Beta-BHC	94.8		P	80 - 120
Beta-Cyfluthrin	94.1		P	80 - 120
Bifenthrin	93.6		P	80 - 120
Chlorothalonil	115		P	80 - 120
Cis-Nonachlor	92.5		P	80 - 120
Cypermethrin	83.2		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	93.5		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	93.0		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	95.8		P	80 - 120
Endosulfan I	98.9		P	80 - 120
Endosulfan II	92.4		P	80 - 120
Endosulfan Sulfate	82.2		P	80 - 120
Endrin	99.0		P	80 - 120
Endrin Aldehyde	91.9		P	80 - 120
Endrin Ketone	82.9		P	80 - 120
Ethalfuralin	94.7		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	94.3		P	80 - 120
Heptachlor	93.8		P	80 - 120
Heptachlor Epoxide	98.7		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Lambda-Cyhalothrin	83.6		P	80 - 120
Methoxychlor	96.4		P	80 - 120
Mirex	86.9		P	80 - 120
Permethrin	87.1		P	80 - 120
Phenothrin	86.8		P	80 - 120
Prallethrin	74.4*		F	80 - 120
Trans-Nonachlor	95.5		P	80 - 120
Trifluralin	95.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A99961

Included Lab Sample IDs: 2181568, 2181570

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	96.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99977

Included Lab Sample IDs: 2181545

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	94.0	92.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A99978

Included Lab Sample IDs: 2181539

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A99979

Included Lab Sample IDs: 2181571, 2181572

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	96.4	95.2	P/P	90 - 110
Copper	96.8	96.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A99986

Included Lab Sample IDs: 2181539, 2181542, 2181545, 2181548

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A99999

Included Lab Sample IDs: 2181572

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	102	97.5	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	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							1.42	
	Turbidity							3.08	
EPA 200.7 Rev. 4.4	Barium	100		105	104	104			0.418
	Calcium	106		103	110	107			1.60
	Iron	105		102	105	104			1.90
	Iron	105		108	108	106			1.80
	Magnesium	105		108	108	106			1.56
	Manganese	102		98.7	99.1	101			0.272
	Potassium	105		106	106	104			1.49
	Sodium	106		104	105	101			1.76
	Zinc	103		103	103	107			0.738
	Zinc	102		107	107	107			0.286
EPA 200.8 Rev. 5.4	Aluminum	96.2		103	93.7	108			7.47
	Aluminum	98.5		96.9	97.1	111			0.185
	Antimony	95.7		96.7	96.7	97.0			0.0483
	Antimony	98.3		97.1	97.5	95.3			0.397
	Arsenic	97.3		103	102	103			1.72
	Arsenic	105		102	103	102			0.492
	Boron	99.9		97.5	99.2	102			1.40
	Cadmium	97.5		91.4	89.8	91.9			1.74
	Cadmium	102		102	100	103			1.20
	Chromium	104		109	107	108			2.13
	Chromium	98.8		100	100	95.8			0.122
	Copper	98.2		107	106	109			0.932
	Copper	107		101	100	97.1			0.429
	Lead	95.5		96.2	95.6	96.4			0.658
	Lead	99.6		98.9	99.6	101			0.705
	Nickel	97.6		95.8	95.5	97.1			0.266
	Nickel	103		100	99.0	101			1.20
	Selenium	100		101	98.9	101			2.44
	Selenium	103		97.3	99.3	97.7			2.10
	Silver	95.8		88.8	89.4	88.5			0.632
	Silver	100		99.7	99.9	99.5			0.283
	Thallium	97.1		96.4	103	96.3			6.53
	Thallium	103		102	104	104			2.26
EPA 300.0 Rev. 2.1	Bromide	96.9		95.2					
	Chloride	102		103	102			0.823	
	Sulfate	101		101	100			0.587	
	Sulfate	98.3		98.5	95.0			0.414	
EPA 350.1 Rev. 2.0	Ammonia-N	103		101	98.0				2.32
	Ammonia-N	101		103	101				1.54
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.9		97.5	102				2.67
	Kjeldahl Nitrogen	99.1		95.1	94.5				0.582
EPA 353.2 Rev. 2.0	NO2NO3-N	100		99.7	100				0.428
	NO2NO3-N	100		97.6	98.6				0.990
EPA 365.1 Rev. 2.0	Total-P	107		102	103				0.785
	Total-P	105		106	103				2.99
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1		97.2	97.9				0.451
	O-Phosphate-P	98.7							0.751
	O-Phosphate-P	98.4		97.3	96.1				0.793
EPA 8270E	Acetochlor	83.5	96.5	99.1	85.1	14.4			11.8
	Alachlor	86.4	98.9	101	94.0	13.6			7.46
	Aldrin	33.8	31.1	55.9	51.7	8.13			7.84
	Alpha-BHC	85.3	82.3	94.4	95.1	3.53			0.820

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Alpha-Chlordane	85.5	91.7	86.6	88.0	7.03	1.57
	Ametryn	98.6	109	112	103	10.4	8.57
	Atrazine	91.3	104			12.6	12.5
	Atrazine Desethyl	75.9	83.7	77.6	68.2	9.78	11.3
	Azinphos Methyl	106	118	115	99.0	11.0	14.9
	Beta-BHC	86.4	92.3	81.1	83.7	6.63	3.11
	Beta-Cyfluthrin	81.7	93.1	108	103	13.0	4.29
	Bifenthrin	92.5	89.0	106	106	3.88	0.162
	Bromacil	78.6	88.6	104	87.4	11.9	17.0
	Butylate	49.8	53.3	60.2	41.8	6.87	36.2
	Carbophenothion	91.0	109	101	96.6	17.8	4.15
	Chlorothalonil	126	72.8	200	173	53.7	14.6
	Chlorpyrifos Ethyl	90.6	106	97.2	95.2	15.8	2.09
	Chlorpyrifos Methyl	89.9	104	99.9	91.9	14.6	8.28
	Cis-Nonachlor	87.7	82.0	82.8	84.5	6.73	2.09
	Cyanazine	95.9	109	116	99.2	12.9	15.3
	Cypermethrin	85.6	78.9	97.5	98.8	8.17	1.33
	Dacthal	95.1	89.7	93.3	96.1	5.89	2.92
	DDD-p,p'	96.2	95.1	94.4	89.7	1.15	5.12
	DDE-p,p'	96.7	92.2	87.1	87.5	4.72	0.449
	DDT-p,p'	95.7	86.9	82.4	84.7	9.61	2.78
	Delta-BHC	87.4	101	103	97.2	14.2	5.90
	Demeton	63.5	83.8	92.8	77.5	27.6	17.9
	Diazinon	82.8	96.1	98.9	88.1	14.8	11.5
	Dicofol	88.7	81.8	75.8	65.0	8.05	15.4
	Dieldrin	98.9	90.0	90.9	93.6	9.41	2.97
	Dimethenamid	85.4	97.2	103	91.4	12.9	11.7
	Disulfoton	64.4	87.1	90.6	78.3	30.0	14.6
	Dithiopyr	81.7	95.7	96.7	88.0	15.8	9.48
	Endosulfan I	104	93.6	109	110	10.5	0.998
	Endosulfan II	109	99.3	109	115	9.12	4.84
	Endosulfan Sulfate	74.0	83.4	94.3	98.1	11.9	3.92
	Endrin	97.2	108	105	107	10.4	1.84
	Endrin Aldehyde	95.0	102	97.1	105	7.31	8.04
	Endrin Ketone	93.8	102	96.7	120	8.68	21.7
	EPTC	38.4	40.2	44.4	28.8	4.59	42.8
	Ethalfuralin	73.8	75.6	75.4	79.2	2.36	5.01
	Ethion	90.8	109	114	107	18.2	6.37
	Ethoprop	79.2	92.5	96.2	80.2	15.5	18.1
	Fenamiphos	91.4	121	111	105	27.7	6.24
	Fipronil	89.6	102	110	96.8	12.6	12.4
	Fipronil Desulfinyl	96.0	107	110	100	10.6	9.43
	Fipronil Sulfide	90.0	106	105	98.0	16.3	7.25
	Fipronil Sulfone	92.0	107	109	99.8	14.6	8.61
	Flumioxazin	152	151	198	179	1.28	10.3
	Fonofos	80.7	102	93.9	87.0	23.4	7.57
	Gamma-BHC	91.2	95.3	101	106	4.35	5.26
	Gamma-Chlordane	79.9	86.6	83.0	83.6	8.11	0.801
	Heptachlor	74.0	83.5	80.7	81.9	12.1	1.53
	Heptachlor Epoxide	87.2	95.4	91.0	96.4	8.89	5.85
	Hexachlorobenzene	70.1	77.9	57.6	62.1	10.5	7.50
	Hexazinone	87.5	96.8	99.2	99.4	10.2	0.158
	Imazalil	65.2	76.6	85.1	79.5	16.2	6.72
	Lambda-Cyhalothrin	83.8	89.4	110	115	6.44	5.07

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Malathion	101	115	114	107	13.2		6.70
	Metalaxyl	88.6	103	103	94.6	14.8		8.32
	Methoxychlor	89.5	97.8	94.3	95.9	8.86		1.71
	Metolachlor	81.8	97.1	93.4	80.0	17.0		10.1
	Metribuzin	107	122	126	113	12.8		10.3
	Mevinphos	70.2	83.4	86.1	68.8	17.2		22.3
	Mirex	67.5	69.8	73.0	74.5	3.38		2.07
	Molinate	50.2	56.3	60.3	43.6	11.5		32.2
	Naled	60.1	69.9	77.3	71.3	15.1		7.96
	Norflurazon	93.0	106	107	96.2	13.2		10.3
	Oxadiazon	83.6	96.9	90.3	91.2	14.7		0.928
	Parathion Ethyl	82.4	96.2	90.8	87.0	15.5		4.33
	Parathion Methyl	84.2	101	106	93.8	18.4		11.7
	Pendimethalin	85.6	106	100	100	21.1		0.438
	Permethrin	82.6	85.1	85.2	96.1	2.98		12.0
	Phenothrin	41.8	46.2	77.3	62.1	10.0		21.8
	Phorate	107	134	120	107	22.7		11.6
	Prallethrin	42.6	44.3	63.1	65.6	3.87		3.90
	Prodiamine	55.8	33.2	43.3	40.1	50.7		7.56
	Prometon	78.9	91.3	94.8	87.3	14.6		8.24
	Prometryn	84.1	95.6	100	92.4	12.8		8.08
	Pronamide	88.6	101	112	97.7	13.2		13.5
	Propiconazole	84.0	95.8	95.8	92.3	13.1		3.67
	Simazine	93.7	104	106	97.9	10.2		7.54
	Sulfentrazon	50.6	54.1	101	88.9	6.76		12.8
	Tebuconazole	46.4	57.0	61.3	62.5	20.4		2.01
	Terbufos	81.5	104	103	91.5	23.9		12.0
	Terbutylazine	86.8	98.7	102	92.6	12.8		9.61
	Trans-Nonachlor	80.1	86.2	62.3	61.4	7.37		1.52
	Trifluralin	74.0	77.3	73.1	76.1	4.36		4.01
EPA 8276	Chlordane	86.6	86.5	81.4	89.0	0.0935		8.96
	Toxaphene	104	102	97.8	105	1.58		7.39
EPA 8321B	2,4-D	112						5.32
	3-Hydroxycarbofuran	79.1		54.9	53.0			3.56
	Acesulfame K	66.1		39.0	42.0			7.39
	Acetaminophen	78.8		67.9	68.0			0.148
	Acetamiprid	81.8		57.2	56.1			1.98
	Afidopyropen	71.4		63.3	61.6			2.72
	Aldicarb	92.3		53.2	51.8			2.59
	Aldicarb Sulfone	90.0		68.8	64.1			7.03
	Aldicarb Sulfoxide	99.7		33.8	32.9			2.67
	AMPA	81.0		78.8	78.4			0.485
	Bentazon	69.9		35.4	39.6			5.86
	Benzovindiflupyr	75.6		69.4	67.1			3.40
	Carbamazepine	71.9		49.1	48.1			1.67
	Carbaryl	50.1		30.2	32.4			6.93
	Carbofuran	54.2		32.8	31.7			3.24
	Clothianidin	82.2		53.6	50.5			5.38
	Dinotefuran	94.0		69.5	63.5			9.03
	Diuron	62.6		41.0	41.0			0.0735
	Endothall	102		112	116			3.58
	Fenuron	99.8		55.3	55.1			0.424
	Fluridone	104		98.6	100			1.35
	Glufosinate	95.5		83.2	92.7			10.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Glyphosate	90.1	86.9	91.3		4.87
	Hydrocodone	86.7	58.6	56.8		3.00
	Ibuprofen	90.7	69.6	76.2		9.15
	Imazapyr	84.0	77.8	94.3		10.7
	Imidacloprid	102	95.8	93.2		2.59
	Linuron	59.7	53.3	49.1		8.26
	Mandestrobin	84.9	73.9	75.0		1.40
	MCPP	105	80.7	86.6		7.09
	Methiocarb	66.6	43.3	42.6		1.71
	Methomyl	87.7	50.7	59.2		15.4
	Naproxen	75.5	67.1	61.5		8.72
	Oxamyl	91.4	57.4	67.4		16.0
	Primidone	74.3	63.5	67.9		6.62
	Propoxur	59.4	31.2	33.0		5.58
	Pyraclostrobin	75.4	71.6	71.6		0.0440
	Sucralose	89.4	51.7	55.4		6.82
	Thiamethoxam	88.1	68.1	66.8		1.90
	Tolfenpyrad	51.7	62.6	61.3		2.17
	Triclopyr	78.9	60.6	74.7		20.8
SM 2120 B-2011	Color (true)	102			0.261	
SM 2320 B-2011	Total Alkalinity	99.1			0.0372	
	Total Alkalinity	101			3.74	
SM 2540 C-2011	TDS				3.57	
SM 4500 F-C-2011	Fluoride	99.3	104	105		0.983
	Fluoride	98.3	100	99.6		0.457
SM 5310 B-2011	Organic Carbon	97.8	94.2	94.1		0.0603
	Organic Carbon	97.2	97.0	95.8		1.10

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2181539, 2181542, 2181545, 2181548
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2181571, 2181572, 2181573, 2181574
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2181571, 2181572, 2181573, 2181574
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2181545
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2181539, 2181542
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2181539, 2181542, 2181545, 2181548
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2181540, 2181543, 2181546, 2181549
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2181540, 2181543, 2181546, 2181549
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2181540, 2181543, 2181546, 2181549
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2181540, 2181543, 2181546, 2181549
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2181541, 2181544, 2181547, 2181550
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2181567, 2181569
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2181568, 2181570
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2181567, 2181569
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2181561, 2181563
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2181562, 2181564, 2181565, 2181566
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2181562, 2181564, 2181565, 2181566
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2181539, 2181542
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2181539, 2181542, 2181545, 2181548

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2181571, 2181572
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2181539, 2181542
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2181539, 2181542, 2181545, 2181548
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2181539, 2181542, 2181545, 2181548
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2181540, 2181543, 2181546, 2181549

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	07/08/2020			07/08/2020 17:06	Yen Ta	2181539, 2181542, 2181545, 2181548
EPA 200.7 Rev. 4.4	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/09/2020 18:09	Betina Topolski	2181573
	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/09/2020 18:17	Betina Topolski	2181574
	07/08/2020	07/13/2020 14:40	Elliott D. Healy	07/14/2020 18:40	Betina Topolski	2181571
	07/08/2020	07/13/2020 14:40	Elliott D. Healy	07/14/2020 18:48	Betina Topolski	2181572
EPA 200.8 Rev. 5.4	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/14/2020 15:48	Alexander Thompson	2181573
	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/14/2020 15:55	Alexander Thompson	2181574
	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/14/2020 19:06	Alexander Thompson	2181573
	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/14/2020 19:14	Alexander Thompson	2181574
	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/15/2020 15:45	Alexander Thompson	2181573
	07/08/2020	07/08/2020 14:50	Elliott D. Healy	07/15/2020 15:49	Alexander Thompson	2181574
	07/08/2020	07/13/2020 14:40	Elliott D. Healy	07/16/2020 19:58	Alexander Thompson	2181571
	07/08/2020	07/13/2020 14:40	Elliott D. Healy	07/16/2020 20:05	Alexander Thompson	2181572
	07/08/2020	07/13/2020 14:40	Elliott D. Healy	07/17/2020 14:34	Alexander Thompson	2181571
	07/08/2020	07/13/2020 14:40	Elliott D. Healy	07/17/2020 14:39	Alexander Thompson	2181572
	07/08/2020	07/13/2020 14:40	Elliott D. Healy	07/21/2020 18:02	Alexander Thompson	2181572
EPA 300.0 Rev. 2.1	07/08/2020			07/10/2020 17:18	Julia Storbeck	2181539
	07/08/2020			07/10/2020 17:30	Julia Storbeck	2181542
	07/08/2020			07/10/2020 19:31	Julia Storbeck	2181545
	07/08/2020			07/10/2020 19:43	Julia Storbeck	2181548
	07/08/2020			07/16/2020 01:05	Julia Storbeck	2181545
	07/08/2020			07/17/2020 07:55	Julia Storbeck	2181539
EPA 350.1 Rev. 2.0	07/08/2020			07/11/2020 14:56	Ping Hua	2181546
	07/08/2020			07/11/2020 14:57	Ping Hua	2181549
	07/08/2020			07/11/2020 19:54	Ping Hua	2181543
	07/08/2020			07/11/2020 20:15	Ping Hua	2181540
EPA 351.2 Rev. 2.0	07/08/2020	07/10/2020 09:30	Sima Feizi	07/13/2020 18:51	Jhamieka S. Greenwood	2181543
	07/08/2020	07/10/2020 09:30	Sima Feizi	07/13/2020 19:07	Jhamieka S. Greenwood	2181540
	07/08/2020	07/10/2020 09:30	Sima Feizi	07/14/2020 13:00	Jhamieka S. Greenwood	2181546
	07/08/2020	07/10/2020 09:30	Sima Feizi	07/14/2020 13:02	Jhamieka S. Greenwood	2181549
EPA 353.2 Rev. 2.0	07/08/2020			07/10/2020 09:40	Beverly Y. Sanders	2181549
	07/08/2020			07/10/2020 09:49	Beverly Y. Sanders	2181546
	07/08/2020			07/13/2020 10:19	Beverly Y. Sanders	2181540
	07/08/2020			07/13/2020 10:20	Beverly Y. Sanders	2181543
EPA 365.1 Rev. 2.0	07/08/2020	07/10/2020 13:26	Yen Ta	07/13/2020 09:39	Benjamin T. Nordmann	2181546
	07/08/2020	07/10/2020 13:26	Yen Ta	07/13/2020 09:42	Benjamin T. Nordmann	2181549
	07/08/2020	07/10/2020 13:26	Yen Ta	07/13/2020 10:04	Benjamin T. Nordmann	2181540, 2181543
EPA 365.1 Rev. 2.0 dissolved	07/08/2020			07/08/2020 16:03	Jhamieka S. Greenwood	2181541
	07/08/2020			07/08/2020 16:19	Jhamieka S. Greenwood	2181544
	07/08/2020			07/08/2020 16:30	Jhamieka S. Greenwood	2181547

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	07/08/2020			07/08/2020 16:33	Jhamieka S. Greenwood	2181550
EPA 8270E	07/08/2020	07/08/2020 13:00	Fe-Val Siddell	07/10/2020 19:36	Vandana T. Nagar	2181568
	07/08/2020	07/08/2020 13:00	Fe-Val Siddell	07/10/2020 20:01	Vandana T. Nagar	2181570
	07/08/2020	07/08/2020 13:00	Fe-Val Siddell	07/16/2020 01:30	Vandana T. Nagar	2181568
	07/08/2020	07/08/2020 13:00	Fe-Val Siddell	07/16/2020 01:56	Vandana T. Nagar	2181570
	07/08/2020	07/13/2020 09:00	Fe-Val Siddell	07/16/2020 18:58	Michael Poppell	2181567
	07/08/2020	07/13/2020 09:00	Fe-Val Siddell	07/16/2020 19:30	Michael Poppell	2181569
EPA 8276	07/08/2020	07/13/2020 09:00	Fe-Val Siddell	07/16/2020 05:25	Arthur Maknenko	2181567
	07/08/2020	07/13/2020 09:00	Fe-Val Siddell	07/16/2020 06:20	Arthur Maknenko	2181569
EPA 8321B	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/08/2020 20:54	Rebecca Ware	2181562
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/08/2020 21:04	Rebecca Ware	2181564
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/08/2020 23:35	Rebecca Ware	2181565
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/08/2020 23:45	Rebecca Ware	2181566
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/09/2020 21:40	Rebecca Ware	2181562
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/09/2020 21:54	Rebecca Ware	2181564
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/09/2020 22:08	Rebecca Ware	2181565
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/09/2020 22:36	Rebecca Ware	2181566
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/14/2020 17:23	Rebecca Ware	2181562
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/14/2020 17:35	Rebecca Ware	2181564
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/14/2020 17:46	Rebecca Ware	2181565
	07/08/2020	07/08/2020 17:00	Rebecca Ware	07/14/2020 18:10	Rebecca Ware	2181566
	07/08/2020	07/09/2020 09:00	Hoor Shaik	07/12/2020 00:49	Juyoung Kim	2181562
	07/08/2020	07/09/2020 09:00	Hoor Shaik	07/12/2020 01:24	Juyoung Kim	2181564
	07/08/2020	07/09/2020 09:00	Hoor Shaik	07/12/2020 01:59	Juyoung Kim	2181565
	07/08/2020	07/09/2020 09:00	Hoor Shaik	07/12/2020 02:33	Juyoung Kim	2181566
	07/08/2020	07/09/2020 09:00	Hoor Shaik	07/13/2020 16:03	Juyoung Kim	2181562
	07/08/2020	07/09/2020 09:00	Hoor Shaik	07/13/2020 16:37	Juyoung Kim	2181564
	07/08/2020	07/13/2020 08:30	Hoor Shaik	07/13/2020 23:33	Juyoung Kim	2181561
	07/08/2020	07/13/2020 08:30	Hoor Shaik	07/14/2020 00:08	Juyoung Kim	2181563
SM 2120 B-2011	07/08/2020			07/08/2020 17:44	Madeline Gruver	2181539
	07/08/2020			07/08/2020 17:45	Madeline Gruver	2181542
SM 2320 B-2011	07/08/2020			07/14/2020 04:06	Dale L. Simmons	2181539
	07/08/2020			07/14/2020 04:20	Dale L. Simmons	2181542
	07/08/2020			07/14/2020 06:09	Dale L. Simmons	2181545
	07/08/2020			07/14/2020 16:05	Dale L. Simmons	2181548
SM 2340B	07/08/2020			07/14/2020 18:40	Betina Topolski	2181571
	07/08/2020			07/14/2020 18:48	Betina Topolski	2181572
SM 2540 C-2011	07/08/2020			07/13/2020 14:46	Yijie Li	2181539, 2181542
SM 2540 D-2011	07/08/2020			07/13/2020 14:21	Yijie Li	2181545, 2181548
	07/08/2020			07/13/2020 15:21	Yijie Li	2181539, 2181542

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-2011	07/08/2020			07/20/2020 23:27	Samantha Davila	2181539
	07/08/2020			07/20/2020 23:33	Samantha Davila	2181542
	07/08/2020			07/20/2020 23:48	Samantha Davila	2181545
	07/08/2020			07/21/2020 03:30	Samantha Davila	2181548
SM 5310 B-2011	07/08/2020			07/10/2020 03:38	David Boose	2181543
	07/08/2020			07/10/2020 07:57	David Boose	2181540
	07/08/2020			07/16/2020 06:32	David Boose	2181546
	07/08/2020			07/16/2020 06:44	David Boose	2181549