Chemical Analysis Report

NW-DIST-2023-05-31-01

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

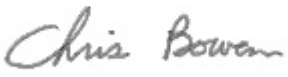
Event Description: **Lake Jackson LVI + Pine Log**
Request ID: **RQ-2023-05-29-10**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda K Butler

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

Certified by: Chris Bowen, Environmental Administrator

Date Certified: 21-JUN-2023 09:35



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: LAKE JACKSON **Collection Date/Time: 05/30/2023 12:50**

Field ID: G4NW0014 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413416	DEP SOP: NU-094-1	Color (true)	9.8		PCU	P430602	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P430604	
	EPA 300.0 Rev. 2.1	Chloride	3.2		mg Cl/L	P430960	
		Sulfate	2.6		mg SO4/L	P430964	
	SM 2320 B-2011	Total Alkalinity	3.9		mg CaCO3/L	P430788	
	SM 2540 C-2015	TDS	27		mg/L	P431042	
	SM 2540 D-2015	TSS	6	I	mg/L	P431015	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P431429	
2413417	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P430814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P430754	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P430906	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P430674	
	SM 5310 B-2011	Organic Carbon	6.3		mg C/L	P430799	
2413418	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P430608	
2413433	EPA 8321B	2,4-D	0.020		ug/L	P430649	
		Acesulfame K	0.10	U	ug/L	P430640	
		2,4,5-T	0.0040	U	ug/L	P430649	
		AMPA	0.10	U	ug/L	P430640	
		Acetaminophen	0.0080	U	ug/L	P430649	
		Acetamiprid	0.0020	U	ug/L	P430649	
		Endothall	0.25	U	ug/L	P430640	
		Glufosinate	0.10	U	ug/L	P430640	
		Glyphosate	0.10	U	ug/L	P430640	
		Afidopyropen	0.0020	U	ug/L	P430649	
		Bentazon	8.0E-04	U	ug/L	P430649	
		Sucralose	0.046		ug/L	P430640	
		Benzovindiflupyr	0.0020	U	ug/L	P430649	
		Carbamazepine	8.0E-04	U	ug/L	P430649	
		Clothianidin	0.0020	U	ug/L	P430649	
		Dinotefuran	0.0020	U	ug/L	P430649	
		Diuron	0.0020	U	ug/L	P430649	
		Fenuron	0.032	U	ug/L	P430649	
		Fluridone	8.0E-04	U	ug/L	P430649	
		Imazapyr	0.0040	U	ug/L	P430649	
		Hydrocodone	0.0020	U	ug/L	P430649	
		Ibuprofen	0.080	UJ	ug/L	P430649	CCV
		Imidacloprid	0.0020	U	ug/L	P430649	
		Linuron	0.0040	U	ug/L	P430649	
		Mandestrobin	0.0020	U	ug/L	P430649	
		MCPP	0.0020	U	ug/L	P430649	
		Naproxen	0.0080	U	ug/L	P430649	
		Primidone	0.0040	U	ug/L	P430649	
		Pyraclostrobin	0.0020	U	ug/L	P430649	

Field ID: G4NW0014 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413433	EPA 8321B	Silvex	0.0040	U	ug/L	P430649	
		Thiamethoxam	0.0020	U	ug/L	P430649	
		Tolfenpyrad	0.0020	U	ug/L	P430649	
		Triclopyr	0.0040	U	ug/L	P430649	
2413434	EPA 200.7 Rev. 4.4	Calcium	2.29		mg/L	P430688	
		Iron	53	I	ug/L	P430688	
		Magnesium	0.73		mg/L	P430688	
		Potassium	1.1	I	mg/L	P430688	
		Sodium	1.8	I	mg/L	P430688	
		Strontium	8.4		ug/L	P430688	
		Tin	3.0	U	ug/L	P430688	
		Titanium	0.75	U	ug/L	P430688	
		Vanadium	2.0	U	ug/L	P430688	
		Zinc	5.0	U	ug/L	P430688	
	EPA 200.8 Rev. 5.4	Aluminum	39		ug/L	P430688	
		Antimony	0.22		ug/L	P430688	
		Arsenic	1.04		ug/L	P430688	
		Barium	10.6		ug/L	P430688	
		Beryllium	0.010	U	ug/L	P430688	
		Boron	11.1		ug/L	P430688	
		Cadmium	0.020	U	ug/L	P430688	
		Chromium	0.40	U	ug/L	P430688	
		Cobalt	0.031	I	ug/L	P430688	
		Copper	0.66	I	ug/L	P430688	
		Lead	0.24	I	ug/L	P430688	
		Manganese	19.1		ug/L	P430688	
		Molybdenum	0.20	I	ug/L	P430688	
		Nickel	0.50	U	ug/L	P430688	
		Selenium	0.20	U	ug/L	P430688	
		Silver	0.010	U	ug/L	P430688	
		Thallium	0.10	U	ug/L	P430688	
	SM 2340 B-2011	Hardness	8.7		mg/L	P430688	
2413435	EPA 8270E	Oxybenzone**	11	U	ng/L	P430467	
		Acetochlor	0.30	I	ng/L	P430467	
		Octinoxate**	22	U	ng/L	P430467	
		Alachlor	0.43	U	ng/L	P430467	
		Avobenzone**	110	U	ng/L	P430467	MS
		Ametryn	1.2	U	ng/L	P430467	
		Atrazine	6.7		ng/L	P430467	
		PBDE-47**	4.3	U	ng/L	P430467	
		Atrazine Desethyl	1.4	U	ng/L	P430467	
		PBDE-99**	5.4	U	ng/L	P430467	
		Azinphos Methyl	3.2	U	ng/L	P430467	
		Tri-o-cresyl Phosphate**	6.5	U	ng/L	P430467	
		Azoxystrobin	0.43	U	ng/L	P430467	

Field ID: G4NW0014 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413435	EPA 8270E	Bromacil	0.65	U	ng/L	P430467	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P430467	
		Butylate	0.22	U	ng/L	P430467	
		Dechlorane Plus**	32	U	ng/L	P430467	
		Caffeine**	8.1	U	ng/L	P430467	
		Dechlorane 602**	5.4	U	ng/L	P430467	
		Carbophenothion	0.54	U	ng/L	P430467	
		Dechlorane 603**	4.3	U	ng/L	P430467	
		Carfentrazone Ethyl	0.16	U	ng/L	P430467	
		Hexabromobenzene**	6.5	U	ng/L	P430467	
		Chlorfenapyr	0.32	U	ng/L	P430467	
		PBB-153**	8.6	U	ng/L	P430467	MS
		Chlorpyrifos Ethyl	0.32	U	ng/L	P430467	
		Pentabromotoluene**	3.2	U	ng/L	P430467	
		Chlorpyrifos Methyl	0.11	U	ng/L	P430467	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	75	U	ng/L	P430467	
		Coumaphos	1.1	U	ng/L	P430467	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	32	I	ng/L	P430467	
		Cyanazine	5.4	U	ng/L	P430467	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	4.2	I	ng/L	P430467	
		Cyprodinil	0.22	U	ng/L	P430467	
		Tetradecachloro-m-terphenyl**	8.1	U	ng/L	P430467	MS
		Demeton	3.8	U	ng/L	P430467	
		Diazinon	0.13	U	ng/L	P430467	MS
		Difenoconazole	0.65	U	ng/L	P430467	
		Dimethenamid	0.11	U	ng/L	P430467	MS
		Dimethomorph	0.32	U	ng/L	P430467	
		Disulfoton	0.65	U	ng/L	P430467	
		Dithiopyr	1.1	UJ	ng/L	P430467	LCS, MS
		EPTC	0.54	U	ng/L	P430467	
		Ethion	0.32	U	ng/L	P430467	MS
		Ethoprop	0.13	U	ng/L	P430467	
		Etridiazole	0.11	U	ng/L	P430467	
		Fenamiphos	0.48	U	ng/L	P430467	
		Fenbuconazole	0.54	U	ng/L	P430467	
		Fipronil	0.22	U	ng/L	P430467	MS
		Fipronil Desulfinyl**	0.19	I	ng/L	P430467	
		Fipronil Sulfide	0.11	U	ng/L	P430467	
		Fipronil Sulfone	0.11	U	ng/L	P430467	
		Fluazifop-P-butyl	0.11	U	ng/L	P430467	
		Fludioxonil	0.11	U	ng/L	P430467	
		Flumioxazin	3.2	U	ng/L	P430467	
		Flutolanil	0.11	U	ng/L	P430467	
		Fluxapyroxad	0.27	U	ng/L	P430467	

Field ID: G4NW0014 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413435	EPA 8270E	Fonofos	0.16	UJ	ng/L	P430467	LCS, MS
		Hexazinone	0.54	U	ng/L	P430467	
		Imazalil	0.70	U	ng/L	P430467	
		Iprodione	0.54	U	ng/L	P430467	
		Loratadine**	0.32	U	ng/L	P430467	
		Malathion	0.38	U	ng/L	P430467	
		Metalaxyl	0.54	U	ng/L	P430467	
		Metolachlor	3.9	I	ng/L	P430467	
		Metribuzin	0.43	U	ng/L	P430467	
		Mevinphos	1.1	U	ng/L	P430467	
		Molinate	0.27	U	ng/L	P430467	
		Myclobutanil	0.38	U	ng/L	P430467	
		Naled	2.7	U	ng/L	P430467	
		Napropamide	0.75	U	ng/L	P430467	
		Norflurazon	1.1	U	ng/L	P430467	
		Oxadiazon	0.38	U	ng/L	P430467	
		Oxyfluorfen	0.22	U	ng/L	P430467	
		Parathion Ethyl	0.16	U	ng/L	P430467	
		Parathion Methyl	0.22	U	ng/L	P430467	
		Pendimethalin	0.86	I	ng/L	P430467	
		Phenytoin**	5.7	U	ng/L	P430467	
		Phorate	0.27	U	ng/L	P430467	
		Prodiamine	0.22	U	ng/L	P430467	
		Prometon	3.2	U	ng/L	P430467	
		Prometryn	0.38	U	ng/L	P430467	
		Pronamide	0.11	U	ng/L	P430467	
		Propanil	0.11	U	ng/L	P430467	
		Propargite	0.86	U	ng/L	P430467	
		Propiconazole	0.65	U	ng/L	P430467	
		Pyraflufen Ethyl	0.32	U	ng/L	P430467	
		Pyridaben	1.5	U	ng/L	P430467	
		Pyriproxyfen	0.27	U	ng/L	P430467	
		Simazine	0.27	U	ng/L	P430467	
		Stirophos	0.43	U	ng/L	P430467	
		Sulfentrazone	1.5	U	ng/L	P430467	
		Tebuconazole	1.5	U	ng/L	P430467	
		Terbufos	0.22	U	ng/L	P430467	
		Terbuthylazine	0.22	U	ng/L	P430467	
		Thiobencarb	0.54	U	ng/L	P430467	
		Triadimefon	0.16	U	ng/L	P430467	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: 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.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P430602

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430604

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430688

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430688

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430674

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

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

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430467

Component	Result	Code	Units
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B
Batch ID: P430640

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: P430649

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P430649

Component	Result	Code	Units
Ibuprofen	0.080	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
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P430788

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

Reference Method: SM 2540 C-2015
Batch ID: P431042

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431015

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P430799

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P430602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430604

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430688

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	105		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	106		P	85 - 115
Sodium	108		P	85 - 115
Strontium	107		P	85 - 115
Tin	104		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430688

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	106		P	85 - 115
Arsenic	103		P	85 - 115
Barium	106		P	85 - 115
Beryllium	98.0		P	85 - 115
Boron	102		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	97.5		P	85 - 115
Cobalt	104		P	85 - 115
Copper	99.4		P	85 - 115
Lead	104		P	85 - 115
Manganese	98.9		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	99.9		P	85 - 115
Selenium	102		P	85 - 115
Silver	105		P	85 - 115
Thallium	99.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430674

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

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

Reference Method: EPA 8270E
Batch ID: P430467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	42 - 162
Acetochlor	92.7		P	69 - 123
Alachlor	90.6		P	65 - 118
Ametryn	96.3		P	58 - 141
Atrazine	88.4		P	73 - 118
Atrazine Desethyl	83.4		P	32 - 125
Avobenzone	135		P	40 - 203
Azinphos Methyl	95.9		P	36 - 197
Azoxystrobin	106		P	58 - 226
Bromacil	86.8		P	48 - 120
Butylate	69.3		P	27 - 85.0
Caffeine	84.4		P	40 - 137
Carbophenothion	121		P	54 - 132
Carfentrazone Ethyl	127		P	60 - 142
Chlorfenapyr	99.4		P	53 - 117
Chlorpyrifos Ethyl	76.2		P	59 - 116

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	116		P	66 - 119
Coumaphos	79.9		P	11 - 234
Cyanazine	133		P	61 - 248
Cyprodinil	94.3		P	50 - 147
Dechlorane 602	87.6		P	50 - 150
Dechlorane 603	129		P	50 - 150
Dechlorane Plus	109		P	47 - 182
Demeton	81.0		P	30 - 138
Diazinon	111		P	67 - 126
Difenoconazole	91.0		P	38 - 205
Dimethenamid	103		P	57 - 111
Dimethomorph	140		P	16 - 212
Disulfoton	106		P	46 - 126
Dithiopyr	120		F	62 - 115
EPTC	63.9		P	28 - 80.0
Ethion	102		P	24 - 122
Ethoprop	97.5		P	62 - 113
Etridiazole	67.9		P	28 - 92.0
Fenamiphos	88.8		P	57 - 128
Fenbuconazole	60.7		P	52 - 155
Fipronil	112		P	63 - 130
Fipronil Desulfinyl	109		P	61 - 130
Fipronil Sulfide	110		P	56 - 117
Fipronil Sulfone	110		P	52 - 118
Fluazifop-P-butyl	79.6		P	61 - 128
Fludioxonil	95.5		P	59 - 129
Flumioxazin	95.5		P	30 - 250
Flutolanil	84.5		P	53 - 127
Fluxapyroxad	106		P	42 - 132
Fonofos	119		F	61 - 110
Hexabromobenzene	137		P	50 - 150
Hexazinone	93.5		P	46 - 139
Imazalil	58.9		P	40 - 139
Iprodione	90.8		P	40 - 146
Loratadine	119		P	10 - 224
Malathion	87.0		P	61 - 135
Metalaxyl	87.9		P	58 - 121
Metolachlor	103		P	64 - 118
Metribuzin	85.9		P	45 - 245
Mevinphos	94.5		P	49 - 118
Molinate	66.0		P	42 - 92.0
Myclobutanil	96.0		P	55 - 127
Naled	41.6		P	10 - 114
Napropamide	97.3		P	39 - 121
Norflurazon	110		P	55 - 129
Octinoxate	126		P	26 - 166
Oxadiazon	80.4		P	54 - 115
Oxybenzone	127		P	49 - 135
Oxyfluorfen	130		P	64 - 139
Parathion Ethyl	96.8		P	70 - 111
Parathion Methyl	95.4		P	76 - 136
PBB-153	128		P	50 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	110		P	41 - 148
PBDE-99	96.9		P	38 - 147
Pendimethalin	109		P	52 - 118
Pentabromotoluene	121		P	50 - 150
Phenytoin	39.7		P	10 - 162
Phorate	104		P	40 - 122
Prodiamine	75.8		P	26 - 141
Prometon	105		P	54 - 122
Prometryn	116		P	61 - 128
Pronamide	102		P	72 - 121
Propanil	86.6		P	45 - 144
Propargite	62.5		P	10 - 199
Propiconazole	90.6		P	56 - 127
Pyraflufen Ethyl	70.9		P	56 - 140
Pyridaben	81.8		P	26 - 211
Pyriproxyfen	80.5		P	33 - 194
Simazine	85.5		P	67 - 121
Stirophos	82.7		P	20 - 142
Sulfentrazone	65.8		P	21 - 144
Tebuconazole	56.2		P	10 - 122
Terbufos	110		P	60 - 129
Terbuthylazine	86.5		P	69 - 113
Tetradecachloro-m-terphenyl	190		P	70 - 200
Thiobencarb	89.8		P	51 - 120
Tri-o-cresyl Phosphate	124		P	49 - 150
Triadimefon	96.6		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	112		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: EPA 8321B
Batch ID: P430640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	113		P	40 - 150
AMPA	110		P	40 - 150
Endothall	93.5		P	40 - 150
Glufosinate	96.2		P	40 - 150
Glyphosate	89.6		P	40 - 150
Sucralose	104		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
2,4,5-T	73.2		P	40 - 150
Acetaminophen	86.4		P	30 - 150
Acetamiprid	68.2		P	40 - 150
Afidopyropen	63.8		P	30 - 150
Bentazon	118		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P430649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	86.4		P	40 - 150
Clothianidin	83.1		P	40 - 150
Dinotefuran	95.4		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	79.7		P	40 - 150
Fluridone	90.6		P	40 - 150
Hydrocodone	83.2		P	40 - 150
Ibuprofen	89.6		P	40 - 150
Imazapyr	102		P	40 - 150
Imidacloprid	78.1		P	40 - 150
Linuron	80.8		P	40 - 150
Mandestrobin	86.1		P	40 - 150
MCPP	88.1		P	40 - 150
Naproxen	45.1		P	40 - 150
Primidone	85.8		P	40 - 150
Pyraclostrobin	69.0		P	40 - 150
Silvex	83.2		P	40 - 150
Thiamethoxam	77.2		P	40 - 150
Tolfenpyrad	48.2		P	30 - 150
Triclopyr	73.1		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P430788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431042

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.3		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430688

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413243	Calcium	103	100	P/P	80 - 120
2413243	Iron	105	103	P/P	80 - 120
2413243	Magnesium	104	102	P/P	80 - 120
2413243	Potassium	105	104	P/P	80 - 120
2413243	Sodium	107		P	80 - 120
2413243	Strontium	102	101	P/P	80 - 120
2413243	Tin	103	103	P/P	80 - 120
2413243	Titanium	102	100	P/P	80 - 120
2413243	Vanadium	103	101	P/P	80 - 120
2413243	Zinc	105	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430688

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413243	Aluminum	101	102	P/P	80 - 120
2413243	Antimony	106	107	P/P	80 - 120
2413243	Arsenic	102	104	P/P	80 - 120
2413243	Barium	106	108	P/P	80 - 120
2413243	Beryllium	98.5	101	P/P	80 - 120
2413243	Boron	100	101	P/P	80 - 120
2413243	Cadmium	105	103	P/P	80 - 120
2413243	Chromium	98.4	99.2	P/P	80 - 120
2413243	Cobalt	103	105	P/P	80 - 120
2413243	Copper	100	102	P/P	80 - 120
2413243	Lead	105	107	P/P	80 - 120
2413243	Manganese	98.4	99.8	P/P	80 - 120
2413243	Molybdenum	100	102	P/P	80 - 120
2413243	Nickel	98.8	101	P/P	80 - 120
2413243	Selenium	102	104	P/P	80 - 120
2413243	Silver	106	107	P/P	80 - 120
2413243	Thallium	103	106	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413402	Chloride	103		P	90 - 110
2414251	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413402	Sulfate	96.9		P	90 - 110
2414251	Sulfate	98.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413417	Ammonia-N	99.8	101	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2412656	Kjeldahl Nitrogen	107	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413403	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430674

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413417	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413404	O-Phosphate-P	102	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P430467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413209	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121	131	P/P	26 - 165
2413209	Acetochlor	85.0	95.1	P/P	67 - 124
2413209	Alachlor	93.2	96.1	P/P	60 - 120
2413209	Ametryn	132	156	P/P	54 - 216
2413209	Avobenzone	169	179	P/F	37 - 178
2413209	Azinphos Methyl	102	102	P/P	40 - 292
2413209	Bromacil	89.5	100	P/P	45 - 127
2413209	Butylate	67.4	70.4	P/P	20 - 83.0
2413209	Caffeine	93.0	95.4	P/P	10 - 194
2413209	Carbophenothion	126	124	P/P	57 - 127
2413209	Carfentrazone Ethyl	126	125	P/P	51 - 141
2413209	Chlorfenapyr	93.6	93.3	P/P	46 - 111
2413209	Chlorpyrifos Ethyl	83.1	86.2	P/P	52 - 120
2413209	Chlorpyrifos Methyl	120	124	F/F	63 - 119
2413209	Coumaphos	115	125	P/P	10 - 228
2413209	Cyanazine	139	160	P/P	59 - 241
2413209	Cyprodinil	106	108	P/P	47 - 146
2413209	Dechlorane 602	79.9	98.6	P/P	50 - 150
2413209	Dechlorane 603	131	122	P/P	50 - 150
2413209	Dechlorane Plus	85.2	89.2	P/P	50 - 150
2413209	Demeton	79.6	84.0	P/P	40 - 136
2413209	Diazinon	121	134	P/F	69 - 132
2413209	Difenoconazole	145	150	P/P	57 - 258
2413209	Dimethenamid	109	122	P/F	54 - 110
2413209	Dimethomorph	169	147	P/P	28 - 210
2413209	Disulfoton	100	114	P/P	43 - 133
2413209	Dithiopyr	136	127	F/F	39 - 116
2413209	EPTC	58.2	59.9	P/P	20 - 78.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413209	Ethion	130	137	F/F	17 - 119
2413209	Ethoprop	99.1	107	P/P	66 - 120
2413209	Etridiazole	71.0	71.1	P/P	28 - 96.0
2413209	Fenamiphos	91.3	88.0	P/P	41 - 126
2413209	Fenbuconazole	88.6	88.7	P/P	42 - 169
2413209	Fipronil	146	142	F/F	61 - 132
2413209	Fluazifop-P-butyl	79.2	76.5	P/P	53 - 131
2413209	Flumioxazin	169	178	P/P	19 - 300
2413209	Flutolanil	64.3	65.5	P/P	41 - 127
2413209	Fluxapyroxad	104	131	P/P	42 - 172
2413209	Fonofos	123	136	F/F	59 - 113
2413209	Hexabromobenzene	150	149	P/P	50 - 150
2413209	Hexazinone	113	114	P/P	66 - 122
2413209	Imazalil	93.2	87.6	P/P	21 - 283
2413209	Iprodione	88.0	95.0	P/P	43 - 150
2413209	Loratadine	182	184	P/P	23 - 201
2413209	Malathion	82.6	93.6	P/P	58 - 136
2413209	Mevinphos	98.5	106	P/P	50 - 126
2413209	Molinate	65.9	66.4	P/P	42 - 93.0
2413209	Myclobutanil	106	110	P/P	55 - 125
2413209	Naled	49.5	49.0	P/P	18 - 200
2413209	Napropamide	93.2	93.8	P/P	39 - 110
2413209	Norflurazon	100	97.8	P/P	48 - 128
2413209	Octinoxate	131	133	P/P	21 - 159
2413209	Oxybenzone	138	142	P/P	41 - 142
2413209	Oxyfluorfen	137	132	P/P	64 - 153
2413209	Parathion Ethyl	109	102	P/P	69 - 114
2413209	Parathion Methyl	86.0	99.2	P/P	79 - 139
2413209	PBB-153	148	151	P/F	50 - 150
2413209	PBDE-47	111	125	P/P	27 - 144
2413209	PBDE-99	102	114	P/P	18 - 150
2413209	Pendimethalin	102	106	P/P	50 - 139
2413209	Pentabromotoluene	133	137	P/P	50 - 150
2413209	Phenytoin	51.8	61.9	P/P	10 - 146
2413209	Phorate	126	137	P/P	54 - 161
2413209	Prodiamine	79.6	92.0	P/P	30 - 161
2413209	Prometon	102	110	P/P	45 - 134
2413209	Prometryn	119	115	P/P	45 - 137
2413209	Pronamide	106	116	P/P	65 - 133
2413209	Propanil	87.2	90.9	P/P	49 - 142
2413209	Propargite	63.2	60.2	P/P	10 - 203
2413209	Propiconazole	109	106	P/P	38 - 146
2413209	Pyraflufen Ethyl	72.0	67.0	P/P	34 - 153
2413209	Pyridaben	128	112	P/P	12 - 192
2413209	Pyriproxyfen	89.1	95.1	P/P	33 - 180
2413209	Stirophos	80.3	85.8	P/P	10 - 128
2413209	Tebuconazole	49.7	60.0	P/P	10 - 133
2413209	Terbufos	115	129	P/P	65 - 139
2413209	Tetradecachloro-m-terphenyl	212	196	F/P	70 - 200
2413209	Thiobencarb	85.0	95.2	P/P	51 - 119
2413209	Tri-o-cresyl Phosphate	129	129	P/P	31 - 144
2413209	Triadimefon	90.5	112	P/P	48 - 119

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413209	Tris(1-chloro-2-propyl) phosphate (TCPP)	93.4	110	P/P	50 - 150
2413209	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	123	P/P	50 - 150
2413209	Tris(2-chloroethyl) phosphate (TCEP)	126	132	P/P	70 - 180

Reference Method: EPA 8321B
Batch ID: P430640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413241	Acesulfame K	116	117	P/P	40 - 150
2413241	AMPA	94.5	92.1	P/P	40 - 150
2413241	Endothall	94.8	91.2	P/P	40 - 150
2413241	Glufosinate	82.2	85.9	P/P	40 - 150
2413241	Glyphosate	81.1	86.0	P/P	40 - 150
2413241	Sucralose	126	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413433	2,4-D	97.5	95.5	P/P	40 - 150
2413433	2,4,5-T	84.5	89.9	P/P	40 - 150
2413433	Acetaminophen	93.7	86.9	P/P	30 - 150
2413433	Acetamiprid	44.4	55.8	P/P	40 - 150
2413433	Afidopyropen	52.6	69.4	P/P	30 - 150
2413433	Bentazon	79.6	84.6	P/P	30 - 150
2413433	Benzovindiflupyr	84.4	76.5	P/P	40 - 150
2413433	Carbamazepine	73.1	72.2	P/P	40 - 150
2413433	Clothianidin	83.3	80.7	P/P	40 - 150
2413433	Dinotefuran	69.7	65.7	P/P	40 - 150
2413433	Diuron	88.4	82.3	P/P	40 - 150
2413433	Fenuron	55.3	55.4	P/P	40 - 150
2413433	Fluridone	82.7	74.3	P/P	40 - 150
2413433	Hydrocodone	65.4	63.9	P/P	40 - 150
2413433	Ibuprofen	47.6	57.7	P/P	40 - 150
2413433	Imazapyr	95.3	91.0	P/P	40 - 150
2413433	Imidacloprid	109	103	P/P	40 - 150
2413433	Linuron	77.2	78.7	P/P	40 - 150
2413433	Mandestrobin	80.8	83.2	P/P	40 - 150
2413433	MCPP	82.9	82.4	P/P	40 - 150
2413433	Naproxen	54.3	42.9	P/P	40 - 150
2413433	Primidone	84.3	76.6	P/P	40 - 150
2413433	Pyraclostrobin	79.6	79.0	P/P	40 - 150
2413433	Silvex	73.4	77.5	P/P	40 - 150
2413433	Thiamethoxam	72.7	73.5	P/P	40 - 150
2413433	Tolfenpyrad	54.1	46.5	P/P	30 - 150
2413433	Triclopyr	79.4	76.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414566	Fluoride	103	103	P/P	94 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P430799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413410	Organic Carbon	94.4	98.2	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413402	Color (true)	1.41	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413237	Turbidity	3.54	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413243	Calcium	1.53	Spike	P	0 - 20
2413243	Iron	1.30	Spike	P	0 - 20
2413243	Magnesium	1.19	Spike	P	0 - 20
2413243	Potassium	1.36	Spike	P	0 - 20
2413243	Sodium	1.48	Spike	P	0 - 20
2413243	Strontium	0.978	Spike	P	0 - 20
2413243	Tin	0.451	Spike	P	0 - 20
2413243	Titanium	1.63	Spike	P	0 - 20
2413243	Vanadium	1.33	Spike	P	0 - 20
2413243	Zinc	0.140	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413243	Aluminum	0.769	Spike	P	0 - 20
2413243	Antimony	1.07	Spike	P	0 - 20
2413243	Arsenic	1.88	Spike	P	0 - 20
2413243	Barium	1.69	Spike	P	0 - 20
2413243	Beryllium	2.18	Spike	P	0 - 20
2413243	Boron	0.589	Spike	P	0 - 20
2413243	Cadmium	1.60	Spike	P	0 - 20
2413243	Chromium	0.785	Spike	P	0 - 20
2413243	Cobalt	1.59	Spike	P	0 - 20
2413243	Copper	1.70	Spike	P	0 - 20
2413243	Lead	1.03	Spike	P	0 - 20
2413243	Manganese	1.11	Spike	P	0 - 20
2413243	Molybdenum	1.61	Spike	P	0 - 20
2413243	Nickel	1.97	Spike	P	0 - 20
2413243	Selenium	1.66	Spike	P	0 - 20
2413243	Silver	1.39	Spike	P	0 - 20
2413243	Thallium	2.51	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413402	Chloride	1.99	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413402	Sulfate	2.95	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413417	Ammonia-N	1.09	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2412656	Kjeldahl Nitrogen	3.09	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413403	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413417	Total-P	0.536	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P430608

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413404	O-Phosphate-P	0.685	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P430467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413209	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.23	Spike	P	0 - 37
2413209	Acetochlor	11.3	Spike	P	0 - 28

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413209	Alachlor	3.01	Spike	P	0 - 30
2413209	Ametryn	16.9	Spike	P	0 - 32
2413209	Atrazine	6.79	Spike	P	0 - 41
2413209	Atrazine Desethyl	1.67	Spike	P	0 - 36
2413209	Avobenzone	5.80	Spike	P	0 - 36
2413209	Azinphos Methyl	0.615	Spike	P	0 - 75
2413209	Azoxystrobin	1.20	Spike	P	0 - 39
2413209	Bromacil	11.0	Spike	P	0 - 33
2413209	Butylate	4.46	Spike	P	0 - 44
2413209	Caffeine	2.57	Spike	P	0 - 74
2413209	Carbophenothion	1.65	Spike	P	0 - 25
2413209	Carfentrazone Ethyl	1.16	Spike	P	0 - 27
2413209	Chlorfenapyr	0.401	Spike	P	0 - 24
2413209	Chlorpyrifos Ethyl	3.71	Spike	P	0 - 26
2413209	Chlorpyrifos Methyl	3.85	Spike	P	0 - 26
2413209	Coumaphos	8.23	Spike	P	0 - 28
2413209	Cyanazine	13.9	Spike	P	0 - 48
2413209	Cyprodinil	1.44	Spike	P	0 - 29
2413209	Dechlorane 602	20.9	Spike	P	0 - 30
2413209	Dechlorane 603	7.30	Spike	P	0 - 30
2413209	Dechlorane Plus	4.61	Spike	P	0 - 30
2413209	Demeton	5.39	Spike	P	0 - 33
2413209	Diazinon	10.3	Spike	P	0 - 29
2413209	Difenoconazole	3.45	Spike	P	0 - 34
2413209	Dimethenamid	7.36	Spike	P	0 - 39
2413209	Dimethomorph	14.0	Spike	P	0 - 51
2413209	Disulfoton	13.2	Spike	P	0 - 30
2413209	Dithiopyr	6.78	Spike	P	0 - 26
2413209	EPTC	2.93	Spike	P	0 - 43
2413209	Ethion	5.52	Spike	P	0 - 79
2413209	Ethoprop	8.12	Spike	P	0 - 29
2413209	Etridiazole	0.143	Spike	P	0 - 33
2413209	Fenamiphos	3.61	Spike	P	0 - 40
2413209	Fenbuconazole	0.108	Spike	P	0 - 74
2413209	Fipronil	2.06	Spike	P	0 - 29
2413209	Fipronil Desulfinyl	11.3	Spike	P	0 - 32
2413209	Fipronil Sulfide	0.965	Spike	P	0 - 30
2413209	Fipronil Sulfone	1.22	Spike	P	0 - 33
2413209	Fluazifop-P-butyl	3.52	Spike	P	0 - 38
2413209	Fludioxonil	2.90	Spike	P	0 - 29
2413209	Flumioxazin	5.27	Spike	P	0 - 51
2413209	Flutolanil	1.32	Spike	P	0 - 25
2413209	Fluxapyroxad	13.6	Spike	P	0 - 45
2413209	Fonofos	10.3	Spike	P	0 - 27
2413209	Hexabromobenzene	0.693	Spike	P	0 - 30
2413209	Hexazinone	0.539	Spike	P	0 - 30
2413209	Imazalil	6.16	Spike	P	0 - 100
2413209	Iprodione	7.59	Spike	P	0 - 33
2413209	Loratadine	1.36	Spike	P	0 - 56
2413209	Malathion	12.5	Spike	P	0 - 37
2413209	Metalaxyl	6.85	Spike	P	0 - 40

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413209	Metolachlor	1.57	Spike	P	0 - 29
2413209	Metribuzin	10.2	Spike	P	0 - 45
2413209	Mevinphos	7.15	Spike	P	0 - 29
2413209	Molinate	0.681	Spike	P	0 - 33
2413209	Myclobutanil	3.82	Spike	P	0 - 26
2413209	Naled	1.01	Spike	P	0 - 37
2413209	Napropamide	0.677	Spike	P	0 - 44
2413209	Norflurazon	2.27	Spike	P	0 - 30
2413209	Octinoxate	1.24	Spike	P	0 - 45
2413209	Oxadiazon	2.25	Spike	P	0 - 28
2413209	Oxybenzone	2.41	Spike	P	0 - 46
2413209	Oxyfluorfen	4.22	Spike	P	0 - 28
2413209	Parathion Ethyl	6.18	Spike	P	0 - 31
2413209	Parathion Methyl	14.2	Spike	P	0 - 29
2413209	PBB-153	1.94	Spike	P	0 - 30
2413209	PBDE-47	11.7	Spike	P	0 - 36
2413209	PBDE-99	10.8	Spike	P	0 - 40
2413209	Pendimethalin	4.01	Spike	P	0 - 33
2413209	Pentabromotoluene	2.32	Spike	P	0 - 30
2413209	Phenytoin	17.7	Spike	P	0 - 100
2413209	Phorate	7.98	Spike	P	0 - 36
2413209	Prodiamine	14.5	Spike	P	0 - 71
2413209	Prometon	7.02	Spike	P	0 - 36
2413209	Prometryn	3.52	Spike	P	0 - 28
2413209	Pronamide	8.20	Spike	P	0 - 24
2413209	Propanil	4.13	Spike	P	0 - 28
2413209	Propargite	4.78	Spike	P	0 - 43
2413209	Propiconazole	3.37	Spike	P	0 - 33
2413209	Pyraflufen Ethyl	7.21	Spike	P	0 - 29
2413209	Pyridaben	12.8	Spike	P	0 - 30
2413209	Pyriproxyfen	6.54	Spike	P	0 - 79
2413209	Simazine	3.39	Spike	P	0 - 29
2413209	Stirophos	6.73	Spike	P	0 - 61
2413209	Sulfentrazone	0.197	Spike	P	0 - 33
2413209	Tebuconazole	18.7	Spike	P	0 - 69
2413209	Terbufos	11.9	Spike	P	0 - 29
2413209	Terbuthylazine	12.9	Spike	P	0 - 32
2413209	Tetradecachloro-m-terphenyl	7.70	Spike	P	0 - 30
2413209	Thiobencarb	11.3	Spike	P	0 - 26
2413209	Tri-o-cresyl Phosphate	0.616	Spike	P	0 - 33
2413209	Triadimefon	20.9	Spike	P	0 - 28
2413209	Tris(1-chloro-2-propyl) phosphate (TCPP)	15.8	Spike	P	0 - 30
2413209	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.39	Spike	P	0 - 30
2413209	Tris(2-chloroethyl) phosphate (TCEP)	4.69	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413241	Acesulfame K	0.959	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P430640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413241	AMPA	2.55	Spike	P	0 - 30
2413241	Endothall	3.87	Spike	P	0 - 30
2413241	Glufosinate	4.44	Spike	P	0 - 30
2413241	Glyphosate	5.86	Spike	P	0 - 30
2413241	Sucralose	18.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413433	2,4-D	1.64	Spike	P	0 - 30
2413433	2,4,5-T	6.22	Spike	P	0 - 30
2413433	Acetaminophen	7.51	Spike	P	0 - 30
2413433	Acetamiprid	22.9	Spike	P	0 - 30
2413433	Afidopyropen	27.5	Spike	P	0 - 30
2413433	Bentazon	6.10	Spike	P	0 - 30
2413433	Benzovindiflupyr	9.79	Spike	P	0 - 30
2413433	Carbamazepine	1.29	Spike	P	0 - 30
2413433	Clothianidin	3.17	Spike	P	0 - 30
2413433	Dinotefuran	5.89	Spike	P	0 - 30
2413433	Diuron	7.14	Spike	P	0 - 30
2413433	Fenuron	0.0396	Spike	P	0 - 30
2413433	Fluridone	10.6	Spike	P	0 - 30
2413433	Hydrocodone	2.28	Spike	P	0 - 30
2413433	Ibuprofen	19.2	Spike	P	0 - 30
2413433	Imazapyr	4.53	Spike	P	0 - 30
2413433	Imidacloprid	4.91	Spike	P	0 - 30
2413433	Linuron	1.94	Spike	P	0 - 30
2413433	Mandestrobin	2.91	Spike	P	0 - 30
2413433	MCPP	0.530	Spike	P	0 - 30
2413433	Naproxen	23.4	Spike	P	0 - 30
2413433	Primidone	9.63	Spike	P	0 - 30
2413433	Pyraclostrobin	0.862	Spike	P	0 - 30
2413433	Silvex	5.37	Spike	P	0 - 30
2413433	Thiamethoxam	1.22	Spike	P	0 - 30
2413433	Tolfenpyrad	15.2	Spike	P	0 - 30
2413433	Triclopyr	3.78	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P430788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413791	Total Alkalinity	0.348	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P431042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413223	TDS	4.68	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414566	Fluoride	0.503	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P430799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413410	Organic Carbon	2.53	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2413433
Field Sample ID: G4NW0014

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	109	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.4	P	30 - 160
EPA 8321B	Diuron-d6	84.3	P	30 - 160
EPA 8321B	Endothall-d6	98.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.8	P	30 - 160
EPA 8321B	Primidone-d5	89.8	P	30 - 160
EPA 8321B	Sucralose-d6	96.6	P	30 - 160

Lab Sample ID: 2413435
Field Sample ID: G4NW0014

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	109	P	20 - 200
EPA 8270E	Simazine-d10	91.9	P	62 - 142
EPA 8270E	Terbufos-d10	99.5	P	58 - 132
EPA 8270E	Terphenyl-d14	86.5	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A119489
Included Lab Sample IDs: 2413416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	97.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119490
Included Lab Sample IDs: 2413416

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A119493
Included Lab Sample IDs: 2413418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119553
Included Lab Sample IDs: 2413417

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A119557
Included Lab Sample IDs: 2413434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Iron	103	104	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Potassium	104	105	P/P	90 - 110
Sodium	105	108	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119560
Included Lab Sample IDs: 2413434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	102	P/P	90 - 110
Antimony	105	104	P/P	90 - 110
Arsenic	103	101	P/P	90 - 110
Barium	104	102	P/P	90 - 110
Beryllium	101	99.5	P/P	90 - 110
Boron	95.6	100	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Chromium	99.7	100	P/P	90 - 110
Cobalt	104	104	P/P	90 - 110
Copper	99.4	98.6	P/P	90 - 110
Lead	103	104	P/P	90 - 110
Manganese	99.5	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119560
Included Lab Sample IDs: 2413434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molybdenum	101	99.3	P/P	90 - 110
Nickel	101	99.5	P/P	90 - 110
Selenium	103	100	P/P	90 - 110
Silver	106	105	P/P	90 - 110
Thallium	102	103	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A119566
Included Lab Sample IDs: 2413416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	97.6	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A119574
Included Lab Sample IDs: 2413417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	97.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119578
Included Lab Sample IDs: 2413417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	98.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119586
Included Lab Sample IDs: 2413433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.2	93.7	P/P	50 - 150
2,4,5-T	81.7	93.2	P/P	50 - 150
Acetaminophen	97.6	100	P/P	60 - 160
Acetamiprid	92.0	95.7	P/P	50 - 150
Afidopyropen	93.2	104	P/P	50 - 150
Bentazon	138	138	P/P	50 - 160
Benzovindiflupyr	99.8	102	P/P	50 - 150
Carbamazepine	99.4	109	P/P	60 - 150
Clothianidin	90.8	92.3	P/P	60 - 150
Dinotefuran	105	105	P/P	50 - 150
Diuron	126	118	P/P	60 - 160
Fenuron	93.5	97.8	P/P	60 - 150
Fluridone	108	110	P/P	60 - 160
Hydrocodone	98.0	106	P/P	60 - 150
Ibuprofen	139	202*	P/F	50 - 160
Imazapyr	114	123	P/P	50 - 150
Imidacloprid	88.8	89.1	P/P	60 - 150
Linuron	110	98.9	P/P	60 - 150
Mandestrobin	108	107	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119586
Included Lab Sample IDs: 2413433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MCPP	80.3	91.4	P/P	50 - 150
Naproxen	95.2	61.2	P/P	50 - 160
Primidone	95.4	95.0	P/P	60 - 150
Pyraclostrobin	93.5	98.9	P/P	60 - 150
Silvex	92.3	90.5	P/P	50 - 150
Thiamethoxam	88.6	98.3	P/P	50 - 150
Tolfenpyrad	87.9	92.0	P/P	60 - 150
Triclopyr	70.1	67.3	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A119591
Included Lab Sample IDs: 2413435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102		P	80 - 120
Avobenzone	107		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	98.8		P	80 - 120
Dechlorane Plus	97.5		P	80 - 120
Hexabromobenzene	101		P	80 - 120
Octinoxate	98.9		P	80 - 120
Oxybenzone	99.1		P	80 - 120
PBB-153	102		P	80 - 120
PBDE-47	97.4		P	80 - 120
PBDE-99	103		P	80 - 120
Pentabromotoluene	98.8		P	80 - 120
Tetradecachloro-m-terphenyl	111		P	80 - 120
Tri-o-cresyl Phosphate	98.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	83.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.9		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119594
Included Lab Sample IDs: 2413417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	98.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119605
Included Lab Sample IDs: 2413416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.9	96.1	P/P	90 - 110
Sulfate	97.9	98.1	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119628
Included Lab Sample IDs: 2413417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	105	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119630
Included Lab Sample IDs: 2413433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	143	140	P/P	60 - 160
Sucralose	105	108	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119635
Included Lab Sample IDs: 2413433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	113	108	P/P	60 - 160
Endothall	154	142	P/P	60 - 160
Glufosinate	103	101	P/P	60 - 160
Glyphosate	131	132	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A119664
Included Lab Sample IDs: 2413435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.7		P	80 - 120
Alachlor	87.4		P	80 - 120
Ametryn	98.0		P	80 - 120
Atrazine	89.1		P	80 - 120
Atrazine Desethyl	97.3		P	80 - 120
Azinphos Methyl	87.8		P	80 - 120
Azoxystrobin	99.4		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	85.5		P	80 - 120
Carbophenothion	95.3		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	86.0		P	80 - 120
Chlorpyrifos Ethyl	88.9		P	80 - 120
Chlorpyrifos Methyl	93.6		P	80 - 120
Coumaphos	94.9		P	80 - 120
Cyanazine	108		P	80 - 120
Cyprodinil	92.3		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	97.7		P	80 - 120
Difenoconazole	89.7		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	87.1		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	97.5		P	80 - 120
EPTC	98.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119664
Included Lab Sample IDs: 2413435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethion	86.6		P	80 - 120
Ethoprop	98.7		P	80 - 120
Etridiazole	97.3		P	80 - 120
Fenamiphos	95.7		P	80 - 120
Fenbuconazole	86.6		P	80 - 120
Fipronil	88.8		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	97.9		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	97.6		P	80 - 120
Flumioxazin	92.3		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	97.7		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	95.0		P	80 - 120
Iprodione	84.3		P	80 - 120
Loratadine	81.3		P	80 - 120
Malathion	83.3		P	80 - 120
Metalaxyl	85.0		P	80 - 120
Metolachlor	99.4		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	88.5		P	80 - 120
Molinate	88.4		P	80 - 120
Myclobutanil	98.5		P	80 - 120
Naled	91.1		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	98.6		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	92.5		P	80 - 120
Pendimethalin	113		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	98.3		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	99.2		P	80 - 120
Prometryn	95.2		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	84.9		P	80 - 120
Propargite	94.2		P	80 - 120
Propiconazole	85.9		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	96.3		P	80 - 120
Simazine	87.5		P	80 - 120
Stirophos	88.1		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	97.8		P	80 - 120
Terbufos	97.8		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119664
Included Lab Sample IDs: 2413435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbuthylazine	87.6		P	80 - 120
Thiobencarb	95.9		P	80 - 120
Triadimefon	104		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A119677
Included Lab Sample IDs: 2413434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	98.8	99.4	P/P	95 - 105
Tin	102	102	P/P	95 - 105
Titanium	101	101	P/P	95 - 105
Vanadium	101	101	P/P	95 - 105
Zinc	102	105	P/P	95 - 105

Reference Method: SM 4500-F- C-2011
Run ID: A119876
Included Lab Sample IDs: 2413416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	102	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
DEP SOP: NU-094-1	Color (true)	99.3				1.41	
EPA 180.1 Rev. 2.0	Turbidity	99.4				3.54	
EPA 200.7 Rev. 4.4	Calcium	104	103	100			1.53
	Iron	105	105	103			1.30
	Magnesium	104	104	102			1.19
	Potassium	106	105	104			1.36
	Sodium	108	107				1.48
	Strontium	107	102	101			0.978
	Tin	104	103	103			0.451
	Titanium	102	102	100			1.63
	Vanadium	101	103	101			1.33
	Zinc	103	105	105			0.140
EPA 200.8 Rev. 5.4	Aluminum	101	101	102			0.769
	Antimony	106	106	107			1.07
	Arsenic	103	102	104			1.88
	Barium	106	106	108			1.69
	Beryllium	98.0	98.5	101			2.18
	Boron	102	100	101			0.589
	Cadmium	102	105	103			1.60
	Chromium	97.5	98.4	99.2			0.785
	Cobalt	104	103	105			1.59
	Copper	99.4	100	102			1.70
	Lead	104	105	107			1.03
	Manganese	98.9	98.4	99.8			1.11
	Molybdenum	100	100	102			1.61
	Nickel	99.9	98.8	101			1.97
	Selenium	102	102	104			1.66
	Silver	105	106	107			1.39
	Thallium	99.6	103	106			2.51
EPA 300.0 Rev. 2.1	Chloride	98.3	103	103		1.99	
	Sulfate	97.0	96.9	98.5		2.95	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	99.8	101			1.09
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109	107	102			3.09
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	101	103	103			0.536
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	102	102			0.685
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	121	131			8.23
	Acetochlor	92.7	85.0	95.1			11.3
	Alachlor	90.6	93.2	96.1			3.01
	Ametryn	96.3	132	156			16.9
	Atrazine	88.4					6.79
	Atrazine Desethyl	83.4					1.67
	Avobenzone	135	169	179			5.80
	Azinphos Methyl	95.9	102	102			0.615
	Azoxystrobin	106					1.20
	Bromacil	86.8	89.5	100			11.0
	Butylate	69.3	67.4	70.4			4.46
	Caffeine	84.4	93.0	95.4			2.57
	Carbophenothion	121	126	124			1.65
	Carfentrazone Ethyl	127	126	125			1.16
	Chlorfenapyr	99.4	93.6	93.3			0.401
	Chlorpyrifos Ethyl	76.2	83.1	86.2			3.71

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Chlorpyrifos Methyl	116	120	124			3.85
	Coumaphos	79.9	115	125			8.23
	Cyanazine	133	139	160			13.9
	Cyprodinil	94.3	106	108			1.44
	Dechlorane 602	87.6	79.9	98.6			20.9
	Dechlorane 603	129	131	122			7.30
	Dechlorane Plus	109	85.2	89.2			4.61
	Demeton	81.0	79.6	84.0			5.39
	Diazinon	111	121	134			10.3
	Difenoconazole	91.0	145	150			3.45
	Dimethenamid	103	109	122			7.36
	Dimethomorph	140	169	147			14.0
	Disulfoton	106	100	114			13.2
	Dithiopyr	120	136	127			6.78
	EPTC	63.9	58.2	59.9			2.93
	Ethion	102	130	137			5.52
	Ethoprop	97.5	99.1	107			8.12
	Etridiazole	67.9	71.0	71.1			0.143
	Fenamiphos	88.8	91.3	88.0			3.61
	Fenbuconazole	60.7	88.6	88.7			0.108
	Fipronil	112	146	142			2.06
	Fipronil Desulfinyl	109					11.3
	Fipronil Sulfide	110					0.965
	Fipronil Sulfone	110					1.22
	Fluazifop-P-butyl	79.6	79.2	76.5			3.52
	Fludioxonil	95.5					2.90
	Flumioxazin	95.5	169	178			5.27
	Flutolanil	84.5	64.3	65.5			1.32
	Fluxapyroxad	106	104	131			13.6
	Fonofos	119	123	136			10.3
	Hexabromobenzene	137	150	149			0.693
	Hexazinone	93.5	113	114			0.539
	Imazalil	58.9	93.2	87.6			6.16
	Iprodione	90.8	88.0	95.0			7.59
	Loratadine	119	182	184			1.36
	Malathion	87.0	82.6	93.6			12.5
	Metalaxyl	87.9					6.85
	Metolachlor	103					1.57
	Metribuzin	85.9					10.2
	Mevinphos	94.5	98.5	106			7.15
	Molinate	66.0	65.9	66.4			0.681
	Myclobutanil	96.0	106	110			3.82
	Naled	41.6	49.5	49.0			1.01
	Napropamide	97.3	93.2	93.8			0.677
	Norflurazon	110	100	97.8			2.27
	Octinoxate	126	131	133			1.24
	Oxadiazon	80.4					2.25
	Oxybenzone	127	138	142			2.41
	Oxyfluorfen	130	137	132			4.22
	Parathion Ethyl	96.8	109	102			6.18
	Parathion Methyl	95.4	86.0	99.2			14.2
	PBB-153	128	148	151			1.94
	PBDE-47	110	111	125			11.7
	PBDE-99	96.9	102	114			10.8

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Pendimethalin	109	102	106			4.01
	Pentabromotoluene	121	133	137			2.32
	Phenytoin	39.7	51.8	61.9			17.7
	Phorate	104	126	137			7.98
	Prodiamine	75.8	79.6	92.0			14.5
	Prometon	105	102	110			7.02
	Prometryn	116	119	115			3.52
	Pronamide	102	106	116			8.20
	Propanil	86.6	87.2	90.9			4.13
	Propargite	62.5	63.2	60.2			4.78
	Propiconazole	90.6	109	106			3.37
	Pyraflufen Ethyl	70.9	72.0	67.0			7.21
	Pyridaben	81.8	128	112			12.8
	Pyriproxyfen	80.5	89.1	95.1			6.54
	Simazine	85.5					3.39
	Stirophos	82.7	80.3	85.8			6.73
	Sulfentrazone	65.8					0.197
	Tebuconazole	56.2	49.7	60.0			18.7
	Terbufos	110	115	129			11.9
	Terbuthylazine	86.5					12.9
	Tetradecachloro-m-terphenyl	190	212	196			7.70
	Thiobencarb	89.8	85.0	95.2			11.3
	Tri-o-cresyl Phosphate	124	129	129			0.616
	Triadimefon	96.6	90.5	112			20.9
	Tris(1-chloro-2-propyl) phosphate (TCPP)	112	93.4	110			15.8
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113	119	123			3.39
	Tris(2-chloroethyl) phosphate (TCEP)	117	126	132			4.69
EPA 8321B	2,4-D	113	97.5	95.5			1.64
	2,4,5-T	73.2	84.5	89.9			6.22
	Acesulfame K	113	116	117			0.959
	Acetaminophen	86.4	93.7	86.9			7.51
	Acetamiprid	68.2	44.4	55.8			22.9
	Afidopyropen	63.8	52.6	69.4			27.5
	AMPA	110	94.5	92.1			2.55
	Bentazon	118	79.6	84.6			6.10
	Benzovindiflupyr	81.4	84.4	76.5			9.79
	Carbamazepine	86.4	73.1	72.2			1.29
	Clothianidin	83.1	83.3	80.7			3.17
	Dinotefuran	95.4	69.7	65.7			5.89
	Diuron	104	88.4	82.3			7.14
	Endothall	93.5	94.8	91.2			3.87
	Fenuron	79.7	55.3	55.4			0.0396
	Fluridone	90.6	82.7	74.3			10.6
	Glufosinate	96.2	82.2	85.9			4.44
	Glyphosate	89.6	81.1	86.0			5.86
	Hydrocodone	83.2	65.4	63.9			2.28
	Ibuprofen	89.6	47.6	57.7			19.2
	Imazapyr	102	95.3	91.0			4.53
	Imidacloprid	78.1	109	103			4.91
	Linuron	80.8	77.2	78.7			1.94
	Mandestrobin	86.1	80.8	83.2			2.91

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	MCPP	88.1	82.9	82.4			0.530
	Naproxen	45.1	54.3	42.9			23.4
	Primidone	85.8	84.3	76.6			9.63
	Pyraclostrobin	69.0	79.6	79.0			0.862
	Silvex	83.2	73.4	77.5			5.37
	Sucralose	104	126	104			18.3
	Thiamethoxam	77.2	72.7	73.5			1.22
	Tolfenpyrad	48.2	54.1	46.5			15.2
	Triclopyr	73.1	79.4	76.5			3.78
SM 2320 B-2011	Total Alkalinity	96.1				0.348	
SM 2540 C-2015	TDS	96.3				4.68	
SM 2540 D-2015	TSS	95.3					
SM 4500-F- C-2011	Fluoride	98.3	103	103			0.503
SM 5310 B-2011	Organic Carbon	95.2	94.4	98.2			2.53

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2413416
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2413416
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2413434
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2413434
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2413416
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2413416
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2413417
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2413417
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2413417
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2413417
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2413418
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2413435
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2413435
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2413433
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2413416
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2413434
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2413416
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2413416
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2413416
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2413417

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	05/31/2023			05/31/2023 13:39	Alexis Price	2413416
EPA 180.1 Rev. 2.0	05/31/2023			05/31/2023 13:42	Anna M. Plaviak	2413416
EPA 200.7 Rev. 4.4	05/31/2023	06/01/2023 11:50	George D Taylor	06/03/2023 01:51	McKinley C Carter	2413434
	05/31/2023	06/01/2023 11:50	George D Taylor	06/08/2023 17:03	McKinley C Carter	2413434
EPA 200.8 Rev. 5.4	05/31/2023	06/01/2023 11:50	George D Taylor	06/02/2023 17:31	Conrad Hartmann	2413434
EPA 300.0 Rev. 2.1	05/31/2023			06/07/2023 13:51	James L Waggerby	2413416
EPA 350.1 Rev. 2.0	05/31/2023			06/05/2023 12:20	Khloe J Berg	2413417
EPA 351.2 Rev. 2.0	05/31/2023	06/05/2023 10:57	Simonne.V. Calhoun	06/06/2023 10:20	Samantha L Bates	2413417
EPA 353.2 Rev. 2.0	05/31/2023			06/07/2023 09:43	Beverly Y. Sanders	2413417
EPA 365.1 Rev. 2.0	05/31/2023	06/01/2023 11:40	Alexis Price	06/02/2023 14:11	Simonne.V. Calhoun	2413417
EPA 365.1 Rev. 2.0 dissolved	05/31/2023			05/31/2023 14:54	Elise M. Gillis	2413418
EPA 8270E	05/31/2023	06/01/2023 08:00	Fe-Val Siddell	06/04/2023 01:40	Arthur Maknenko	2413435
	05/31/2023	06/01/2023 08:00	Fe-Val Siddell	06/04/2023 20:55	Vandana T. Nagar	2413435
EPA 8321B	05/31/2023	06/02/2023 09:00	Hoor Shaik	06/06/2023 16:56	Juyoung Kim	2413433
	05/31/2023	06/05/2023 11:00	Touraj Touran	06/05/2023 17:48	Touraj Touran	2413433
	05/31/2023	06/05/2023 11:00	Touraj Touran	06/06/2023 09:09	Touraj Touran	2413433
SM 2320 B-2011	05/31/2023			06/03/2023 12:42	Dale L. Simmons	2413416
SM 2340 B-2011	05/31/2023			06/03/2023 01:51	McKinley C Carter	2413434
SM 2540 C-2015	05/31/2023			06/02/2023 15:32	Yijie Li	2413416
SM 2540 D-2015	05/31/2023			06/02/2023 15:32	Yijie Li	2413416
SM 4500-F- C-2011	05/31/2023			06/16/2023 19:39	Adam P Silver	2413416
SM 5310 B-2011	05/31/2023			06/02/2023 20:32	Elise M. Gillis	2413417