

Chemical Analysis Report

SO-DIST-2021-12-10-02

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

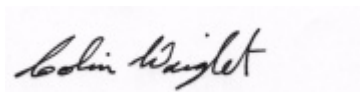
Event Description: **2021SMP_Imperial River SCI**
Request ID: **RQ-2021-12-06-45**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-JAN-2022 08:55

A handwritten signature in black ink, appearing to read "Colin Wright", is shown 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: Leitner Creek @ Matheson Ave.

Collection Date/Time: 12/09/2021 08:40

Field ID: G1SD0121

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294588	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P407325	
	EPA 300.0 Rev. 2.1	Chloride	28		mg Cl/L	P407903	
		Sulfate	6.7		mg SO4/L	P407905	
	SM 2120 B-2011	Color (true)	38		PCU	P407324	
	SM 2320 B-2011	Total Alkalinity	237		mg CaCO3/L	P407452	
	SM 2540 C-2011	TDS	311		mg/L	P407668	
	SM 2540 D-2011	TSS	2	I	mg/L	P407485	
	SM 4500 F-C-2011	Fluoride	0.13		mg F/L	P407453	
2294589	EPA 350.1 Rev. 2.0	Ammonia-N	0.075		mg N/L	P407755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P407862	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P407376	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P407418	MS
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P407796	
2294590	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P407312	
2294594	EPA 8321B	2,4-D	0.0076	I	ug/L	P407300	
		Acesulfame K	0.10	U	ug/L	P407282	
		2,4,5-T	0.0040	U	ug/L	P407300	
		AMPA	0.10	U	ug/L	P407282	
		Acetaminophen	0.0087	I	ug/L	P407300	
		Acetamiprid	0.0020	U	ug/L	P407300	
		Endothall	0.25	U	ug/L	P407282	
		Glufosinate	0.10	U	ug/L	P407282	
		Glyphosate	0.10	U	ug/L	P407282	
		Afidopyropen	0.0020	U	ug/L	P407300	
		Bentazon	0.012		ug/L	P407300	
		Sucralose	0.46		ug/L	P407282	
		Benzovindiflupyr	0.0020	U	ug/L	P407300	
		Carbamazepine	0.0025	I	ug/L	P407300	
		Clothianidin	0.0020	U	ug/L	P407300	
		Dinotefuran	0.0020	U	ug/L	P407300	
		Diuron	0.0020	U	ug/L	P407300	
		Fenuron	0.016	U	ug/L	P407300	
		Fluridone	0.0023	I	ug/L	P407300	
		Imazapyr	0.12		ug/L	P407300	
		Hydrocodone	0.0020	U	ug/L	P407300	
		Ibuprofen	0.020	U	ug/L	P407300	
		Imidacloprid	0.0020	U	ug/L	P407300	
		Linuron	0.0040	U	ug/L	P407300	
		Mandestrobin	0.0020	U	ug/L	P407300	
		MCP	0.0040	U	ug/L	P407300	
		Naproxen	0.0080	U	ug/L	P407300	
		Primidone	0.0097	I	ug/L	P407300	RPD
		Pyraclostrobin	0.0020	U	ug/L	P407300	

Field ID: G1SD0121

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294594	EPA 8321B	Silvex	0.0040	U	ug/L	P407300	
		Thiamethoxam	0.0020	U	ug/L	P407300	
		Tolfenpyrad	0.0020	U	ug/L	P407300	
		Triclopyr	0.0040	U	ug/L	P407300	
2294595	EPA 200.7 Rev. 4.4	Calcium	96.9		mg/L	P407338	
		Iron	240		ug/L	P407338	
		Magnesium	3.99		mg/L	P407338	
		Potassium	3.7		mg/L	P407338	
		Sodium	17.8		mg/L	P407338	
		Strontium	297		ug/L	P407338	
		Tin	3.0	U	ug/L	P407338	
		Titanium	1.2	I	ug/L	P407338	
		Vanadium	2.0	U	ug/L	P407338	
		Zinc	5.6	I	ug/L	P407338	
	EPA 200.8 Rev. 5.4	Aluminum	46		ug/L	P407589	
		Antimony	0.050	U	ug/L	P407338	
		Arsenic	0.52		ug/L	P407338	
		Barium	23.3		ug/L	P407338	
		Beryllium	0.010	U	ug/L	P407338	
		Boron**	40.6		ug/L	P407338	
		Cadmium	0.020	U	ug/L	P407338	
		Chromium	0.40	U	ug/L	P407338	
		Cobalt	0.065	I	ug/L	P407338	
		Copper	0.40	U	ug/L	P407338	
		Lead	0.20	U	ug/L	P407338	
		Manganese	14.0		ug/L	P407338	
		Molybdenum	15.4		ug/L	P407338	
		Nickel	0.50	U	ug/L	P407338	
		Selenium	0.20	U	ug/L	P407338	
		Silver	0.010	U	ug/L	P407338	
		Thallium	0.10	U	ug/L	P407338	
	SM 2340B	Hardness	258		mg/L	P407338	
2294596	EPA 8270E	Acetochlor	0.24	U	ng/L	P407417	
		Alachlor	0.24	U	ng/L	P407417	
		Ametryn	0.58	U	ng/L	P407417	
		Atrazine	74		ng/L	P407417	
		Atrazine Desethyl	1.4	U	ng/L	P407417	
		Azinphos Methyl	1.9	U	ng/L	P407417	
		Azoxystrobin**	0.48	U	ng/L	P407417	
		Bromacil	0.48	U	ng/L	P407417	
		Butylate	0.38	U	ng/L	P407417	
		Caffeine**	7.2	U	ng/L	P407417	
		Carbophenothion	0.48	U	ng/L	P407417	
		Carfentrazone Ethyl**	0.096	U	ng/L	P407417	RPD
		Chlorfenapyr**	0.17	U	ng/L	P407417	

Field ID: G1SD0121

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294596	EPA 8270E	Chlorpyrifos Ethyl	0.24	U	ng/L	P407417	
		Chlorpyrifos Methyl	0.048	U	ng/L	P407417	
		Coumaphos**	0.48	U	ng/L	P407417	
		Cyanazine	3.1	U	ng/L	P407417	
		Cyprodinil**	0.096	U	ng/L	P407417	
		Demeton	1.4	U	ng/L	P407417	
		Diazinon	0.12	U	ng/L	P407417	MS
		Difenoconazole**	0.58	U	ng/L	P407417	
		Dimethenamid**	0.096	U	ng/L	P407417	
		Dimethomorph**	0.17	U	ng/L	P407417	
		Disulfoton	0.48	U	ng/L	P407417	
		Dithiopyr**	0.17	U	ng/L	P407417	RPD
		EPTC	1.2	U	ng/L	P407417	
		Ethion	0.14	U	ng/L	P407417	
		Ethoprop	0.096	U	ng/L	P407417	
		Etridiazole**	0.14	U	ng/L	P407417	
		Fenamiphos	0.48	U	ng/L	P407417	
		Fenbuconazole**	0.12	U	ng/L	P407417	
		Fipronil	0.24	U	ng/L	P407417	
		Fipronil Desulfinyl**	0.18	I	ng/L	P407417	MS
		Fipronil Sulfide	0.25	I	ng/L	P407417	
		Fipronil Sulfone	0.24	I	ng/L	P407417	
		Fluazifop-P-butyl**	0.096	U	ng/L	P407417	
		Fludioxonil**	0.12	U	ng/L	P407417	
		Flumioxazin**	1.7	U	ng/L	P407417	
		Flutolanil**	0.096	U	ng/L	P407417	
		Fluxapyroxad**	0.096	U	ng/L	P407417	
		Fonofos	0.19	U	ng/L	P407417	
		Hexazinone	19		ng/L	P407417	
		Imazalil**	0.72	U	ng/L	P407417	
		Iprodione**	0.58	U	ng/L	P407417	
		Loratadine**	0.096	U	ng/L	P407417	
		Malathion	0.34	U	ng/L	P407417	
		Metalaxyl	0.72	U	ng/L	P407417	
		Metolachlor	1.2	I	ng/L	P407417	
		Metribuzin	3.1	U	ng/L	P407417	
		Mevinphos	1.0	U	ng/L	P407417	
		Molinate	0.29	U	ng/L	P407417	
		Myclobutanil**	0.24	U	ng/L	P407417	
		Naled**	1.4	U	ng/L	P407417	
		Napropamide**	0.38	U	ng/L	P407417	
		Norflurazon	0.95	I	ng/L	P407417	
		Oxadiazon	0.42	I	ng/L	P407417	
		Oxyfluorfen**	0.14	U	ng/L	P407417	
		Parathion Ethyl	0.24	U	ng/L	P407417	

Field ID: G1SD0121

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2294596	EPA 8270E	Parathion Methyl	0.53	U	ng/L	P407417	
		Pendimethalin	0.96	U	ng/L	P407417	
		Phenytoin**	3.4	U	ng/L	P407417	RPD
		Phorate	0.50	U	ng/L	P407417	RPD
		Prodiamine**	0.17	U	ng/L	P407417	
		Prometon	0.87	U	ng/L	P407417	MS
		Prometryn	0.19	U	ng/L	P407417	
		Pronamide**	0.14	U	ng/L	P407417	
		Propanil**	0.12	U	ng/L	P407417	
		Propargite**	1.4	U	ng/L	P407417	
		Propiconazole**	0.48	U	ng/L	P407417	
		Pyraflufen Ethyl**	0.24	U	ng/L	P407417	
		Pyridaben**	0.43	U	ng/L	P407417	MS
		Pyriproxyfen**	0.12	U	ng/L	P407417	
		Simazine	0.48	U	ng/L	P407417	
		Stiropfos**	0.12	U	ng/L	P407417	
		Sulfentrazone**	14		ng/L	P407417	
		Tebuconazole**	0.48	U	ng/L	P407417	
		Terbufos	0.096	U	ng/L	P407417	MS
		Terbutylazine	0.41	U	ng/L	P407417	
		Thiobencarb**	0.58	U	ng/L	P407417	
		Triadimefon**	0.24	U	ng/L	P407417	

Ref. Method and Comment:

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407325

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P407338

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407338

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407589

Component	Result	Code	Units
Aluminum	5.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407903

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P407905

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P407755

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P407862

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P407376

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P407418

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P407312

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

Reference Method: EPA 8270E
 Batch ID: P407417

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P407417

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P407417

Component	Result	Code	Units
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P407417

Component	Result	Code	Units
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8321B
 Batch ID: P407282

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P407300

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011

Batch ID: P407324

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011

Batch ID: P407452

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

Reference Method: SM 2540 C-2011

Batch ID: P407668

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P407485

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P407453

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P407796

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: P407338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	106		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	101		P	85 - 115
Sodium	103		P	85 - 115
Strontium	99.7		P	85 - 115
Tin	103		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Antimony	99.8		P	85 - 115
Arsenic	99.1		P	85 - 115
Barium	105		P	85 - 115
Beryllium	102		P	85 - 115
Boron	100		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	102		P	85 - 115
Cobalt	102		P	85 - 115
Copper	101		P	85 - 115
Lead	97.1		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	102		P	85 - 115
Selenium	99.1		P	85 - 115
Silver	101		P	85 - 115
Thallium	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407903

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.7		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P407755

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P407862

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P407376

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: P407418

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P407312

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

Reference Method: EPA 8270E
 Batch ID: P407417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.0	101	P/P	70 - 121
Alachlor	87.3	90.0	P/P	70 - 119
Ametryn	111	119	P/P	61 - 135
Atrazine	93.5	95.1	P/P	76 - 123
Atrazine Desethyl	68.0	66.9	P/P	35 - 140
Azinphos Methyl	74.6	76.0	P/P	57 - 163
Azoxystrobin	91.5	99.0	P/P	43 - 231
Bromacil	85.9	90.9	P/P	42 - 123
Butylate	60.2	62.3	P/P	34 - 92.0
Caffeine	88.5	87.4	P/P	70 - 130
Carbophenothion	75.3	80.1	P/P	61 - 121
Carfentrazone Ethyl	94.8	98.5	P/P	62 - 139
Chlorfenapyr	72.0	72.3	P/P	50 - 150
Chlorpyrifos Ethyl	75.7	77.3	P/P	67 - 121
Chlorpyrifos Methyl	90.9	97.5	P/P	67 - 120
Coumaphos	130	150	P/P	50 - 220
Cyanazine	104	108	P/P	20 - 226
Cyprodinil	97.3	101	P/P	50 - 150
Demeton	70.2	72.5	P/P	35 - 125
Diazinon	104	106	P/P	70 - 122
Difenoconazole	64.7	78.4	P/P	56 - 186
Dimethenamid	77.3	82.9	P/P	67 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P407417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dimethomorph	90.1	95.6	P/P	50 - 150
Disulfoton	95.5	90.1	P/P	47 - 120
Dithiopyr	90.5	92.2	P/P	67 - 118
EPTC	53.6	55.0	P/P	33 - 90.0
Ethion	70.0	74.6	P/P	40 - 133
Ethoprop	96.7	99.0	P/P	61 - 121
Etridiazole	58.2	60.1	P/P	50 - 150
Fenamiphos	82.6	89.0	P/P	31 - 139
Fenbuconazole	100	105	P/P	66 - 141
Fipronil	96.5	101	P/P	62 - 129
Fipronil Desulfinyl	95.3	95.2	P/P	59 - 126
Fipronil Sulfide	70.4	75.2	P/P	63 - 117
Fipronil Sulfone	76.6	80.9	P/P	57 - 117
Fluazifop-P-butyl	83.0	86.7	P/P	63 - 124
Fludioxonil	93.5	94.5	P/P	63 - 123
Flumioxazin	134	147	P/P	34 - 245
Flutolanil	81.6	82.5	P/P	56 - 131
Fluxapyroxad	86.0	93.7	P/P	57 - 117
Fonofos	101	108	P/P	61 - 116
Hexazinone	100	104	P/P	55 - 138
Imazalil	84.0	86.0	P/P	33 - 143
Iprodione	103	107	P/P	59 - 118
Loratadine	58.1	62.4	P/P	50 - 150
Malathion	98.8	102	P/P	62 - 138
Metalaxyl	79.6	81.4	P/P	24 - 147
Metolachlor	89.1	92.4	P/P	68 - 118
Metribuzin	92.0	93.9	P/P	20 - 239
Mevinphos	93.7	105	P/P	46 - 124
Molinate	70.0	71.6	P/P	46 - 100
Myclobutanil	86.4	88.2	P/P	32 - 149
Naled	78.0	81.3	P/P	32 - 95.0
Napropamide	85.2	86.6	P/P	50 - 150
Norflurazon	92.5	92.0	P/P	57 - 127
Oxadiazon	71.0	73.6	P/P	63 - 118
Oxyfluorfen	94.9	103	P/P	69 - 137
Parathion Ethyl	95.2	97.9	P/P	70 - 113
Parathion Methyl	113	120	P/P	71 - 130
Pendimethalin	64.3	70.8	P/P	55 - 118
Phenytol	75.5	74.0	P/P	50 - 200
Phorate	76.9	85.4	P/P	46 - 125
Prodiamine	72.2	90.9	P/P	20 - 141
Prometon	114	117	P/P	54 - 122
Prometryn	90.3	93.6	P/P	66 - 124
Pronamide	93.8	101	P/P	79 - 122
Propanil	95.8	105	P/P	50 - 150
Propargite	130	127	P/P	50 - 200
Propiconazole	93.5	93.1	P/P	61 - 126
Pyraflufen Ethyl	98.1	104	P/P	50 - 150
Pyridaben	145	154	P/P	50 - 200
Pyriproxyfen	92.3	101	P/P	52 - 131
Simazine	99.9	101	P/P	75 - 128
Stirophos	88.8	95.3	P/P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P407417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	97.3	93.8	P/P	20 - 132
Tebuconazole	58.2	60.4	P/P	20 - 116
Terbufos	108	115	P/P	61 - 117
Terbuthylazine	80.5	85.6	P/P	74 - 116
Thiobencarb	88.3	90.9	P/P	50 - 150
Triadimefon	83.7	89.3	P/P	50 - 150

Reference Method: EPA 8321B
Batch ID: P407282

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150
AMPA	106		P	40 - 150
Endothall	77.5		P	40 - 150
Glufosinate	96.6		P	40 - 150
Glyphosate	97.9		P	40 - 150
Sucralose	93.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P407300

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.7		P	40 - 150
2,4,5-T	103		P	40 - 150
Acetaminophen	79.4		P	30 - 150
Acetamiprid	74.9		P	40 - 150
Afidopyropen	65.9		P	40 - 150
Bentazon	87.9		P	30 - 150
Benzovindiflupyr	79.6		P	40 - 150
Carbamazepine	86.8		P	40 - 150
Clothianidin	68.1		P	40 - 150
Dinotefuran	85.3		P	40 - 150
Diuron	89.4		P	40 - 150
Fenuron	80.7		P	40 - 150
Fluridone	80.8		P	40 - 150
Hydrocodone	87.0		P	40 - 150
Ibuprofen	58.9		P	40 - 150
Imazapyr	108		P	40 - 150
Imidacloprid	77.6		P	40 - 150
Linuron	80.8		P	40 - 150
Mandestrobin	73.6		P	40 - 150
MCPP	93.2		P	40 - 150
Naproxen	58.7		P	40 - 150
Primidone	101		P	40 - 150
Pyraclostrobin	75.7		P	40 - 150
Silvex	89.1		P	40 - 150
Thiamethoxam	80.5		P	40 - 150
Tolfenpyrad	43.3		P	30 - 150
Triclopyr	97.8		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B-2011
Batch ID: P407324

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.4		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P407452

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P407453

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

Reference Method: SM 5310 B-2011
Batch ID: P407796

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P407338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294026	Calcium	106		P	80 - 120
2294026	Iron	107		P	80 - 120
2294026	Magnesium	110		P	80 - 120
2294026	Potassium	109		P	80 - 120
2294026	Sodium	104		P	80 - 120
2294026	Strontium	101		P	80 - 120
2294026	Tin	106		P	80 - 120
2294026	Titanium	101		P	80 - 120
2294026	Vanadium	104		P	80 - 120
2294026	Zinc	108		P	80 - 120
2294038	Calcium	104	108	P/P	80 - 120
2294038	Iron	105	108	P/P	80 - 120
2294038	Magnesium	106	110	P/P	80 - 120
2294038	Potassium	105	107	P/P	80 - 120
2294038	Sodium	102		P	80 - 120
2294038	Strontium	99.0	101	P/P	80 - 120
2294038	Tin	103	105	P/P	80 - 120
2294038	Titanium	102	103	P/P	80 - 120
2294038	Vanadium	102	103	P/P	80 - 120
2294038	Zinc	104	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P407338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294026	Antimony	101		P	85 - 115
2294026	Arsenic	101		P	85 - 115
2294026	Barium	106		P	85 - 115
2294026	Beryllium	103		P	85 - 115
2294026	Boron	101		P	85 - 115
2294026	Cadmium	103		P	85 - 115
2294026	Chromium	103		P	85 - 115
2294026	Cobalt	100		P	85 - 115
2294026	Copper	102		P	85 - 115
2294026	Lead	98.3		P	85 - 115
2294026	Manganese	103		P	85 - 115
2294026	Molybdenum	102		P	85 - 115
2294026	Nickel	100		P	85 - 115
2294026	Selenium	97.0		P	85 - 115
2294026	Silver	100		P	85 - 115
2294026	Thallium	106		P	85 - 115
2294038	Antimony	98.8	99.8	P/P	85 - 115
2294038	Arsenic	100	102	P/P	85 - 115
2294038	Barium	105	106	P/P	85 - 115
2294038	Beryllium	100	99.6	P/P	85 - 115
2294038	Boron	99.1	99.5	P/P	85 - 115
2294038	Cadmium	98.5	102	P/P	85 - 115
2294038	Chromium	103	104	P/P	85 - 115
2294038	Cobalt	104	104	P/P	85 - 115
2294038	Copper	103	104	P/P	85 - 115
2294038	Lead	97.0	97.5	P/P	85 - 115
2294038	Manganese	102	101	P/P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P407338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294038	Molybdenum	101	102	P/P	85 - 115
2294038	Nickel	105	104	P/P	85 - 115
2294038	Selenium	99.9	101	P/P	85 - 115
2294038	Silver	99.0	101	P/P	85 - 115
2294038	Thallium	103	104	P/P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P407589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295242	Aluminum	100	101	P/P	80 - 120
2295262	Aluminum	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P407903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295799	Chloride	96.9		P	90 - 110
2296187	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P407905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295799	Sulfate	96.7		P	90 - 110
2296187	Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P407755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294380	Ammonia-N	96.2	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P407862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294547	Kjeldahl Nitrogen	103	95.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P407376

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294511	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P407418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294627	Total-P	109	112	P/F	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P407312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294537	O-Phosphate-P	97.5	96.8	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P407417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294553	Acetochlor	116	96.1	P/P	66 - 122
2294553	Alachlor	111	89.2	P/P	65 - 122
2294553	Ametryn	129	109	P/P	45 - 173
2294553	Atrazine Desethyl	85.9	68.1	P/P	25 - 150
2294553	Azinphos Methyl	88.7	83.0	P/P	44 - 174
2294553	Azoxystrobin	119	90.1	P/P	10 - 268
2294553	Bromacil	119	92.2	P/P	31 - 145
2294553	Butylate	59.6	58.9	P/P	15 - 97.0
2294553	Carbophenothion	83.5	70.8	P/P	42 - 129
2294553	Carfentrazone Ethyl	117	89.8	P/P	62 - 145
2294553	Chlorfenapyr	74.9	64.2	P/P	50 - 150
2294553	Chlorpyrifos Ethyl	94.6	98.8	P/P	60 - 124
2294553	Chlorpyrifos Methyl	104	87.5	P/P	66 - 119
2294553	Coumaphos	176	154	P/P	50 - 220
2294553	Cyanazine	106	101	P/P	17 - 225
2294553	Cyprodinil	116	99.2	P/P	50 - 150
2294553	Demeton	87.2	68.4	P/P	36 - 142
2294553	Diazinon	142	117	F/P	70 - 128
2294553	Difenoconazole	90.0	77.4	P/P	33 - 222
2294553	Dimethenamid	104	86.9	P/P	54 - 125
2294553	Dimethomorph	122	109	P/P	50 - 150
2294553	Disulfoton	115	94.8	P/P	49 - 133
2294553	Dithiopyr	108	83.9	P/P	55 - 123
2294553	EPTC	54.6	54.7	P/P	19 - 91.0
2294553	Ethion	76.2	68.3	P/P	13 - 143
2294553	Ethoprop	130	106	P/P	49 - 144
2294553	Etridiazole	67.6	57.7	P/P	50 - 150
2294553	Fenamiphos	101	86.3	P/P	32 - 136
2294553	Fenbuconazole	109	89.2	P/P	73 - 148
2294553	Fipronil	122	101	P/P	57 - 129
2294553	Fipronil Desulfinyl	129	108	F/P	49 - 127
2294553	Fipronil Sulfide	89.8	79.6	P/P	44 - 127
2294553	Fipronil Sulfone	94.7	80.0	P/P	35 - 126
2294553	Fluazifop-P-butyl	109	87.5	P/P	67 - 129
2294553	Fludioxonil	121	96.5	P/P	61 - 126
2294553	Flumioxazin	176	149	P/P	38 - 279
2294553	Flutolanil	100	82.4	P/P	55 - 136
2294553	Fluxapyroxad	95.3	78.2	P/P	33 - 140
2294553	Fonofos	118	103	P/P	58 - 125
2294553	Imazalil	116	111	P/P	10 - 221
2294553	Iprodione	47.0	42.7	P/P	32 - 140
2294553	Loratadine	82.4	73.0	P/P	50 - 150
2294553	Malathion	114	92.2	P/P	52 - 138
2294553	Metalaxyl	107	85.1	P/P	46 - 134
2294553	Metolachlor	116	91.4	P/P	58 - 122
2294553	Metribuzin	104	101	P/P	16 - 272

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P407417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294553	Mevinphos	118	99.7	P/P	45 - 140
2294553	Molinate	83.0	75.6	P/P	41 - 103
2294553	Myclobutanil	113	93.9	P/P	60 - 134
2294553	Naled	82.9	72.3	P/P	20 - 113
2294553	Napropamide	105	84.3	P/P	50 - 150
2294553	Norflurazon	110	86.6	P/P	51 - 123
2294553	Oxadiazon	93.5	78.2	P/P	44 - 125
2294553	Oxyfluorfen	136	115	P/P	66 - 176
2294553	Parathion Ethyl	112	96.0	P/P	57 - 132
2294553	Parathion Methyl	126	111	P/P	59 - 156
2294553	Pendimethalin	86.6	74.3	P/P	59 - 129
2294553	Phenytoin	129	88.5	P/P	50 - 200
2294553	Phorate	121	82.1	P/P	47 - 136
2294553	Prodiamine	143	125	P/P	10 - 159
2294553	Prometon	128	97.7	F/P	59 - 127
2294553	Prometryn	59.9	59.7	P/P	59 - 129
2294553	Pronamide	128	107	P/P	65 - 145
2294553	Propanil	123	110	P/P	50 - 150
2294553	Propargite	170	126	P/P	50 - 200
2294553	Propiconazole	130	102	P/P	28 - 165
2294553	Pyraflufen Ethyl	118	99.2	P/P	50 - 150
2294553	Pyridaben	40.2	34.9	F/F	50 - 200
2294553	Pyriproxyfen	43.2	34.4	P/P	21 - 180
2294553	Stirophos	71.4	67.6	P/P	50 - 150
2294553	Sulfentrazone	113	91.8	P/P	32 - 136
2294553	Tebuconazole	69.8	50.7	P/P	10 - 117
2294553	Terbufos	137	122	F/P	61 - 131
2294553	Terbuthylazine	95.6	89.4	P/P	62 - 126
2294553	Thiobencarb	113	91.8	P/P	50 - 150
2294553	Triadimefon	98.4	85.2	P/P	50 - 150

Reference Method: EPA 8321B
Batch ID: P407282

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294551	Acesulfame K	67.8	72.8	P/P	40 - 150
2294551	AMPA	93.5	92.0	P/P	40 - 150
2294551	Endothall	102	113	P/P	40 - 150
2294551	Glufosinate	96.2	96.6	P/P	40 - 150
2294551	Glyphosate	87.9	85.2	P/P	40 - 150
2294551	Sucralose	89.9	96.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P407300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293944	2,4-D	107	112	P/P	40 - 150
2293944	2,4,5-T	109	111	P/P	40 - 150
2293944	Acetaminophen	70.7	74.6	P/P	30 - 150
2293944	Acetamiprid	75.2	79.8	P/P	40 - 150
2293944	Afidopyropen	55.4	57.4	P/P	40 - 150
2293944	Bentazon	92.2	95.5	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P407300

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2293944	Benzovindiflupyr	69.9	73.1	P/P	40 - 150
2293944	Carbamazepine	90.2	99.0	P/P	40 - 150
2293944	Clothianidin	76.0	75.0	P/P	40 - 150
2293944	Dinotefuran	90.4	84.6	P/P	40 - 150
2293944	Diuron	89.3	108	P/P	40 - 150
2293944	Fenuron	87.9	81.9	P/P	40 - 150
2293944	Fluridone	75.2	75.1	P/P	40 - 150
2293944	Hydrocodone	82.3	92.4	P/P	40 - 150
2293944	Ibuprofen	86.6	79.5	P/P	40 - 150
2293944	Imazapyr	107	94.3	P/P	40 - 150
2293944	Imidacloprid	90.5	95.4	P/P	40 - 150
2293944	Linuron	69.0	72.4	P/P	40 - 150
2293944	Mandestrobin	77.9	79.7	P/P	40 - 150
2293944	MCPP	92.9	96.8	P/P	40 - 150
2293944	Naproxen	66.4	56.2	P/P	40 - 150
2293944	Primidone	127	64.6	P/P	40 - 150
2293944	Pyraclostrobin	85.9	89.2	P/P	40 - 150
2293944	Silvex	98.2	99.3	P/P	40 - 150
2293944	Thiamethoxam	77.2	98.1	P/P	40 - 150
2293944	Tolfenpyrad	48.7	49.6	P/P	30 - 150
2293944	Triclopyr	95.2	107	P/P	40 - 150

Reference Method: SM 4500 F-C-2011

Batch ID: P407453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294582	Fluoride	100	100	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P407796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2294602	Organic Carbon	95.8	96.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P407325

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294506	Turbidity	6.64	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P407338

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294038	Calcium	2.98	Spike	P	0 - 20
2294038	Iron	2.85	Spike	P	0 - 20
2294038	Magnesium	2.96	Spike	P	0 - 20
2294038	Potassium	2.33	Spike	P	0 - 20
2294038	Sodium	1.43	Spike	P	0 - 20
2294038	Strontium	1.77	Spike	P	0 - 20
2294038	Tin	2.56	Spike	P	0 - 20
2294038	Titanium	1.41	Spike	P	0 - 20
2294038	Vanadium	1.35	Spike	P	0 - 20
2294038	Zinc	1.52	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P407338

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294038	Antimony	0.991	Spike	P	0 - 20
2294038	Arsenic	1.68	Spike	P	0 - 20
2294038	Barium	0.282	Spike	P	0 - 20
2294038	Beryllium	0.701	Spike	P	0 - 20
2294038	Boron	0.232	Spike	P	0 - 20
2294038	Cadmium	3.55	Spike	P	0 - 20
2294038	Chromium	0.565	Spike	P	0 - 20
2294038	Cobalt	0.0678	Spike	P	0 - 20
2294038	Copper	1.34	Spike	P	0 - 20
2294038	Lead	0.532	Spike	P	0 - 20
2294038	Manganese	0.451	Spike	P	0 - 20
2294038	Molybdenum	1.01	Spike	P	0 - 20
2294038	Nickel	1.35	Spike	P	0 - 20
2294038	Selenium	0.973	Spike	P	0 - 20
2294038	Silver	1.60	Spike	P	0 - 20
2294038	Thallium	1.33	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P407589

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295242	Aluminum	0.680	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295799	Chloride	0.389	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295799	Sulfate	0.364	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P407755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294380	Ammonia-N	1.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P407862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294547	Kjeldahl Nitrogen	3.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407376

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294511	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294627	Total-P	2.20	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294537	O-Phosphate-P	0.554	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P407417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294553	Acetochlor	18.8	Spike	P	0 - 24
2294553	Alachlor	21.8	Spike	P	0 - 24

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P407417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294553	Ametryn	16.6	Spike	P	0 - 27
2294553	Atrazine	10.2	Spike	P	0 - 29
2294553	Atrazine Desethyl	16.2	Spike	P	0 - 30
2294553	Azinphos Methyl	6.62	Spike	P	0 - 50
2294553	Azoxystrobin	22.6	Spike	P	0 - 32
2294553	Bromacil	25.2	Spike	P	0 - 30
2294553	Butylate	1.03	Spike	P	0 - 47
2294553	Caffeine	58.1	Spike	P	0 - 60
2294553	Carbophenothion	16.5	Spike	P	0 - 24
2294553	Carfentrazone Ethyl	26.6	Spike	F	0 - 26
2294553	Chlorfenapyr	15.4	Spike	P	0 - 30
2294553	Chlorpyrifos Ethyl	4.33	Spike	P	0 - 27
2294553	Chlorpyrifos Methyl	17.3	Spike	P	0 - 22
2294553	Coumaphos	13.1	Spike	P	0 - 30
2294553	Cyanazine	4.78	Spike	P	0 - 32
2294553	Cyprodinil	15.2	Spike	P	0 - 30
2294553	Demeton	24.2	Spike	P	0 - 25
2294553	Diazinon	18.9	Spike	P	0 - 24
2294553	Difenoconazole	14.9	Spike	P	0 - 25
2294553	Dimethenamid	17.9	Spike	P	0 - 30
2294553	Dimethomorph	10.8	Spike	P	0 - 30
2294553	Disulfoton	19.2	Spike	P	0 - 26
2294553	Dithiopyr	24.7	Spike	F	0 - 22
2294553	EPTC	0.303	Spike	P	0 - 38
2294553	Ethion	10.9	Spike	P	0 - 47
2294553	Ethoprop	20.4	Spike	P	0 - 23
2294553	Etridiazole	15.8	Spike	P	0 - 30
2294553	Fenamiphos	15.6	Spike	P	0 - 34
2294553	Fenbuconazole	20.0	Spike	P	0 - 37
2294553	Fipronil	19.3	Spike	P	0 - 23
2294553	Fipronil Desulfinyl	18.1	Spike	P	0 - 26
2294553	Fipronil Sulfide	12.0	Spike	P	0 - 23
2294553	Fipronil Sulfone	16.8	Spike	P	0 - 24
2294553	Fluazifop-P-butyl	21.6	Spike	P	0 - 24
2294553	Fludioxonil	22.4	Spike	P	0 - 26
2294553	Flumioxazin	16.2	Spike	P	0 - 37
2294553	Flutolanil	19.3	Spike	P	0 - 26
2294553	Fluxapyroxad	18.2	Spike	P	0 - 34
2294553	Fonofos	13.8	Spike	P	0 - 22
2294553	Hexazinone	12.2	Spike	P	0 - 21
2294553	Imazalil	4.56	Spike	P	0 - 65
2294553	Iprodione	9.53	Spike	P	0 - 33
2294553	Loratadine	12.0	Spike	P	0 - 30
2294553	Malathion	21.1	Spike	P	0 - 26
2294553	Metalaxyl	22.4	Spike	P	0 - 38
2294553	Metolachlor	15.9	Spike	P	0 - 36
2294553	Metribuzin	2.48	Spike	P	0 - 29
2294553	Mevinphos	17.2	Spike	P	0 - 26
2294553	Molinate	9.31	Spike	P	0 - 27
2294553	Myclobutanil	18.9	Spike	P	0 - 21
2294553	Naled	13.7	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P407417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294553	Napropamide	21.7	Spike	P	0 - 30
2294553	Norflurazon	23.1	Spike	P	0 - 24
2294553	Oxadiazon	17.8	Spike	P	0 - 23
2294553	Oxyfluorfen	16.6	Spike	P	0 - 24
2294553	Parathion Ethyl	15.0	Spike	P	0 - 23
2294553	Parathion Methyl	12.3	Spike	P	0 - 23
2294553	Pendimethalin	15.3	Spike	P	0 - 31
2294553	Phenytol	37.4	Spike	F	0 - 30
2294553	Phorate	38.3	Spike	F	0 - 27
2294553	Prodiamine	13.5	Spike	P	0 - 52
2294553	Prometon	27.2	Spike	P	0 - 31
2294553	Prometryn	0.203	Spike	P	0 - 24
2294553	Pronamide	17.6	Spike	P	0 - 26
2294553	Propanil	11.6	Spike	P	0 - 30
2294553	Propargite	29.2	Spike	P	0 - 30
2294553	Propiconazole	24.3	Spike	P	0 - 31
2294553	Pyraflufen Ethyl	17.2	Spike	P	0 - 30
2294553	Pyridaben	13.9	Spike	P	0 - 30
2294553	Pyriproxyfen	22.8	Spike	P	0 - 50
2294553	Simazine	12.1	Spike	P	0 - 25
2294553	Stirophos	5.59	Spike	P	0 - 30
2294553	Sulfentrazone	20.9	Spike	P	0 - 33
2294553	Tebuconazole	31.8	Spike	P	0 - 43
2294553	Terbufos	11.8	Spike	P	0 - 22
2294553	Terbuthylazine	6.73	Spike	P	0 - 24
2294553	Thiobencarb	20.7	Spike	P	0 - 30
2294553	Triadimefon	14.4	Spike	P	0 - 30
LFB	Acetochlor	5.47	LCS	P	0 - 22
LFB	Alachlor	3.10	LCS	P	0 - 20
LFB	Ametryn	7.47	LCS	P	0 - 25
LFB	Atrazine	1.70	LCS	P	0 - 20
LFB	Atrazine Desethyl	1.66	LCS	P	0 - 33
LFB	Azinphos Methyl	1.92	LCS	P	0 - 51
LFB	Azoxystrobin	7.89	LCS	P	0 - 47
LFB	Bromacil	5.60	LCS	P	0 - 26
LFB	Butylate	3.40	LCS	P	0 - 35
LFB	Caffeine	1.17	LCS	P	0 - 27
LFB	Carbophenothion	6.15	LCS	P	0 - 22
LFB	Carfentrazone Ethyl	3.90	LCS	P	0 - 21
LFB	Chlorfenapyr	0.464	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.07	LCS	P	0 - 23
LFB	Chlorpyrifos Methyl	6.97	LCS	P	0 - 24
LFB	Coumaphos	14.4	LCS	P	0 - 30
LFB	Cyanazine	3.92	LCS	P	0 - 37
LFB	Cyprodinil	4.17	LCS	P	0 - 30
LFB	Demeton	3.21	LCS	P	0 - 32
LFB	Diazinon	1.90	LCS	P	0 - 21
LFB	Difenoconazole	19.2	LCS	P	0 - 37
LFB	Dimethenamid	6.96	LCS	P	0 - 21
LFB	Dimethomorph	5.90	LCS	P	0 - 30
LFB	Disulfoton	5.85	LCS	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P407417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Dithiopyr	1.87	LCS	P	0 - 21
LFB	EPTC	2.62	LCS	P	0 - 41
LFB	Ethion	6.44	LCS	P	0 - 45
LFB	Ethoprop	2.38	LCS	P	0 - 28
LFB	Etridiazole	3.22	LCS	P	0 - 30
LFB	Fenamiphos	7.45	LCS	P	0 - 28
LFB	Fenbuconazole	5.02	LCS	P	0 - 36
LFB	Fipronil	4.41	LCS	P	0 - 23
LFB	Fipronil Desulfanyl	0.0525	LCS	P	0 - 22
LFB	Fipronil Sulfide	6.55	LCS	P	0 - 24
LFB	Fipronil Sulfone	5.52	LCS	P	0 - 24
LFB	Fluazifop-P-butyl	4.38	LCS	P	0 - 23
LFB	Fludioxonil	1.06	LCS	P	0 - 23
LFB	Flumioxazin	9.43	LCS	P	0 - 39
LFB	Flutolanil	1.13	LCS	P	0 - 27
LFB	Fluxapyroxad	8.58	LCS	P	0 - 38
LFB	Fonofos	6.76	LCS	P	0 - 28
LFB	Hexazinone	3.61	LCS	P	0 - 27
LFB	Imazalil	2.36	LCS	P	0 - 45
LFB	Iprodione	4.02	LCS	P	0 - 42
LFB	Loratadine	7.16	LCS	P	0 - 30
LFB	Malathion	2.67	LCS	P	0 - 23
LFB	Metalaxyl	2.25	LCS	P	0 - 41
LFB	Metolachlor	3.68	LCS	P	0 - 21
LFB	Metribuzin	2.02	LCS	P	0 - 31
LFB	Mevinphos	11.6	LCS	P	0 - 32
LFB	Molinate	2.27	LCS	P	0 - 31
LFB	Myclobutanil	2.05	LCS	P	0 - 27
LFB	Naled	4.11	LCS	P	0 - 32
LFB	Napropamide	1.69	LCS	P	0 - 30
LFB	Norflurazon	0.577	LCS	P	0 - 25
LFB	Oxadiazon	3.51	LCS	P	0 - 25
LFB	Oxyfluorfen	8.21	LCS	P	0 - 22
LFB	Parathion Ethyl	2.71	LCS	P	0 - 32
LFB	Parathion Methyl	5.83	LCS	P	0 - 30
LFB	Pendimethalin	9.65	LCS	P	0 - 39
LFB	Phenytoin	2.02	LCS	P	0 - 30
LFB	Phorate	10.5	LCS	P	0 - 36
LFB	Prodiamine	22.9	LCS	P	0 - 71
LFB	Prometon	3.01	LCS	P	0 - 23
LFB	Prometryn	3.60	LCS	P	0 - 22
LFB	Pronamide	6.99	LCS	P	0 - 21
LFB	Propanil	9.44	LCS	P	0 - 30
LFB	Propargite	2.15	LCS	P	0 - 30
LFB	Propiconazole	0.471	LCS	P	0 - 23
LFB	Pyraflufen Ethyl	6.03	LCS	P	0 - 30
LFB	Pyridaben	6.41	LCS	P	0 - 30
LFB	Pyriproxyfen	9.17	LCS	P	0 - 53
LFB	Simazine	1.44	LCS	P	0 - 22
LFB	Stirophos	7.06	LCS	P	0 - 30
LFB	Sulfentrazone	3.66	LCS	P	0 - 45

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P407417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Tebuconazole	3.73	LCS	P	0 - 52
LFB	Terbufos	5.84	LCS	P	0 - 27
LFB	Terbutylazine	6.20	LCS	P	0 - 21
LFB	Thiobencarb	2.88	LCS	P	0 - 30
LFB	Triadimefon	6.54	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294551	Acesulfame K	7.10	Spike	P	0 - 30
2294551	AMPA	1.63	Spike	P	0 - 30
2294551	Endothall	10.1	Spike	P	0 - 30
2294551	Glufosinate	0.478	Spike	P	0 - 30
2294551	Glyphosate	3.12	Spike	P	0 - 30
2294551	Sucralose	5.57	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407300

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2293944	2,4-D	4.16	Spike	P	0 - 30
2293944	2,4,5-T	1.25	Spike	P	0 - 30
2293944	Acetaminophen	5.42	Spike	P	0 - 30
2293944	Acetamiprid	5.81	Spike	P	0 - 30
2293944	Afidopyropen	3.57	Spike	P	0 - 30
2293944	Bentazon	3.53	Spike	P	0 - 30
2293944	Benzovindiflupyr	4.50	Spike	P	0 - 30
2293944	Carbamazepine	9.28	Spike	P	0 - 30
2293944	Clothianidin	1.19	Spike	P	0 - 30
2293944	Dinotefuran	6.59	Spike	P	0 - 30
2293944	Diuron	19.5	Spike	P	0 - 30
2293944	Fenuron	7.06	Spike	P	0 - 30
2293944	Fluridone	0.191	Spike	P	0 - 30
2293944	Hydrocodone	11.6	Spike	P	0 - 30
2293944	Ibuprofen	8.53	Spike	P	0 - 30
2293944	Imazapyr	12.3	Spike	P	0 - 30
2293944	Imidacloprid	5.28	Spike	P	0 - 30
2293944	Linuron	4.82	Spike	P	0 - 30
2293944	Mandestrobin	2.30	Spike	P	0 - 30
2293944	MCPP	4.04	Spike	P	0 - 30
2293944	Naproxen	16.7	Spike	P	0 - 30
2293944	Primidone	65.0	Spike	F	0 - 30
2293944	Pyraclostrobin	3.75	Spike	P	0 - 30
2293944	Silvex	1.06	Spike	P	0 - 30
2293944	Thiamethoxam	23.9	Spike	P	0 - 30
2293944	Tolfenpyrad	1.85	Spike	P	0 - 30
2293944	Triclopyr	11.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
Batch ID: P407324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294506	Color (true)	0.214	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P407452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294582	Total Alkalinity	1.39	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P407668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294582	TDS	3.52	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P407485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294857	TSS	7.14	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P407453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294582	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P407796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2294602	Organic Carbon	0.383	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2294594
Field Sample ID: G1SD0121

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	121	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	124	P	30 - 160
EPA 8321B	Diuron-d6	48.6	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.2	P	30 - 160
EPA 8321B	Primidone-d5	115	P	30 - 160
EPA 8321B	Sucralose-d6	96.0	P	30 - 160

Lab Sample ID: 2294596
Field Sample ID: G1SD0121

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	63.9	P	20 - 200
EPA 8270E	Simazine-d10	122	P	73 - 135
EPA 8270E	Terbufos-d10	125	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109320

Included Lab Sample IDs: 2294590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	101	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A109325

Included Lab Sample IDs: 2294588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	99.9	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109326

Included Lab Sample IDs: 2294588

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109348

Included Lab Sample IDs: 2294589

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

Reference Method: EPA 8321B

Run ID: A109365

Included Lab Sample IDs: 2294594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	106	98.2	P/P	50 - 150
2,4,5-T	105	110	P/P	50 - 150
Acetaminophen	106	100	P/P	60 - 160
Acetamiprid	97.9	98.3	P/P	50 - 150
Afidopyropen	96.4	83.8	P/P	50 - 150
Bentazon	114	118	P/P	50 - 160
Benzovindiflupyr	108	96.3	P/P	50 - 150
Carbamazepine	111	105	P/P	60 - 150
Clothianidin	109	105	P/P	60 - 150
Dinotefuran	94.4	96.9	P/P	50 - 150
Diuron	124	112	P/P	60 - 160
Fenuron	98.0	95.2	P/P	60 - 150
Fluridone	90.0	91.0	P/P	60 - 160
Hydrocodone	97.4	91.3	P/P	60 - 150
Ibuprofen	146	99.4	P/P	50 - 160
Imazapyr	106	102	P/P	50 - 150
Imidacloprid	97.1	93.5	P/P	60 - 150
Linuron	81.8	85.7	P/P	60 - 150
Mandestrobin	105	101	P/P	50 - 150
MCPP	90.0	84.3	P/P	50 - 150
Naproxen	142	120	P/P	50 - 160
Primidone	128	126	P/P	60 - 150
Pyraclostrobin	123	118	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A109365
Included Lab Sample IDs: 2294594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silvex	109	102	P/P	50 - 150
Thiamethoxam	85.3	86.9	P/P	50 - 150
Tolfenpyrad	112	123	P/P	60 - 150
Triclopyr	99.3	94.5	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A109378
Included Lab Sample IDs: 2294595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	101	P/P	90 - 110
Iron	102	100	P/P	90 - 110
Magnesium	102	100	P/P	90 - 110
Potassium	97.0	95.1	P/P	90 - 110
Sodium	101	99.5	P/P	90 - 110
Strontium	100	97.6	P/P	90 - 110
Tin	102	98.7	P/P	90 - 110
Titanium	98.4	95.4	P/P	90 - 110
Vanadium	98.6	95.9	P/P	90 - 110
Zinc	103	99.1	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A109382
Included Lab Sample IDs: 2294594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	105	110	P/P	60 - 160
Glufosinate	97.1	96.2	P/P	60 - 160
Glyphosate	94.1	97.6	P/P	60 - 160

Reference Method: SM 2320 B-2011
Run ID: A109384
Included Lab Sample IDs: 2294588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A109384
Included Lab Sample IDs: 2294588

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A109385
Included Lab Sample IDs: 2294595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	95.8	95.4	P/P	90 - 110
Arsenic	96.6	95.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A109385

Included Lab Sample IDs: 2294595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	98.6	98.5	P/P	90 - 110
Beryllium	96.6	96.5	P/P	90 - 110
Boron	103	102	P/P	90 - 110
Cadmium	98.8	98.9	P/P	90 - 110
Chromium	99.5	98.5	P/P	90 - 110
Cobalt	94.9	95.1	P/P	90 - 110
Copper	96.0	94.6	P/P	90 - 110
Lead	93.0	92.5	P/P	90 - 110
Manganese	99.7	99.9	P/P	90 - 110
Molybdenum	98.1	98.2	P/P	90 - 110
Nickel	96.4	95.5	P/P	90 - 110
Selenium	99.7	96.9	P/P	90 - 110
Silver	96.9	97.1	P/P	90 - 110
Thallium	97.2	96.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A109396

Included Lab Sample IDs: 2294594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	69.3	117	P/P	60 - 160
Endothall	90.2	75.0	P/P	60 - 160
Sucralose	93.3	82.7	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A109461

Included Lab Sample IDs: 2294589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A109511

Included Lab Sample IDs: 2294589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	105	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A109523

Included Lab Sample IDs: 2294595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	92.4	94.3	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A109530

Included Lab Sample IDs: 2294589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	96.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A109549
 Included Lab Sample IDs: 2294596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	111		P	80 - 120
Azoxystrobin	98.3		P	80 - 120
Bromacil	114		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	101		P	80 - 120
Carbophenothion	91.7		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	92.7		P	80 - 120
Chlorpyrifos Ethyl	95.9		P	80 - 120
Chlorpyrifos Methyl	106		P	80 - 120
Coumaphos	92.6		P	80 - 120
Cyanazine	100		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	108		P	80 - 120
Difenoconazole	103		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	108		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	101		P	80 - 120
Ethion	95.9		P	80 - 120
Ethoprop	117		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	96.9		P	80 - 120
Fenbuconazole	102		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	97.9		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	99.9		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	116		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	102		P	80 - 120
Iprodione	106		P	80 - 120
Loratadine	108		P	80 - 120
Malathion	95.7		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	97.8		P	80 - 120
Mevinphos	112		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A109549
Included Lab Sample IDs: 2294596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	98.2		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	91.6		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	107		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytol	103		P	80 - 120
Phorate	110		P	80 - 120
Prodiamine	108		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	98.1		P	80 - 120
Propanil	101		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	94.8		P	80 - 120
Pyraflufen Ethyl	96.7		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	111		P	80 - 120
Stiophos	96.4		P	80 - 120
Sulfentrazone	101		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	115		P	80 - 120
Terbuthylazine	106		P	80 - 120
Thiobencarb	98.3		P	80 - 120
Triadimefon	112		P	80 - 120

Reference Method: EPA 8270E
Run ID: A109550
Included Lab Sample IDs: 2294596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	98.1		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A109573
Included Lab Sample IDs: 2294588

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	100	P/P	90 - 110
Sulfate	98.9	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109591
Included Lab Sample IDs: 2294589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.5	93.9	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							6.64	
EPA 200.7 Rev. 4.4	Calcium	108		106	104	108			2.98
	Iron	106		107	105	108			2.85
	Magnesium	108		110	106	110			2.96
	Potassium	101		109	105	107			2.33
	Sodium	103		104	102				1.43
	Strontium	99.7		101	99.0	101			1.77
	Tin	103		106	103	105			2.56
	Titanium	101		101	102	103			1.41
	Vanadium	101		104	102	103			1.35
	Zinc	103		108	104	105			1.52
EPA 200.8 Rev. 5.4	Aluminum	103		100	101	102			0.680
	Antimony	99.8		98.8	99.8	101			0.991
	Arsenic	99.1		100	102	101			1.68
	Barium	105		105	106	106			0.282
	Beryllium	102		100	99.6	103			0.701
	Boron	100		99.1	99.5	101			0.232
	Cadmium	100		98.5	102	103			3.55
	Chromium	102		103	104	103			0.565
	Cobalt	102		104	100	104			0.0678
	Copper	101		103	104	102			1.34
	Lead	97.1		97.0	97.5	98.3			0.532
	Manganese	101		102	101	103			0.451
	Molybdenum	102		101	102	102			1.01
	Nickel	102		105	104	100			1.35
	Selenium	99.1		99.9	101	97.0			0.973
	Silver	101		99.0	101	100			1.60
	Thallium	103		103	104	106			1.33
EPA 300.0 Rev. 2.1	Chloride	98.4		96.9	98.8			0.389	
	Sulfate	96.7		96.7	97.5			0.364	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8		96.2	97.4				1.17
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101		103	95.1				3.97
EPA 353.2 Rev. 2.0	NO2NO3-N	100		100	100				0.0
EPA 365.1 Rev. 2.0	Total-P	106		109	112				2.20
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.9		97.5	96.8				0.554
EPA 8270E	Acetochlor	96.0	101	116	96.1	5.47			18.8
	Alachlor	87.3	90.0	111	89.2	3.10			21.8
	Ametryn	111	119	129	109	7.47			16.6
	Atrazine	93.5	95.1			1.70			10.2
	Atrazine Desethyl	68.0	66.9	85.9	68.1	1.66			16.2
	Azinphos Methyl	74.6	76.0	88.7	83.0	1.92			6.62
	Azoxystrobin	91.5	99.0	119	90.1	7.89			22.6
	Bromacil	85.9	90.9	119	92.2	5.60			25.2
	Butylate	60.2	62.3	59.6	58.9	3.40			1.03
	Caffeine	88.5	87.4			1.17			58.1
	Carbophenothion	75.3	80.1	83.5	70.8	6.15			16.5
	Carfentrazone Ethyl	94.8	98.5	117	89.8	3.90			26.6
	Chlorfenapyr	72.0	72.3	74.9	64.2	0.464			15.4
	Chlorpyrifos Ethyl	75.7	77.3	94.6	98.8	2.07			4.33
	Chlorpyrifos Methyl	90.9	97.5	104	87.5	6.97			17.3
	Coumaphos	130	150	176	154	14.4			13.1
	Cyanazine	104	108	106	101	3.92			4.78
	Cyprodinil	97.3	101	116	99.2	4.17			15.2
	Demeton	70.2	72.5	87.2	68.4	3.21			24.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Diazinon	104	106	142	117	1.90		18.9
	Difenoconazole	64.7	78.4	90.0	77.4	19.2		14.9
	Dimethenamid	77.3	82.9	104	86.9	6.96		17.9
	Dimethomorph	90.1	95.6	122	109	5.90		10.8
	Disulfoton	95.5	90.1	115	94.8	5.85		19.2
	Dithiopyr	90.5	92.2	108	83.9	1.87		24.7
	EPTC	53.6	55.0	54.6	54.7	2.62		0.303
	Ethion	70.0	74.6	76.2	68.3	6.44		10.9
	Ethoprop	96.7	99.0	130	106	2.38		20.4
	Etridiazole	58.2	60.1	67.6	57.7	3.22		15.8
	Fenamiphos	82.6	89.0	101	86.3	7.45		15.6
	Fenbuconazole	100	105	109	89.2	5.02		20.0
	Fipronil	96.5	101	122	101	4.41		19.3
	Fipronil Desulfinyl	95.3	95.2	129	108	0.0525		18.1
	Fipronil Sulfide	70.4	75.2	89.8	79.6	6.55		12.0
	Fipronil Sulfone	76.6	80.9	94.7	80.0	5.52		16.8
	Fluazifop-P-butyl	83.0	86.7	109	87.5	4.38		21.6
	Fludioxonil	93.5	94.5	121	96.5	1.06		22.4
	Flumioxazin	134	147	176	149	9.43		16.2
	Flutolanil	81.6	82.5	100	82.4	1.13		19.3
	Fluxapyroxad	86.0	93.7	95.3	78.2	8.58		18.2
	Fonofos	101	108	118	103	6.76		13.8
	Hexazinone	100	104			3.61		12.2
	Imazalil	84.0	86.0	116	111	2.36		4.56
	Iprodione	103	107	47.0	42.7	4.02		9.53
	Loratadine	58.1	62.4	82.4	73.0	7.16		12.0
	Malathion	98.8	102	114	92.2	2.67		21.1
	Metalaxyl	79.6	81.4	107	85.1	2.25		22.4
	Metolachlor	89.1	92.4	116	91.4	3.68		15.9
	Metribuzin	92.0	93.9	104	101	2.02		2.48
	Mevinphos	93.7	105	118	99.7	11.6		17.2
	Molinate	70.0	71.6	83.0	75.6	2.27		9.31
	Myclobutanil	86.4	88.2	113	93.9	2.05		18.9
	Naled	78.0	81.3	82.9	72.3	4.11		13.7
	Napropamide	85.2	86.6	105	84.3	1.69		21.7
	Norflurazon	92.5	92.0	110	86.6	0.577		23.1
	Oxadiazon	71.0	73.6	93.5	78.2	3.51		17.8
	Oxyfluorfen	94.9	103	136	115	8.21		16.6
	Parathion Ethyl	95.2	97.9	112	96.0	2.71		15.0
	Parathion Methyl	113	120	126	111	5.83		12.3
	Pendimethalin	64.3	70.8	86.6	74.3	9.65		15.3
	Phenytoin	75.5	74.0	129	88.5	2.02		37.4
	Phorate	76.9	85.4	121	82.1	10.5		38.3
	Prodiamine	72.2	90.9	143	125	22.9		13.5
	Prometon	114	117	128	97.7	3.01		27.2
	Prometryn	90.3	93.6	59.9	59.7	3.60		0.203
	Pronamide	93.8	101	128	107	6.99		17.6
	Propanil	95.8	105	123	110	9.44		11.6
	Propargite	130	127	170	126	2.15		29.2
	Propiconazole	93.5	93.1	130	102	0.471		24.3
	Pyraflufen Ethyl	98.1	104	118	99.2	6.03		17.2
	Pyridaben	145	154	40.2	34.9	6.41		13.9
	Pyriproxyfen	92.3	101	43.2	34.4	9.17		22.8
	Simazine	99.9	101			1.44		12.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Stirophos	88.8	95.3	71.4	67.6	7.06	5.59
	Sulfentrazone	97.3	93.8	113	91.8	3.66	20.9
	Tebuconazole	58.2	60.4	69.8	50.7	3.73	31.8
	Terbufos	108	115	137	122	5.84	11.8
	Terbutylazine	80.5	85.6	95.6	89.4	6.20	6.73
	Thiobencarb	88.3	90.9	113	91.8	2.88	20.7
	Triadimefon	83.7	89.3	98.4	85.2	6.54	14.4
EPA 8321B	2,4-D	99.7		107	112		4.16
	2,4,5-T	103		109	111		1.25
	Acesulfame K	102		67.8	72.8		7.10
	Acetaminophen	79.4		70.7	74.6		5.42
	Acetamiprid	74.9		75.2	79.8		5.81
	Afidopyropen	65.9		55.4	57.4		3.57
	AMPA	106		93.5	92.0		1.63
	Bentazon	87.9		92.2	95.5		3.53
	Benzovindiflupyr	79.6		69.9	73.1		4.50
	Carbamazepine	86.8		90.2	99.0		9.28
	Clothianidin	68.1		76.0	75.0		1.19
	Dinotefuran	85.3		90.4	84.6		6.59
	Diuron	89.4		89.3	108		19.5
	Endothall	77.5		102	113		10.1
	Fenuron	80.7		87.9	81.9		7.06
	Fluridone	80.8		75.2	75.1		0.191
	Glufosinate	96.6		96.2	96.6		0.478
	Glyphosate	97.9		87.9	85.2		3.12
	Hydrocodone	87.0		82.3	92.4		11.6
	Ibuprofen	58.9		86.6	79.5		8.53
	Imazapyr	108		107	94.3		12.3
	Imidacloprid	77.6		90.5	95.4		5.28
	Linuron	80.8		69.0	72.4		4.82
	Mandestrobin	73.6		77.9	79.7		2.30
	MCPP	93.2		92.9	96.8		4.04
	Naproxen	58.7		66.4	56.2		16.7
	Primidone	101		127	64.6		65.0
	Pyraclostrobin	75.7		85.9	89.2		3.75
	Silvex	89.1		98.2	99.3		1.06
	Sucralose	93.3		89.9	96.0		5.57
	Thiamethoxam	80.5		77.2	98.1		23.9
	Tolfenpyrad	43.3		48.7	49.6		1.85
	Triclopyr	97.8		95.2	107		11.9
SM 2120 B-2011	Color (true)	98.4				0.214	
SM 2320 B-2011	Total Alkalinity	101				1.39	
SM 2540 C-2011	TDS					3.52	
SM 2540 D-2011	TSS					7.14	
SM 4500 F-C-2011	Fluoride	101		100	100		0.0
SM 5310 B-2011	Organic Carbon	96.4		95.8	96.3		0.383

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2294588
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2294595

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2294595
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2294588
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2294588
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2294589
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2294589
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2294589
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2294589
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2294590
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2294596
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2294594
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2294588
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2294588
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2294595
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2294588
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2294588
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2294588
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2294589

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	12/10/2021			12/10/2021 14:47	Khloe J Berg	2294588
EPA 200.7 Rev. 4.4	12/10/2021	12/13/2021 12:00	Emily M Philpot	12/14/2021 16:26	Josef B Mick	2294595
EPA 200.8 Rev. 5.4	12/10/2021	12/13/2021 12:00	Emily M Philpot	12/14/2021 16:42	Alexander Thompson	2294595
	12/10/2021	12/17/2021 10:40	Vijayalakshmi Reddy	12/22/2021 04:23	Alexander Thompson	2294595
EPA 300.0 Rev. 2.1	12/10/2021			12/22/2021 12:36	Roberta Tatti	2294588
EPA 350.1 Rev. 2.0	12/10/2021			12/21/2021 13:19	Ping Hua	2294589
EPA 351.2 Rev. 2.0	12/10/2021	12/27/2021 11:02	Samantha L Bates	12/28/2021 14:02	Virginia P. Brown	2294589
EPA 353.2 Rev. 2.0	12/10/2021			12/13/2021 11:34	Beverly Y. Sanders	2294589
EPA 365.1 Rev. 2.0	12/10/2021	12/15/2021 17:30	Simonne.V. Calhoun	12/17/2021 13:44	Shengyu Ding	2294589
EPA 365.1 Rev. 2.0 dissolved	12/10/2021			12/10/2021 14:31	James L Waggeberby	2294590
EPA 8270E	12/10/2021	12/15/2021 08:00	Rasheda Ghaffari	12/18/2021 22:15	Michael Poppell	2294596
	12/10/2021	12/15/2021 08:00	Rasheda Ghaffari	12/19/2021 23:52	Michael Poppell	2294596
EPA 8321B	12/10/2021	12/14/2021 09:00	Hoor Shaik	12/15/2021 11:58	Juyoung Kim	2294594
	12/10/2021	12/14/2021 12:00	Juyoung Kim	12/14/2021 15:57	Juyoung Kim	2294594
	12/10/2021	12/14/2021 12:00	Juyoung Kim	12/14/2021 17:10	Manjita Shrestha	2294594
SM 2120 B-2011	12/10/2021			12/10/2021 15:32	Sarah A Nixon	2294588
SM 2320 B-2011	12/10/2021			12/14/2021 12:55	Sarah A Nixon	2294588
SM 2340B	12/10/2021			12/14/2021 16:26	Josef B Mick	2294595
SM 2540 C-2011	12/10/2021			12/14/2021 13:02	Yijie Li	2294588
SM 2540 D-2011	12/10/2021			12/14/2021 13:02	Yijie Li	2294588
SM 4500 F-C-2011	12/10/2021			12/14/2021 12:55	Sarah A Nixon	2294588
SM 5310 B-2011	12/10/2021			12/21/2021 03:37	Khloe J Berg	2294589