Chemical Analysis Report

TLH-ROC-2020-01-15-01

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

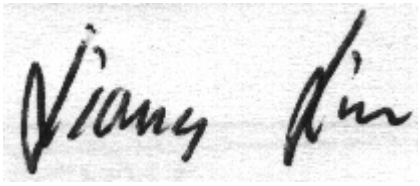
Event Description: **Run 4a**
Request ID: **RQ-2020-01-13-47**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

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

Certified by: Liang Lin, Environmental Administrator

Date Certified: 03-FEB-2020 15:08



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: Field_15012020 **Collection Date/Time: 01/15/2020 09:30**

Field ID: Field_15012020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149625	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P377301	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P377407	
		Sulfate	0.20	U	mg SO4/L	P377409	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P377336	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P377663	
	SM 2540 C-2011	TDS	15	U	mg/L	P377612	
	SM 2540 D-2011	TSS	2	U	mg/L	P377513	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P377666	
2149626	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P377310	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P377433	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P377516	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P377545	MS
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P377537	
2149627	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P377212	
2149649	EPA 8321B	Aldicarb	0.020	U	ug/L	P377352	
		Aldicarb Sulfone	0.0020	U	ug/L	P377352	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P377352	
		Carbaryl	0.0020	U	ug/L	P377352	MS
		Carbofuran	0.0020	U	ug/L	P377352	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P377352	
		Methiocarb	0.0020	U	ug/L	P377352	
		Methomyl	0.0020	U	ug/L	P377352	
		Oxamyl	0.0020	U	ug/L	P377352	
		Propoxur	0.0020	U	ug/L	P377352	MS
2149650		2,4-D	0.0020	U	ug/L	P377201	
		Acesulfame K**	0.10	U	ug/L	P377313	MS
		AMPA**	0.10	U	ug/L	P377313	
		Sucralose**	0.010	U	ug/L	P377313	
		Acetaminophen**	0.0080	U	ug/L	P377201	
		Acetamiprid**	0.0020	U	ug/L	P377201	
		Endothall**	0.25	U	ug/L	P377313	
		Glufosinate**	0.10	U	ug/L	P377313	
		Glyphosate**	0.10	U	ug/L	P377313	
		Afidopyropen**	0.0020	UJ	ug/L	P377201	
		Bentazon	8.0E-04	U	ug/L	P377201	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377201	
		Carbamazepine**	8.0E-04	U	ug/L	P377201	
		Clothianidin**	0.0020	U	ug/L	P377201	
		Dinotefuran**	0.0020	U	ug/L	P377201	
		Diuron	0.0020	U	ug/L	P377201	
		Fenuron	0.016	U	ug/L	P377201	
		Fluridone**	8.0E-04	U	ug/L	P377201	
		Imazapyr**	0.0040	U	ug/L	P377201	

Field ID: Field_15012020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149650	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P377201	
		Ibuprofen**	0.020	U	ug/L	P377201	
		Imidacloprid	0.0020	U	ug/L	P377201	MS
		Linuron	0.0040	U	ug/L	P377201	
		Mandestrobin**	0.0020	UJ	ug/L	P377201	
		MCPP	0.0020	U	ug/L	P377201	
		Naproxen**	0.0080	U	ug/L	P377201	
		Primidone**	0.0040	U	ug/L	P377201	
		Pyraclostrobin**	0.0020	U	ug/L	P377201	
		Thiamethoxam**	0.0020	U	ug/L	P377201	
		Tolfenpyrad**	0.0020	U	ug/L	P377201	
		Triclopyr**	0.0040	U	ug/L	P377201	
2149655	EPA 8270E	Aldrin	4.2	U	ng/L	P377222	
		Alpha-BHC	2.1	U	ng/L	P377222	
		Alpha-Chlordane	1.1	U	ng/L	P377222	
		Beta-BHC	11	U	ng/L	P377222	
		Bifenthrin**	4.2	U	ng/L	P377222	
		Delta-BHC	8.5	U	ng/L	P377222	
		Gamma-BHC	8.5	U	ng/L	P377222	
		Carbophenothion	11	U	ng/L	P377222	
		Chlorothalonil	2.1	UJ	ng/L	P377222	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P377222	
		Cypermethrin	21	U	ng/L	P377222	
		DDD-p,p'	6.4	U	ng/L	P377222	
		DDE-p,p'	6.4	U	ng/L	P377222	
		DDT-p,p'	7.4	U	ng/L	P377222	
		Dicofol	32	U	ng/L	P377222	
		Dieldrin	4.2	U	ng/L	P377222	
		Endosulfan I	4.2	U	ng/L	P377222	
		Endosulfan II	4.2	U	ng/L	P377222	
		Endosulfan Sulfate	2.1	U	ng/L	P377222	
		Endrin	2.1	U	ng/L	P377222	
		Endrin Aldehyde	2.1	U	ng/L	P377222	
		Endrin Ketone	2.1	U	ng/L	P377222	
		Ethalfluralin**	3.2	U	ng/L	P377222	
		Gamma-Chlordane	1.1	U	ng/L	P377222	
		Heptachlor	1.6	U	ng/L	P377222	
		Heptachlor Epoxide	2.1	U	ng/L	P377222	
		Hexachlorobenzene	2.1	U	ng/L	P377222	
		Methoxychlor	4.2	U	ng/L	P377222	
		Mirex	2.1	U	ng/L	P377222	
		Permethrin	11	U	ng/L	P377222	
		Trans-Nonachlor**	1.1	U	ng/L	P377222	
		Trifluralin	2.7	U	ng/L	P377222	
	EPA 8276	Chlordane	5.3	U	ng/L	P377222	

Field ID: Field_15012020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149655	EPA 8276	Toxaphene	32	U	ng/L	P377222	
2149656	EPA 8270E	Acetochlor	0.25	U	ng/L	P377261	
		Alachlor	0.25	U	ng/L	P377261	
		Ametryn	0.61	U	ng/L	P377261	
		Atrazine	0.25	U	ng/L	P377261	
		Atrazine Desethyl	1.5	UJ	ng/L	P377261	MS, RPD
		Azinphos Methyl	2.0	U	ng/L	P377261	
		Bromacil	0.51	U	ng/L	P377261	
		Butylate	0.41	U	ng/L	P377261	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P377261	
		Chlorpyrifos Methyl	0.051	U	ng/L	P377261	
		Cyanazine	3.3	UJ	ng/L	P377261	RPD
		Demeton	1.5	U	ng/L	P377261	
		Diazinon	0.13	U	ng/L	P377261	
		Dimethenamid**	0.10	U	ng/L	P377261	
		Disulfoton	0.51	U	ng/L	P377261	
		Dithiopyr**	0.10	U	ng/L	P377261	
		EPTC	1.3	U	ng/L	P377261	RPD
		Ethion	0.15	U	ng/L	P377261	
		Ethoprop	0.10	U	ng/L	P377261	
		Fenamiphos	0.51	U	ng/L	P377261	
		Fipronil	0.25	U	ng/L	P377261	
		Fipronil Desulfinyl**	0.13	U	ng/L	P377261	
		Fipronil Sulfide	0.15	U	ng/L	P377261	
		Fipronil Sulfone	0.15	U	ng/L	P377261	
		Fonofos	0.20	U	ng/L	P377261	
		Hexazinone	0.51	U	ng/L	P377261	
		Malathion	0.36	U	ng/L	P377261	MS, RPD
		Metalaxyl	0.76	UJ	ng/L	P377261	RPD
		Metolachlor	0.51	U	ng/L	P377261	
		Metribuzin	3.3	UJ	ng/L	P377261	RPD
		Mevinphos	0.51	U	ng/L	P377261	
		Molinate	0.31	U	ng/L	P377261	
		Norflurazon	0.51	U	ng/L	P377261	
		Oxadiazon**	0.10	U	ng/L	P377261	
		Parathion Ethyl	0.25	U	ng/L	P377261	
		Parathion Methyl	0.56	U	ng/L	P377261	
		Pendimethalin	1.0	U	ng/L	P377261	
		Phorate	0.25	U	ng/L	P377261	
		Prodiamine**	0.18	U	ng/L	P377261	
		Prometon	0.92	U	ng/L	P377261	
		Prometryn	0.20	U	ng/L	P377261	
		Simazine	0.51	U	ng/L	P377261	
		Tebuconazole**	0.51	UJ	ng/L	P377261	RPD
		Terbufos	0.10	U	ng/L	P377261	

Field ID: Field_15012020 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149656	EPA 8270E	Terbuthylazine	0.43	U	ng/L	P377261	
2149660	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P377452	
		Calcium	0.075	U	mg/L	P377452	
		Iron	30	U	ug/L	P377452	
		Magnesium	0.040	U	mg/L	P377452	
		Potassium	0.30	U	mg/L	P377452	
		Sodium	0.50	U	mg/L	P377452	
		Zinc	5.0	U	ug/L	P377452	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P377452	
		Antimony	0.050	U	ug/L	P377452	
		Arsenic	0.050	U	ug/L	P377452	
		Boron**	2.0	U	ug/L	P377452	
		Cadmium	0.020	U	ug/L	P377452	
		Chromium	0.40	U	ug/L	P377452	
		Copper	0.40	U	ug/L	P377452	
		Lead	0.20	U	ug/L	P377452	
		Nickel	0.50	U	ug/L	P377452	
		Selenium	0.20	U	ug/L	P377452	
		Silver	0.010	U	ug/L	P377452	
		Thallium	0.10	U	ug/L	P377452	
	SM 2340B	Hardness	0.35	U	mg/L	P377452	

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: J - second source check standards for some analytes were not available for analysis.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Unnamed Branch @ Hardaway Rd 2 **Collection Date/Time: 01/15/2020 10:55**

Field ID: G2TLHR0041_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149613	EPA 180.1 Rev. 2.0	Turbidity	4.5		NTU	P377301	
	EPA 300.0 Rev. 2.1	Chloride	4.1		mg Cl/L	P377407	
		Sulfate	0.63		mg SO4/L	P377409	
	SM 2120 B-2011	Color (true)	37		PCU	P377336	
	SM 2320 B-2011	Total Alkalinity	3.2		mg CaCO3/L	P377662	
	SM 2540 C-2011	TDS	21	I	mg/L	P377613	
	SM 2540 D-2011	TSS	8	I	mg/L	P377514	
	SM 4500 F-C-2011	Fluoride	0.049	I	mg F/L	P377665	
2149615	EPA 350.1 Rev. 2.0	Ammonia-N	0.073		mg N/L	P377310	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P377433	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P377516	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P377545	MS
	SM 5310 B-2011	Organic Carbon	3.1		mg C/L	P377537	
2149617	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.053		mg P/L	P377212	
2149643	EPA 8321B	Aldicarb	0.020	U	ug/L	P377352	
		Aldicarb Sulfone	0.0020	U	ug/L	P377352	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P377352	
		Carbaryl	0.0020	U	ug/L	P377352	MS
		Carbofuran	0.0020	U	ug/L	P377352	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P377352	
		Methiocarb	0.0020	U	ug/L	P377352	
		Methomyl	0.0020	U	ug/L	P377352	
		Oxamyl	0.0020	U	ug/L	P377352	
		Propoxur	0.0020	U	ug/L	P377352	MS
2149645		2,4-D	0.0020	U	ug/L	P377151	
		Acesulfame K**	0.10	U	ug/L	P377313	MS
		AMPA**	0.10	U	ug/L	P377313	
		Sucralose**	0.028	I	ug/L	P377313	
		Acetaminophen**	0.0080	U	ug/L	P377151	
		Acetamiprid**	0.0020	U	ug/L	P377151	
		Endothall**	0.25	U	ug/L	P377313	
		Glufosinate**	0.10	U	ug/L	P377313	
		Glyphosate**	0.10	U	ug/L	P377313	
		Afidopyropen**	0.0020	UJ	ug/L	P377151	
		Bentazon	8.0E-04	U	ug/L	P377151	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377151	
		Carbamazepine**	8.0E-04	U	ug/L	P377151	
		Clothianidin**	0.0020	U	ug/L	P377151	
		Dinotefuran**	0.0020	U	ug/L	P377151	
		Diuron	0.0020	U	ug/L	P377151	
		Fenuron	0.016	U	ug/L	P377151	
		Fluridone**	8.0E-04	U	ug/L	P377151	
		Imazapyr**	0.0059	I	ug/L	P377151	

Field ID: G2TLHR0041_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149645	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P377151	
		Ibuprofen**	0.020	U	ug/L	P377151	
		Imidacloprid	0.0020	U	ug/L	P377151	MS
		Linuron	0.0040	U	ug/L	P377151	
		Mandestrobin**	0.0020	UJ	ug/L	P377151	
		MCPP	0.0020	U	ug/L	P377151	
		Naproxen**	0.0080	U	ug/L	P377151	
		Primidone**	0.0040	U	ug/L	P377151	
		Pyraclostrobin**	0.0020	U	ug/L	P377151	
		Thiamethoxam**	0.0020	U	ug/L	P377151	MS
		Tolfenpyrad**	0.0020	U	ug/L	P377151	
		Triclopyr**	0.0040	U	ug/L	P377151	
2149651	EPA 8270E	Aldrin	4.2	U	ng/L	P377222	
		Alpha-BHC	2.1	U	ng/L	P377222	
		Alpha-Chlordane	1.1	U	ng/L	P377222	
		Beta-BHC	11	U	ng/L	P377222	
		Bifenthrin**	4.2	U	ng/L	P377222	
		Delta-BHC	8.5	U	ng/L	P377222	
		Gamma-BHC	8.5	U	ng/L	P377222	
		Carbophenothion	11	U	ng/L	P377222	
		Chlorothalonil	2.1	UJ	ng/L	P377222	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P377222	
		Cypermethrin	21	U	ng/L	P377222	
		DDD-p,p'	6.3	U	ng/L	P377222	
		DDE-p,p'	6.3	U	ng/L	P377222	
		DDT-p,p'	7.4	U	ng/L	P377222	
		Dicofol	32	U	ng/L	P377222	
		Dieldrin	4.2	U	ng/L	P377222	
		Endosulfan I	4.2	U	ng/L	P377222	
		Endosulfan II	4.2	U	ng/L	P377222	
		Endosulfan Sulfate	2.1	U	ng/L	P377222	
		Endrin	2.1	U	ng/L	P377222	
		Endrin Aldehyde	2.1	U	ng/L	P377222	
		Endrin Ketone	2.1	U	ng/L	P377222	
		Ethalfluralin**	3.2	U	ng/L	P377222	
		Gamma-Chlordane	1.1	U	ng/L	P377222	
		Heptachlor	1.6	U	ng/L	P377222	
		Heptachlor Epoxide	2.1	U	ng/L	P377222	
		Hexachlorobenzene	2.1	U	ng/L	P377222	
		Methoxychlor	4.2	U	ng/L	P377222	
		Mirex	2.1	U	ng/L	P377222	
		Permethrin	11	U	ng/L	P377222	
		Trans-Nonachlor**	1.1	U	ng/L	P377222	
		Trifluralin	2.6	U	ng/L	P377222	
	EPA 8276	Chlordane	6.4	I	ng/L	P377222	

Field ID: G2TLHR0041_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149651	EPA 8276	Toxaphene	32	U	ng/L	P377222	
2149653	EPA 8270E	Acetochlor	0.24	U	ng/L	P377261	
		Alachlor	0.24	U	ng/L	P377261	
		Ametryn	0.57	U	ng/L	P377261	
		Atrazine	0.24	U	ng/L	P377261	
		Atrazine Desethyl	1.4	UJ	ng/L	P377261	MS, RPD
		Azinphos Methyl	1.9	U	ng/L	P377261	
		Bromacil	0.48	U	ng/L	P377261	
		Butylate	0.38	U	ng/L	P377261	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P377261	
		Chlorpyrifos Methyl	0.048	U	ng/L	P377261	
		Cyanazine	3.1	UJ	ng/L	P377261	RPD
		Demeton	1.4	U	ng/L	P377261	
		Diazinon	0.12	U	ng/L	P377261	
		Dimethenamid**	0.096	U	ng/L	P377261	
		Disulfoton	0.48	U	ng/L	P377261	
		Dithiopyr**	0.096	U	ng/L	P377261	
		EPTC	1.2	U	ng/L	P377261	RPD
		Ethion	0.14	U	ng/L	P377261	
		Ethoprop	0.096	U	ng/L	P377261	
		Fenamiphos	0.48	U	ng/L	P377261	
		Fipronil	0.24	U	ng/L	P377261	
		Fipronil Desulfinyl**	0.12	U	ng/L	P377261	
		Fipronil Sulfide	0.14	U	ng/L	P377261	
		Fipronil Sulfone	0.14	U	ng/L	P377261	
		Fonofos	0.19	U	ng/L	P377261	
		Hexazinone	0.48	U	ng/L	P377261	
		Malathion	0.33	U	ng/L	P377261	MS, RPD
		Metalaxyl	0.72	UJ	ng/L	P377261	RPD
		Metolachlor	0.48	U	ng/L	P377261	
		Metribuzin	3.1	UJ	ng/L	P377261	RPD
		Mevinphos	0.48	U	ng/L	P377261	
		Molinate	0.29	U	ng/L	P377261	
		Norflurazon	0.48	U	ng/L	P377261	
		Oxadiazon**	0.096	U	ng/L	P377261	
		Parathion Ethyl	0.24	U	ng/L	P377261	
		Parathion Methyl	0.53	U	ng/L	P377261	
		Pendimethalin	0.96	U	ng/L	P377261	
		Phorate	0.24	U	ng/L	P377261	
		Prodiamine**	0.17	U	ng/L	P377261	
		Prometon	0.86	U	ng/L	P377261	
		Prometryn	0.19	U	ng/L	P377261	
		Simazine	0.48	U	ng/L	P377261	
		Tebuconazole**	0.48	UJ	ng/L	P377261	RPD
		Terbufos	0.096	U	ng/L	P377261	

Field ID: G2TLHR0041_DUP Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149653	EPA 8270E	Terbuthylazine	0.41	U	ng/L	P377261	
2149658	EPA 200.7 Rev. 4.4	Barium	12.1		ug/L	P377452	
		Calcium	1.40		mg/L	P377452	
		Iron	840		ug/L	P377452	
		Magnesium	0.80		mg/L	P377452	
		Potassium	0.38	I	mg/L	P377452	
		Sodium	2.2		mg/L	P377452	
		Zinc	5.0	U	ug/L	P377452	
	EPA 200.8 Rev. 5.4	Aluminum	243		ug/L	P377452	
		Antimony	0.050	U	ug/L	P377452	
		Arsenic	0.57		ug/L	P377452	
		Boron**	7.9	I	ug/L	P377452	
		Cadmium	0.020	U	ug/L	P377452	
		Chromium	0.40	U	ug/L	P377452	
		Copper	0.40	U	ug/L	P377452	
		Lead	0.20	U	ug/L	P377452	
		Nickel	0.50	U	ug/L	P377452	
		Selenium	0.20	U	ug/L	P377452	
		Silver	0.010	U	ug/L	P377452	
		Thallium	0.10	U	ug/L	P377452	
	SM 2340B	Hardness	6.8		mg/L	P377452	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Insuficient sample available to perform re-extraction.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FLAT CREEK @ CR269 **Collection Date/Time: 01/15/2020 12:00**

Field ID: G2TLHR0020 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149619	EPA 180.1 Rev. 2.0	Turbidity	16		NTU	P377301	
	EPA 300.0 Rev. 2.1	Chloride	4.4		mg Cl/L	P377407	
		Sulfate	0.93		mg SO4/L	P377409	
	SM 2120 B-2011	Color (true)	19		PCU	P377337	
	SM 2320 B-2011	Total Alkalinity	14		mg CaCO3/L	P377663	
	SM 2540 C-2011	TDS	30		mg/L	P377613	
	SM 2540 D-2011	TSS	21		mg/L	P377514	
	SM 4500 F-C-2011	Fluoride	0.094	I	mg F/L	P377666	
2149621	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P377310	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27		mg N/L	P377433	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.34		mg N/L	P377516	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P377545	MS
	SM 5310 B-2011	Organic Carbon	3.5		mg C/L	P377537	
2149623	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.087		mg P/L	P377212	
2149647	EPA 8321B	2,4-D	0.0020	U	ug/L	P377151	
		Acesulfame K**	0.10	U	ug/L	P377313	MS
		AMPA**	0.10	U	ug/L	P377313	
		Sucralose**	0.039	I	ug/L	P377313	
		Acetaminophen**	0.0080	U	ug/L	P377151	
		Acetamiprid**	0.0020	U	ug/L	P377151	
		Endothall**	0.25	U	ug/L	P377313	
		Glufosinate**	0.10	U	ug/L	P377313	
		Glyphosate**	0.10	U	ug/L	P377313	
		Afidopyropen**	0.0020	UJ	ug/L	P377151	
		Bentazon	8.0E-04	U	ug/L	P377151	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377151	
		Carbamazepine**	8.0E-04	U	ug/L	P377151	
		Clothianidin**	0.0020	U	ug/L	P377151	
		Dinotefuran**	0.0020	U	ug/L	P377151	
		Diuron	0.0020	U	ug/L	P377151	
		Fenuron	0.016	U	ug/L	P377151	
		Fluridone**	8.0E-04	U	ug/L	P377151	
		Imazapyr**	0.0051	I	ug/L	P377151	
		Hydrocodone**	0.0020	U	ug/L	P377151	
		Ibuprofen**	0.020	U	ug/L	P377151	
		Imidacloprid	0.0020	U	ug/L	P377151	MS
		Linuron	0.0040	U	ug/L	P377151	
		Mandestrobin**	0.0020	UJ	ug/L	P377151	
		MCPP	0.0020	U	ug/L	P377151	
		Naproxen**	0.0080	U	ug/L	P377151	
		Primidone**	0.0040	U	ug/L	P377151	
		Pyraclostrobin**	0.0020	U	ug/L	P377151	
		Thiamethoxam**	0.0020	U	ug/L	P377151	MS

Field ID: G2TLHR0020 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149647	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P377151	
		Triclopyr**	0.0040	U	ug/L	P377151	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Unnamed Branch @ Hardaway Rd 2 **Collection Date/Time: 01/15/2020 10:50**

Field ID: G2TLHR0041 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149614	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P377301	
	EPA 300.0 Rev. 2.1	Chloride	4.1		mg Cl/L	P377407	
		Sulfate	0.66		mg SO4/L	P377409	
	SM 2120 B-2011	Color (true)	37		PCU	P377336	
	SM 2320 B-2011	Total Alkalinity	3.2		mg CaCO3/L	P377662	
	SM 2540 C-2011	TDS	19	I	mg/L	P377613	
	SM 2540 D-2011	TSS	8	I	mg/L	P377514	
	SM 4500 F-C-2011	Fluoride	0.049	I	mg F/L	P377665	
2149616	EPA 350.1 Rev. 2.0	Ammonia-N	0.073		mg N/L	P377310	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30		mg N/L	P377433	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P377516	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P377545	MS
	SM 5310 B-2011	Organic Carbon	3.2		mg C/L	P377537	
2149618	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.053		mg P/L	P377212	
2149644	EPA 8321B	Aldicarb	0.020	U	ug/L	P377352	
		Aldicarb Sulfone	0.0020	U	ug/L	P377352	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P377352	
		Carbaryl	0.0020	U	ug/L	P377352	MS
		Carbofuran	0.0020	U	ug/L	P377352	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P377352	
		Methiocarb	0.0020	U	ug/L	P377352	
		Methomyl	0.0020	U	ug/L	P377352	
		Oxamyl	0.0020	U	ug/L	P377352	
		Propoxur	0.0020	U	ug/L	P377352	MS
2149646		2,4-D	0.0020	U	ug/L	P377151	
		Acesulfame K**	0.10	U	ug/L	P377313	MS
		AMPA**	0.10	U	ug/L	P377313	
		Sucralose**	0.028	I	ug/L	P377313	
		Acetaminophen**	0.0080	U	ug/L	P377151	
		Acetamiprid**	0.0020	U	ug/L	P377151	
		Endothall**	0.25	U	ug/L	P377313	
		Glufosinate**	0.10	U	ug/L	P377313	
		Glyphosate**	0.10	U	ug/L	P377313	
		Afidopyropen**	0.0020	UJ	ug/L	P377151	
		Bentazon	8.0E-04	U	ug/L	P377151	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377151	
		Carbamazepine**	8.0E-04	U	ug/L	P377151	
		Clothianidin**	0.0020	U	ug/L	P377151	
		Dinotefuran**	0.0020	U	ug/L	P377151	
		Diuron	0.0020	U	ug/L	P377151	
		Fenuron	0.016	U	ug/L	P377151	
		Fluridone**	8.0E-04	U	ug/L	P377151	
		Imazapyr**	0.0072	I	ug/L	P377151	

Field ID: G2TLHR0041 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149646	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P377151	
		Ibuprofen**	0.020	U	ug/L	P377151	
		Imidacloprid	0.0020	U	ug/L	P377151	MS
		Linuron	0.0040	U	ug/L	P377151	
		Mandestrobin**	0.0020	UJ	ug/L	P377151	
		MCPP	0.0020	U	ug/L	P377151	
		Naproxen**	0.0080	U	ug/L	P377151	
		Primidone**	0.0040	U	ug/L	P377151	
		Pyraclostrobin**	0.0020	U	ug/L	P377151	
		Thiamethoxam**	0.0020	U	ug/L	P377151	MS
		Tolfenpyrad**	0.0020	U	ug/L	P377151	
		Triclopyr**	0.0040	U	ug/L	P377151	
2149652	EPA 8270E	Aldrin	4.3	U	ng/L	P377222	
		Alpha-BHC	2.1	U	ng/L	P377222	
		Alpha-Chlordane	1.1	U	ng/L	P377222	
		Beta-BHC	11	U	ng/L	P377222	
		Bifenthrin**	4.3	U	ng/L	P377222	
		Delta-BHC	8.5	U	ng/L	P377222	
		Gamma-BHC	8.5	U	ng/L	P377222	
		Carbophenothion	11	U	ng/L	P377222	
		Chlorothalonil	2.1	UJ	ng/L	P377222	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P377222	
		Cypermethrin	21	U	ng/L	P377222	
		DDD-p,p'	6.4	U	ng/L	P377222	
		DDE-p,p'	6.4	U	ng/L	P377222	
		DDT-p,p'	7.4	U	ng/L	P377222	
		Dicofol	32	U	ng/L	P377222	
		Dieldrin	4.3	U	ng/L	P377222	
		Endosulfan I	4.3	U	ng/L	P377222	
		Endosulfan II	4.3	U	ng/L	P377222	
		Endosulfan Sulfate	2.1	U	ng/L	P377222	
		Endrin	2.1	U	ng/L	P377222	
		Endrin Aldehyde	2.1	U	ng/L	P377222	
		Endrin Ketone	2.1	U	ng/L	P377222	
		Ethalfluralin**	3.2	U	ng/L	P377222	
		Gamma-Chlordane	1.1	U	ng/L	P377222	
		Heptachlor	1.6	U	ng/L	P377222	
		Heptachlor Epoxide	2.1	U	ng/L	P377222	
		Hexachlorobenzene	2.1	U	ng/L	P377222	
		Methoxychlor	4.3	U	ng/L	P377222	
		Mirex	2.1	U	ng/L	P377222	
		Permethrin	11	U	ng/L	P377222	
		Trans-Nonachlor**	1.1	U	ng/L	P377222	
		Trifluralin	2.7	U	ng/L	P377222	
	EPA 8276	Chlordane	5.3	U	ng/L	P377222	

Field ID: G2TLHR0041 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149652	EPA 8276	Toxaphene	32	U	ng/L	P377222	
2149654	EPA 8270E	Acetochlor	0.24	U	ng/L	P377261	
		Alachlor	0.24	U	ng/L	P377261	
		Ametryn	0.57	U	ng/L	P377261	
		Atrazine	0.24	U	ng/L	P377261	
		Atrazine Desethyl	1.4	UJ	ng/L	P377261	MS, RPD
		Azinphos Methyl	1.9	U	ng/L	P377261	
		Bromacil	0.47	U	ng/L	P377261	
		Butylate	0.38	U	ng/L	P377261	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P377261	
		Chlorpyrifos Methyl	0.047	U	ng/L	P377261	
		Cyanazine	3.1	UJ	ng/L	P377261	RPD
		Demeton	1.4	U	ng/L	P377261	
		Diazinon	0.12	U	ng/L	P377261	
		Dimethenamid**	0.095	U	ng/L	P377261	
		Disulfoton	0.47	U	ng/L	P377261	
		Dithiopyr**	0.095	U	ng/L	P377261	
		EPTC	1.2	U	ng/L	P377261	RPD
		Ethion	0.14	U	ng/L	P377261	
		Ethoprop	0.095	U	ng/L	P377261	
		Fenamiphos	0.47	U	ng/L	P377261	
		Fipronil	0.24	U	ng/L	P377261	
		Fipronil Desulfinyl**	0.12	U	ng/L	P377261	
		Fipronil Sulfide	0.14	U	ng/L	P377261	
		Fipronil Sulfone	0.14	U	ng/L	P377261	
		Fonofos	0.19	U	ng/L	P377261	
		Hexazinone	0.47	U	ng/L	P377261	
		Malathion	0.33	U	ng/L	P377261	MS, RPD
		Metalaxyl	0.71	UJ	ng/L	P377261	RPD
		Metolachlor	0.47	U	ng/L	P377261	
		Metribuzin	3.1	UJ	ng/L	P377261	RPD
		Mevinphos	0.47	U	ng/L	P377261	
		Molinate	0.28	U	ng/L	P377261	
		Norflurazon	0.47	U	ng/L	P377261	
		Oxadiazon**	0.095	U	ng/L	P377261	
		Parathion Ethyl	0.24	U	ng/L	P377261	
		Parathion Methyl	0.52	U	ng/L	P377261	
		Pendimethalin	0.95	U	ng/L	P377261	
		Phorate	0.24	U	ng/L	P377261	
		Prodiamine**	0.17	U	ng/L	P377261	
		Prometon	0.85	U	ng/L	P377261	
		Prometryn	0.19	U	ng/L	P377261	
		Simazine	0.47	U	ng/L	P377261	
		Tebuconazole**	0.47	UJ	ng/L	P377261	RPD
		Terbufos	0.095	U	ng/L	P377261	

Field ID: G2TLHR0041 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149654	EPA 8270E	Terbuthylazine	0.40	U	ng/L	P377261	
2149659	EPA 200.7 Rev. 4.4	Barium	12.0		ug/L	P377452	
		Calcium	1.43		mg/L	P377452	
		Iron	850		ug/L	P377452	
		Magnesium	0.82		mg/L	P377452	
		Potassium	0.39	I	mg/L	P377452	
		Sodium	2.2		mg/L	P377452	
		Zinc	5.0	U	ug/L	P377452	
	EPA 200.8 Rev. 5.4	Aluminum	218		ug/L	P377452	
		Antimony	0.050	U	ug/L	P377452	
		Arsenic	0.58		ug/L	P377452	
		Boron**	7.9	I	ug/L	P377452	
		Cadmium	0.020	U	ug/L	P377452	
		Chromium	0.48	I	ug/L	P377452	
		Copper	0.40	U	ug/L	P377452	
		Lead	0.20	U	ug/L	P377452	
		Nickel	0.50	U	ug/L	P377452	
		Selenium	0.20	U	ug/L	P377452	
		Silver	0.010	U	ug/L	P377452	
		Thallium	0.10	U	ug/L	P377452	
	SM 2340B	Hardness	7.0		mg/L	P377452	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Insuficient sample available to perform re-extraction.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Unnamed Branch @ Flat Creek Rd **Collection Date/Time: 01/15/2020 11:40**

Field ID: G2TLHR0031 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149610	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P377301	
	EPA 300.0 Rev. 2.1	Chloride	5.4		mg Cl/L	P377407	
		Sulfate	1.4		mg SO4/L	P377409	
	SM 2120 B-2011	Color (true)	18		PCU	P377337	
	SM 2320 B-2011	Total Alkalinity	47		mg CaCO3/L	P377662	
	SM 2540 C-2011	TDS	67		mg/L	P377613	
	SM 2540 D-2011	TSS	16		mg/L	P377514	
	SM 4500 F-C-2011	Fluoride	0.10		mg F/L	P377665	
2149611	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P377310	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.17	I	mg N/L	P377433	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P377516	
	EPA 365.1 Rev. 2.0	Total-P	0.081		mg P/L	P377545	MS
	SM 5310 B-2011	Organic Carbon	3.7		mg C/L	P377537	
2149612	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P377212	
2149642	EPA 8321B	2,4-D	0.0020	U	ug/L	P377151	
		Acesulfame K**	0.10	UJ	ug/L	P377313	MS
		AMPA**	0.10	U	ug/L	P377313	
		Sucralose**	0.10		ug/L	P377313	
		Acetaminophen**	0.0080	U	ug/L	P377151	
		Acetamiprid**	0.0020	U	ug/L	P377151	
		Endothall**	0.25	U	ug/L	P377313	
		Glufosinate**	0.10	U	ug/L	P377313	
		Glyphosate**	0.10	U	ug/L	P377313	
		Afidopyropen**	0.0020	UJ	ug/L	P377151	
		Bentazon	8.0E-04	U	ug/L	P377151	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377151	
		Carbamazepine**	8.0E-04	U	ug/L	P377151	
		Clothianidin**	0.0020	U	ug/L	P377151	
		Dinotefuran**	0.0020	U	ug/L	P377151	
		Diuron	0.0020	U	ug/L	P377151	
		Fenuron	0.016	U	ug/L	P377151	
		Fluridone**	8.0E-04	U	ug/L	P377151	
		Imazapyr**	0.0089	I	ug/L	P377151	
		Hydrocodone**	0.0020	U	ug/L	P377151	
		Ibuprofen**	0.020	U	ug/L	P377151	
		Imidacloprid	0.0020	U	ug/L	P377151	MS
		Linuron	0.0040	U	ug/L	P377151	
		Mandestrobin**	0.0020	UJ	ug/L	P377151	
		MCPP	0.0020	U	ug/L	P377151	
		Naproxen**	0.0080	U	ug/L	P377151	
		Primidone**	0.0040	U	ug/L	P377151	
		Pyraclostrobin**	0.0020	U	ug/L	P377151	
		Thiamethoxam**	0.0020	U	ug/L	P377151	MS

Field ID: G2TLHR0031 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149642	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P377151	
		Triclopyr**	0.0040	U	ug/L	P377151	
2149657	EPA 200.7 Rev. 4.4	Barium	16.1		ug/L	P377452	
		Calcium	12.6		mg/L	P377452	
		Iron	830		ug/L	P377452	
		Magnesium	5.47		mg/L	P377452	
		Potassium	0.34	I	mg/L	P377452	
		Sodium	3.0		mg/L	P377452	
		Zinc	5.0	U	ug/L	P377452	
	EPA 200.8 Rev. 5.4	Aluminum	248		ug/L	P377452	
		Antimony	0.050	U	ug/L	P377452	
		Arsenic	0.52		ug/L	P377452	
		Boron**	9.4		ug/L	P377452	
		Cadmium	0.020	U	ug/L	P377452	
		Chromium	0.52	I	ug/L	P377452	
		Copper	0.40	U	ug/L	P377452	
		Lead	0.23	I	ug/L	P377452	
		Nickel	0.50	U	ug/L	P377452	
		Selenium	0.20	U	ug/L	P377452	
		Silver	0.010	U	ug/L	P377452	
		Thallium	0.10	U	ug/L	P377452	
	SM 2340B	Hardness	54.0		mg/L	P377452	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy and precision for bentazon 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: OCKLAWAHA CREEK @ SR267 **Collection Date/Time: 01/15/2020 12:45**

Field ID: G1TLHR0053 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149620	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P377301	
	EPA 300.0 Rev. 2.1	Chloride	2.2		mg Cl/L	P377407	
		Sulfate	1.0		mg SO4/L	P377409	
	SM 2120 B-2011	Color (true)	97		PCU	P377336	
	SM 2320 B-2011	Total Alkalinity	0.94	I	mg CaCO3/L	P377663	
	SM 2540 C-2011	TDS	22	I	mg/L	P377613	
	SM 2540 D-2011	TSS	3	I	mg/L	P377514	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P377666	
2149622	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P377310	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28		mg N/L	P377433	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.083		mg N/L	P377516	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P377546	
	SM 5310 B-2011	Organic Carbon	8.6		mg C/L	P377537	
2149624	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P377212	
2149648	EPA 8321B	2,4-D	0.0020	U	ug/L	P377201	
		Acesulfame K**	0.10	U	ug/L	P377313	MS
		AMPA**	0.10	U	ug/L	P377313	
		Sucralose**	0.014	I	ug/L	P377313	
		Acetaminophen**	0.0080	U	ug/L	P377201	
		Acetamiprid**	0.0020	U	ug/L	P377201	
		Endothall**	0.25	U	ug/L	P377313	
		Glufosinate**	0.10	U	ug/L	P377313	
		Glyphosate**	0.10	U	ug/L	P377313	
		Afidopyropen**	0.0020	UJ	ug/L	P377201	
		Bentazon	8.0E-04	U	ug/L	P377201	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377201	
		Carbamazepine**	8.0E-04	U	ug/L	P377201	
		Clothianidin**	0.0020	U	ug/L	P377201	
		Dinotefuran**	0.0020	U	ug/L	P377201	
		Diuron	0.0020	U	ug/L	P377201	
		Fenuron	0.016	U	ug/L	P377201	
		Fluridone**	8.0E-04	U	ug/L	P377201	
		Imazapyr**	0.0045	I	ug/L	P377201	
		Hydrocodone**	0.0020	U	ug/L	P377201	
		Ibuprofen**	0.020	U	ug/L	P377201	
		Imidacloprid	0.0020	U	ug/L	P377201	MS
		Linuron	0.0040	U	ug/L	P377201	
		Mandestrobin**	0.0020	UJ	ug/L	P377201	
		MCPP	0.0020	U	ug/L	P377201	
		Naproxen**	0.0080	U	ug/L	P377201	
		Primidone**	0.0040	U	ug/L	P377201	
		Pyraclostrobin**	0.0020	U	ug/L	P377201	
		Thiamethoxam**	0.0020	U	ug/L	P377201	

Field ID: G1TLHR0053 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2149648	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P377201	
		Triclopyr**	0.0040	U	ug/L	P377201	

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: J - second source check standards for some analytes were not available for analysis.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P377301

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377452

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377452

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377407

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377409

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P377310

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: P377433

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377516

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377545

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377546

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377212

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

Reference Method: EPA 8270E
Batch ID: P377222

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	10	U	ng/L
Bifenthrin	4.0	U	ng/L
Carbophenothion	10	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	6.0	U	ng/L
DDE-p,p'	6.0	U	ng/L
DDT-p,p'	7.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfluralin	3.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P377222

Component	Result	Code	Units
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270E
Batch ID: P377261

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P377261

Component	Result	Code	Units
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P377222

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

Reference Method: EPA 8321B
Batch ID: P377151

Component	Result	Code	Units
2,4-D	0.0020	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	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P377201

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P377201

Component	Result	Code	Units
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	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P377313

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: P377352

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P377336

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B-2011
Batch ID: P377337

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P377662

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

Reference Method: SM 2320 B-2011
Batch ID: P377663

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

Reference Method: SM 2540 C-2011
Batch ID: P377612

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P377613

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P377513

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P377514

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P377665

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P377666

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P377537

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: P377452

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	98.6		P	85 - 115
Calcium	104		P	85 - 115
Iron	103		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	99.7		P	85 - 115
Sodium	102		P	85 - 115
Zinc	97.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377452

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	99.5		P	85 - 115
Boron	105		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	94.2		P	85 - 115
Copper	97.8		P	85 - 115
Lead	103		P	85 - 115
Nickel	101		P	85 - 115
Selenium	99.3		P	85 - 115
Silver	105		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377407

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377409

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P377310

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P377433

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377516

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377545

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377546

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: P377212

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

Reference Method: EPA 8270E
Batch ID: P377222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	54.4	57.4	P/P	20 - 87.0
Alpha-BHC	91.0	89.2	P/P	65 - 142
Alpha-Chlordane	80.8	75.5	P/P	58 - 106
Beta-BHC	83.4	82.7	P/P	65 - 179
Bifenthrin	93.9	94.4	P/P	38 - 128
Carbophenothion	84.3	66.6	P/P	20 - 144
Chlorothalonil	119	82.5	P/P	20 - 214
Cis-Nonachlor	80.8	74.3	P/P	56 - 113
Cypermethrin	106	99.2	P/P	37 - 130
DDD-p,p'	87.3	79.7	P/P	66 - 119
DDE-p,p'	81.4	76.0	P/P	53 - 108
DDT-p,p'	87.5	87.6	P/P	57 - 133
Delta-BHC	95.6	92.4	P/P	68 - 187
Dicofol	90.6	92.1	P/P	66 - 123
Dieldrin	82.0	78.5	P/P	65 - 111
Endosulfan I	90.3	84.1	P/P	65 - 115
Endosulfan II	93.7	88.0	P/P	68 - 133
Endosulfan Sulfate	93.1	91.1	P/P	62 - 127
Endrin	84.5	79.0	P/P	64 - 122
Endrin Aldehyde	80.6	74.4	P/P	61 - 132
Endrin Ketone	91.5	90.4	P/P	66 - 120
Ethalfluralin	85.9	84.3	P/P	57 - 127
Gamma-BHC	101	90.6	P/P	71 - 158
Gamma-Chlordane	79.1	74.5	P/P	53 - 106
Heptachlor	76.0	74.7	P/P	45 - 96.0
Heptachlor Epoxide	80.5	76.6	P/P	64 - 109
Hexachlorobenzene	80.1	81.0	P/P	46 - 103
Methoxychlor	94.7	93.8	P/P	69 - 149

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P377222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mirex	80.2	79.0	P/P	31 - 90.0
Permethrin	95.8	95.7	P/P	41 - 108
Trans-Nonachlor	78.6	73.3	P/P	50 - 107
Trifluralin	89.0	88.0	P/P	58 - 119

Reference Method: EPA 8270E
Batch ID: P377261

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	76.7	92.6	P/P	71 - 122
Alachlor	79.6	92.7	P/P	70 - 121
Ametryn	82.1	108	P/P	49 - 137
Atrazine	98.5	99.1	P/P	76 - 125
Atrazine Desethyl	106	78.1	P/P	31 - 144
Azinphos Methyl	106	83.7	P/P	67 - 150
Bromacil	81.2	93.9	P/P	36 - 121
Butylate	60.2	61.2	P/P	33 - 88.0
Chlorpyrifos Ethyl	89.2	91.7	P/P	73 - 117
Chlorpyrifos Methyl	92.1	87.9	P/P	68 - 121
Cyanazine	180	62.9	P/P	20 - 250
Demeton	71.4	68.6	P/P	30 - 123
Diazinon	93.4	97.8	P/P	70 - 128
Dimethenamid	77.1	94.8	P/P	66 - 122
Disulfoton	99.8	88.6	P/P	46 - 124
Dithiopyr	81.9	95.1	P/P	69 - 122
EPTC	61.9	62.8	P/P	31 - 90.0
Ethion	92.6	99.7	P/P	45 - 135
Ethoprop	92.9	88.7	P/P	59 - 118
Fenamiphos	59.0	70.1	P/P	30 - 136
Fipronil	74.3	100	P/P	57 - 127
Fipronil Desulfinyl	88.6	105	P/P	51 - 122
Fipronil Sulfide	82.4	93.2	P/P	57 - 119
Fipronil Sulfone	74.7	93.6	P/P	51 - 119
Fonofos	90.9	83.4	P/P	60 - 120
Hexazinone	91.4	101	P/P	57 - 142
Malathion	82.2	93.0	P/P	67 - 128
Metalaxyl	76.3	34.3	P/P	21 - 148
Metolachlor	82.8	98.3	P/P	70 - 120
Metribuzin	245	136	P/P	20 - 253
Mevinphos	87.9	67.0	P/P	47 - 116
Molinate	71.1	71.3	P/P	41 - 99.0
Norflurazon	87.1	105	P/P	54 - 127
Oxadiazon	79.8	96.6	P/P	65 - 122
Parathion Ethyl	87.9	97.1	P/P	71 - 113
Parathion Methyl	107	95.3	P/P	73 - 129
Pendimethalin	84.6	97.5	P/P	63 - 130
Phorate	87.6	80.5	P/P	48 - 118
Prodiamine	80.1	96.3	P/P	20 - 144
Prometon	64.7	81.6	P/P	53 - 120
Prometryn	84.1	101	P/P	63 - 119
Simazine	102	98.7	P/P	77 - 129
Tebuconazole	61.8	96.3	P/P	20 - 118

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P377261

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Terbufos	90.2	83.3	P/P	61 - 119
Terbuthylazine	89.0	92.7	P/P	75 - 119

Reference Method: EPA 8276
Batch ID: P377222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.1	92.7	P/P	47 - 119
Toxaphene	105	102	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P377151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	140		P	40 - 160
Acetaminophen	95.8		P	30 - 160
Acetamiprid	100		P	40 - 160
Afidopyropen	92.1		P	40 - 160
Bentazon	72.9		P	30 - 160
Benzovindiflupyr	93.4		P	40 - 160
Carbamazepine	105		P	40 - 160
Clothianidin	112		P	40 - 160
Dinotefuran	102		P	40 - 160
Diuron	81.7		P	40 - 160
Fenuron	109		P	40 - 160
Fluridone	104		P	40 - 160
Hydrocodone	102		P	40 - 160
Ibuprofen	87.0		P	30 - 160
Imazapyr	88.6		P	40 - 160
Imidacloprid	103		P	40 - 160
Linuron	81.9		P	40 - 160
Mandestrobin	94.4		P	40 - 160
MCPP	125		P	40 - 160
Naproxen	79.7		P	40 - 160
Primidone	96.6		P	40 - 160
Pyraclostrobin	86.2		P	30 - 160
Thiamethoxam	104		P	40 - 160
Tolfenpyrad	53.8		P	40 - 160
Triclopyr	77.2		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P377201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	133		P	40 - 160
Acetaminophen	92.6		P	30 - 160
Acetamiprid	98.6		P	40 - 160
Afidopyropen	104		P	40 - 160
Bentazon	72.9		P	30 - 160
Benzovindiflupyr	91.1		P	40 - 160
Carbamazepine	114		P	40 - 160
Clothianidin	104		P	40 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P377201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dinotefuran	96.3		P	40 - 160
Diuron	88.3		P	40 - 160
Fenuron	101		P	40 - 160
Fluridone	107		P	40 - 160
Hydrocodone	105		P	40 - 160
Ibuprofen	84.1		P	30 - 160
Imazapyr	88.5		P	40 - 160
Imidacloprid	105		P	40 - 160
Linuron	83.4		P	40 - 160
Mandestrobin	93.1		P	40 - 160
MCPP	131		P	40 - 160
Naproxen	70.6		P	40 - 160
Primidone	110		P	40 - 160
Pyraclostrobin	82.2		P	30 - 160
Thiamethoxam	104		P	40 - 160
Tolfenpyrad	48.7		P	40 - 160
Triclopyr	100		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P377313

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	87.2		P	40 - 150
AMPA	85.0		P	40 - 150
Endothall	131		P	40 - 150
Glufosinate	93.7		P	40 - 150
Glyphosate	99.1		P	40 - 140
Sucralose	92.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P377352

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	92.3		P	40 - 160
Aldicarb	97.3		P	30 - 160
Aldicarb Sulfone	103		P	40 - 160
Aldicarb Sulfoxide	98.8		P	40 - 160
Carbaryl	69.4		P	40 - 160
Carbofuran	71.7		P	40 - 160
Methiocarb	69.7		P	40 - 160
Methomyl	97.0		P	40 - 160
Oxamyl	99.1		P	40 - 160
Propoxur	68.1		P	40 - 160

Reference Method: SM 2120 B-2011
Batch ID: P377336

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2120 B-2011
Batch ID: P377337

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P377662

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 2320 B-2011
Batch ID: P377663

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P377665

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.9		P	92 - 103

Reference Method: SM 4500 F-C-2011
Batch ID: P377666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	92 - 103

Reference Method: SM 5310 B-2011
Batch ID: P377537

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377452

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149681	Barium	99.9	100	P/P	80 - 120
2149681	Calcium	105	106	P/P	80 - 120
2149681	Iron	104	105	P/P	80 - 120
2149681	Magnesium	105	107	P/P	80 - 120
2149681	Potassium	103	105	P/P	80 - 120
2149681	Sodium	101	102	P/P	80 - 120
2149681	Zinc	99.3	99.5	P/P	80 - 120
2149787	Barium	98.8		P	80 - 120
2149787	Calcium	102		P	80 - 120
2149787	Iron	102		P	80 - 120
2149787	Magnesium	101		P	80 - 120
2149787	Potassium	98.3		P	80 - 120
2149787	Sodium	102		P	80 - 120
2149787	Zinc	99.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377452

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149681	Aluminum	100	101	P/P	80 - 120
2149681	Antimony	99.2	101	P/P	80 - 120
2149681	Arsenic	97.7	96.6	P/P	80 - 120
2149681	Boron	102	101	P/P	80 - 120
2149681	Cadmium	107	107	P/P	80 - 120
2149681	Chromium	93.8	95.3	P/P	80 - 120
2149681	Copper	99.0	100	P/P	80 - 120
2149681	Lead	105	105	P/P	80 - 120
2149681	Nickel	106	105	P/P	80 - 120
2149681	Selenium	96.3	97.6	P/P	80 - 120
2149681	Silver	104	103	P/P	80 - 120
2149681	Thallium	103	103	P/P	80 - 120
2149787	Aluminum	98.6		P	80 - 120
2149787	Antimony	103		P	80 - 120
2149787	Arsenic	97.3		P	80 - 120
2149787	Boron	102		P	80 - 120
2149787	Cadmium	108		P	80 - 120
2149787	Chromium	93.0		P	80 - 120
2149787	Copper	98.8		P	80 - 120
2149787	Lead	106		P	80 - 120
2149787	Nickel	105		P	80 - 120
2149787	Selenium	96.6		P	80 - 120
2149787	Silver	104		P	80 - 120
2149787	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149552	Chloride	99.8		P	90 - 110
2149614	Chloride	100		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149552	Sulfate	95.6		P	90 - 110
2149614	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P377310

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149562	Ammonia-N	102	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P377433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149562	Kjeldahl Nitrogen	106	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149572	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149562	Total-P	104	111	P/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149622	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149565	O-Phosphate-P	96.3	97.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P377222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149393	Aldrin	61.7	61.3	P/P	32 - 82.0
2149393	Alpha-BHC	99.2	103	P/P	68 - 157
2149393	Alpha-Chlordane	68.1	66.5	P/P	54 - 108
2149393	Beta-BHC	76.3	82.8	P/P	54 - 200
2149393	Bifenthrin	106	102	P/P	49 - 124
2149393	Carbophenothion	110	112	P/P	42 - 173
2149393	Chlorothalonil	239	254	P/P	10 - 289
2149393	Cis-Nonachlor	66.5	63.5	P/P	53 - 112
2149393	Cypermethrin	107	110	P/P	43 - 141

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P377222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149393	DDD-p,p'	73.2	70.7	P/P	58 - 125
2149393	DDE-p,p'	66.4	66.3	P/P	50 - 108
2149393	DDT-p,p'	81.8	85.4	P/P	52 - 140
2149393	Delta-BHC	79.7	86.7	P/P	61 - 228
2149393	Dicofol	87.1	83.1	P/P	59 - 130
2149393	Dieldrin	74.3	70.5	P/P	57 - 121
2149393	Endosulfan I	80.1	82.8	P/P	62 - 123
2149393	Endosulfan II	80.3	78.8	P/P	48 - 163
2149393	Endosulfan Sulfate	92.9	91.6	P/P	63 - 132
2149393	Endrin	70.0	68.7	P/P	58 - 128
2149393	Endrin Aldehyde	48.2	46.7	P/P	44 - 126
2149393	Endrin Ketone	98.6	94.9	P/P	68 - 127
2149393	Ethalfluralin	89.7	89.7	P/P	55 - 131
2149393	Gamma-BHC	119	116	P/P	54 - 206
2149393	Gamma-Chlordane	67.7	66.8	P/P	52 - 105
2149393	Heptachlor	74.9	75.1	P/P	47 - 94.0
2149393	Heptachlor Epoxide	82.9	80.6	P/P	61 - 113
2149393	Hexachlorobenzene	80.6	82.0	P/P	45 - 100
2149393	Methoxychlor	94.7	95.2	P/P	63 - 153
2149393	Mirex	81.4	80.9	P/P	38 - 90.0
2149393	Permethrin	104	99.9	P/P	45 - 112
2149393	Trans-Nonachlor	65.3	63.1	P/P	50 - 103
2149393	Trifluralin	88.3	89.4	P/P	57 - 122

Reference Method: EPA 8270E
Batch ID: P377261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149402	Acetochlor	77.5	98.0	P/P	68 - 126
2149402	Alachlor	80.7	103	P/P	66 - 125
2149402	Ametryn	131	121	P/P	31 - 182
2149402	Atrazine Desethyl	140	177	P/F	13 - 161
2149402	Azinphos Methyl	93.7	118	P/P	54 - 162
2149402	Butylate	46.8	62.3	P/P	16 - 92.0
2149402	Chlorpyrifos Ethyl	90.8	103	P/P	63 - 124
2149402	Chlorpyrifos Methyl	94.6	109	P/P	64 - 125
2149402	Cyanazine	186	232	P/P	13 - 245
2149402	Demeton	82.9	77.9	P/P	20 - 154
2149402	Diazinon	101	131	P/P	66 - 141
2149402	Dimethenamid	84.6	110	P/P	50 - 130
2149402	Disulfoton	108	126	P/P	55 - 130
2149402	Dithiopyr	81.2	103	P/P	66 - 122
2149402	EPTC	47.4	70.6	P/P	15 - 93.0
2149402	Ethion	89.5	104	P/P	15 - 148
2149402	Ethoprop	74.5	93.0	P/P	59 - 126
2149402	Fenamiphos	65.4	67.8	P/P	39 - 137
2149402	Fipronil	74.5	95.8	P/P	47 - 131
2149402	Fipronil Desulfinyl	90.1	114	P/P	43 - 121
2149402	Fipronil Sulfide	83.4	93.6	P/P	29 - 134
2149402	Fipronil Sulfone	61.6	64.3	P/P	19 - 131
2149402	Fonofos	97.3	118	P/P	62 - 128
2149402	Malathion	51.6	33.0	F/F	54 - 135

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P377261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149402	Metolachlor	78.6	91.2	P/P	62 - 126
2149402	Metribuzin	199	231	P/P	44 - 277
2149402	Mevinphos	96.5	114	P/P	44 - 135
2149402	Molinate	68.4	86.2	P/P	31 - 104
2149402	Oxadiazon	72.7	87.9	P/P	55 - 123
2149402	Parathion Ethyl	92.1	110	P/P	67 - 120
2149402	Parathion Methyl	113	134	P/P	70 - 140
2149402	Pendimethalin	91.8	108	P/P	59 - 145
2149402	Phorate	95.1	113	P/P	52 - 127
2149402	Prodiamine	93.4	116	P/P	11 - 157
2149402	Prometon	87.5	105	P/P	55 - 130
2149402	Prometryn	88.0	105	P/P	55 - 127
2149402	Simazine	106	137	P/P	58 - 159
2149402	Tebuconazole	21.9	24.7	P/P	10 - 122
2149402	Terbufos	103	126	P/P	65 - 131
2149402	Terbuthylazine	92.7	121	P/P	63 - 131

Reference Method: EPA 8276
Batch ID: P377222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149392	Chlordane	86.8	84.8	P/P	34 - 129
2149392	Toxaphene	98.8	99.6	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P377151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2148853	2,4-D	125	141	P/P	40 - 160
2148853	Acetaminophen	105	107	P/P	30 - 160
2148853	Acetamiprid	102	120	P/P	40 - 160
2148853	Afidopyropen	102	112	P/P	40 - 160
2148853	Benzovindiflupyr	88.1	94.1	P/P	40 - 160
2148853	Carbamazepine	98.4	103	P/P	40 - 160
2148853	Clothianidin	111	121	P/P	40 - 160
2148853	Dinotefuran	121	135	P/P	40 - 160
2148853	Diuron	74.3	78.0	P/P	40 - 160
2148853	Fenuron	97.8	101	P/P	40 - 160
2148853	Fluridone	104	106	P/P	40 - 160
2148853	Hydrocodone	123	124	P/P	40 - 160
2148853	Ibuprofen	83.8	84.3	P/P	30 - 160
2148853	Imazapyr	101	103	P/P	40 - 160
2148853	Imidacloprid	164	176	F/F	40 - 160
2148853	Linuron	81.0	85.1	P/P	40 - 160
2148853	Mandestrobin	93.7	97.4	P/P	40 - 160
2148853	MCPP	119	128	P/P	40 - 160
2148853	Naproxen	83.0	99.7	P/P	40 - 160
2148853	Primidone	106	119	P/P	40 - 160
2148853	Pyraclostrobin	86.9	92.4	P/P	30 - 160
2148853	Thiamethoxam	154	166	P/F	40 - 160
2148853	Tolfenpyrad	56.1	61.3	P/P	40 - 160
2148853	Triclopyr	77.5	98.5	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P377201

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149266	2,4-D	111	113	P/P	40 - 160
2149266	Acetaminophen	93.4	103	P/P	30 - 160
2149266	Acetamiprid	104	102	P/P	40 - 160
2149266	Afidopyropen	105	101	P/P	40 - 160
2149266	Bentazon	45.1	48.1	P/P	30 - 160
2149266	Benzovindiflupyr	85.8	85.6	P/P	40 - 160
2149266	Carbamazepine	72.1	88.1	P/P	40 - 160
2149266	Clothianidin	113	113	P/P	40 - 160
2149266	Dinotefuran	132	121	P/P	40 - 160
2149266	Diuron	73.8	75.3	P/P	40 - 160
2149266	Fenuron	106	111	P/P	40 - 160
2149266	Fluridone	97.2	103	P/P	40 - 160
2149266	Hydrocodone	111	114	P/P	40 - 160
2149266	Ibuprofen	88.0	78.8	P/P	30 - 160
2149266	Imazapyr	90.9	86.1	P/P	40 - 160
2149266	Imidacloprid	165	156	F/P	40 - 160
2149266	Linuron	77.8	80.4	P/P	40 - 160
2149266	Mandestrobin	89.6	90.1	P/P	40 - 160
2149266	MCPP	117	124	P/P	40 - 160
2149266	Naproxen	84.0	76.8	P/P	40 - 160
2149266	Primidone	90.1	113	P/P	40 - 160
2149266	Pyraclostrobin	84.7	85.3	P/P	30 - 160
2149266	Thiamethoxam	152	147	P/P	40 - 160
2149266	Tolfenpyrad	52.0	56.6	P/P	40 - 160
2149266	Triclopyr	84.6	102	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P377313

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149642	Acesulfame K	37.8	38.7	F/F	40 - 150
2149642	AMPA	92.2	95.2	P/P	40 - 150
2149642	Endothall	138	140	P/P	40 - 150
2149642	Glufosinate	88.7	101	P/P	40 - 150
2149642	Glyphosate	91.1	83.8	P/P	40 - 140
2149642	Sucralose	87.8	93.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P377352

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2150258	3-Hydroxycarbofuran	76.3	81.6	P/P	40 - 160
2150258	Aldicarb	55.2	54.8	P/P	30 - 160
2150258	Aldicarb Sulfone	104	110	P/P	40 - 160
2150258	Aldicarb Sulfoxide	42.0	41.3	P/P	40 - 160
2150258	Carbaryl	35.2	47.7	F/P	40 - 160
2150258	Carbofuran	41.0	48.1	P/P	40 - 160
2150258	Methiocarb	41.0	53.3	P/P	40 - 160
2150258	Methomyl	70.3	68.2	P/P	40 - 160
2150258	Oxamyl	80.8	96.5	P/P	40 - 160
2150258	Propoxur	37.3	42.2	F/P	40 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P377665

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2150127	Fluoride	97.2	97.2	P/P	89 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P377666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149674	Fluoride	97.9	97.9	P/P	89 - 106

Reference Method: SM 5310 B-2011
Batch ID: P377537

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149558	Organic Carbon	101	102	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P377301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149380	Turbidity	0.786	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149681	Barium	0.0969	Spike	P	0 - 20
2149681	Calcium	0.873	Spike	P	0 - 20
2149681	Iron	1.48	Spike	P	0 - 20
2149681	Magnesium	1.28	Spike	P	0 - 20
2149681	Potassium	1.40	Spike	P	0 - 20
2149681	Sodium	0.372	Spike	P	0 - 20
2149681	Zinc	0.270	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149681	Aluminum	0.897	Spike	P	0 - 20
2149681	Antimony	1.30	Spike	P	0 - 20
2149681	Arsenic	1.13	Spike	P	0 - 20
2149681	Boron	1.29	Spike	P	0 - 20
2149681	Cadmium	0.116	Spike	P	0 - 20
2149681	Chromium	1.57	Spike	P	0 - 20
2149681	Copper	1.11	Spike	P	0 - 20
2149681	Lead	0.0969	Spike	P	0 - 20
2149681	Nickel	1.48	Spike	P	0 - 20
2149681	Selenium	1.34	Spike	P	0 - 20
2149681	Silver	0.932	Spike	P	0 - 20
2149681	Thallium	0.00386	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149552	Chloride	0.842	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P377409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149552	Sulfate	0.237	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P377310

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149562	Ammonia-N	1.79	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P377433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149562	Kjeldahl Nitrogen	3.66	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149572	NO2NO3-N	0.649	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149562	Total-P	4.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377546

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149622	Total-P	1.16	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149565	O-Phosphate-P	1.19	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P377222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149393	Aldrin	0.700	Spike	P	0 - 30
2149393	Alpha-BHC	3.75	Spike	P	0 - 30
2149393	Alpha-Chlordane	2.30	Spike	P	0 - 30
2149393	Beta-BHC	8.22	Spike	P	0 - 30
2149393	Bifenthrin	3.88	Spike	P	0 - 30
2149393	Carbophenothion	2.55	Spike	P	0 - 30
2149393	Chlorothalonil	6.35	Spike	P	0 - 30
2149393	Cis-Nonachlor	4.53	Spike	P	0 - 30
2149393	Cypermethrin	2.32	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P377222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149393	DDD-p,p'	3.58	Spike	P	0 - 30
2149393	DDE-p,p'	0.107	Spike	P	0 - 30
2149393	DDT-p,p'	4.34	Spike	P	0 - 30
2149393	Delta-BHC	8.46	Spike	P	0 - 30
2149393	Dicofol	4.68	Spike	P	0 - 30
2149393	Dieldrin	3.45	Spike	P	0 - 30
2149393	Endosulfan I	3.33	Spike	P	0 - 30
2149393	Endosulfan II	1.92	Spike	P	0 - 30
2149393	Endosulfan Sulfate	1.40	Spike	P	0 - 30
2149393	Endrin	1.88	Spike	P	0 - 30
2149393	Endrin Aldehyde	3.07	Spike	P	0 - 30
2149393	Endrin Ketone	3.78	Spike	P	0 - 30
2149393	Ethalfluralin	0.0712	Spike	P	0 - 30
2149393	Gamma-BHC	3.23	Spike	P	0 - 30
2149393	Gamma-Chlordane	1.35	Spike	P	0 - 30
2149393	Heptachlor	0.356	Spike	P	0 - 30
2149393	Heptachlor Epoxide	2.42	Spike	P	0 - 30
2149393	Hexachlorobenzene	1.74	Spike	P	0 - 30
2149393	Methoxychlor	0.472	Spike	P	0 - 30
2149393	Mirex	0.666	Spike	P	0 - 30
2149393	Permethrin	4.27	Spike	P	0 - 30
2149393	Trans-Nonachlor	3.39	Spike	P	0 - 30
2149393	Trifluralin	1.24	Spike	P	0 - 30
LFB	Aldrin	5.36	LCS	P	0 - 30
LFB	Alpha-BHC	1.99	LCS	P	0 - 30
LFB	Alpha-Chlordane	6.73	LCS	P	0 - 30
LFB	Beta-BHC	0.750	LCS	P	0 - 30
LFB	Bifenthrin	0.623	LCS	P	0 - 30
LFB	Carbophenothion	23.4	LCS	P	0 - 30
LFB	Chlorothalonil	36.1	LCS	F	0 - 30
LFB	Cis-Nonachlor	8.30	LCS	P	0 - 30
LFB	Cypermethrin	6.33	LCS	P	0 - 30
LFB	DDD-p,p'	9.08	LCS	P	0 - 30
LFB	DDE-p,p'	6.81	LCS	P	0 - 30
LFB	DDT-p,p'	0.104	LCS	P	0 - 30
LFB	Delta-BHC	3.42	LCS	P	0 - 30
LFB	Dicofol	1.60	LCS	P	0 - 30
LFB	Dieldrin	4.41	LCS	P	0 - 30
LFB	Endosulfan I	7.10	LCS	P	0 - 30
LFB	Endosulfan II	6.26	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.18	LCS	P	0 - 30
LFB	Endrin	6.67	LCS	P	0 - 30
LFB	Endrin Aldehyde	7.98	LCS	P	0 - 30
LFB	Endrin Ketone	1.17	LCS	P	0 - 30
LFB	Ethalfluralin	1.95	LCS	P	0 - 30
LFB	Gamma-BHC	10.4	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.95	LCS	P	0 - 30
LFB	Heptachlor	1.77	LCS	P	0 - 30
LFB	Heptachlor Epoxide	5.00	LCS	P	0 - 30
LFB	Hexachlorobenzene	1.06	LCS	P	0 - 30
LFB	Methoxychlor	0.917	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P377222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	1.56	LCS	P	0 - 30
LFB	Permethrin	0.0955	LCS	P	0 - 30
LFB	Trans-Nonachlor	6.95	LCS	P	0 - 30
LFB	Trifluralin	1.09	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P377261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149402	Acetochlor	23.3	Spike	P	0 - 30
2149402	Alachlor	24.4	Spike	P	0 - 30
2149402	Ametryn	7.90	Spike	P	0 - 30
2149402	Atrazine	7.97	Spike	P	0 - 30
2149402	Atrazine Desethyl	23.2	Spike	P	0 - 30
2149402	Azinphos Methyl	23.3	Spike	P	0 - 30
2149402	Bromacil	20.4	Spike	P	0 - 30
2149402	Butylate	28.4	Spike	P	0 - 30
2149402	Chlorpyrifos Ethyl	12.8	Spike	P	0 - 30
2149402	Chlorpyrifos Methyl	14.1	Spike	P	0 - 30
2149402	Cyanazine	22.1	Spike	P	0 - 30
2149402	Demeton	6.20	Spike	P	0 - 30
2149402	Diazinon	25.9	Spike	P	0 - 30
2149402	Dimethenamid	20.4	Spike	P	0 - 30
2149402	Disulfoton	15.1	Spike	P	0 - 30
2149402	Dithiopyr	23.6	Spike	P	0 - 30
2149402	EPTC	39.3	Spike	F	0 - 30
2149402	Ethion	14.9	Spike	P	0 - 30
2149402	Ethoprop	22.1	Spike	P	0 - 30
2149402	Fenamiphos	3.60	Spike	P	0 - 30
2149402	Fipronil	25.0	Spike	P	0 - 30
2149402	Fipronil Desulfinyl	23.7	Spike	P	0 - 30
2149402	Fipronil Sulfide	11.5	Spike	P	0 - 30
2149402	Fipronil Sulfone	4.37	Spike	P	0 - 30
2149402	Fonofos	18.9	Spike	P	0 - 30
2149402	Hexazinone	14.2	Spike	P	0 - 30
2149402	Malathion	44.0	Spike	F	0 - 30
2149402	Metalaxyl	19.0	Spike	P	0 - 30
2149402	Metolachlor	13.8	Spike	P	0 - 30
2149402	Metribuzin	14.9	Spike	P	0 - 30
2149402	Mevinphos	16.6	Spike	P	0 - 30
2149402	Molinate	23.1	Spike	P	0 - 30
2149402	Norflurazon	8.18	Spike	P	0 - 30
2149402	Oxadiazon	16.6	Spike	P	0 - 30
2149402	Parathion Ethyl	17.4	Spike	P	0 - 30
2149402	Parathion Methyl	16.6	Spike	P	0 - 30
2149402	Pendimethalin	15.8	Spike	P	0 - 30
2149402	Phorate	17.2	Spike	P	0 - 30
2149402	Prodiamine	21.6	Spike	P	0 - 30
2149402	Prometon	18.4	Spike	P	0 - 30
2149402	Prometryn	18.0	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P377261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149402	Simazine	23.3	Spike	P	0 - 30
2149402	Tebuconazole	12.0	Spike	P	0 - 30
2149402	Terbufos	20.1	Spike	P	0 - 30
2149402	Terbuthylazine	26.1	Spike	P	0 - 30
LFB	Acetochlor	18.7	LCS	P	0 - 30
LFB	Alachlor	15.1	LCS	P	0 - 30
LFB	Ametryn	27.0	LCS	P	0 - 30
LFB	Atrazine	0.533	LCS	P	0 - 30
LFB	Atrazine Desethyl	30.4	LCS	F	0 - 30
LFB	Azinphos Methyl	23.5	LCS	P	0 - 30
LFB	Bromacil	14.5	LCS	P	0 - 30
LFB	Butylate	1.68	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.69	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	4.66	LCS	P	0 - 30
LFB	Cyanazine	96.6	LCS	F	0 - 30
LFB	Demeton	4.02	LCS	P	0 - 30
LFB	Diazinon	4.65	LCS	P	0 - 30
LFB	Dimethenamid	20.6	LCS	P	0 - 30
LFB	Disulfoton	11.9	LCS	P	0 - 30
LFB	Dithiopyr	14.9	LCS	P	0 - 30
LFB	EPTC	1.45	LCS	P	0 - 30
LFB	Ethion	7.40	LCS	P	0 - 30
LFB	Ethoprop	4.62	LCS	P	0 - 30
LFB	Fenamiphos	17.3	LCS	P	0 - 30
LFB	Fipronil	29.5	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	16.7	LCS	P	0 - 30
LFB	Fipronil Sulfide	12.3	LCS	P	0 - 30
LFB	Fipronil Sulfone	22.4	LCS	P	0 - 30
LFB	Fonofos	8.62	LCS	P	0 - 30
LFB	Hexazinone	9.51	LCS	P	0 - 30
LFB	Malathion	12.4	LCS	P	0 - 30
LFB	Metalaxyl	75.8	LCS	F	0 - 30
LFB	Metolachlor	17.1	LCS	P	0 - 30
LFB	Metribuzin	57.3	LCS	F	0 - 30
LFB	Mevinphos	27.0	LCS	P	0 - 30
LFB	Molinate	0.283	LCS	P	0 - 30
LFB	Norflurazon	18.3	LCS	P	0 - 30
LFB	Oxadiazon	19.1	LCS	P	0 - 30
LFB	Parathion Ethyl	9.97	LCS	P	0 - 30
LFB	Parathion Methyl	11.7	LCS	P	0 - 30
LFB	Pendimethalin	14.2	LCS	P	0 - 30
LFB	Phorate	8.41	LCS	P	0 - 30
LFB	Prodiamine	18.4	LCS	P	0 - 30
LFB	Prometon	23.1	LCS	P	0 - 30
LFB	Prometryn	17.8	LCS	P	0 - 30
LFB	Simazine	2.77	LCS	P	0 - 30
LFB	Tebuconazole	43.7	LCS	F	0 - 30
LFB	Terbufos	8.04	LCS	P	0 - 30
LFB	Terbuthylazine	4.08	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P377222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149392	Chlordane	2.29	Spike	P	0 - 30
2149392	Toxaphene	0.825	Spike	P	0 - 30
LFB	Chlordane	1.70	LCS	P	0 - 30
LFB	Toxaphene	2.57	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P377151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2148853	2,4-D	11.6	Spike	P	0 - 30
2148853	Acetaminophen	2.36	Spike	P	0 - 30
2148853	Acetamiprid	16.1	Spike	P	0 - 30
2148853	Afidopyropen	9.09	Spike	P	0 - 30
2148853	Benzovindiflupyr	6.60	Spike	P	0 - 30
2148853	Carbamazepine	4.44	Spike	P	0 - 30
2148853	Clothianidin	8.16	Spike	P	0 - 30
2148853	Dinotefuran	9.29	Spike	P	0 - 30
2148853	Diuron	4.05	Spike	P	0 - 30
2148853	Fenuron	3.19	Spike	P	0 - 30
2148853	Fluridone	1.59	Spike	P	0 - 30
2148853	Hydrocodone	0.363	Spike	P	0 - 30
2148853	Ibuprofen	0.608	Spike	P	0 - 30
2148853	Imazapyr	1.39	Spike	P	0 - 30
2148853	Imidacloprid	5.85	Spike	P	0 - 30
2148853	Linuron	4.99	Spike	P	0 - 30
2148853	Mandestrobin	3.91	Spike	P	0 - 30
2148853	MCPP	7.42	Spike	P	0 - 30
2148853	Naproxen	18.3	Spike	P	0 - 30
2148853	Primidone	11.7	Spike	P	0 - 30
2148853	Pyraclostrobin	6.13	Spike	P	0 - 30
2148853	Thiamethoxam	7.24	Spike	P	0 - 30
2148853	Tolfenpyrad	8.91	Spike	P	0 - 30
2148853	Triclopyr	23.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P377201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149266	2,4-D	2.11	Spike	P	0 - 30
2149266	Acetaminophen	9.74	Spike	P	0 - 30
2149266	Acetamiprid	2.21	Spike	P	0 - 30
2149266	Afidopyropen	4.73	Spike	P	0 - 30
2149266	Bentazon	2.38	Spike	P	0 - 30
2149266	Benzovindiflupyr	0.298	Spike	P	0 - 30
2149266	Carbamazepine	18.5	Spike	P	0 - 30
2149266	Clothianidin	0.0384	Spike	P	0 - 30
2149266	Dinotefuran	6.19	Spike	P	0 - 30
2149266	Diuron	1.99	Spike	P	0 - 30
2149266	Fenuron	4.80	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P377201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149266	Fluridone	5.79	Spike	P	0 - 30
2149266	Hydrocodone	2.80	Spike	P	0 - 30
2149266	Ibuprofen	11.0	Spike	P	0 - 30
2149266	Imazapyr	3.73	Spike	P	0 - 30
2149266	Imidacloprid	4.85	Spike	P	0 - 30
2149266	Linuron	3.26	Spike	P	0 - 30
2149266	Mandestrobin	0.643	Spike	P	0 - 30
2149266	MCPP	6.20	Spike	P	0 - 30
2149266	Naproxen	8.88	Spike	P	0 - 30
2149266	Primidone	20.9	Spike	P	0 - 30
2149266	Pyraclostrobin	0.777	Spike	P	0 - 30
2149266	Thiamethoxam	2.87	Spike	P	0 - 30
2149266	Tolfenpyrad	8.40	Spike	P	0 - 30
2149266	Triclopyr	18.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P377313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149642	Acesulfame K	2.14	Spike	P	0 - 30
2149642	AMPA	3.11	Spike	P	0 - 30
2149642	Endothall	1.67	Spike	P	0 - 30
2149642	Glufosinate	13.1	Spike	P	0 - 30
2149642	Glyphosate	8.40	Spike	P	0 - 30
2149642	Sucralose	6.36	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P377352

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2150258	3-Hydroxycarbofuran	6.68	Spike	P	0 - 30
2150258	Aldicarb	0.827	Spike	P	0 - 30
2150258	Aldicarb Sulfone	5.26	Spike	P	0 - 30
2150258	Aldicarb Sulfoxide	1.65	Spike	P	0 - 30
2150258	Carbaryl	30.0	Spike	P	0 - 30
2150258	Carbofuran	15.9	Spike	P	0 - 30
2150258	Methiocarb	26.1	Spike	P	0 - 30
2150258	Methomyl	2.93	Spike	P	0 - 30
2150258	Oxamyl	17.7	Spike	P	0 - 30
2150258	Propoxur	12.4	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P377336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149571	Color (true)	0.327	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B-2011
Batch ID: P377337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149410	Color (true)	0.156	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P377662

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2150127	Total Alkalinity	0.146	Sample	P	0 - 2.8

Reference Method: SM 2320 B-2011
Batch ID: P377663

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149674	Total Alkalinity	0.301	Sample	P	0 - 2.8

Reference Method: SM 2540 C-2011
Batch ID: P377612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149478	TDS	1.16	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P377613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149552	TDS	0.966	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P377665

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2150127	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-2011
Batch ID: P377666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149674	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
Batch ID: P377537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149558	Organic Carbon	0.185	Spike	P	0 - 20

Quality Assurance Report
Precision

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2149642
Field Sample ID: G2TLHR0031

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Diuron-d6	86.8	P	30 - 160
EPA 8321B	Endothall-d6	148	P	30 - 160
EPA 8321B	Endothall-d6	148	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.7	P	30 - 160
EPA 8321B	Primidone-d5	111	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2149643
Field Sample ID: G2TLHR0041_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	86.1	P	30 - 160

Lab Sample ID: 2149644
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	79.3	P	30 - 160

Lab Sample ID: 2149645
Field Sample ID: G2TLHR0041_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	109	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	97.8	P	30 - 160
EPA 8321B	Diuron-d6	80.1	P	30 - 160
EPA 8321B	Endothall-d6	148	P	30 - 160
EPA 8321B	Endothall-d6	148	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.8	P	30 - 160
EPA 8321B	Primidone-d5	82.4	P	30 - 160
EPA 8321B	Sucralose-d6	90.1	P	30 - 160
EPA 8321B	Sucralose-d6	90.1	P	30 - 160

Lab Sample ID: 2149646
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	113	P	30 - 160
EPA 8321B	Diuron-d6	90.3	P	30 - 160
EPA 8321B	Endothall-d6	145	P	30 - 160
EPA 8321B	Endothall-d6	145	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2149646
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	84.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	98.5	P	30 - 160
EPA 8321B	Primidone-d5	111	P	30 - 160
EPA 8321B	Sucralose-d6	92.0	P	30 - 160
EPA 8321B	Sucralose-d6	92.0	P	30 - 160

Lab Sample ID: 2149647
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	109	P	30 - 160
EPA 8321B	Diuron-d6	89.4	P	30 - 160
EPA 8321B	Endothall-d6	142	P	30 - 160
EPA 8321B	Endothall-d6	142	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	88.1	P	30 - 160
EPA 8321B	Primidone-d5	107	P	30 - 160
EPA 8321B	Sucralose-d6	92.3	P	30 - 160
EPA 8321B	Sucralose-d6	92.3	P	30 - 160

Lab Sample ID: 2149648
Field Sample ID: G1TLHR0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	114	P	30 - 160
EPA 8321B	Acetaminophen-d4	114	P	30 - 160
EPA 8321B	Carbamazepine-d10	109	P	30 - 160
EPA 8321B	Diuron-d6	89.3	P	30 - 160
EPA 8321B	Endothall-d6	140	P	30 - 160
EPA 8321B	Endothall-d6	140	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	106	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	94.2	P	30 - 160
EPA 8321B	Sucralose-d6	94.2	P	30 - 160

Lab Sample ID: 2149649
Field Sample ID: Field_15012020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	60.7	P	30 - 160

Lab Sample ID: 2149650
Field Sample ID: Field_15012020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2149650
Field Sample ID: Field_15012020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	92.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.9	P	30 - 160
EPA 8321B	Diuron-d6	88.0	P	30 - 160
EPA 8321B	Endothall-d6	141	P	30 - 160
EPA 8321B	Endothall-d6	141	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	54.4	P	30 - 160
EPA 8321B	Primidone-d5	99.3	P	30 - 160
EPA 8321B	Sucralose-d6	84.2	P	30 - 160
EPA 8321B	Sucralose-d6	84.2	P	30 - 160

Lab Sample ID: 2149651
Field Sample ID: G2TLHR0041_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	103	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	78.0	P	34 - 106
EPA 8276	Decachlorobiphenyl	84.7	P	26 - 97.0
EPA 8276	PCNB	125	P	38 - 141

Lab Sample ID: 2149652
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.6	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	68.0	P	34 - 106
EPA 8276	Decachlorobiphenyl	71.9	P	26 - 97.0
EPA 8276	PCNB	115	P	38 - 141

Lab Sample ID: 2149653
Field Sample ID: G2TLHR0041_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	113	P	72 - 135
EPA 8270E	Terbufos-d10	86.6	P	57 - 134

Lab Sample ID: 2149654
Field Sample ID: G2TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	107	P	72 - 135
EPA 8270E	Terbufos-d10	92.5	P	57 - 134

Lab Sample ID: 2149655
Field Sample ID: Field_15012020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	99.1	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	86.8	P	34 - 106
EPA 8276	Decachlorobiphenyl	83.8	P	26 - 97.0
EPA 8276	PCNB	111	P	38 - 141

Quality Assurance Report
Surrogates

Lab Sample ID: 2149656
Field Sample ID: Field_15012020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	101	P	72 - 135
EPA 8270E	Terbufos-d10	82.8	P	57 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A96853
Included Lab Sample IDs: 2149610, 2149613, 2149614, 2149619, 2149620, 2149625

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A96905
Included Lab Sample IDs: 2149612, 2149617, 2149618, 2149623, 2149624, 2149627

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A96947
Included Lab Sample IDs: 2149610, 2149613, 2149614, 2149619, 2149620, 2149625

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	100	P/P	95 - 105
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A96950
Included Lab Sample IDs: 2149611, 2149615, 2149616, 2149621, 2149622, 2149626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.5	102	P/P	90 - 110
Ammonia-N	99.6	99.5	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A96960
Included Lab Sample IDs: 2149610, 2149613, 2149614, 2149619, 2149620, 2149625

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	85 - 115
Color (true)	103	103	P/P	85 - 115

Reference Method: EPA 8321B
Run ID: A96995
Included Lab Sample IDs: 2149642, 2149645, 2149646, 2149647, 2149648, 2149650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	101	P/P	60 - 160
AMPA	108	104	P/P	60 - 160
Glufosinate	82.2	98.9	P/P	60 - 160
Glufosinate	95.1	82.2	P/P	60 - 160
Glyphosate	92.1	96.8	P/P	60 - 160
Glyphosate	92.4	92.1	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A96997
Included Lab Sample IDs: 2149642, 2149645, 2149646, 2149647, 2149648, 2149650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	74.9	75.2	P/P	60 - 160
Acesulfame K	75.2	74.0	P/P	60 - 160
Endothall	125	126	P/P	60 - 160
Endothall	126	139	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A97013
Included Lab Sample IDs: 2149653, 2149654, 2149656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	96.1		P	80 - 120
Atrazine	99.9		P	80 - 120
Atrazine Desethyl	113		P	80 - 120
Azinphos Methyl	94.9		P	80 - 120
Bromacil	98.9		P	80 - 120
Butylate	105		P	80 - 120
Chlorpyrifos Ethyl	98.5		P	80 - 120
Chlorpyrifos Methyl	97.8		P	80 - 120
Cyanazine	110		P	80 - 120
Demeton	96.1		P	80 - 120
Diazinon	97.7		P	80 - 120
Dimethenamid	102		P	80 - 120
Disulfoton	99.9		P	80 - 120
Dithiopyr	97.8		P	80 - 120
EPTC	100		P	80 - 120
Ethion	97.3		P	80 - 120
Ethoprop	97.8		P	80 - 120
Fenamiphos	99.1		P	80 - 120
Fipronil	97.2		P	80 - 120
Fipronil Desulfinyl	98.2		P	80 - 120
Fipronil Sulfide	94.3		P	80 - 120
Fipronil Sulfone	94.8		P	80 - 120
Fonofos	95.1		P	80 - 120
Hexazinone	100		P	80 - 120
Malathion	102		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	95.9		P	80 - 120
Molinate	101		P	80 - 120
Norflurazon	98.3		P	80 - 120
Oxadiazon	107		P	80 - 120
Parathion Ethyl	100		P	80 - 120
Parathion Methyl	103		P	80 - 120
Pendimethalin	103		P	80 - 120
Phorate	98.8		P	80 - 120
Prodiamine	89.7		P	80 - 120
Prometon	99.3		P	80 - 120
Prometryn	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A97013
Included Lab Sample IDs: 2149653, 2149654, 2149656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Simazine	103		P	80 - 120
Tebuconazole	100		P	80 - 120
Terbufos	98.4		P	80 - 120
Terbuthylazine	102		P	80 - 120

Reference Method: EPA 8321B
Run ID: A97022
Included Lab Sample IDs: 2149642, 2149645, 2149646, 2149647, 2149648, 2149650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	106	95.5	P/P	50 - 150
2,4-D	98.1	101	P/P	50 - 150
3-Hydroxycarbofuran	110	109	P/P	60 - 150
Acetaminophen	96.6	113	P/P	60 - 160
Acetaminophen	98.2	102	P/P	60 - 160
Acetamiprid	109	111	P/P	50 - 150
Acetamiprid	111	113	P/P	50 - 150
Afidopyropen	100	99.3	P/P	50 - 150
Afidopyropen	97.0	111	P/P	50 - 150
Aldicarb	110	131	P/P	60 - 150
Aldicarb Sulfone	104	109	P/P	50 - 150
Aldicarb Sulfoxide	117	116	P/P	50 - 150
Bentazon	93.8	95.8	P/P	50 - 160
Bentazon	99.3	90.6	P/P	50 - 160
Benzovindiflupyr	101	98.9	P/P	50 - 150
Benzovindiflupyr	111	107	P/P	50 - 150
Carbamazepine	107	91.1	P/P	60 - 150
Carbamazepine	107	99.2	P/P	60 - 150
Carbaryl	106	106	P/P	60 - 150
Carbofuran	101	103	P/P	50 - 150
Clothianidin	116	119	P/P	60 - 150
Clothianidin	124	120	P/P	60 - 150
Dinotefuran	103	109	P/P	50 - 150
Dinotefuran	95.8	106	P/P	50 - 150
Diuron	113	104	P/P	60 - 150
Diuron	99.5	111	P/P	60 - 150
Fenuron	109	109	P/P	60 - 150
Fenuron	110	106	P/P	60 - 150
Fluridone	113	112	P/P	60 - 160
Fluridone	98.4	108	P/P	60 - 160
Hydrocodone	102	104	P/P	60 - 150
Hydrocodone	94.9	107	P/P	60 - 150
Ibuprofen	104	97.2	P/P	50 - 160
Ibuprofen	109	108	P/P	50 - 160
Imazapyr	87.2	92.2	P/P	50 - 150
Imazapyr	88.5	95.3	P/P	50 - 150
Imidacloprid	106	105	P/P	60 - 150
Imidacloprid	100	100	P/P	60 - 150
Linuron	103	104	P/P	60 - 150
Linuron	105	115	P/P	60 - 150
Mandestrobin	106	102	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A97022
Included Lab Sample IDs: 2149642, 2149645, 2149646, 2149647, 2149648, 2149650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mandestrobin	108	106	P/P	50 - 150
MCPP	94.3	95.6	P/P	50 - 150
MCPP	94.5	101	P/P	50 - 150
Methiocarb	106	108	P/P	50 - 150
Methomyl	111	115	P/P	50 - 150
Naproxen	100	79.2	P/P	50 - 160
Naproxen	90.3	112	P/P	50 - 160
Oxamyl	107	103	P/P	50 - 150
Primidone	113	106	P/P	60 - 150
Primidone	113	111	P/P	60 - 150
Propoxur	106	96.5	P/P	50 - 150
Pyraclostrobin	96.8	89.5	P/P	60 - 150
Pyraclostrobin	96.8	101	P/P	60 - 150
Thiamethoxam	107	111	P/P	50 - 150
Thiamethoxam	109	111	P/P	50 - 150
Tolfenpyrad	91.5	88.9	P/P	60 - 150
Tolfenpyrad	95.4	101	P/P	60 - 150
Triclopyr	95.4	101	P/P	50 - 150
Triclopyr	98.6	99.2	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A97036
Included Lab Sample IDs: 2149611, 2149615, 2149616, 2149621, 2149622, 2149626

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

Reference Method: SM 5310 B-2011
Run ID: A97050
Included Lab Sample IDs: 2149611, 2149615, 2149616, 2149621, 2149622, 2149626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	104	P/P	90 - 110
Organic Carbon	104	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A97054
Included Lab Sample IDs: 2149657, 2149658, 2149659, 2149660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	98.7	98.8	P/P	95 - 105
Barium	98.8	99.6	P/P	90 - 110
Calcium	97.7	99.9	P/P	90 - 110
Calcium	99.0	97.7	P/P	95 - 105
Iron	98.3	99.5	P/P	90 - 110
Iron	99.3	98.3	P/P	95 - 105
Magnesium	98.9	99.8	P/P	90 - 110
Magnesium	99.0	98.9	P/P	95 - 105
Potassium	97.4	98.7	P/P	90 - 110
Potassium	97.8	97.4	P/P	95 - 105
Sodium	97.2	99.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A97054
Included Lab Sample IDs: 2149657, 2149658, 2149659, 2149660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	98.4	97.2	P/P	95 - 105
Zinc	98.0	98.9	P/P	95 - 105
Zinc	98.9	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A97061
Included Lab Sample IDs: 2149651, 2149652, 2149655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	89.6		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	92.8		P	80 - 120
Beta-BHC	104		P	80 - 120
Bifenthrin	98.7		P	80 - 120
Carbophenothion	94.7		P	80 - 120
Chlorothalonil	104		P	80 - 120
Cis-Nonachlor	91.3		P	80 - 120
Cypermethrin	97.7		P	80 - 120
DDD-p,p'	94.4		P	80 - 120
DDE-p,p'	92.2		P	80 - 120
DDT-p,p'	97.1		P	80 - 120
Delta-BHC	106		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	93.1		P	80 - 120
Endosulfan I	93.0		P	80 - 120
Endosulfan II	95.4		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	94.5		P	80 - 120
Endrin Aldehyde	92.0		P	80 - 120
Endrin Ketone	99.3		P	80 - 120
Ethalfluralin	97.2		P	80 - 120
Gamma-BHC	88.9		P	80 - 120
Gamma-Chlordane	92.2		P	80 - 120
Heptachlor	87.5		P	80 - 120
Heptachlor Epoxide	91.8		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Methoxychlor	102		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	100		P	80 - 120
Trans-Nonachlor	91.9		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A97079
Included Lab Sample IDs: 2149611, 2149615, 2149616, 2149621, 2149622, 2149626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	99.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A97086
Included Lab Sample IDs: 2149651, 2149652, 2149655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120
Chlordane	105		P	80 - 120
Toxaphene	82.0		P	80 - 120
Toxaphene	97.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A97087
Included Lab Sample IDs: 2149657, 2149658, 2149659, 2149660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	99.0	P/P	90 - 110
Aluminum	99.0	98.6	P/P	90 - 110
Antimony	95.1	96.5	P/P	90 - 110
Antimony	96.5	97.0	P/P	90 - 110
Boron	102	99.7	P/P	90 - 110
Boron	103	102	P/P	90 - 110
Chromium	96.1	97.3	P/P	90 - 110
Chromium	97.2	96.1	P/P	90 - 110
Copper	101	99.8	P/P	90 - 110
Copper	101	101	P/P	90 - 110
Lead	101	101	P/P	90 - 110
Lead	102	101	P/P	90 - 110
Selenium	104	106	P/P	90 - 110
Selenium	106	106	P/P	90 - 110
Silver	106	108	P/P	90 - 110
Silver	108	107	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A97088
Included Lab Sample IDs: 2149610, 2149613, 2149614, 2149619, 2149620, 2149625

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

Reference Method: SM 4500 F-C-2011
Run ID: A97088
Included Lab Sample IDs: 2149610, 2149613, 2149614, 2149619, 2149620, 2149625

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A97095
Included Lab Sample IDs: 2149657, 2149658, 2149659, 2149660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	99.5	P/P	90 - 110
Arsenic	100	100	P/P	90 - 110
Lead	102	102	P/P	90 - 110
Thallium	96.4	97.0	P/P	90 - 110
Thallium	97.0	97.1	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A97097
Included Lab Sample IDs: 2149611, 2149615, 2149616, 2149621

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A97098
Included Lab Sample IDs: 2149622, 2149626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	108	109	P/P	90 - 110
Total-P	108	108	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A97109
Included Lab Sample IDs: 2149642, 2149645, 2149646, 2149647, 2149648, 2149650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	103	89.7	P/P	60 - 160
Sucralose	89.5	92.8	P/P	60 - 160
Sucralose	92.8	90.1	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A97129
Included Lab Sample IDs: 2149657, 2149658, 2149659, 2149660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	100	100	P/P	90 - 110
Cadmium	101	100	P/P	90 - 110
Nickel	95.3	96.6	P/P	90 - 110
Nickel	96.6	97.0	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			Precision		
							LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							0.786	
EPA 200.7 Rev. 4.4	Barium	98.6		99.9	100	98.8			0.0969
	Calcium	104		105	106	102			0.873
	Iron	103		104	105	102			1.48
	Magnesium	104		105	107	101			1.28
	Potassium	99.7		103	105	98.3			1.40
	Sodium	102		101	102	102			0.372
	Zinc	97.6		99.3	99.5	99.5			0.270
EPA 200.8 Rev. 5.4	Aluminum	102		100	101	98.6			0.897
	Antimony	101		99.2	101	103			1.30
	Arsenic	99.5		97.7	96.6	97.3			1.13
	Boron	105		102	101	102			1.29
	Cadmium	103		107	107	108			0.116
	Chromium	94.2		93.8	95.3	93.0			1.57
	Copper	97.8		99.0	100	98.8			1.11
	Lead	103		105	105	106			0.0969
	Nickel	101		106	105	105			1.48
	Selenium	99.3		96.3	97.6	96.6			1.34
	Silver	105		104	103	104			0.932
	Thallium	102		103	103	104			0.0038
EPA 300.0 Rev. 2.1	Chloride	99.0		99.8	100			0.842	
	Sulfate	99.3		100	95.6			0.237	
EPA 350.1 Rev. 2.0	Ammonia-N	98.3		102	105				1.79
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		106	102				3.66
EPA 353.2 Rev. 2.0	NO2NO3-N	102		102	104				0.649
EPA 365.1 Rev. 2.0	Total-P	107		104	111				4.69
	Total-P	106		106	105				1.16
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1		96.3	97.7				1.19
EPA 8270E	Acetochlor	76.7	92.6	77.5	98.0		18.7		23.3
	Alachlor	79.6	92.7	80.7	103		15.1		24.4
	Aldrin	54.4	57.4	61.7	61.3		5.36		0.700
	Alpha-BHC	91.0	89.2	99.2	103		1.99		3.75
	Alpha-Chlordane	80.8	75.5	68.1	66.5		6.73		2.30
	Ametryn	82.1	108	131	121		27.0		7.90
	Atrazine	98.5	99.1				0.533		7.97
	Atrazine Desethyl	106	78.1	140	177		30.4		23.2
	Azinphos Methyl	106	83.7	93.7	118		23.5		23.3
	Beta-BHC	83.4	82.7	76.3	82.8		0.750		8.22
	Bifenthrin	93.9	94.4	106	102		0.623		3.88
	Bromacil	81.2	93.9				14.5		20.4
	Butylate	60.2	61.2	46.8	62.3		1.68		28.4
	Carbophenothion	84.3	66.6	110	112		23.4		2.55
	Chlorothalonil	119	82.5	239	254		36.1		6.35
	Chlorpyrifos Ethyl	89.2	91.7	90.8	103		2.69		12.8
	Chlorpyrifos Methyl	92.1	87.9	94.6	109		4.66		14.1
	Cis-Nonachlor	80.8	74.3	66.5	63.5		8.30		4.53
	Cyanazine	180	62.9	186	232		96.6		22.1
	Cypermethrin	106	99.2	107	110		6.33		2.32
	DDD-p,p'	87.3	79.7	73.2	70.7		9.08		3.58
	DDE-p,p'	81.4	76.0	66.4	66.3		6.81		0.107
	DDT-p,p'	87.5	87.6	81.8	85.4		0.104		4.34
	Delta-BHC	95.6	92.4	79.7	86.7		3.42		8.46
	Demeton	71.4	68.6	82.9	77.9		4.02		6.20
	Diazinon	93.4	97.8	101	131		4.65		25.9

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Dicofol	90.6	92.1	87.1	83.1	1.60		4.68
	Dieldrin	82.0	78.5	74.3	70.5	4.41		3.45
	Dimethenamid	77.1	94.8	84.6	110	20.6		20.4
	Disulfoton	99.8	88.6	108	126	11.9		15.1
	Dithiopyr	81.9	95.1	81.2	103	14.9		23.6
	Endosulfan I	90.3	84.1	80.1	82.8	7.10		3.33
	Endosulfan II	93.7	88.0	80.3	78.8	6.26		1.92
	Endosulfan Sulfate	93.1	91.1	92.9	91.6	2.18		1.40
	Endrin	84.5	79.0	70.0	68.7	6.67		1.88
	Endrin Aldehyde	80.6	74.4	48.2	46.7	7.98		3.07
	Endrin Ketone	91.5	90.4	98.6	94.9	1.17		3.78
	EPTC	61.9	62.8	47.4	70.6	1.45		39.3
	Ethalfluralin	85.9	84.3	89.7	89.7	1.95		0.0712
	Ethion	92.6	99.7	89.5	104	7.40		14.9
	Ethoprop	92.9	88.7	74.5	93.0	4.62		22.1
	Fenamiphos	59.0	70.1	65.4	67.8	17.3		3.60
	Fipronil	74.3	100	74.5	95.8	29.5		25.0
	Fipronil Desulfinyl	88.6	105	90.1	114	16.7		23.7
	Fipronil Sulfide	82.4	93.2	83.4	93.6	12.3		11.5
	Fipronil Sulfone	74.7	93.6	61.6	64.3	22.4		4.37
	Fonofos	90.9	83.4	97.3	118	8.62		18.9
	Gamma-BHC	101	90.6	119	116	10.4		3.23
	Gamma-Chlordane	79.1	74.5	67.7	66.8	5.95		1.35
	Heptachlor	76.0	74.7	74.9	75.1	1.77		0.356
	Heptachlor Epoxide	80.5	76.6	82.9	80.6	5.00		2.42
	Hexachlorobenzene	80.1	81.0	80.6	82.0	1.06		1.74
	Hexazinone	91.4	101			9.51		14.2
	Malathion	82.2	93.0	51.6	33.0	12.4		44.0
	Metalaxyl	76.3	34.3			75.8		19.0
	Methoxychlor	94.7	93.8	94.7	95.2	0.917		0.472
	Metolachlor	82.8	98.3	78.6	91.2	17.1		13.8
	Metribuzin	245	136	199	231	57.3		14.9
	Mevinphos	87.9	67.0	96.5	114	27.0		16.6
	Mirex	80.2	79.0	81.4	80.9	1.56		0.666
	Molinate	71.1	71.3	68.4	86.2	0.283		23.1
	Norflurazon	87.1	105			18.3		8.18
	Oxadiazon	79.8	96.6	72.7	87.9	19.1		16.6
	Parathion Ethyl	87.9	97.1	92.1	110	9.97		17.4
	Parathion Methyl	107	95.3	113	134	11.7		16.6
	Pendimethalin	84.6	97.5	91.8	108	14.2		15.8
	Permethrin	95.8	95.7	104	99.9	0.0955		4.27
	Phorate	87.6	80.5	95.1	113	8.41		17.2
	Prodiamine	80.1	96.3	93.4	116	18.4		21.6
	Prometon	64.7	81.6	87.5	105	23.1		18.4
	Prometryn	84.1	101	88.0	105	17.8		18.0
	Simazine	102	98.7	106	137	2.77		23.3
	Tebuconazole	61.8	96.3	21.9	24.7	43.7		12.0
	Terbufos	90.2	83.3	103	126	8.04		20.1
	Terbuthylazine	89.0	92.7	92.7	121	4.08		26.1
	Trans-Nonachlor	78.6	73.3	65.3	63.1	6.95		3.39
	Trifluralin	89.0	88.0	88.3	89.4	1.09		1.24
EPA 8276	Chlordane	91.1	92.7	86.8	84.8	1.70		2.29
	Toxaphene	105	102	98.8	99.6	2.57		0.825
EPA 8321B	2,4-D	140		125	141			11.6

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	2,4-D	133	111	113			2.11
	3-Hydroxycarbofuran	92.3	76.3	81.6			6.68
	Acesulfame K	87.2	37.8	38.7			2.14
	Acetaminophen	95.8	105	107			2.36
	Acetaminophen	92.6	93.4	103			9.74
	Acetamiprid	100	102	120			16.1
	Acetamiprid	98.6	104	102			2.21
	Afidopyropen	92.1	102	112			9.09
	Afidopyropen	104	105	101			4.73
	Aldicarb	97.3	55.2	54.8			0.827
	Aldicarb Sulfone	103	104	110			5.26
	Aldicarb Sulfoxide	98.8	42.0	41.3			1.65
	AMPA	85.0	92.2	95.2			3.11
	Bentazon	72.9					
	Bentazon	72.9	45.1	48.1			2.38
	Benzovindiflupyr	93.4	88.1	94.1			6.60
	Benzovindiflupyr	91.1	85.8	85.6			0.298
	Carbamazepine	105	98.4	103			4.44
	Carbamazepine	114	72.1	88.1			18.5
	Carbaryl	69.4	35.2	47.7			30.0
	Carbofuran	71.7	41.0	48.1			15.9
	Clothianidin	112	111	121			8.16
	Clothianidin	104	113	113			0.0384
	Dinotefuran	102	121	135			9.29
	Dinotefuran	96.3	132	121			6.19
	Diuron	81.7	74.3	78.0			4.05
	Diuron	88.3	73.8	75.3			1.99
	Endothall	131	138	140			1.67
	Fenuron	109	97.8	101			3.19
	Fenuron	101	106	111			4.80
	Fluridone	104	104	106			1.59
	Fluridone	107	97.2	103			5.79
	Glufosinate	93.7	88.7	101			13.1
	Glyphosate	99.1	91.1	83.8			8.40
	Hydrocodone	102	123	124			0.363
	Hydrocodone	105	111	114			2.80
	Ibuprofen	87.0	83.8	84.3			0.608
	Ibuprofen	84.1	88.0	78.8			11.0
	Imazapyr	88.6	101	103			1.39
	Imazapyr	88.5	90.9	86.1			3.73
	Imidacloprid	103	164	176			5.85
	Imidacloprid	105	165	156			4.85
	Linuron	81.9	81.0	85.1			4.99
	Linuron	83.4	77.8	80.4			3.26
	Mandestrobin	94.4	93.7	97.4			3.91
	Mandestrobin	93.1	89.6	90.1			0.643
	MCPP	125	119	128			7.42
	MCPP	131	117	124			6.20
	Methiocarb	69.7	41.0	53.3			26.1
	Methomyl	97.0	70.3	68.2			2.93
	Naproxen	79.7	83.0	99.7			18.3
	Naproxen	70.6	84.0	76.8			8.88
	Oxamyl	99.1	80.8	96.5			17.7
	Primidone	96.6	106	119			11.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Primidone	110	90.1	113			20.9
	Propoxur	68.1	37.3	42.2			12.4
	Pyraclostrobin	86.2	86.9	92.4			6.13
	Pyraclostrobin	82.2	84.7	85.3			0.777
	Sucralose	92.4	87.8	93.9			6.36
	Thiamethoxam	104	154	166			7.24
	Thiamethoxam	104	152	147			2.87
	Tolfenpyrad	53.8	56.1	61.3			8.91
	Tolfenpyrad	48.7	52.0	56.6			8.40
	Triclopyr	77.2	77.5	98.5			23.9
	Triclopyr	100	84.6	102			18.3
SM 2120 B-2011	Color (true)	101				0.327	
	Color (true)	102				0.156	
SM 2320 B-2011	Total Alkalinity	103				0.146	
	Total Alkalinity	104				0.301	
SM 2540 C-2011	TDS					1.16	
	TDS					0.966	
SM 4500 F-C-2011	Fluoride	95.9	97.2	97.2			0.0
	Fluoride	97.3	97.9	97.9			0.0
SM 5310 B-2011	Organic Carbon	100	101	102			0.185

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2149657, 2149658, 2149659, 2149660
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2149657, 2149658, 2149659, 2149660
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2149611, 2149615, 2149616, 2149621, 2149622, 2149626
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2149611, 2149615, 2149616, 2149621, 2149622, 2149626
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2149611, 2149615, 2149616, 2149621, 2149622, 2149626
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2149611, 2149615, 2149616, 2149621, 2149622, 2149626
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2149612, 2149617, 2149618, 2149623, 2149624, 2149627
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2149651, 2149652, 2149655
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2149653, 2149654, 2149656
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2149651, 2149652, 2149655
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2149643, 2149644, 2149649
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2149642, 2149645, 2149646, 2149647, 2149648, 2149650
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2149642, 2149645, 2149646, 2149647, 2149648, 2149650
SM 2120 B-2011 / E31780	True Color measured at 450 nm (not valid for NPDES monitoring)	2149610, 2149613, 2149614, 2149619, 2149620, 2149625

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2320 B-2011 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
SM 2340B / E31780	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2149657, 2149658, 2149659, 2149660
SM 2540 C-2011 / E31780	Total Dissolved Solids in aqueous matrices	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
SM 2540 D-2011 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
SM 4500 F-C-2011 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
SM 5310 B-2011 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2149611, 2149615, 2149616, 2149621, 2149622, 2149626

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	01/15/2020			01/15/2020 18:01	Yen Ta	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
EPA 200.7 Rev. 4.4	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/22/2020 13:46	Betina Topolski	2149660
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/22/2020 14:26	Betina Topolski	2149657
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/22/2020 14:58	Betina Topolski	2149658
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/22/2020 15:04	Betina Topolski	2149659
EPA 200.8 Rev. 5.4	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/23/2020 19:32	Justin Cutchin	2149660
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/23/2020 20:48	Justin Cutchin	2149657
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/23/2020 21:16	Justin Cutchin	2149658
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/23/2020 21:26	Justin Cutchin	2149659
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/24/2020 19:43	Alexander Thompson	2149660
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/24/2020 21:49	Alexander Thompson	2149657
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/24/2020 21:58	Alexander Thompson	2149658
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/24/2020 22:08	Alexander Thompson	2149659
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/27/2020 21:06	Alexander Thompson	2149660
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/27/2020 23:11	Alexander Thompson	2149657
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/27/2020 23:21	Alexander Thompson	2149658
	01/15/2020	01/21/2020 15:00	Elliott D. Healy	01/27/2020 23:31	Alexander Thompson	2149659
EPA 300.0 Rev. 2.1	01/15/2020			01/17/2020 15:48	Lipi Saha	2149614
	01/15/2020			01/17/2020 18:01	Lipi Saha	2149610
	01/15/2020			01/17/2020 18:13	Lipi Saha	2149613
	01/15/2020			01/17/2020 18:25	Lipi Saha	2149619
	01/15/2020			01/17/2020 18:37	Lipi Saha	2149620
	01/15/2020			01/17/2020 18:49	Lipi Saha	2149625
EPA 350.1 Rev. 2.0	01/15/2020			01/16/2020 17:14	Ping Hua	2149615
	01/15/2020			01/16/2020 17:15	Ping Hua	2149616
	01/15/2020			01/16/2020 17:21	Ping Hua	2149611
	01/15/2020			01/16/2020 17:23	Ping Hua	2149621
	01/15/2020			01/16/2020 17:30	Ping Hua	2149622
	01/15/2020			01/16/2020 17:32	Ping Hua	2149626
EPA 351.2 Rev. 2.0	01/15/2020	01/21/2020 12:05	Jhamieka S. Greenwood	01/23/2020 14:05	Virginia P. Brown	2149611
	01/15/2020	01/21/2020 12:05	Jhamieka S. Greenwood	01/23/2020 14:06	Virginia P. Brown	2149615
	01/15/2020	01/21/2020 12:05	Jhamieka S. Greenwood	01/23/2020 14:08	Virginia P. Brown	2149616
	01/15/2020	01/21/2020 12:05	Jhamieka S. Greenwood	01/23/2020 14:10	Virginia P. Brown	2149621
	01/15/2020	01/21/2020 12:05	Jhamieka S. Greenwood	01/23/2020 14:11	Virginia P. Brown	2149622
	01/15/2020	01/21/2020 12:05	Jhamieka S. Greenwood	01/23/2020 14:13	Virginia P. Brown	2149626
EPA 353.2 Rev. 2.0	01/15/2020			01/22/2020 09:30	Beverly Y. Sanders	2149611
	01/15/2020			01/22/2020 09:31	Beverly Y. Sanders	2149615
	01/15/2020			01/22/2020 09:32	Beverly Y. Sanders	2149616
	01/15/2020			01/22/2020 09:33	Beverly Y. Sanders	2149621

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	01/15/2020			01/22/2020 09:35	Beverly Y. Sanders	2149622
	01/15/2020			01/22/2020 09:36	Beverly Y. Sanders	2149626
EPA 365.1 Rev. 2.0	01/15/2020	01/22/2020 14:24	Yen Ta	01/23/2020 15:32	Benjamin T. Nordmann	2149611
	01/15/2020	01/22/2020 14:24	Yen Ta	01/23/2020 15:33	Benjamin T. Nordmann	2149615, 2149616
	01/15/2020	01/22/2020 14:24	Yen Ta	01/23/2020 15:34	Benjamin T. Nordmann	2149621
	01/15/2020	01/22/2020 14:24	Yen Ta	01/24/2020 14:28	Benjamin T. Nordmann	2149626
	01/15/2020	01/22/2020 14:24	Yen Ta	01/24/2020 14:37	Benjamin T. Nordmann	2149622
EPA 365.1 Rev. 2.0 dissolved	01/15/2020			01/15/2020 17:51	Jhamieka S. Greenwood	2149612, 2149617
	01/15/2020			01/15/2020 17:52	Jhamieka S. Greenwood	2149618
	01/15/2020			01/15/2020 17:53	Jhamieka S. Greenwood	2149623
	01/15/2020			01/15/2020 17:54	Jhamieka S. Greenwood	2149624
	01/15/2020			01/15/2020 17:55	Jhamieka S. Greenwood	2149627
EPA 8270E	01/15/2020	01/17/2020 08:00	Fe-Val Siddell	01/21/2020 19:14	Vandana T. Nagar	2149653
	01/15/2020	01/17/2020 08:00	Fe-Val Siddell	01/21/2020 19:40	Vandana T. Nagar	2149654
	01/15/2020	01/17/2020 08:00	Fe-Val Siddell	01/21/2020 20:06	Vandana T. Nagar	2149656
	01/15/2020	01/17/2020 08:30	Rasheda Ghaffari	01/23/2020 01:27	Arthur Maknenko	2149651
	01/15/2020	01/17/2020 08:30	Rasheda Ghaffari	01/23/2020 01:58	Arthur Maknenko	2149652
	01/15/2020	01/17/2020 08:30	Rasheda Ghaffari	01/23/2020 02:30	Arthur Maknenko	2149655
EPA 8276	01/15/2020	01/17/2020 08:30	Rasheda Ghaffari	01/23/2020 08:32	Michael Poppell	2149651
	01/15/2020	01/17/2020 08:30	Rasheda Ghaffari	01/23/2020 09:28	Michael Poppell	2149652
	01/15/2020	01/17/2020 08:30	Rasheda Ghaffari	01/23/2020 11:18	Michael Poppell	2149655
EPA 8321B	01/15/2020	01/16/2020 10:00	Hoor Shaik	01/18/2020 11:01	Juyoung Kim	2149642
	01/15/2020	01/16/2020 10:00	Hoor Shaik	01/18/2020 11:36	Juyoung Kim	2149645
	01/15/2020	01/16/2020 10:00	Hoor Shaik	01/18/2020 12:11	Juyoung Kim	2149646
	01/15/2020	01/16/2020 10:00	Hoor Shaik	01/18/2020 12:45	Juyoung Kim	2149647
	01/15/2020	01/17/2020 10:00	Hoor Shaik	01/19/2020 03:12	Juyoung Kim	2149648
	01/15/2020	01/17/2020 10:00	Hoor Shaik	01/19/2020 03:46	Juyoung Kim	2149650
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/17/2020 16:30	Rebecca Ware	2149642
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/17/2020 16:41	Rebecca Ware	2149645
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/17/2020 16:52	Rebecca Ware	2149646
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/17/2020 17:02	Rebecca Ware	2149647
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/17/2020 17:24	Rebecca Ware	2149648
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/17/2020 17:35	Rebecca Ware	2149650
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/19/2020 20:15	Rebecca Ware	2149642
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/19/2020 20:29	Rebecca Ware	2149645
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/19/2020 20:42	Rebecca Ware	2149646
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/19/2020 20:56	Rebecca Ware	2149647
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/19/2020 21:24	Rebecca Ware	2149648
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/19/2020 21:38	Rebecca Ware	2149650
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/24/2020 00:14	Rebecca Ware	2149642

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/24/2020 00:26	Rebecca Ware	2149645
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/24/2020 00:38	Rebecca Ware	2149646
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/24/2020 00:49	Rebecca Ware	2149647
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/24/2020 01:13	Rebecca Ware	2149648
	01/15/2020	01/17/2020 11:00	Rebecca Ware	01/24/2020 09:37	Rebecca Ware	2149650
	01/15/2020	01/21/2020 11:00	Hoor Shaik	01/21/2020 18:39	Juyoung Kim	2149643
	01/15/2020	01/21/2020 11:00	Hoor Shaik	01/21/2020 19:14	Juyoung Kim	2149644
	01/15/2020	01/21/2020 11:00	Hoor Shaik	01/21/2020 19:49	Juyoung Kim	2149649
SM 2120 B-2011	01/15/2020			01/15/2020 18:56	Madeline Funaro	2149613, 2149614
	01/15/2020			01/15/2020 18:58	Madeline Funaro	2149620
	01/15/2020			01/15/2020 18:59	Madeline Funaro	2149625
	01/15/2020			01/15/2020 19:04	Madeline Funaro	2149610
	01/15/2020			01/15/2020 19:05	Madeline Funaro	2149619
SM 2320 B-2011	01/15/2020			01/23/2020 04:12	Dale L. Simmons	2149610
	01/15/2020			01/23/2020 04:25	Dale L. Simmons	2149613
	01/15/2020			01/23/2020 04:38	Dale L. Simmons	2149614
	01/15/2020			01/23/2020 06:01	Dale L. Simmons	2149619
	01/15/2020			01/23/2020 06:16	Dale L. Simmons	2149620
	01/15/2020			01/23/2020 06:30	Dale L. Simmons	2149625
SM 2340B	01/15/2020			01/22/2020 13:46	Betina Topolski	2149660
	01/15/2020			01/22/2020 14:26	Betina Topolski	2149657
	01/15/2020			01/22/2020 14:58	Betina Topolski	2149658
	01/15/2020			01/22/2020 15:04	Betina Topolski	2149659
SM 2540 C-2011	01/15/2020			01/16/2020 15:45	Sima Feizi	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
SM 2540 D-2011	01/15/2020			01/16/2020 15:45	Sima Feizi	2149610, 2149613, 2149614, 2149619, 2149620, 2149625
SM 4500 F-C-2011	01/15/2020			01/23/2020 04:12	Dale L. Simmons	2149610
	01/15/2020			01/23/2020 04:25	Dale L. Simmons	2149613
	01/15/2020			01/23/2020 04:38	Dale L. Simmons	2149614
	01/15/2020			01/23/2020 06:01	Dale L. Simmons	2149619
	01/15/2020			01/23/2020 06:16	Dale L. Simmons	2149620
	01/15/2020			01/23/2020 06:30	Dale L. Simmons	2149625
SM 5310 B-2011	01/15/2020			01/21/2020 18:59	Madeline Funaro	2149616
	01/15/2020			01/21/2020 21:24	Madeline Funaro	2149611
	01/15/2020			01/21/2020 21:36	Madeline Funaro	2149615
	01/15/2020			01/21/2020 21:48	Madeline Funaro	2149621
	01/15/2020			01/21/2020 22:01	Madeline Funaro	2149622
	01/15/2020			01/21/2020 22:13	Madeline Funaro	2149626