

Chemical Analysis Report

SO-DIST-2022-04-28-01

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

Event Description: **2022SMP: Caloosa**

Request ID: **RQ-2022-04-25-25**

Customer: **SO-DIST**

Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 24-MAY-2022 18:02



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: 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: ChaparralSloughAtSR29

Collection Date/Time: 04/27/2022 08:55

Field ID: G3SD0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322927	DEP SOP: NU-094-1	Color (true)**	330		PCU	P413073	
	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P413079	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P413257	
		Sulfate	0.20	U	mg SO4/L	P413259	
	SM 2320 B-2011	Total Alkalinity	21		mg CaCO3/L	P413564	
	SM 2540 C-2011	TDS	150		mg/L	P413670	
	SM 2540 D-2011	TSS	30		mg/L	P413228	
	SM 4500-F- C-2011	Fluoride	0.062	I	mg F/L	P413566	
2322929	EPA 350.1 Rev. 2.0	Ammonia-N	0.77		mg N/L	P413287	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.5		mg N/L	P413476	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413400	
	EPA 365.1 Rev. 2.0	Total-P	0.83		mg P/L	P413798	
	SM 5310 B-2011	Organic Carbon	40		mg C/L	P413420	

Ref. Method and Comment:

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

Sample Location: PadgettRanchCanalAtSR78

Collection Date/Time: 04/27/2022 09:40

Field ID: G3SD0222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322928	DEP SOP: NU-094-1	Color (true)**	99		PCU	P413073	
	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P413079	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P413257	
		Sulfate	0.27	I	mg SO4/L	P413259	
	SM 2320 B-2011	Total Alkalinity	31		mg CaCO3/L	P413564	
	SM 2540 C-2011	TDS	109		mg/L	P413670	
	SM 2540 D-2011	TSS	10		mg/L	P413228	
	SM 4500-F- C-2011	Fluoride	0.26		mg F/L	P413566	
2322930	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P413285	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P413478	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413400	
	EPA 365.1 Rev. 2.0	Total-P	0.95		mg P/L	P413798	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P413420	

Ref. Method and Comment:

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

Sample Location: CaloosaRivDwnstrmOrtona

Collection Date/Time: 04/27/2022 10:25

Field ID: G3SD0225

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322931	DEP SOP: NU-094-1	Color (true)**	50		PCU	P413073	
	EPA 180.1 Rev. 2.0	Turbidity	7.6	A	NTU	P413079	
	EPA 300.0 Rev. 2.1	Chloride	52		mg Cl/L	P413492	
		Sulfate	23		mg SO4/L	P413495	
	SM 2320 B-2011	Total Alkalinity	114		mg CaCO3/L	P413564	
	SM 2540 C-2011	TDS	285		mg/L	P413670	
	SM 2540 D-2011	TSS	11		mg/L	P413228	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P413566	
2322932	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P413285	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P413479	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.090		mg N/L	P413400	
	EPA 365.1 Rev. 2.0	Total-P	0.090		mg P/L	P413406	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P413420	
2322942	EPA 8321B	2,4-D	0.0048	I	ug/L	P413103	
		Acesulfame K	0.10	UJ	ug/L	P413045	LCS
		2,4,5-T	0.0040	U	ug/L	P413103	
		AMPA	0.10	U	ug/L	P413045	
		Acetaminophen	0.0080	U	ug/L	P413103	
		Endothall	0.25	U	ug/L	P413045	
		Acetamiprid	0.020	U	ug/L	P413103	MS, RPD
		Glufosinate	0.10	U	ug/L	P413045	
		Glyphosate	0.10	I	ug/L	P413045	
		Afidopyropen	0.020	U	ug/L	P413103	MS, RPD
		Bentazon	0.0019	I	ug/L	P413103	
		Sucralose	0.21		ug/L	P413045	
		Benzovindiflupyr	0.020	U	ug/L	P413103	
		Carbamazepine	8.0E-04	U	ug/L	P413103	
		Clothianidin	0.020	U	ug/L	P413103	
		Dinotefuran	0.020	U	ug/L	P413103	
		Diuron	0.020	U	ug/L	P413103	MS
		Fenuron	0.32	U	ug/L	P413103	
		Fluridone	0.0080	U	ug/L	P413103	
		Imazapyr	0.020		ug/L	P413103	
		Hydrocodone	0.0020	U	ug/L	P413103	
		Ibuprofen	0.020	U	ug/L	P413103	
		Imidacloprid	0.020	U	ug/L	P413103	MS
		Linuron	0.040	U	ug/L	P413103	
		Mandestrobin	0.020	U	ug/L	P413103	
		MCP	0.0040	U	ug/L	P413103	
		Naproxen	0.0080	U	ug/L	P413103	
		Primidone	0.0040	U	ug/L	P413103	
		Pyraclostrobin	0.020	U	ug/L	P413103	
		Silvex	0.0040	U	ug/L	P413103	
		Thiamethoxam	0.020	U	ug/L	P413103	MS

Field ID: G3SD0225

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322942	EPA 8321B	Tolfenpyrad	0.020	U	ug/L	P413103	
		Triclopyr	0.0040	U	ug/L	P413103	
2322959	EPA 8270E	Oxybenzone**	10	U	ng/L	P413158	
		Acetochlor	0.26	U	ng/L	P413158	
		Octinoxate**	21	U	ng/L	P413158	
		Alachlor	0.26	U	ng/L	P413158	
		Avobenzone**	100	U	ng/L	P413158	
		Ametryn	0.62	U	ng/L	P413158	
		Atrazine	170		ng/L	P413158	
		Atrazine Desethyl	34		ng/L	P413158	
		Azinphos Methyl	2.1	U	ng/L	P413158	
		Azoxystrobin**	1.4	I	ng/L	P413158	
		Bromacil	0.52	U	ng/L	P413158	
		Butylate	0.41	U	ng/L	P413158	
		Caffeine**	7.7	U	ng/L	P413158	
		Carbophenothion	0.21	U	ng/L	P413158	
		Carfentrazone Ethyl**	0.10	U	ng/L	P413158	
		Chlorfenapyr**	0.18	U	ng/L	P413158	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P413158	
		Chlorpyrifos Methyl	0.052	U	ng/L	P413158	
		Coumaphos**	0.52	U	ng/L	P413158	
		Cyanazine	3.4	U	ng/L	P413158	
		Cyprodinil**	0.10	U	ng/L	P413158	
		Demeton	1.5	U	ng/L	P413158	
		Diazinon	0.13	U	ng/L	P413158	
		Difenoconazole**	0.62	U	ng/L	P413158	
		Dimethenamid**	0.10	U	ng/L	P413158	
		Dimethomorph**	0.18	U	ng/L	P413158	
		Disulfoton	0.52	U	ng/L	P413158	
		Dithiopyr**	0.18	U	ng/L	P413158	
		EPTC	1.3	U	ng/L	P413158	
		Ethion	0.15	U	ng/L	P413158	
		Ethoprop	0.10	U	ng/L	P413158	
		Etridiazole**	0.15	U	ng/L	P413158	
		Fenamiphos	0.52	U	ng/L	P413158	
		Fenbuconazole**	0.13	U	ng/L	P413158	
		Fipronil	0.26	U	ng/L	P413158	
		Fipronil Desulfinyl**	0.13	U	ng/L	P413158	
		Fipronil Sulfide	0.15	U	ng/L	P413158	
		Fipronil Sulfone	0.15	U	ng/L	P413158	
		Fluazifop-P-butyl**	0.10	U	ng/L	P413158	
		Fludioxonil**	0.13	U	ng/L	P413158	
		Flumioxazin**	1.8	U	ng/L	P413158	
		Flutolanil**	0.10	U	ng/L	P413158	
		Fluxapyroxad**	0.10	U	ng/L	P413158	

Field ID: G3SD0225

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322959	EPA 8270E	Fonofos	0.21	U	ng/L	P413158	
		Hexazinone	0.52	U	ng/L	P413158	
		Imazalil**	0.77	U	ng/L	P413158	
		Iprodione**	0.62	U	ng/L	P413158	
		Loratadine**	0.10	U	ng/L	P413158	
		Malathion	0.36	U	ng/L	P413158	
		Metalaxyl	0.77	U	ng/L	P413158	
		Metolachlor	16		ng/L	P413158	
		Metribuzin	3.0	I	ng/L	P413158	
		Mevinphos	1.1	U	ng/L	P413158	
		Molinate	0.31	U	ng/L	P413158	
		Myclobutanil**	0.26	U	ng/L	P413158	
		Naled**	1.5	U	ng/L	P413158	
		Napropamide**	0.41	U	ng/L	P413158	
		Norflurazon	3.0		ng/L	P413158	
		Oxadiazon	0.31	U	ng/L	P413158	
		Oxyfluorfen**	0.15	U	ng/L	P413158	
		Parathion Ethyl	0.26	U	ng/L	P413158	
		Parathion Methyl	0.57	U	ng/L	P413158	
		Pendimethalin	1.0	U	ng/L	P413158	
		Phenytoin**	3.6	U	ng/L	P413158	
		Phorate	0.54	U	ng/L	P413158	
		Prodiamine**	0.18	U	ng/L	P413158	
		Prometon	0.93	U	ng/L	P413158	
		Prometryn	0.21	U	ng/L	P413158	
		Pronamide**	0.15	U	ng/L	P413158	
		Propanil**	0.13	U	ng/L	P413158	
		Propargite**	1.5	U	ng/L	P413158	
		Propiconazole**	0.52	U	ng/L	P413158	
		Pyraflufen Ethyl**	0.26	U	ng/L	P413158	
		Pyridaben**	0.46	U	ng/L	P413158	
		Pyriproxyfen**	0.13	U	ng/L	P413158	
		Simazine	0.52	U	ng/L	P413158	
		Stirophos**	0.13	U	ng/L	P413158	
		Sulfentrazone**	0.52	U	ng/L	P413158	
		Tebuconazole**	0.52	U	ng/L	P413158	
		Terbufos	0.10	U	ng/L	P413158	
		Terbuthylazine	0.44	U	ng/L	P413158	
		Thiobencarb**	0.62	U	ng/L	P413158	
		Triadimefon**	0.26	U	ng/L	P413158	

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: MDL for some parameters elevated due to matrix interference. MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 04/27/2022 10:55

Field ID: FB_04272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322933	DEP SOP: NU-094-1	Color (true)**	2.5	U	PCU	P413074	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P413079	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P413492	
		Sulfate	0.20	U	mg SO4/L	P413495	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P413564	
	SM 2540 C-2011	TDS	15	U	mg/L	P413670	
	SM 2540 D-2011	TSS	2	U	mg/L	P413228	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P413566	
2322934	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P413285	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P413479	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P413400	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P413687	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P413420	
2322943	EPA 8321B	2,4-D	0.0020	U	ug/L	P413103	
		Acesulfame K	0.10	UJ	ug/L	P413045	LCS
		2,4,5-T	0.0040	U	ug/L	P413103	
		AMPA	0.10	U	ug/L	P413045	
		Acetaminophen	0.0080	U	ug/L	P413103	
		Endothall	0.25	U	ug/L	P413045	
		Acetamiprid	0.0020	U	ug/L	P413103	MS, RPD
		Glufosinate	0.10	U	ug/L	P413045	
		Glyphosate	0.10	U	ug/L	P413045	
		Afidopyropen	0.0020	U	ug/L	P413103	MS, RPD
		Bentazon	8.0E-04	U	ug/L	P413103	
		Sucralose	0.010	U	ug/L	P413045	
		Benzovindiflupyr	0.0020	U	ug/L	P413103	
		Carbamazepine	8.0E-04	U	ug/L	P413103	
		Clothianidin	0.0020	U	ug/L	P413103	
		Dinotefuran	0.0020	U	ug/L	P413103	
		Diuron	0.0020	U	ug/L	P413103	MS
		Fenuron	0.032	U	ug/L	P413103	
		Fluridone	8.0E-04	U	ug/L	P413103	
		Imazapyr	0.0040	U	ug/L	P413103	
		Hydrocodone	0.0020	U	ug/L	P413103	
		Ibuprofen	0.020	U	ug/L	P413103	
		Imidacloprid	0.0020	U	ug/L	P413103	MS
		Linuron	0.0040	U	ug/L	P413103	
		Mandestrobin	0.0020	U	ug/L	P413103	
		MCP	0.0040	U	ug/L	P413103	
		Naproxen	0.0080	U	ug/L	P413103	
		Primidone	0.0040	U	ug/L	P413103	
		Pyraclostrobin	0.0020	U	ug/L	P413103	
		Silvex	0.0040	U	ug/L	P413103	
		Thiamethoxam	0.0020	U	ug/L	P413103	MS

Field ID: FB_04272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322943	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P413103	
		Triclopyr	0.0040	U	ug/L	P413103	
2322960	EPA 8270E	Oxybenzone**	510		ng/L	P413158	
		Acetochlor	0.26	U	ng/L	P413158	
		Octinoxate**	21	U	ng/L	P413158	
		Alachlor	0.26	U	ng/L	P413158	
		Avobenzone**	100	U	ng/L	P413158	
		Ametryn	0.62	U	ng/L	P413158	
		Atrazine	0.26	U	ng/L	P413158	
		Atrazine Desethyl	1.5	U	ng/L	P413158	
		Azinphos Methyl	2.1	U	ng/L	P413158	
		Azoxystrobin**	0.52	U	ng/L	P413158	
		Bromacil	0.52	U	ng/L	P413158	
		Butylate	0.41	U	ng/L	P413158	
		Caffeine**	7.7	U	ng/L	P413158	
		Carbophenothion	0.21	U	ng/L	P413158	
		Carfentrazone Ethyl**	0.10	U	ng/L	P413158	
		Chlorfenapyr**	0.18	U	ng/L	P413158	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P413158	
		Chlorpyrifos Methyl	0.052	U	ng/L	P413158	
		Coumaphos**	0.52	U	ng/L	P413158	
		Cyanazine	3.4	U	ng/L	P413158	
		Cyprodinil**	0.10	U	ng/L	P413158	
		Demeton	1.5	U	ng/L	P413158	
		Diazinon	0.13	U	ng/L	P413158	
		Difenoconazole**	0.62	U	ng/L	P413158	
		Dimethenamid**	0.10	U	ng/L	P413158	
		Dimethomorph**	0.18	U	ng/L	P413158	
		Disulfoton	0.52	U	ng/L	P413158	
		Dithiopyr**	0.18	U	ng/L	P413158	
		EPTC	1.3	U	ng/L	P413158	
		Ethion	0.15	U	ng/L	P413158	
		Ethoprop	0.10	U	ng/L	P413158	
		Etridiazole**	0.15	U	ng/L	P413158	
		Fenamiphos	0.52	U	ng/L	P413158	
		Fenbuconazole**	0.13	U	ng/L	P413158	
		Fipronil	0.26	U	ng/L	P413158	
		Fipronil Desulfinyl**	0.13	U	ng/L	P413158	
		Fipronil Sulfide	0.15	U	ng/L	P413158	
		Fipronil Sulfone	0.15	U	ng/L	P413158	
		Fluazifop-P-butyl**	0.10	U	ng/L	P413158	
		Fludioxonil**	0.13	U	ng/L	P413158	
		Flumioxazin**	1.8	U	ng/L	P413158	
		Flutolanil**	0.10	U	ng/L	P413158	
		Fluxapyroxad**	0.10	U	ng/L	P413158	

Field ID: FB_04272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2322960	EPA 8270E	Fonofos	0.21	U	ng/L	P413158	
		Hexazinone	0.52	U	ng/L	P413158	
		Imazalil**	0.77	U	ng/L	P413158	
		Iprodione**	0.62	U	ng/L	P413158	
		Loratadine**	0.10	U	ng/L	P413158	
		Malathion	0.36	U	ng/L	P413158	
		Metalaxyl	0.77	U	ng/L	P413158	
		Metolachlor	0.36	U	ng/L	P413158	
		Metribuzin	2.6	U	ng/L	P413158	
		Mevinphos	1.1	U	ng/L	P413158	
		Molinate	0.31	U	ng/L	P413158	
		Myclobutanil**	0.26	U	ng/L	P413158	
		Naled**	1.5	U	ng/L	P413158	
		Napropamide**	0.41	U	ng/L	P413158	
		Norflurazon	0.52	U	ng/L	P413158	
		Oxadiazon	0.31	U	ng/L	P413158	
		Oxyfluorfen**	0.15	U	ng/L	P413158	
		Parathion Ethyl	0.26	U	ng/L	P413158	
		Parathion Methyl	0.57	U	ng/L	P413158	
		Pendimethalin	1.0	U	ng/L	P413158	
		Phenytol**	3.6	U	ng/L	P413158	
		Phorate	0.54	U	ng/L	P413158	
		Prodiamine**	0.18	U	ng/L	P413158	
		Prometon	0.93	U	ng/L	P413158	
		Prometryn	0.21	U	ng/L	P413158	
		Pronamide**	0.15	U	ng/L	P413158	
		Propanil**	0.13	U	ng/L	P413158	
		Propargite**	1.5	U	ng/L	P413158	
		Propiconazole**	0.52	U	ng/L	P413158	
		Pyraflufen Ethyl**	0.26	U	ng/L	P413158	
		Pyridaben**	0.46	U	ng/L	P413158	
		Pyriproxyfen**	0.13	U	ng/L	P413158	
		Simazine	0.52	U	ng/L	P413158	
		Stirophos**	0.13	U	ng/L	P413158	
		Sulfentrazone**	0.52	U	ng/L	P413158	
		Tebuconazole**	0.52	U	ng/L	P413158	
		Terbufos	0.10	U	ng/L	P413158	
		Terbuthylazine	0.44	U	ng/L	P413158	
		Thiobencarb**	0.62	U	ng/L	P413158	
		Triadimefon**	0.26	U	ng/L	P413158	

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 imazapyr could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P413073

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P413074

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413079

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413257

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413259

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413492

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413495

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413285

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413287

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413478

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413479

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413400

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413406

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413687

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413798

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

Reference Method: EPA 8270E
Batch ID: P413158

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413158

Component	Result	Code	Units
Avobenzene	100	U	ng/L
Avobenzene	100	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
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	0.20	U	ng/L
Carbophenothion	0.20	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413158

Component	Result	Code	Units
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
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
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	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
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413158

Component	Result	Code	Units
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	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
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	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
Terbutylazine	0.42	U	ng/L
Terbutylazine	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P413045

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: P413103

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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 2320 B-2011

Batch ID: P413564

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

Reference Method: SM 2540 C-2011

Batch ID: P413670

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P413228

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P413566

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P413420

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P413073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	85 - 115

Reference Method: DEP SOP: NU-094-1
Batch ID: P413074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413257

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413259

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413492

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413495

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413287

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413478

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413479

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413400

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: P413406

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413687

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413798

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

Reference Method: EPA 8270E
Batch ID: P413158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	107		P	70 - 121
Alachlor	97.1		P	68 - 119
Ametryn	79.1		P	64 - 139
Atrazine	113		P	76 - 120
Atrazine Desethyl	77.6		P	44 - 126
Avobenzone	108		P	59 - 206
Azinphos Methyl	104		P	43 - 192
Azoxystrobin	104		P	36 - 224
Bromacil	77.1		P	52 - 121
Butylate	39.4		P	28 - 91.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P413158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	88.2		P	50 - 134
Carbophenothion	112		P	56 - 129
Carfentrazone Ethyl	109		P	60 - 141
Chlorfenapyr	103		P	56 - 115
Chlorpyrifos Ethyl	103		P	60 - 118
Chlorpyrifos Methyl	109		P	68 - 119
Coumaphos	97.8		P	18 - 250
Cyanazine	97.7		P	61 - 250
Cyprodinil	122		P	55 - 145
Demeton	92.8		P	30 - 159
Diazinon	119		P	70 - 123
Difenoconazole	147		P	49 - 204
Dimethenamid	89.5		P	64 - 115
Dimethomorph	97.3		P	12 - 219
Disulfoton	111		P	44 - 125
Dithiopyr	97.3		P	64 - 115
EPTC	43.9		P	28 - 86.0
Ethion	82.8		P	33 - 125
Ethoprop	103		P	64 - 116
Etridiazole	53.3		P	34 - 91.0
Fenamiphos	109		P	12 - 127
Fenbuconazole	86.7		P	59 - 151
Fipronil	116		P	67 - 129
Fipronil Desulfinyl	110		P	65 - 127
Fipronil Sulfide	107		P	61 - 116
Fipronil Sulfone	104		P	55 - 117
Fluazifop-P-butyl	123		P	62 - 127
Fludioxonil	103		P	62 - 128
Flumioxazin	136		P	33 - 250
Flutolanil	78.8		P	56 - 127
Fluxapyroxad	88.5		P	45 - 128
Fonofos	102		P	62 - 111
Hexazinone	94.7		P	46 - 139
Imazalil	133		P	38 - 142
Iprodione	98.5		P	47 - 135
Loratadine	84.5		P	10 - 244
Malathion	96.9		P	61 - 139
Metalaxyl	95.1		P	10 - 119
Metolachlor	86.1		P	65 - 118
Metribuzin	89.0		P	51 - 250
Mevinphos	92.3		P	53 - 121
Molinate	75.2		P	42 - 96.0
Myclobutanil	93.0		P	55 - 128
Naled	95.7		P	10 - 98.0
Napropamide	78.2		P	49 - 121
Norflurazon	87.6		P	61 - 126
Octinoxate	70.4		P	25 - 150
Oxadiazon	81.7		P	59 - 116
Oxybenzone	77.6		P	59 - 147
Oxyfluorfen	128		P	64 - 137
Parathion Ethyl	96.8		P	70 - 112
Parathion Methyl	124		P	76 - 133

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pendimethalin	92.9		P	52 - 117
Phenytoin	39.1		P	10 - 199
Phorate	102		P	48 - 121
Prodiamine	49.5		P	26 - 142
Prometon	90.9		P	43 - 123
Prometryn	82.1		P	66 - 127
Pronamide	105		P	75 - 121
Propanil	90.9		P	45 - 150
Propargite	62.1		P	42 - 208
Propiconazole	92.0		P	60 - 125
Pyraflufen Ethyl	98.5		P	70 - 138
Pyridaben	89.3		P	35 - 245
Pyriproxyfen	85.2		P	30 - 149
Simazine	82.4		P	72 - 125
Stirophos	66.6		P	29 - 164
Sulfentrazone	66.0		P	21 - 139
Tebuconazole	54.4		P	10 - 115
Terbufos	111		P	60 - 123
Terbutylazine	87.0		P	72 - 115
Thiobencarb	74.4		P	31 - 139
Triadimefon	102		P	65 - 116

Reference Method: EPA 8321B

Batch ID: P413045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	155		F	40 - 150
AMPA	91.6		P	40 - 150
Endothall	85.3		P	40 - 150
Glufosinate	91.1		P	40 - 150
Glyphosate	91.6		P	40 - 150
Sucralose	117		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	83.8		P	40 - 150
2,4,5-T	83.8		P	40 - 150
Acetaminophen	92.3		P	30 - 150
Acetamiprid	66.2		P	40 - 150
Afidopyropen	45.5		P	40 - 150
Bentazon	77.6		P	30 - 150
Benzovindiflupyr	68.9		P	40 - 150
Carbamazepine	65.1		P	40 - 150
Clothianidin	94.1		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	73.7		P	40 - 150
Fenuron	96.4		P	40 - 150
Fluridone	77.5		P	40 - 150
Hydrocodone	93.5		P	40 - 150
Ibuprofen	71.5		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P413103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imazapyr	80.1		P	40 - 150
Imidacloprid	77.4		P	40 - 150
Linuron	71.1		P	40 - 150
Mandestrobin	71.1		P	40 - 150
MCPP	94.9		P	40 - 150
Naproxen	62.4		P	40 - 150
Primidone	97.4		P	40 - 150
Pyraclostrobin	60.6		P	40 - 150
Silvex	98.8		P	40 - 150
Thiamethoxam	84.9		P	40 - 150
Tolfenpyrad	34.5		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P413564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.9		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P413566

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P413420

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322550	Chloride	97.1		P	90 - 110
2322740	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322550	Sulfate	96.5		P	90 - 110
2322740	Sulfate	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322944	Chloride	97.6		P	90 - 110
2323001	Chloride	97.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413495

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322944	Sulfate	98.5		P	90 - 110
2323001	Sulfate	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322379	Ammonia-N	99.2	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413287

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322551	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322002	Kjeldahl Nitrogen	104	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413478

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322888	Kjeldahl Nitrogen	109	109	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413479

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322830	Kjeldahl Nitrogen	98.1	94.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322830	NO2NO3-N	99.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322890	Total-P	99.2	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2324664	Total-P	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2324110	Total-P	102	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322917	Acetochlor	98.8	88.0	P/P	65 - 124
2322917	Alachlor	110	102	P/P	61 - 121
2322917	Ametryn	91.3	91.3	P/P	52 - 216
2322917	Atrazine	116	116	P/P	68 - 133
2322917	Atrazine Desethyl	108	77.5	P/P	15 - 160
2322917	Avobenzone	114	111	P/P	59 - 206
2322917	Azinphos Methyl	114	103	P/P	40 - 292
2322917	Azoxystrobin	100	101	P/P	12 - 242
2322917	Bromacil	73.5	87.6	P/P	54 - 167
2322917	Butylate	35.6	45.3	P/P	14 - 94.0
2322917	Caffeine	12.9	20.6	P/P	10 - 226
2322917	Carbophenothion	105	94.5	P/P	49 - 122
2322917	Carfentrazone Ethyl	112	98.9	P/P	53 - 138
2322917	Chlorfenapyr	97.5	85.9	P/P	50 - 150
2322917	Chlorpyrifos Ethyl	94.6	86.5	P/P	52 - 122
2322917	Chlorpyrifos Methyl	115	111	P/P	66 - 117
2322917	Coumaphos	79.2	94.2	P/P	50 - 220
2322917	Cyanazine	97.8	98.5	P/P	43 - 245
2322917	Cyprodinil	114	104	P/P	50 - 150
2322917	Demeton	96.3	86.2	P/P	43 - 188
2322917	Diazinon	117	125	P/P	69 - 131
2322917	Difenoconazole	152	135	P/P	34 - 231

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P413158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322917	Dimethenamid	97.2	85.4	P/P	55 - 118
2322917	Dimethomorph	97.5	111	P/P	50 - 150
2322917	Disulfoton	111	101	P/P	38 - 141
2322917	Dithiopyr	105	96.4	P/P	42 - 116
2322917	EPTC	59.8	67.8	P/P	18 - 85.0
2322917	Ethion	86.9	64.3	P/P	10 - 131
2322917	Ethoprop	95.6	97.4	P/P	65 - 129
2322917	Etridiazole	65.3	69.2	P/P	50 - 150
2322917	Fenamiphos	65.4	79.1	P/P	31 - 137
2322917	Fenbuconazole	89.3	93.6	P/P	57 - 160
2322917	Fipronil	120	109	P/P	62 - 132
2322917	Fipronil Desulfinyf	127	118	P/P	57 - 131
2322917	Fipronil Sulfide	97.7	92.2	P/P	15 - 138
2322917	Fipronil Sulfone	113	98.9	P/P	21 - 134
2322917	Fluazifop-P-butyl	111	103	P/P	54 - 133
2322917	Fludioxonil	105	100	P/P	58 - 127
2322917	Flumioxazin	169	151	P/P	33 - 300
2322917	Flutolanil	79.9	78.4	P/P	42 - 130
2322917	Fluxapyroxad	90.7	83.5	P/P	23 - 141
2322917	Fonofos	99.4	108	P/P	58 - 119
2322917	Hexazinone	99.9	90.4	P/P	68 - 172
2322917	Imazalil	84.9	84.1	P/P	48 - 283
2322917	Iprodione	100	106	P/P	38 - 140
2322917	Loratadine	85.7	90.0	P/P	50 - 150
2322917	Malathion	87.4	89.3	P/P	40 - 137
2322917	Metalaxyl	100	98.7	P/P	21 - 129
2322917	Metolachlor	93.2	89.5	P/P	55 - 122
2322917	Metribuzin	85.6	95.2	P/P	38 - 187
2322917	Mevinphos	95.1	89.0	P/P	54 - 134
2322917	Molinate	67.2	72.8	P/P	41 - 97.0
2322917	Myclobutanil	104	92.3	P/P	56 - 125
2322917	Naled	106	106	P/P	10 - 108
2322917	Napropamide	88.8	76.7	P/P	50 - 150
2322917	Norflurazon	87.7	85.0	P/P	32 - 122
2322917	Octinoxate	78.4	79.2	P/P	25 - 150
2322917	Oxadiazon	81.6	76.2	P/P	40 - 119
2322917	Oxybenzone	83.6	86.2	P/P	59 - 147
2322917	Oxyfluorfen	146	136	P/P	61 - 153
2322917	Parathion Ethyl	79.3	82.3	P/P	59 - 130
2322917	Parathion Methyl	115	120	P/P	65 - 155
2322917	Pendimethalin	96.3	95.0	P/P	49 - 138
2322917	Phenytoin	54.2	51.8	P/P	50 - 200
2322917	Phorate	91.6	85.9	P/P	54 - 161
2322917	Prodiamine	75.2	65.7	P/P	33 - 161
2322917	Prometon	62.9	72.8	P/P	48 - 140
2322917	Prometryn	87.7	87.0	P/P	55 - 134
2322917	Pronamide	120	109	P/P	66 - 137
2322917	Propanil	106	94.3	P/P	50 - 150
2322917	Propargite	69.8	57.5	P/P	50 - 200
2322917	Propiconazole	86.3	83.6	P/P	36 - 150
2322917	Pyraflufen Ethyl	89.2	91.6	P/P	50 - 150
2322917	Pyridaben	78.5	80.8	P/P	50 - 200

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P413158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322917	Pyriproxyfen	82.7	75.0	P/P	10 - 165
2322917	Simazine	78.9	83.9	P/P	57 - 145
2322917	Stiropfos	69.7	56.5	P/P	50 - 150
2322917	Sulfentrazone	99.1	93.3	P/P	34 - 140
2322917	Tebuconazole	63.3	50.3	P/P	10 - 127
2322917	Terbufos	120	119	P/P	59 - 138
2322917	Terbuthylazine	86.4	82.1	P/P	68 - 119
2322917	Thiobencarb	78.0	79.2	P/P	50 - 150
2322917	Triadimefon	104	106	P/P	50 - 150

Reference Method: EPA 8321B

Batch ID: P413045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322881	Acesulfame K	117	129	P/P	40 - 150
2322881	AMPA	71.5	74.4	P/P	40 - 150
2322881	Endothall	80.5	85.0	P/P	40 - 150
2322881	Glufosinate	72.7	74.7	P/P	40 - 150
2322881	Glyphosate	71.1	76.3	P/P	40 - 150
2322881	Sucralose	112	128	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322881	2,4-D	77.2	75.5	P/P	40 - 150
2322881	2,4,5-T	88.4	85.1	P/P	40 - 150
2322881	Acetaminophen	113	111	P/P	30 - 150
2322881	Acetamiprid	11.0	24.6	F/F	40 - 150
2322881	Afidopyropen	30.2	42.7	F/P	40 - 150
2322881	Bentazon	53.2	47.8	P/P	30 - 150
2322881	Benzovindiflupyr	41.9	42.0	P/P	40 - 150
2322881	Carbamazepine	44.2	43.5	P/P	40 - 150
2322881	Clothianidin	49.2	49.7	P/P	40 - 150
2322881	Dinotefuran	86.4	85.4	P/P	40 - 150
2322881	Diuron	34.8	35.3	F/F	40 - 150
2322881	Fenuron	40.4	40.5	P/P	40 - 150
2322881	Fluridone	46.0	44.3	P/P	40 - 150
2322881	Hydrocodone	52.2	53.5	P/P	40 - 150
2322881	Ibuprofen	61.9	49.2	P/P	40 - 150
2322881	Imidacloprid	38.1	39.0	F/F	40 - 150
2322881	Linuron	41.5	41.1	P/P	40 - 150
2322881	Mandestrobin	58.0	59.2	P/P	40 - 150
2322881	MCPP	115	112	P/P	40 - 150
2322881	Naproxen	45.4	50.4	P/P	40 - 150
2322881	Primidone	59.5	59.1	P/P	40 - 150
2322881	Pyraclostrobin	56.0	54.7	P/P	40 - 150
2322881	Silvex	107	101	P/P	40 - 150
2322881	Thiamethoxam	34.4	35.3	F/F	40 - 150
2322881	Tolfenpyrad	40.6	36.9	P/P	30 - 150
2322881	Triclopyr	94.8	89.2	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P413566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2323164	Fluoride	98.9	98.3	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P413420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2322653	Organic Carbon	91.2	97.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P413073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322828	Color (true)	3.17	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P413074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322944	Color (true)	3.50	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P413079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322931	Turbidity	0.927	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322550	Chloride	0.817	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322550	Sulfate	0.231	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413492

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322944	Chloride	0.760	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P413495

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322944	Sulfate	1.03	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322379	Ammonia-N	1.48	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P413287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322551	Ammonia-N	1.10	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322002	Kjeldahl Nitrogen	2.36	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413478

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322888	Kjeldahl Nitrogen	0.185	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P413479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322830	Kjeldahl Nitrogen	2.62	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P413400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322830	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322890	Total-P	1.35	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2324664	Total-P	0.720	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2324110	Total-P	2.85	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P413158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322917	Acetochlor	11.5	Spike	P	0 - 27
2322917	Alachlor	7.77	Spike	P	0 - 27
2322917	Ametryn	0.0780	Spike	P	0 - 34
2322917	Atrazine	0.258	Spike	P	0 - 41
2322917	Atrazine Desethyl	32.4	Spike	P	0 - 38
2322917	Avobenzone	2.85	Spike	P	0 - 30
2322917	Azinphos Methyl	10.7	Spike	P	0 - 62
2322917	Azoxystrobin	0.935	Spike	P	0 - 32
2322917	Bromacil	17.4	Spike	P	0 - 30
2322917	Butylate	24.0	Spike	P	0 - 59
2322917	Caffeine	46.2	Spike	P	0 - 60
2322917	Carbophenothion	10.6	Spike	P	0 - 25
2322917	Carfentrazone Ethyl	12.6	Spike	P	0 - 26
2322917	Chlorfenapyr	12.7	Spike	P	0 - 30
2322917	Chlorpyrifos Ethyl	8.98	Spike	P	0 - 27
2322917	Chlorpyrifos Methyl	2.83	Spike	P	0 - 26
2322917	Coumaphos	17.2	Spike	P	0 - 30
2322917	Cyanazine	0.705	Spike	P	0 - 58
2322917	Cyprodinil	9.25	Spike	P	0 - 30
2322917	Demeton	11.1	Spike	P	0 - 25
2322917	Diazinon	6.66	Spike	P	0 - 29
2322917	Difenoconazole	11.8	Spike	P	0 - 25
2322917	Dimethenamid	12.8	Spike	P	0 - 30
2322917	Dimethomorph	13.0	Spike	P	0 - 30
2322917	Disulfoton	9.67	Spike	P	0 - 33
2322917	Dithiopyr	8.75	Spike	P	0 - 22
2322917	EPTC	12.5	Spike	P	0 - 38
2322917	Ethion	29.9	Spike	P	0 - 79
2322917	Ethoprop	1.88	Spike	P	0 - 23
2322917	Etridiazole	5.76	Spike	P	0 - 30
2322917	Fenamiphos	19.1	Spike	P	0 - 58
2322917	Fenbuconazole	4.72	Spike	P	0 - 37
2322917	Fipronil	9.52	Spike	P	0 - 33
2322917	Fipronil Desulfinyl	7.43	Spike	P	0 - 26
2322917	Fipronil Sulfide	5.81	Spike	P	0 - 37
2322917	Fipronil Sulfone	13.0	Spike	P	0 - 50
2322917	Fluazifop-P-butyl	7.21	Spike	P	0 - 24
2322917	Fludioxonil	4.20	Spike	P	0 - 26
2322917	Flumioxazin	11.8	Spike	P	0 - 37
2322917	Flutolanil	1.83	Spike	P	0 - 26
2322917	Fluxapyroxad	8.31	Spike	P	0 - 34
2322917	Fonofos	8.56	Spike	P	0 - 27
2322917	Hexazinone	10.0	Spike	P	0 - 36
2322917	Imazalil	0.905	Spike	P	0 - 65
2322917	Iprodione	5.04	Spike	P	0 - 33
2322917	Loratadine	4.67	Spike	P	0 - 30
2322917	Malathion	2.10	Spike	P	0 - 44
2322917	Metalaxyl	1.27	Spike	P	0 - 38
2322917	Metolachlor	4.06	Spike	P	0 - 36
2322917	Metribuzin	10.6	Spike	P	0 - 63
2322917	Mevinphos	6.61	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P413158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322917	Molinate	8.06	Spike	P	0 - 40
2322917	Myclobutanil	11.5	Spike	P	0 - 21
2322917	Naled	0.494	Spike	P	0 - 26
2322917	Napropamide	14.6	Spike	P	0 - 30
2322917	Norflurazon	3.11	Spike	P	0 - 24
2322917	Octinoxate	1.06	Spike	P	0 - 30
2322917	Oxadiazon	6.90	Spike	P	0 - 27
2322917	Oxybenzone	3.15	Spike	P	0 - 30
2322917	Oxyfluorfen	6.77	Spike	P	0 - 24
2322917	Parathion Ethyl	3.72	Spike	P	0 - 28
2322917	Parathion Methyl	4.75	Spike	P	0 - 27
2322917	Pendimethalin	1.43	Spike	P	0 - 31
2322917	Phenytoin	4.38	Spike	P	0 - 30
2322917	Phorate	6.50	Spike	P	0 - 27
2322917	Prodiamine	13.5	Spike	P	0 - 52
2322917	Prometon	14.5	Spike	P	0 - 31
2322917	Prometryn	0.769	Spike	P	0 - 28
2322917	Pronamide	9.67	Spike	P	0 - 26
2322917	Propanil	12.1	Spike	P	0 - 30
2322917	Propargite	19.3	Spike	P	0 - 30
2322917	Propiconazole	3.23	Spike	P	0 - 31
2322917	Pyraflufen Ethyl	2.60	Spike	P	0 - 30
2322917	Pyridaben	2.87	Spike	P	0 - 30
2322917	Pyriproxyfen	9.80	Spike	P	0 - 50
2322917	Simazine	6.12	Spike	P	0 - 29
2322917	Stirophos	21.0	Spike	P	0 - 30
2322917	Sulfentrazone	5.95	Spike	P	0 - 33
2322917	Tebuconazole	22.9	Spike	P	0 - 44
2322917	Terbufos	0.615	Spike	P	0 - 29
2322917	Terbutylazine	4.99	Spike	P	0 - 27
2322917	Thiobencarb	1.51	Spike	P	0 - 30
2322917	Triadimefon	2.56	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P413045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322881	Acesulfame K	10.3	Spike	P	0 - 30
2322881	AMPA	3.74	Spike	P	0 - 30
2322881	Endothall	5.48	Spike	P	0 - 30
2322881	Glufosinate	2.63	Spike	P	0 - 30
2322881	Glyphosate	5.97	Spike	P	0 - 30
2322881	Sucralose	12.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P413103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322881	2,4-D	1.89	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P413103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322881	2,4,5-T	3.79	Spike	P	0 - 30
2322881	Acetaminophen	1.77	Spike	P	0 - 30
2322881	Acetamiprid	74.9	Spike	F	0 - 30
2322881	Afidopyropen	50.5	Spike	F	0 - 30
2322881	Bentazon	4.23	Spike	P	0 - 30
2322881	Benzovindiflupyr	0.317	Spike	P	0 - 30
2322881	Carbamazepine	0.942	Spike	P	0 - 30
2322881	Clothianidin	1.70	Spike	P	0 - 30
2322881	Dinotefuran	1.17	Spike	P	0 - 30
2322881	Diuron	2.50	Spike	P	0 - 30
2322881	Fenuron	1.59	Spike	P	0 - 30
2322881	Fluridone	2.06	Spike	P	0 - 30
2322881	Hydrocodone	0.752	Spike	P	0 - 30
2322881	Ibuprofen	22.7	Spike	P	0 - 30
2322881	Imazapyr	2.32	Spike	P	0 - 30
2322881	Imidacloprid	2.88	Spike	P	0 - 30
2322881	Linuron	0.542	Spike	P	0 - 30
2322881	Mandestrobin	1.82	Spike	P	0 - 30
2322881	MCPP	2.27	Spike	P	0 - 30
2322881	Naproxen	10.5	Spike	P	0 - 30
2322881	Primidone	0.547	Spike	P	0 - 30
2322881	Pyraclostrobin	2.27	Spike	P	0 - 30
2322881	Silvex	5.93	Spike	P	0 - 30
2322881	Thiamethoxam	1.06	Spike	P	0 - 30
2322881	Tolfenpyrad	9.63	Spike	P	0 - 30
2322881	Triclopyr	6.04	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P413564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323164	Total Alkalinity	1.51	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011

Batch ID: P413670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322887	TDS	5.00	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P413566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2323164	Fluoride	0.480	Spike	P	0 - 2.1

Quality Assurance Report

Precision

Reference Method: SM 5310 B-2011
Batch ID: P413420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2322653	Organic Carbon	4.12	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2322942
Field Sample ID: G3SD0225

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	30.8	P	30 - 160
EPA 8321B	Diuron-d6	63.0	P	30 - 160
EPA 8321B	Endothall-d6	82.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	76.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.5	P	30 - 160
EPA 8321B	Primidone-d5	47.1	P	30 - 160
EPA 8321B	Sucralose-d6	136	P	30 - 160

Lab Sample ID: 2322943
Field Sample ID: FB_04272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	76.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.0	P	30 - 160
EPA 8321B	Diuron-d6	73.9	P	30 - 160
EPA 8321B	Endothall-d6	91.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.5	P	30 - 160
EPA 8321B	Primidone-d5	90.7	P	30 - 160
EPA 8321B	Sucralose-d6	129	P	30 - 160

Lab Sample ID: 2322959
Field Sample ID: G3SD0225

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	56.2	P	20 - 200
EPA 8270E	Simazine-d10	124	P	71 - 140
EPA 8270E	Terbufos-d10	124	P	62 - 131
EPA 8270E	Terphenyl-d14	91.9	P	50 - 124

Lab Sample ID: 2322960
Field Sample ID: FB_04272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	60.3	P	20 - 200
EPA 8270E	Simazine-d10	80.5	P	71 - 140
EPA 8270E	Terbufos-d10	93.6	P	62 - 131
EPA 8270E	Terphenyl-d14	115	P	50 - 124

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A111778

Included Lab Sample IDs: 2322927, 2322928, 2322931, 2322933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	85 - 115
Color (true)	101	101	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A111781

Included Lab Sample IDs: 2322927, 2322928, 2322931, 2322933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.5	P/P	95 - 105
Turbidity	99.5	98.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A111859

Included Lab Sample IDs: 2322942, 2322943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	158	158	P/P	60 - 160
Sucralose	121	121	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111865

Included Lab Sample IDs: 2322927, 2322928

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

Reference Method: EPA 8321B

Run ID: A111874

Included Lab Sample IDs: 2322942, 2322943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.3	95.2	P/P	60 - 160
Endothall	90.1	86.7	P/P	60 - 160
Glufosinate	86.9	87.2	P/P	60 - 160
Glyphosate	94.5	88.3	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111877

Included Lab Sample IDs: 2322929, 2322930, 2322932, 2322934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	100	P/P	90 - 110
Ammonia-N	97.9	98.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A111932

Included Lab Sample IDs: 2322942, 2322943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	76.3	81.2	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A111932

Included Lab Sample IDs: 2322942, 2322943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	87.4	84.1	P/P	50 - 150
Acetaminophen	97.9	99.3	P/P	60 - 160
Acetamiprid	94.3	96.0	P/P	50 - 150
Acetamiprid	95.3	95.6	P/P	50 - 150
Afidopyropen	71.6	78.3	P/P	50 - 150
Afidopyropen	79.5	79.2	P/P	50 - 150
Bentazon	100	105	P/P	50 - 160
Benzovindiflupyr	94.2	95.9	P/P	50 - 150
Benzovindiflupyr	97.1	96.6	P/P	50 - 150
Carbamazepine	96.0	94.5	P/P	60 - 150
Clothianidin	104	103	P/P	60 - 150
Clothianidin	100	104	P/P	60 - 150
Dinotefuran	102	101	P/P	50 - 150
Dinotefuran	105	101	P/P	50 - 150
Diuron	99.2	102	P/P	60 - 160
Diuron	99.8	100	P/P	60 - 160
Fenuron	104	106	P/P	60 - 150
Fenuron	106	108	P/P	60 - 150
Fluridone	92.8	97.7	P/P	60 - 160
Fluridone	98.4	98.3	P/P	60 - 160
Hydrocodone	93.8	97.1	P/P	60 - 150
Ibuprofen	90.6	74.2	P/P	50 - 160
Imazapyr	78.3	83.8	P/P	50 - 150
Imidacloprid	101	104	P/P	60 - 150
Imidacloprid	102	105	P/P	60 - 150
Linuron	101	103	P/P	60 - 150
Linuron	97.0	102	P/P	60 - 150
Mandestrobin	88.6	94.0	P/P	50 - 150
Mandestrobin	92.9	93.5	P/P	50 - 150
MCPP	89.6	91.7	P/P	50 - 150
Naproxen	95.1	77.8	P/P	50 - 160
Primidone	91.0	97.6	P/P	60 - 150
Pyraclostrobin	85.4	91.3	P/P	60 - 150
Pyraclostrobin	89.3	88.5	P/P	60 - 150
Silvex	88.7	90.1	P/P	50 - 150
Thiamethoxam	104	102	P/P	50 - 150
Thiamethoxam	104	106	P/P	50 - 150
Tolfenpyrad	76.1	84.0	P/P	60 - 150
Tolfenpyrad	83.7	81.2	P/P	60 - 150
Triclopyr	83.1	80.2	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111933

Included Lab Sample IDs: 2322929, 2322930, 2322932, 2322934

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A111937

Included Lab Sample IDs: 2322929, 2322930, 2322932, 2322934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	99.6	P/P	90 - 110
Organic Carbon	99.6	98.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111962

Included Lab Sample IDs: 2322931, 2322933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.9	98.5	P/P	90 - 110
Sulfate	99.2	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111987

Included Lab Sample IDs: 2322932

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

Reference Method: SM 2320 B-2011

Run ID: A111988

Included Lab Sample IDs: 2322927, 2322928, 2322931, 2322933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	93.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A111988

Included Lab Sample IDs: 2322927, 2322928, 2322931, 2322933

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

Reference Method: EPA 8270E

Run ID: A112034

Included Lab Sample IDs: 2322959, 2322960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	99.5		P	80 - 120
Octinoxate	90.4		P	80 - 120
Oxybenzone	101		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112052

Included Lab Sample IDs: 2322930

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.5	93.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112054

Included Lab Sample IDs: 2322929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.7	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112072

Included Lab Sample IDs: 2322959, 2322960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	111		P	80 - 120
Alachlor	113		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	118		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	110		P	80 - 120
Azoxystrobin	96.8		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	115		P	80 - 120
Caffeine	93.2		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	110		P	80 - 120
Chlorfenapyr	109		P	80 - 120
Chlorpyrifos Ethyl	99.8		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	114		P	80 - 120
Cyprodinil	113		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	118		P	80 - 120
Difenoconazole	109		P	80 - 120
Dimethenamid	107		P	80 - 120
Dimethomorph	93.4		P	80 - 120
Disulfoton	107		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	94.3		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	112		P	80 - 120
Fenamiphos	110		P	80 - 120
Fenbuconazole	110		P	80 - 120
Fipronil	120		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	99.5		P	80 - 120
Fluazifop-P-butyl	105		P	80 - 120
Fludioxonil	120		P	80 - 120
Flumioxazin	85.2		P	80 - 120
Flutolanil	115		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	111		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	118		P	80 - 120
Iprodione	113		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112072

Included Lab Sample IDs: 2322959, 2322960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	82.6		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	117		P	80 - 120
Metribuzin	98.9		P	80 - 120
Mevinphos	111		P	80 - 120
Molinate	93.3		P	80 - 120
Myclobutanil	109		P	80 - 120
Naled	98.9		P	80 - 120
Napropamide	113		P	80 - 120
Norflurazon	115		P	80 - 120
Oxadiazon	116		P	80 - 120
Oxyfluorfen	118		P	80 - 120
Parathion Ethyl	94.7		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	117		P	80 - 120
Phenytoin	114		P	80 - 120
Phorate	99.3		P	80 - 120
Prodiamine	119		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	112		P	80 - 120
Propanil	106		P	80 - 120
Propargite	117		P	80 - 120
Propiconazole	120		P	80 - 120
Pyraflufen Ethyl	118		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	94.5		P	80 - 120
Sulfentrazone	108		P	80 - 120
Tebuconazole	112		P	80 - 120
Terbufos	109		P	80 - 120
Terbuthylazine	120		P	80 - 120
Thiobencarb	112		P	80 - 120
Triadimefon	119		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112104

Included Lab Sample IDs: 2322932, 2322934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.5	98.4	P/P	90 - 110
Kjeldahl Nitrogen	96.0	93.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112130

Included Lab Sample IDs: 2322959

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112156

Included Lab Sample IDs: 2322934

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112182

Included Lab Sample IDs: 2322929, 2322930

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.0	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	
DEP SOP: NU-094-1	Color (true)	99.6				3.17	
	Color (true)	100				3.50	
EPA 180.1 Rev. 2.0	Turbidity	95.8				0.927	
EPA 300.0 Rev. 2.1	Chloride	101	97.1	98.2		0.817	
	Chloride	98.9	97.6	97.4		0.760	
	Sulfate	100	96.5	98.3		0.231	
	Sulfate	99.2	98.5	95.8		1.03	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	99.2	101			1.48
	Ammonia-N	97.4	103	102			1.10
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	104	101			2.36
	Kjeldahl Nitrogen	104	109	109			0.185
	Kjeldahl Nitrogen	100	98.1	94.0			2.62
EPA 353.2 Rev. 2.0	NO2NO3-N	100	99.4	99.4			0.0
EPA 365.1 Rev. 2.0	Total-P	101	99.2	101			1.35
	Total-P	100	102	101			0.720
	Total-P	104	102	106			2.85
EPA 8270E	Acetochlor	107	98.8	88.0			11.5
	Alachlor	97.1	110	102			7.77
	Ametryn	79.1	91.3	91.3			0.0780
	Atrazine	113	116	116			0.258
	Atrazine Desethyl	77.6	108	77.5			32.4
	Avobenzone	108	114	111			2.85
	Azinphos Methyl	104	114	103			10.7
	Azoxystrobin	104	100	101			0.935
	Bromacil	77.1	73.5	87.6			17.4
	Butylate	39.4	35.6	45.3			24.0
	Caffeine	88.2	12.9	20.6			46.2
	Carbophenothion	112	105	94.5			10.6
	Carfentrazone Ethyl	109	112	98.9			12.6
	Chlorfenapyr	103	97.5	85.9			12.7
	Chlorpyrifos Ethyl	103	94.6	86.5			8.98
	Chlorpyrifos Methyl	109	115	111			2.83
	Coumaphos	97.8	79.2	94.2			17.2
	Cyanazine	97.7	97.8	98.5			0.705
	Cyprodinil	122	114	104			9.25
	Demeton	92.8	96.3	86.2			11.1
	Diazinon	119	117	125			6.66
	Difenoconazole	147	152	135			11.8
	Dimethenamid	89.5	97.2	85.4			12.8
	Dimethomorph	97.3	97.5	111			13.0
	Disulfoton	111	111	101			9.67
	Dithiopyr	97.3	105	96.4			8.75
	EPTC	43.9	59.8	67.8			12.5
	Ethion	82.8	86.9	64.3			29.9
	Ethoprop	103	95.6	97.4			1.88
	Etridiazole	53.3	65.3	69.2			5.76
	Fenamiphos	109	65.4	79.1			19.1
	Fenbuconazole	86.7	89.3	93.6			4.72
	Fipronil	116	120	109			9.52
	Fipronil Desulfanyl	110	127	118			7.43
	Fipronil Sulfide	107	97.7	92.2			5.81
	Fipronil Sulfone	104	113	98.9			13.0
	Fluazifop-P-butyl	123	111	103			7.21
	Fludioxonil	103	105	100			4.20

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Flumioxazin	136	169	151			11.8
	Flutolanil	78.8	79.9	78.4			1.83
	Fluxapyroxad	88.5	90.7	83.5			8.31
	Fonofos	102	99.4	108			8.56
	Hexazinone	94.7	99.9	90.4			10.0
	Imazalil	133	84.9	84.1			0.905
	Iprodione	98.5	100	106			5.04
	Loratadine	84.5	85.7	90.0			4.67
	Malathion	96.9	87.4	89.3			2.10
	Metalaxyl	95.1	100	98.7			1.27
	Metolachlor	86.1	93.2	89.5			4.06
	Metribuzin	89.0	85.6	95.2			10.6
	Mevinphos	92.3	95.1	89.0			6.61
	Molinate	75.2	67.2	72.8			8.06
	Myclobutanil	93.0	104	92.3			11.5
	Naled	95.7	106	106			0.494
	Napropamide	78.2	88.8	76.7			14.6
	Norflurazon	87.6	87.7	85.0			3.11
	Octinoxate	70.4	78.4	79.2			1.06
	Oxadiazon	81.7	81.6	76.2			6.90
	Oxybenzone	77.6	83.6	86.2			3.15
	Oxyfluorfen	128	146	136			6.77
	Parathion Ethyl	96.8	79.3	82.3			3.72
	Parathion Methyl	124	115	120			4.75
	Pendimethalin	92.9	96.3	95.0			1.43
	Phenytol	39.1	54.2	51.8			4.38
	Phorate	102	91.6	85.9			6.50
	Prodiamine	49.5	75.2	65.7			13.5
	Prometon	90.9	62.9	72.8			14.5
	Prometryn	82.1	87.7	87.0			0.769
	Pronamide	105	120	109			9.67
	Propanil	90.9	106	94.3			12.1
	Propargite	62.1	69.8	57.5			19.3
	Propiconazole	92.0	86.3	83.6			3.23
	Pyraflufen Ethyl	98.5	89.2	91.6			2.60
	Pyridaben	89.3	78.5	80.8			2.87
	Pyriproxyfen	85.2	82.7	75.0			9.80
	Simazine	82.4	78.9	83.9			6.12
	Stirophos	66.6	69.7	56.5			21.0
	Sulfentrazone	66.0	99.1	93.3			5.95
	Tebuconazole	54.4	63.3	50.3			22.9
	Terbufos	111	120	119			0.615
	Terbuthylazine	87.0	86.4	82.1			4.99
	Thiobencarb	74.4	78.0	79.2			1.51
	Triadimefon	102	104	106			2.56
EPA 8321B	2,4-D	83.8	77.2	75.5			1.89
	2,4,5-T	83.8	88.4	85.1			3.79
	Acesulfame K	155	117	129			10.3
	Acetaminophen	92.3	113	111			1.77
	Acetamiprid	66.2	11.0	24.6			74.9
	Afidopyropen	45.5	30.2	42.7			50.5
	AMPA	91.6	71.5	74.4			3.74
	Bentazon	77.6	53.2	47.8			4.23
	Benzovindiflupyr	68.9	41.9	42.0			0.317

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Carbamazepine	65.1	44.2	43.5		0.942
	Clothianidin	94.1	49.2	49.7		1.70
	Dinotefuran	108	86.4	85.4		1.17
	Diuron	73.7	34.8	35.3		2.50
	Endothall	85.3	80.5	85.0		5.48
	Fenuron	96.4	40.4	40.5		1.59
	Fluridone	77.5	46.0	44.3		2.06
	Glufosinate	91.1	72.7	74.7		2.63
	Glyphosate	91.6	71.1	76.3		5.97
	Hydrocodone	93.5	52.2	53.5		0.752
	Ibuprofen	71.5	61.9	49.2		22.7
	Imazapyr	80.1				2.32
	Imidacloprid	77.4	38.1	39.0		2.88
	Linuron	71.1	41.5	41.1		0.542
	Mandestrobin	71.1	58.0	59.2		1.82
	MCPP	94.9	115	112		2.27
	Naproxen	62.4	45.4	50.4		10.5
	Primidone	97.4	59.5	59.1		0.547
	Pyraclostrobin	60.6	56.0	54.7		2.27
	Silvex	98.8	107	101		5.93
	Sucralose	117	112	128		12.9
	Thiamethoxam	84.9	34.4	35.3		1.06
	Tolfenpyrad	34.5	40.6	36.9		9.63
	Triclopyr	102	94.8	89.2		6.04
SM 2320 B-2011	Total Alkalinity	94.9			1.51	
SM 2540 C-2011	TDS				5.00	
SM 4500-F- C-2011	Fluoride	99.2	98.9	98.3		0.480
SM 5310 B-2011	Organic Carbon	95.3	91.2	97.8		4.12

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2322927, 2322928, 2322931, 2322933
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2322927, 2322928, 2322931, 2322933
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2322927, 2322928, 2322931, 2322933
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2322927, 2322928, 2322931, 2322933
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2322929, 2322930, 2322932, 2322934
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2322929, 2322930, 2322932, 2322934
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2322929, 2322930, 2322932, 2322934
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2322929, 2322930, 2322932, 2322934
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2322959, 2322960
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2322959, 2322960
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2322942, 2322943
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2322927, 2322928, 2322931, 2322933
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2322927, 2322928, 2322931, 2322933
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2322927, 2322928, 2322931, 2322933
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2322927, 2322928, 2322931, 2322933
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2322929, 2322930, 2322932, 2322934

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	04/28/2022			04/28/2022 14:46	Blanca Fach	2322928
	04/28/2022			04/28/2022 14:47	Blanca Fach	2322931
	04/28/2022			04/28/2022 14:49	Blanca Fach	2322933
	04/28/2022			04/28/2022 15:01	Blanca Fach	2322927
EPA 180.1 Rev. 2.0	04/28/2022			04/28/2022 14:06	Khloe J Berg	2322931
	04/28/2022			04/28/2022 14:13	Khloe J Berg	2322927
	04/28/2022			04/28/2022 14:14	Khloe J Berg	2322928
	04/28/2022			04/28/2022 14:16	Khloe J Berg	2322933
EPA 300.0 Rev. 2.1	04/28/2022			05/03/2022 05:40	James L Waggeberby	2322927
	04/28/2022			05/03/2022 05:52	James L Waggeberby	2322928
	04/28/2022			05/05/2022 16:42	Anna M. Plaviak	2322931
	04/28/2022			05/05/2022 16:54	Anna M. Plaviak	2322933
EPA 350.1 Rev. 2.0	04/28/2022			05/03/2022 12:15	Judith K. Clark	2322930
	04/28/2022			05/03/2022 12:17	Judith K. Clark	2322932
	04/28/2022			05/03/2022 12:18	Judith K. Clark	2322934
	04/28/2022			05/03/2022 13:50	Judith K. Clark	2322929
EPA 351.2 Rev. 2.0	04/28/2022	05/09/2022 16:29	Alexandra J Mattheus	05/10/2022 14:10	Alexandra J Mattheus	2322930
	04/28/2022	05/09/2022 16:29	Alexandra J Mattheus	05/10/2022 17:15	Alexandra J Mattheus	2322929
	04/28/2022	05/11/2022 13:28	Alexandra J Mattheus	05/12/2022 13:21	Alexandra J Mattheus	2322932
	04/28/2022	05/11/2022 13:28	Alexandra J Mattheus	05/12/2022 13:59	Alexandra J Mattheus	2322934
EPA 353.2 Rev. 2.0	04/28/2022			05/05/2022 09:49	Beverly Y. Sanders	2322929
	04/28/2022			05/05/2022 09:50	Beverly Y. Sanders	2322930
	04/28/2022			05/05/2022 09:51	Beverly Y. Sanders	2322932
	04/28/2022			05/05/2022 09:52	Beverly Y. Sanders	2322934
EPA 365.1 Rev. 2.0	04/28/2022	05/05/2022 14:45	Simonne.V. Calhoun	05/06/2022 17:05	Sarah A Nixon	2322932
	04/28/2022	05/12/2022 16:34	Simonne.V. Calhoun	05/13/2022 15:46	James L Waggeberby	2322934
	04/28/2022	05/13/2022 15:36	Adam P Silver	05/16/2022 13:37	James L Waggeberby	2322929
	04/28/2022	05/13/2022 15:36	Adam P Silver	05/16/2022 13:39	James L Waggeberby	2322930
EPA 8270E	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 00:48	Lipi Saha	2322959
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 01:13	Lipi Saha	2322960
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 18:40	Vandana T. Nagar	2322959
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 19:06	Vandana T. Nagar	2322960
	04/28/2022	05/03/2022 08:00	Fe-Val Siddell	05/06/2022 19:28	Vandana T. Nagar	2322959
EPA 8321B	04/28/2022	04/29/2022 11:00	Hoor Shaik	05/04/2022 15:28	Juyoung Kim	2322942
	04/28/2022	04/29/2022 11:00	Hoor Shaik	05/04/2022 17:33	Juyoung Kim	2322943
	04/28/2022	04/29/2022 11:00	Hoor Shaik	05/06/2022 04:27	Juyoung Kim	2322942
	04/28/2022	04/29/2022 17:00	Manjita Shrestha	04/29/2022 23:14	Manjita Shrestha	2322942
	04/28/2022	04/29/2022 17:00	Manjita Shrestha	04/29/2022 23:29	Manjita Shrestha	2322943
	04/28/2022	04/29/2022 17:00	Manjita Shrestha	04/30/2022 20:33	Manjita Shrestha	2322942
	04/28/2022	04/29/2022 17:00	Manjita Shrestha	04/30/2022 20:46	Manjita Shrestha	2322943

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	04/28/2022			05/04/2022 20:46	Dale L. Simmons	2322927
	04/28/2022			05/04/2022 20:58	Dale L. Simmons	2322928
	04/28/2022			05/04/2022 21:12	Dale L. Simmons	2322931
	04/28/2022			05/04/2022 21:20	Dale L. Simmons	2322933
SM 2540 C-2011	04/28/2022			04/29/2022 13:01	Ping Hua	2322927, 2322928, 2322931, 2322933
SM 2540 D-2011	04/28/2022			04/29/2022 13:01	Ping Hua	2322927, 2322928, 2322931, 2322933
SM 4500-F- C-2011	04/28/2022			05/04/2022 20:46	Dale L. Simmons	2322927
	04/28/2022			05/04/2022 20:58	Dale L. Simmons	2322928
	04/28/2022			05/04/2022 21:12	Dale L. Simmons	2322931
	04/28/2022			05/04/2022 21:20	Dale L. Simmons	2322933
SM 5310 B-2011	04/28/2022			05/04/2022 13:22	Judith K. Clark	2322929
	04/28/2022			05/04/2022 14:04	Judith K. Clark	2322930
	04/28/2022			05/04/2022 14:18	Judith K. Clark	2322932
	04/28/2022			05/04/2022 14:32	Judith K. Clark	2322934