

Chemical Analysis Report

SO-DIST-2024-02-07-01

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

Event Description: **2024 SMP: Later Gator**
Request ID: **RQ-2024-02-12-18**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Marek Topolski, 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: 05-MAR-2024 09:59



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: YUCCAFLATWOODS MID

Collection Date/Time: 02/06/2024 08:30

Field ID: G2SD0052

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466686	DEP SOP: NU-094-1	Color (true)	76	A	PCU	P441074	
	EPA 180.1 Rev. 2.0	Turbidity	7.3		NTU	P441078	
	EPA 300.0 Rev. 2.1	Chloride	1.1E+04		mg Cl/L	P441256	
		Sulfate	1.6E+03		mg SO4/L	P441259	
	SM 2320 B-2011	Total Alkalinity	129		mg CaCO3/L	P441620	
	SM 2540 C-2015	TDS	1.98E+04		mg/L	P441542	
	SM 2540 D-2015	TSS	12	A	mg/L	P441403	
	SM 4500-F- C-2011	Fluoride	0.73		mg F/L	P441625	
2466687	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P441130	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P441261	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P441245	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P441201	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P441408	
2466714	EPA 8321B	2,4-D	0.0020	U	ug/L	P441051	
		Acesulfame K	0.10	U	ug/L	P440969	
		2,4,5-T	0.0040	U	ug/L	P441051	
		AMPA	1.0	U	ug/L	P440969	
		Acetaminophen	0.0080	U	ug/L	P441051	
		Acetamiprid	0.0020	U	ug/L	P441051	
		Endothall	0.25	U	ug/L	P440969	
		Glufosinate	1.0	U	ug/L	P440969	
		Glyphosate	1.0	U	ug/L	P440969	
		Afidopyropen	0.0020	U	ug/L	P441051	
		Sucralose	0.050		ug/L	P440969	
		Bentazon	0.0023	I	ug/L	P441051	MS
		Benzovindiflupyr	0.0020	U	ug/L	P441051	
		Carbamazepine	8.0E-04	U	ug/L	P441051	
		Clothianidin	0.0020	U	ug/L	P441051	
		Dinotefuran	0.0020	U	ug/L	P441051	
		Diuron	0.0020	U	ug/L	P441051	
		Fenuron	0.032	U	ug/L	P441051	
		Fluridone	8.0E-04	U	ug/L	P441051	
		Imazapyr	0.15		ug/L	P441051	
		Hydrocodone	0.0020	U	ug/L	P441051	
		Ibuprofen	0.080	U	ug/L	P441051	
		Imidacloprid	0.0020	U	ug/L	P441051	
		Linuron	0.0040	U	ug/L	P441051	
		Mandestrobin	0.0020	U	ug/L	P441051	
		MCPP	0.0020	U	ug/L	P441051	
		Naproxen	0.0080	U	ug/L	P441051	
		Primidone	0.0040	U	ug/L	P441051	
		Pyraclostrobin	0.0020	U	ug/L	P441051	
		Silvex	0.0040	U	ug/L	P441051	
		Thiamethoxam	0.0020	U	ug/L	P441051	

Field ID: G2SD0052

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466714	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P441051	
		Triclopyr	0.0040	U	ug/L	P441051	

Ref. Method and Comment:

EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

Sample Location: YUCCA PEN MARINE AT N OF OLD
BURNTSTORE

Collection Date/Time: 02/06/2024 08:55

Field ID: G2SD0015				Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466688	DEP SOP: NU-094-1	Color (true)	70	A	PCU	P441075	
	EPA 180.1 Rev. 2.0	Turbidity	0.65	I	NTU	P441078	
	EPA 300.0 Rev. 2.1	Chloride	290		mg Cl/L	P441256	
		Sulfate	39		mg SO4/L	P441259	
	SM 2320 B-2011	Total Alkalinity	85		mg CaCO3/L	P441476	
	SM 2540 C-2015	TDS	582		mg/L	P441541	
	SM 2540 D-2015	TSS	3	I	mg/L	P441399	
2466689	SM 4500-F- C-2011	Fluoride	0.047	I	mg F/L	P441945	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P441120	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P441109	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.01	I	mg N/L	P441188	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P441202	
2466715	SM 5310 B-2014	Organic Carbon	16		mg C/L	P441406	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P441051	
		Acesulfame K	0.10	U	ug/L	P440969	
		2,4,5-T	0.0040	U	ug/L	P441051	
		AMPA	0.10	U	ug/L	P440969	
		Acetaminophen	0.0080	U	ug/L	P441051	
		Acetamiprid	0.0020	U	ug/L	P441051	
		Endothall	0.25	U	ug/L	P440969	
		Glufosinate	0.10	U	ug/L	P440969	
		Glyphosate	0.10	U	ug/L	P440969	
		Afidopyropen	0.0020	U	ug/L	P441051	
		Sucralose	0.054		ug/L	P440969	
		Bentazon	0.0011	I J	ug/L	P441051	MS
		Benzovindiflupyr	0.0020	U	ug/L	P441051	
		Carbamazepine	8.0E-04	U	ug/L	P441051	
		Clothianidin	0.0020	U	ug/L	P441051	
		Dinotefuran	0.0020	U	ug/L	P441051	
		Diuron	0.0020	U	ug/L	P441051	
		Fenuron	0.032	U	ug/L	P441051	
		Fluridone	8.0E-04	U	ug/L	P441051	
		Imazapyr	0.65		ug/L	P441051	
		Hydrocodone	0.0020	U	ug/L	P441051	
		Ibuprofen	0.080	U	ug/L	P441051	
		Imidacloprid	0.0020	U	ug/L	P441051	
		Linuron	0.0040	U	ug/L	P441051	
		Mandestrobin	0.0020	U	ug/L	P441051	
		MCP	0.0020	U	ug/L	P441051	
		Naproxen	0.0080	U	ug/L	P441051	
		Primidone	0.0040	U	ug/L	P441051	
		Pyraclostrobin	0.0020	U	ug/L	P441051	
		Silvex	0.0040	U	ug/L	P441051	

Field ID: G2SD0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466715	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P441051	
		Tolfenpyrad	0.0020	U	ug/L	P441051	
		Triclopyr	0.0040	U	ug/L	P441051	

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

Sample Location: WINEGOURD CRK TRIB HERITAGE

Collection Date/Time: 02/06/2024 09:25

Field ID: G2SD0060					Matrix: W-SURF-FRH		
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466690	DEP SOP: NU-094-1	Color (true)	76	A	PCU	P441076	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	I	NTU	P441078	
	EPA 300.0 Rev. 2.1	Chloride	270		mg Cl/L	P441256	
		Sulfate	42		mg SO4/L	P441259	
	SM 2320 B-2011	Total Alkalinity	192		mg CaCO3/L	P441476	
	SM 2540 C-2015	TDS	712		mg/L	P441542	
	SM 2540 D-2015	TSS	2	U	mg/L	P441400	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P441945	
2466691	EPA 350.1 Rev. 2.0	Ammonia-N	0.095		mg N/L	P441120	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P441109	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.087		mg N/L	P441188	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P441203	
	SM 5310 B-2014	Organic Carbon	19		mg C/L	P441406	

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

Sample Location: ALLIGATOR CREEK TAYLOR RD

Collection Date/Time: 02/06/2024 09:55

Field ID: G2SD0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466705	EPA 8270E	Aldrin	0.67	U	ng/L	P441041	
		Alpha-BHC	0.10	U	ng/L	P441041	
		Alpha-Chlordane	0.24	I	ng/L	P441041	
		PCB-1016	2.1	U	ng/L	P441041	
		Beta-BHC	0.10	U	ng/L	P441041	
		PCB-1221	2.1	U	ng/L	P441041	
		Beta-Cyfluthrin	1.3	U	ng/L	P441041	
		PCB-1232	2.1	U	ng/L	P441041	
		Bifenthrin	0.52	U	ng/L	P441041	
		PCB-1242	2.1	U	ng/L	P441041	
		PCB-1248	2.1	U	ng/L	P441041	
		Chlorothalonil	3.7	U	ng/L	P441041	
		PCB-1254	2.1	U	ng/L	P441041	
		Cis-Nonachlor	0.21	U	ng/L	P441041	
		PCB-1260	2.1	U	ng/L	P441041	
		Cypermethrin	1.5	U	ng/L	P441041	
		Dacthal	0.15	U	ng/L	P441041	
		DDD-p,p'	0.26	U	ng/L	P441041	
		DDE-p,p'	0.21	U	ng/L	P441041	
		DDT-p,p'	0.83	U	ng/L	P441041	
		Delta-BHC	0.51	I	ng/L	P441041	
		Deltamethrin	1.3	U	ng/L	P441041	
		Dichlobenil	0.26	U	ng/L	P441041	
		Dicofol	1.3	UJ	ng/L	P441041	CCV
		Dieldrin	0.41	U	ng/L	P441041	
		Endosulfan I	0.41	UJ	ng/L	P441041	LCS, MS
		Endosulfan II	0.93	U	ng/L	P441041	
		Endosulfan Sulfate	0.31	U	ng/L	P441041	
		Endrin	0.93	U	ng/L	P441041	
		Endrin Aldehyde	0.77	U	ng/L	P441041	
		Endrin Ketone	0.41	UJ	ng/L	P441041	MS
		Esfenvalerate	0.77	U	ng/L	P441041	
		Ethalfuralin	0.15	U	ng/L	P441041	
		Fenpropathrin	0.26	U	ng/L	P441041	
		Gamma-BHC	0.13	UJ	ng/L	P441041	LCS
		Gamma-Chlordane	0.41	IJ	ng/L	P441041	MS
		Heptachlor	0.21	U	ng/L	P441041	
		Heptachlor Epoxide	0.26	UJ	ng/L	P441041	LCS, MS
		Hexachlorobenzene**	1.0	U	ng/L	P441041	
		Kepone	14	U	ng/L	P441041	
		Lambda-Cyhalothrin	0.77	U	ng/L	P441041	
		Methoprene	0.77	U	ng/L	P441041	
		Methoxychlor	0.31	U	ng/L	P441041	
		MGK-264	0.21	U	ng/L	P441041	

Field ID: G2SD0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466705	EPA 8270E	Mirex	0.36	U	ng/L	P441041	LCS, MS
		Oxychlordane	0.31	UJ	ng/L	P441041	
		Permethrin	1.7	U	ng/L	P441041	
		Phenothrin	0.93	U	ng/L	P441041	
		Piperonyl Butoxide	0.15	U	ng/L	P441041	
		Prallethrin	2.1	U	ng/L	P441041	
		Tau-Fluvalinate	0.26	U	ng/L	P441041	
		Tetramethrin	0.77	U	ng/L	P441041	
		Trans-Nonachlor	0.21	U	ng/L	P441041	
		Triclosan Methyl	0.15	UJ	ng/L	P441041	
		Trifluralin	0.21	U	ng/L	P441041	MS
		Chlordane	3.4	I	ng/L	P441041	
		Toxaphene	15	U	ng/L	P441041	
	EPA 8276						

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

Sample Location: ALLIGATOR NORTH AT JONES LOOP RD

Collection Date/Time: 02/06/2024 10:20

Field ID: G2SD0032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2466718	EPA 200.7 Rev. 4.4	Calcium	57.0		mg/L	P441234	
		Iron	500		ug/L	P441234	
		Magnesium	4.26		mg/L	P441234	
		Potassium	0.69	I	mg/L	P441234	
		Sodium	23.4		mg/L	P441234	
		Strontium	376		ug/L	P441234	
		Tin	3.0	U	ug/L	P441234	
		Titanium	1.0	I	ug/L	P441234	
		Vanadium	2.0	U	ug/L	P441234	
		Zinc	5.0	U	ug/L	P441234	
	EPA 200.8 Rev. 5.4	Aluminum	14	I	ug/L	P441234	
		Antimony	0.089	I	ug/L	P441234	
		Arsenic	0.62		ug/L	P441234	
		Barium	15.9		ug/L	P441234	
		Beryllium	0.010	U	ug/L	P441234	
		Boron	28.0		ug/L	P441234	
		Cadmium	0.020	U	ug/L	P441234	
		Chromium	0.40	U	ug/L	P441234	
		Cobalt	0.053	I	ug/L	P441234	
		Copper	0.40	U	ug/L	P441234	
		Lead	0.20	U	ug/L	P441234	
		Manganese	9.72		ug/L	P441234	
		Molybdenum	2.48		ug/L	P441234	
		Nickel	0.50	U	ug/L	P441234	
		Selenium	0.20	U	ug/L	P441234	
		Silver	0.010	U	ug/L	P441234	
		Thallium	0.10	U	ug/L	P441234	
	SM 2340 B-2011	Hardness	160		mg/L	P441234	

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P441074

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P441075

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P441076

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P441077

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441078

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441234

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: P441234

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441234

Component	Result	Code	Units
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: P441256

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441259

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441120

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441130

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441109

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441261

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441188

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441245

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441201

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441202

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441203

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

Reference Method: EPA 8270E
Batch ID: P441041

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441041

Component	Result	Code	Units
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P441041

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P440969

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: P441051

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P441051

Component	Result	Code	Units
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	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: P441476

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

Reference Method: SM 2320 B-2011

Batch ID: P441620

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

Reference Method: SM 2540 C-2015

Batch ID: P441541

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015

Batch ID: P441542

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P441399

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P441400

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P441403

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P441945

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P441406

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

Reference Method: SM 5310 B-2014
Batch ID: P441407

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

Reference Method: SM 5310 B-2014
Batch ID: P441408

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: P441074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.0		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P441075

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.5		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P441076

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P441077

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441078

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441234

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	99.8		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	104		P	85 - 115
Sodium	105		P	85 - 115
Strontium	97.7		P	85 - 115
Tin	98.3		P	85 - 115
Titanium	98.2		P	85 - 115
Vanadium	96.9		P	85 - 115
Zinc	96.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441234

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.1		P	85 - 115
Antimony	99.1		P	85 - 115
Arsenic	99.1		P	85 - 115
Barium	98.3		P	85 - 115
Beryllium	96.2		P	85 - 115
Boron	105		P	85 - 115
Cadmium	98.9		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441234

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chromium	104		P	85 - 115
Cobalt	99.4		P	85 - 115
Copper	99.3		P	85 - 115
Lead	99.1		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	97.8		P	85 - 115
Nickel	98.2		P	85 - 115
Selenium	98.4		P	85 - 115
Silver	104		P	85 - 115
Thallium	96.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441256

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441259

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441120

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441130

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441109

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441261

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441188

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441245

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441201

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441202

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441203

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

Reference Method: EPA 8270E
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	86.3		P	30 - 96.0
Alpha-BHC	95.8		P	70 - 109
Alpha-Chlordane	76.0		P	45 - 107
Beta-BHC	125		P	64 - 138
Beta-Cyfluthrin	54.7		P	17 - 141
Bifenthrin	49.9		P	10 - 113
Chlorothalonil	77.1		P	26 - 180
Cis-Nonachlor	78.6		P	37 - 102
Cypermethrin	41.1		P	20 - 133
Dacthal	83.6		P	69 - 114
DDD-p,p'	64.2		P	42 - 105
DDE-p,p'	75.3		P	42 - 106
DDT-p,p'	77.4		P	42 - 107
Delta-BHC	95.7		P	67 - 144
Deltamethrin	61.9		P	15 - 149
Dichlobenil	47.9		P	46 - 117
Dicofol	50.7		P	34 - 114
Dieldrin	78.2		P	50 - 108
Endosulfan I	113		F	55 - 104
Endosulfan II	102		P	51 - 111
Endosulfan Sulfate	89.9		P	56 - 121
Endrin	87.5		P	10 - 106
Endrin Aldehyde	51.7		P	34 - 114
Endrin Ketone	153		P	63 - 177
Esfenvalerate	55.2		P	29 - 143
Ethalfuralin	78.8		P	46 - 96.0
Fenpropathrin	61.2		P	28 - 115
Gamma-BHC	49.4		F	65 - 121

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	93.2		P	39 - 103
Heptachlor	71.2		P	39 - 94.0
Heptachlor Epoxide	111		F	54 - 104
Hexachlorobenzene	54.6		P	36 - 100
Kepone	112		P	10 - 225
Lambda-Cyhalothrin	54.8		P	10 - 135
Methoprene	45.1		P	10 - 109
Methoxychlor	81.2		P	52 - 112
MGK-264	73.0		P	44 - 117
Mirex	62.6		P	20 - 90.0
Oxychlordane	105		F	44 - 102
PCB-1016	83.3		P	45 - 107
PCB-1260	80.2		P	40 - 118
Permethrin	55.8		P	18 - 135
Phenothrin	43.4		P	10 - 102
Piperonyl Butoxide	70.2		P	28 - 156
Prallethrin	72.2		P	28 - 113
Tau-Fluvalinate	42.2		P	10 - 123
Tetramethrin	58.9		P	18 - 158
Trans-Nonachlor	80.0		P	39 - 104
Triclosan Methyl	102		P	54 - 108
Trifluralin	83.4		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.2		P	52 - 117
Toxaphene	93.1		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P440969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	132		P	40 - 150
AMPA	90.4		P	40 - 160
Endothall	81.0		P	40 - 160
Glufosinate	96.4		P	40 - 160
Glyphosate	93.7		P	40 - 160
Sucralose	83.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	112		P	40 - 150
2,4,5-T	135		P	40 - 150
Acetaminophen	95.5		P	30 - 150
Acetamiprid	85.8		P	40 - 150
Afidopyropen	67.3		P	30 - 150
Bentazon	96.9		P	30 - 150
Benzovindiflupyr	87.5		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P441051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	86.8		P	40 - 150
Clothianidin	97.8		P	40 - 150
Dinotefuran	106		P	40 - 150
Diuron	80.8		P	40 - 150
Fenuron	98.8		P	40 - 150
Fluridone	88.9		P	40 - 150
Hydrocodone	101		P	40 - 150
Ibuprofen	76.2		P	40 - 150
Imazapyr	102		P	40 - 150
Imidacloprid	95.3		P	40 - 150
Linuron	88.7		P	40 - 150
Mandestrobin	96.7		P	40 - 150
MCPPP	101		P	40 - 150
Naproxen	108		P	40 - 150
Primidone	86.7		P	40 - 150
Pyraclostrobin	92.2		P	40 - 150
Silvex	104		P	40 - 150
Thiamethoxam	99.1		P	40 - 150
Tolfenpyrad	47.9		P	30 - 150
Triclopyr	128		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P441476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	92 - 105

Reference Method: SM 2320 B-2011

Batch ID: P441620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.4		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P441541

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.8		P	85 - 115

Reference Method: SM 2540 C-2015

Batch ID: P441542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.4		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P441399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.0		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P441400

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	108		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P441403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.6		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	105		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P441945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P441406

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.1		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P441407

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.7		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P441408

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441234

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466628	Calcium	98.6		P	80 - 120
2466628	Iron	99.1	98.8	P/P	80 - 120
2466628	Magnesium	98.7	97.1	P/P	80 - 120
2466628	Potassium	107	106	P/P	80 - 120
2466628	Sodium	103	103	P/P	80 - 120
2466628	Strontium	94.9	94.7	P/P	80 - 120
2466628	Tin	97.1	97.5	P/P	80 - 120
2466628	Titanium	98.3	99.4	P/P	80 - 120
2466628	Vanadium	99.6	101	P/P	80 - 120
2466628	Zinc	95.8	96.8	P/P	80 - 120
2467046	Calcium	99.0		P	80 - 120
2467046	Iron	97.6		P	80 - 120
2467046	Magnesium	97.0		P	80 - 120
2467046	Potassium	105		P	80 - 120
2467046	Sodium	101		P	80 - 120
2467046	Strontium	94.3		P	80 - 120
2467046	Tin	96.7		P	80 - 120
2467046	Titanium	98.0		P	80 - 120
2467046	Vanadium	98.9		P	80 - 120
2467046	Zinc	95.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441234

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466628	Aluminum	98.4	97.9	P/P	80 - 120
2466628	Antimony	101	99.9	P/P	80 - 120
2466628	Arsenic	98.2	97.9	P/P	80 - 120
2466628	Barium	99.0	98.1	P/P	80 - 120
2466628	Beryllium	95.1	95.1	P/P	80 - 120
2466628	Boron	106	106	P/P	80 - 120
2466628	Cadmium	101	102	P/P	80 - 120
2466628	Chromium	102	98.5	P/P	80 - 120
2466628	Cobalt	98.5	98.4	P/P	80 - 120
2466628	Copper	98.2	96.7	P/P	80 - 120
2466628	Lead	99.4	99.1	P/P	80 - 120
2466628	Manganese	101	102	P/P	80 - 120
2466628	Molybdenum	101	99.4	P/P	80 - 120
2466628	Nickel	96.9	95.6	P/P	80 - 120
2466628	Selenium	97.0	94.2	P/P	80 - 120
2466628	Silver	104	104	P/P	80 - 120
2466628	Thallium	99.0	100	P/P	80 - 120
2467046	Aluminum	98.1		P	80 - 120
2467046	Antimony	98.0		P	80 - 120
2467046	Arsenic	95.9		P	80 - 120
2467046	Barium	93.3		P	80 - 120
2467046	Beryllium	94.1		P	80 - 120
2467046	Boron	110		P	80 - 120
2467046	Cadmium	97.5		P	80 - 120
2467046	Chromium	101		P	80 - 120
2467046	Cobalt	99.1		P	80 - 120
2467046	Copper	100		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441234

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467046	Lead	100		P	80 - 120
2467046	Manganese	106		P	80 - 120
2467046	Molybdenum	99.6		P	80 - 120
2467046	Nickel	98.6		P	80 - 120
2467046	Selenium	87.5		P	80 - 120
2467046	Silver	103		P	80 - 120
2467046	Thallium	99.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441256

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466706	Chloride	99.6		P	90 - 110
2466750	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466706	Sulfate	103		P	90 - 110
2466750	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466638	Ammonia-N	95.4	96.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466249	Ammonia-N	104	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466664	Kjeldahl Nitrogen	105	110	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467160	Kjeldahl Nitrogen	102	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441188

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466646	NO2NO3-N	95.0	95.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441245

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467158	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441201

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466371	Total-P	106	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466689	Total-P	108	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466751	Total-P	102	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466705	Aldrin	71.9	67.0	P/P	24 - 81.0
2466705	Alpha-BHC	96.3	85.2	P/P	65 - 110
2466705	Alpha-Chlordane	70.2	53.6	P/P	43 - 119
2466705	Beta-BHC	97.2	99.8	P/P	54 - 165
2466705	Beta-Cyfluthrin	88.8	84.7	P/P	27 - 165
2466705	Bifenthrin	75.9	62.8	P/P	17 - 117
2466705	Chlorothalonil	106	91.0	P/P	10 - 255
2466705	Cis-Nonachlor	64.6	59.8	P/P	34 - 98.0
2466705	Cypermethrin	79.7	73.5	P/P	25 - 143
2466705	Dacthal	73.7	70.9	P/P	55 - 139
2466705	DDD-p,p'	55.6	49.4	P/P	30 - 109
2466705	DDE-p,p'	66.1	60.1	P/P	35 - 106
2466705	DDT-p,p'	77.2	64.0	P/P	41 - 101
2466705	Delta-BHC	97.7	99.4	P/P	58 - 165
2466705	Deltamethrin	113	97.7	P/P	10 - 194
2466705	Dichlobenil	23.1	22.9	P/P	22 - 114
2466705	Dicofol	58.1	48.7	P/P	17 - 133
2466705	Dieldrin	66.7	64.5	P/P	45 - 129
2466705	Endosulfan I	155	146	F/F	49 - 104
2466705	Endosulfan II	90.2	88.1	P/P	37 - 117
2466705	Endosulfan Sulfate	71.0	69.4	P/P	38 - 128
2466705	Endrin	75.8	71.9	P/P	35 - 116
2466705	Endrin Aldehyde	23.8	25.3	P/P	19 - 108
2466705	Endrin Ketone	203	177	F/F	44 - 134
2466705	Esfenvalerate	96.0	87.0	P/P	27 - 176
2466705	Ethalfuralin	69.5	65.2	P/P	49 - 100
2466705	Fenpropathrin	78.7	71.1	P/P	34 - 117
2466705	Gamma-BHC	68.3	69.7	P/P	59 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466705	Gamma-Chlordane	132	95.7	F/P	33 - 107
2466705	Heptachlor	78.1	67.8	P/P	37 - 94.0
2466705	Heptachlor Epoxide	152	126	F/F	38 - 118
2466705	Hexachlorobenzene	41.6	42.4	P/P	35 - 97.0
2466705	Kepone	57.0	56.5	P/P	10 - 221
2466705	Lambda-Cyhalothrin	82.3	77.4	P/P	23 - 190
2466705	Methoprene	78.5	64.2	P/P	21 - 109
2466705	Methoxychlor	97.2	86.5	P/P	46 - 118
2466705	MGK-264	72.3	65.2	P/P	39 - 122
2466705	Mirex	58.8	47.4	P/P	25 - 90.0
2466705	Oxychlordane	163	136	F/F	42 - 100
2466705	Permethrin	87.2	76.5	P/P	33 - 181
2466705	Phenothrin	80.5	67.8	P/P	12 - 125
2466705	Piperonyl Butoxide	92.1	74.4	P/P	10 - 178
2466705	Prallethrin	77.6	65.3	P/P	24 - 122
2466705	Tau-Fluvalinate	73.0	65.9	P/P	13 - 151
2466705	Tetramethrin	101	90.8	P/P	16 - 172
2466705	Trans-Nonachlor	67.6	61.2	P/P	39 - 100
2466705	Triclosan Methyl	129	107	F/P	43 - 110
2466705	Trifluralin	81.4	69.8	P/P	45 - 94.0
2467402	PCB-1016	82.7	83.1	P/P	45 - 107
2467402	PCB-1260	60.0	59.7	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467402	Chlordane	77.8	93.4	P/P	43 - 123
2467402	Toxaphene	77.4	92.7	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P440969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466652	Acesulfame K	136	138	P/P	40 - 150
2466652	AMPA	87.1	89.4	P/P	40 - 160
2466652	Endothall	104	111	P/P	40 - 160
2466652	Glufosinate	98.8	93.8	P/P	40 - 160
2466652	Glyphosate	83.2	89.6	P/P	40 - 160
2466652	Sucralose	78.9	86.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466715	2,4-D	81.7	76.0	P/P	40 - 150
2466715	2,4,5-T	73.2	92.6	P/P	40 - 150
2466715	Acetaminophen	89.8	94.7	P/P	30 - 150
2466715	Acetamiprid	64.1	67.6	P/P	40 - 150
2466715	Afidopyropen	70.6	63.4	P/P	30 - 150
2466715	Bentazon	27.8	32.0	F/P	30 - 150
2466715	Benzovindiflupyr	81.8	82.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P441051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466715	Carbamazepine	65.5	66.3	P/P	40 - 150
2466715	Clothianidin	76.4	81.9	P/P	40 - 150
2466715	Dinotefuran	84.1	87.7	P/P	40 - 150
2466715	Diuron	61.5	63.4	P/P	40 - 150
2466715	Fenuron	57.5	61.1	P/P	40 - 150
2466715	Fluridone	69.8	74.1	P/P	40 - 150
2466715	Hydrocodone	72.3	77.5	P/P	40 - 150
2466715	Ibuprofen	65.9	63.6	P/P	40 - 150
2466715	Imidacloprid	103	109	P/P	40 - 150
2466715	Linuron	70.3	72.3	P/P	40 - 150
2466715	Mandestrobin	87.3	88.7	P/P	40 - 150
2466715	MCP	83.0	80.8	P/P	40 - 150
2466715	Naproxen	93.7	78.2	P/P	40 - 150
2466715	Primidone	81.1	89.2	P/P	40 - 150
2466715	Pyraclostrobin	87.3	86.2	P/P	40 - 150
2466715	Silvex	83.8	85.8	P/P	40 - 150
2466715	Thiamethoxam	82.7	87.2	P/P	40 - 150
2466715	Tolfenpyrad	59.5	57.3	P/P	30 - 150
2466715	Triclopyr	77.3	81.7	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466692	Fluoride	104	105	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P441945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466749	Fluoride	104	104	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P441406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466618	Organic Carbon	97.1	97.2	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P441407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466693	Organic Carbon	92.9	92.4	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P441408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467191	Organic Carbon	90.2	90.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P441074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466686	Color (true)	2.27	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P441075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466688	Color (true)	1.46	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P441076

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466690	Color (true)	0.228	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P441077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466692	Color (true)	0.315	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466590	Turbidity	6.51	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466628	Calcium	0.962	Spike	P	0 - 20
2466628	Iron	0.320	Spike	P	0 - 20
2466628	Magnesium	1.29	Spike	P	0 - 20
2466628	Potassium	0.806	Spike	P	0 - 20
2466628	Sodium	0.191	Spike	P	0 - 20
2466628	Strontium	0.170	Spike	P	0 - 20
2466628	Tin	0.411	Spike	P	0 - 20
2466628	Titanium	1.11	Spike	P	0 - 20
2466628	Vanadium	1.09	Spike	P	0 - 20
2466628	Zinc	0.998	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441234

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

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466628	Aluminum	0.532	Spike	P	0 - 20
2466628	Antimony	0.727	Spike	P	0 - 20
2466628	Arsenic	0.371	Spike	P	0 - 20
2466628	Barium	0.812	Spike	P	0 - 20
2466628	Beryllium	0.00626	Spike	P	0 - 20
2466628	Boron	0.426	Spike	P	0 - 20
2466628	Cadmium	1.13	Spike	P	0 - 20
2466628	Chromium	3.55	Spike	P	0 - 20
2466628	Cobalt	0.145	Spike	P	0 - 20
2466628	Copper	1.48	Spike	P	0 - 20
2466628	Lead	0.312	Spike	P	0 - 20
2466628	Manganese	1.37	Spike	P	0 - 20
2466628	Molybdenum	1.25	Spike	P	0 - 20
2466628	Nickel	1.29	Spike	P	0 - 20
2466628	Selenium	2.99	Spike	P	0 - 20
2466628	Silver	0.0893	Spike	P	0 - 20
2466628	Thallium	1.01	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441256

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466706	Chloride	0.348	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466706	Sulfate	0.0781	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466638	Ammonia-N	0.636	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466249	Ammonia-N	0.440	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441109

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

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466664	Kjeldahl Nitrogen	3.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467160	Kjeldahl Nitrogen	1.01	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466646	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467158	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466371	Total-P	3.54	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466689	Total-P	0.967	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466751	Total-P	3.75	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466705	Aldrin	6.94	Spike	P	0 - 41
2466705	Alpha-BHC	12.3	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466705	Alpha-Chlordane	23.9	Spike	P	0 - 32
2466705	Beta-BHC	2.64	Spike	P	0 - 33
2466705	Beta-Cyfluthrin	4.77	Spike	P	0 - 43
2466705	Bifenthrin	18.8	Spike	P	0 - 52
2466705	Chlorothalonil	14.9	Spike	P	0 - 82
2466705	Cis-Nonachlor	7.66	Spike	P	0 - 33
2466705	Cypermethrin	8.11	Spike	P	0 - 51
2466705	Dacthal	3.96	Spike	P	0 - 27
2466705	DDD-p,p'	11.7	Spike	P	0 - 39
2466705	DDE-p,p'	9.51	Spike	P	0 - 31
2466705	DDT-p,p'	18.7	Spike	P	0 - 29
2466705	Delta-BHC	1.60	Spike	P	0 - 35
2466705	Deltamethrin	14.5	Spike	P	0 - 100
2466705	Dichlobenil	0.720	Spike	P	0 - 40
2466705	Dicofol	17.6	Spike	P	0 - 37
2466705	Dieldrin	3.43	Spike	P	0 - 27
2466705	Endosulfan I	6.04	Spike	P	0 - 23
2466705	Endosulfan II	2.44	Spike	P	0 - 34
2466705	Endosulfan Sulfate	2.26	Spike	P	0 - 36
2466705	Endrin	5.36	Spike	P	0 - 45
2466705	Endrin Aldehyde	6.03	Spike	P	0 - 76
2466705	Endrin Ketone	13.4	Spike	P	0 - 43
2466705	Esfenvalerate	9.77	Spike	P	0 - 51
2466705	Ethalfuralin	6.39	Spike	P	0 - 22
2466705	Fenpropathrin	10.2	Spike	P	0 - 49
2466705	Gamma-BHC	2.01	Spike	P	0 - 28
2466705	Gamma-Chlordane	28.8	Spike	P	0 - 40
2466705	Heptachlor	14.1	Spike	P	0 - 29
2466705	Heptachlor Epoxide	18.0	Spike	P	0 - 33
2466705	Hexachlorobenzene	1.88	Spike	P	0 - 36
2466705	Kepone	0.919	Spike	P	0 - 85
2466705	Lambda-Cyhalothrin	6.17	Spike	P	0 - 55
2466705	Methoprene	20.0	Spike	P	0 - 53
2466705	Methoxychlor	11.6	Spike	P	0 - 50
2466705	MGK-264	10.4	Spike	P	0 - 43
2466705	Mirex	21.6	Spike	P	0 - 40
2466705	Oxychlordane	17.7	Spike	P	0 - 31
2466705	Permethrin	13.1	Spike	P	0 - 50
2466705	Phenothrin	17.1	Spike	P	0 - 58
2466705	Piperonyl Butoxide	21.3	Spike	P	0 - 100
2466705	Prallethrin	17.1	Spike	P	0 - 39
2466705	Tau-Fluvalinate	10.3	Spike	P	0 - 54
2466705	Tetramethrin	10.7	Spike	P	0 - 51
2466705	Trans-Nonachlor	9.99	Spike	P	0 - 39
2466705	Triclosan Methyl	19.0	Spike	P	0 - 31
2466705	Trifluralin	15.3	Spike	P	0 - 22
2467402	PCB-1016	0.493	Spike	P	0 - 25
2467402	PCB-1260	0.489	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467402	Chlordane	18.3	Spike	P	0 - 28
2467402	Toxaphene	18.0	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P440969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466652	Acesulfame K	1.04	Spike	P	0 - 30
2466652	AMPA	2.64	Spike	P	0 - 30
2466652	Endothall	6.04	Spike	P	0 - 30
2466652	Glufosinate	5.25	Spike	P	0 - 30
2466652	Glyphosate	7.49	Spike	P	0 - 30
2466652	Sucralose	8.89	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466715	2,4-D	7.30	Spike	P	0 - 30
2466715	2,4,5-T	23.4	Spike	P	0 - 30
2466715	Acetaminophen	5.34	Spike	P	0 - 30
2466715	Acetamiprid	5.41	Spike	P	0 - 30
2466715	Afidopyropen	10.8	Spike	P	0 - 30
2466715	Bentazon	9.47	Spike	P	0 - 30
2466715	Benzovindiflupyr	1.39	Spike	P	0 - 30
2466715	Carbamazepine	1.12	Spike	P	0 - 30
2466715	Clothianidin	6.94	Spike	P	0 - 30
2466715	Dinotefuran	4.15	Spike	P	0 - 30
2466715	Diuron	3.09	Spike	P	0 - 30
2466715	Fenuron	6.03	Spike	P	0 - 30
2466715	Fluridone	5.98	Spike	P	0 - 30
2466715	Hydrocodone	6.90	Spike	P	0 - 30
2466715	Ibuprofen	3.67	Spike	P	0 - 30
2466715	Imazapyr	1.24	Spike	P	0 - 30
2466715	Imidacloprid	5.42	Spike	P	0 - 30
2466715	Linuron	2.80	Spike	P	0 - 30
2466715	Mandestrobin	1.58	Spike	P	0 - 30
2466715	MCPP	2.75	Spike	P	0 - 30
2466715	Naproxen	18.0	Spike	P	0 - 30
2466715	Primidone	9.55	Spike	P	0 - 30
2466715	Pyraclostrobin	1.22	Spike	P	0 - 30
2466715	Silvex	2.45	Spike	P	0 - 30
2466715	Thiamethoxam	5.40	Spike	P	0 - 30
2466715	Tolfenpyrad	3.73	Spike	P	0 - 30
2466715	Triclopyr	5.50	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P441476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466609	Total Alkalinity	0.252	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P441620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466692	Total Alkalinity	1.14	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P441541

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2465988	TDS	8.31	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P441542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466781	TDS	5.00	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P441403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466686	TSS	6.45	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466692	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P441945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466749	Fluoride	0.509	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P441406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466618	Organic Carbon	0.0759	Spike	P	0 - 15

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2014
Batch ID: P441407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466693	Organic Carbon	0.392	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P441408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467191	Organic Carbon	0.265	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2466705
Field Sample ID: G2SD0059

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	95.0	P	37 - 129
EPA 8270E	Decachlorobiphenyl	87.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	62.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	36.5	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	48.0	P	23 - 110
EPA 8276	PCNB	103	P	51 - 130

Lab Sample ID: 2466714
Field Sample ID: G2SD0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	67.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	77.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.2	P	30 - 160
EPA 8321B	Diuron-d6	70.3	P	30 - 160
EPA 8321B	Endothall-d6	77.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.9	P	30 - 160
EPA 8321B	Primidone-d5	88.9	P	30 - 160
EPA 8321B	Sucralose-d6	36.6	P	30 - 160

Lab Sample ID: 2466715
Field Sample ID: G2SD0015

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	67.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.1	P	30 - 160
EPA 8321B	Diuron-d6	59.8	P	30 - 160
EPA 8321B	Endothall-d6	83.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.0	P	30 - 160
EPA 8321B	Primidone-d5	81.8	P	30 - 160
EPA 8321B	Sucralose-d6	61.6	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A124027

Included Lab Sample IDs: 2466686, 2466688, 2466690, 2466692

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

Reference Method: EPA 8321B

Run ID: A124028

Included Lab Sample IDs: 2466714, 2466715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	90.7	91.1	P/P	60 - 160
Endothall	83.7	81.6	P/P	60 - 160
Glufosinate	91.3	89.3	P/P	60 - 160
Glyphosate	92.6	98.2	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A124029

Included Lab Sample IDs: 2466714, 2466715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	149	134	P/P	60 - 160
Sucralose	85.8	84.9	P/P	60 - 160

Reference Method: DEP SOP: NU-094-1

Run ID: A124047

Included Lab Sample IDs: 2466686, 2466688, 2466690, 2466692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.8	99.6	P/P	90 - 110
Color (true)	98.4	97.8	P/P	90 - 110
Color (true)	99.6	99.7	P/P	90 - 110
Color (true)	99.7	98.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A124048

Included Lab Sample IDs: 2466686, 2466688, 2466690, 2466692

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124058

Included Lab Sample IDs: 2466689, 2466691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	97.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124060

Included Lab Sample IDs: 2466687, 2466693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	98.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124079

Included Lab Sample IDs: 2466689, 2466691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A124085

Included Lab Sample IDs: 2466714, 2466715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	117	110	P/P	50 - 150
2,4-D	122	117	P/P	50 - 150
2,4,5-T	108	116	P/P	50 - 150
2,4,5-T	127	108	P/P	50 - 150
Acetaminophen	110	105	P/P	60 - 160
Acetaminophen	114	110	P/P	60 - 160
Acetamiprid	105	109	P/P	50 - 150
Acetamiprid	109	110	P/P	50 - 150
Afidopyropen	101	99.4	P/P	50 - 150
Afidopyropen	99.4	113	P/P	50 - 150
Bentazon	104	107	P/P	50 - 160
Bentazon	113	104	P/P	50 - 160
Benzovindiflupyr	109	111	P/P	50 - 150
Benzovindiflupyr	99.2	109	P/P	50 - 150
Carbamazepine	106	114	P/P	60 - 150
Carbamazepine	114	113	P/P	60 - 150
Clothianidin	108	109	P/P	60 - 150
Clothianidin	109	108	P/P	60 - 150
Dinotefuran	105	110	P/P	50 - 150
Dinotefuran	108	105	P/P	50 - 150
Diuron	107	111	P/P	60 - 160
Diuron	111	112	P/P	60 - 160
Fenuron	105	105	P/P	60 - 150
Fenuron	105	109	P/P	60 - 150
Fluridone	105	111	P/P	60 - 160
Fluridone	111	112	P/P	60 - 160
Hydrocodone	113	124	P/P	60 - 150
Hydrocodone	124	121	P/P	60 - 150
Ibuprofen	102	91.0	P/P	50 - 160
Ibuprofen	91.0	91.2	P/P	50 - 160
Imazapyr	110	96.4	P/P	50 - 150
Imazapyr	96.4	100	P/P	50 - 150
Imidacloprid	100	96.4	P/P	60 - 150
Imidacloprid	96.0	100	P/P	60 - 150
Linuron	101	99.6	P/P	60 - 150
Linuron	105	101	P/P	60 - 150
Mandestrobin	105	110	P/P	50 - 150
Mandestrobin	107	105	P/P	50 - 150
MCPP	109	100	P/P	50 - 150
MCPP	117	109	P/P	50 - 150
Naproxen	112	91.9	P/P	50 - 160
Naproxen	91.9	110	P/P	50 - 160
Primidone	102	97.9	P/P	60 - 150
Primidone	97.9	98.5	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A124085

Included Lab Sample IDs: 2466714, 2466715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	111	116	P/P	60 - 150
Pyraclostrobin	116	109	P/P	60 - 150
Silvex	110	113	P/P	50 - 150
Silvex	118	110	P/P	50 - 150
Thiamethoxam	113	117	P/P	50 - 150
Thiamethoxam	117	115	P/P	50 - 150
Tolfenpyrad	100	107	P/P	60 - 150
Tolfenpyrad	100	100	P/P	60 - 150
Triclopyr	110	114	P/P	50 - 150
Triclopyr	114	93.9	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124095

Included Lab Sample IDs: 2466687, 2466693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124113

Included Lab Sample IDs: 2466693

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124128

Included Lab Sample IDs: 2466687, 2466693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124132

Included Lab Sample IDs: 2466689, 2466691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.5	97.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124141

Included Lab Sample IDs: 2466687, 2466689, 2466691

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124144

Included Lab Sample IDs: 2466718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.0	97.3	P/P	90 - 110
Antimony	96.6	96.1	P/P	90 - 110
Arsenic	93.5	93.6	P/P	90 - 110
Barium	94.6	91.9	P/P	90 - 110
Cadmium	95.4	96.4	P/P	90 - 110
Chromium	94.8	96.9	P/P	90 - 110
Cobalt	95.3	96.0	P/P	90 - 110
Lead	96.1	98.8	P/P	90 - 110
Manganese	97.1	102	P/P	90 - 110
Molybdenum	96.2	95.7	P/P	90 - 110
Nickel	94.5	95.4	P/P	90 - 110
Selenium	93.9	92.8	P/P	90 - 110
Silver	98.7	97.6	P/P	90 - 110
Thallium	95.9	97.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124152

Included Lab Sample IDs: 2466718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	101	P/P	90 - 110
Iron	97.4	97.9	P/P	90 - 110
Magnesium	97.6	97.9	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Tin	98.4	98.5	P/P	90 - 110
Titanium	97.4	97.9	P/P	90 - 110
Vanadium	97.2	97.7	P/P	90 - 110
Zinc	98.3	97.7	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A124160

Included Lab Sample IDs: 2466687, 2466689, 2466691, 2466693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	128	94.6	P/P	70 - 130
Organic Carbon	96.5	128	P/P	85 - 115
Organic Carbon	96.6	96.5	P/P	85 - 115

Reference Method: SM 2320 B-2011

Run ID: A124189

Included Lab Sample IDs: 2466688, 2466690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.0	95.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124234

Included Lab Sample IDs: 2466718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	99.2	97.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124234

Included Lab Sample IDs: 2466718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	104	105	P/P	90 - 110
Copper	99.1	97.4	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124235

Included Lab Sample IDs: 2466718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	98.8	99.7	P/P	90 - 110
Strontium	97.2	96.9	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A124236

Included Lab Sample IDs: 2466686, 2466692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.4	98.0	P/P	90 - 110
Total Alkalinity	98.0	94.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A124236

Included Lab Sample IDs: 2466686, 2466692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	106	107	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A124262

Included Lab Sample IDs: 2466705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	95.1		P	80 - 120

Reference Method: EPA 8270E

Run ID: A124311

Included Lab Sample IDs: 2466705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.6		P	80 - 120
PCB-1260	90.0		P	80 - 120

Reference Method: SM 4500-F- C-2011

Run ID: A124381

Included Lab Sample IDs: 2466688, 2466690

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124457
Included Lab Sample IDs: 2466705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	108		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	114		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	96.7		P	80 - 120
Bifenthrin	94.2		P	80 - 120
Chlorothalonil	104		P	80 - 120
Cis-Nonachlor	111		P	80 - 120
Cypermethrin	96.3		P	80 - 120
Dacthal	111		P	80 - 120
DDD-p,p'	106		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	108		P	80 - 120
Deltamethrin	94.8		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	78.8*		F	80 - 120
Dieldrin	99.0		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	102		P	80 - 120
Esfenvalerate	96.9		P	80 - 120
Ethalfuralin	92.4		P	80 - 120
Fenpropathrin	89.3		P	80 - 120
Gamma-BHC	90.8		P	80 - 120
Gamma-Chlordane	90.6		P	80 - 120
Heptachlor	87.9		P	80 - 120
Heptachlor Epoxide	106		P	80 - 120
Hexachlorobenzene	107		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	96.8		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	88.4		P	80 - 120
Piperonyl Butoxide	93.9		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	87.8		P	80 - 120
Tetramethrin	96.3		P	80 - 120
Trans-Nonachlor	113		P	80 - 120
Triclosan Methyl	89.4		P	80 - 120
Trifluralin	94.5		P	80 - 120

Quality Assurance Report

Calibration Verification

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision	MS
			LCS	SMP	MS		
DEP SOP: NU-094-1	Color (true)	97.0				2.27	
	Color (true)	96.5				1.46	
	Color (true)	98.2				0.228	
	Color (true)	101				0.315	
EPA 180.1 Rev. 2.0	Turbidity	104				6.51	
EPA 200.7 Rev. 4.4	Calcium	102	98.6	99.0			0.962
	Iron	99.8	99.1	98.8	97.6		0.320
	Magnesium	101	98.7	97.1	97.0		1.29
	Potassium	104	107	106	105		0.806
	Sodium	105	103	103	101		0.191
	Strontium	97.7	94.9	94.7	94.3		0.170
	Tin	98.3	97.1	97.5	96.7		0.411
	Titanium	98.2	98.3	99.4	98.0		1.11
	Vanadium	96.9	99.6	101	98.9		1.09
	Zinc	96.7	95.8	96.8	95.5		0.998
EPA 200.8 Rev. 5.4	Aluminum	99.1	98.4	97.9	98.1		0.532
	Antimony	99.1	101	99.9	98.0		0.727
	Arsenic	99.1	98.2	97.9	95.9		0.371
	Barium	98.3	99.0	98.1	93.3		0.812
	Beryllium	96.2	94.1	95.1	95.1		0.0062
	Boron	105	110	106	106		0.426
	Cadmium	98.9	101	102	97.5		1.13
	Chromium	104	102	98.5	101		3.55
	Cobalt	99.4	98.5	98.4	99.1		0.145
	Copper	99.3	100	98.2	96.7		1.48
	Lead	99.1	99.4	99.1	100		0.312
	Manganese	100	101	102	106		1.37
	Molybdenum	97.8	101	99.4	99.6		1.25
	Nickel	98.2	96.9	95.6	98.6		1.29
	Selenium	98.4	97.0	94.2	87.5		2.99
	Silver	104	104	104	103		0.0893
	Thallium	96.6	99.0	100	99.8		1.01
EPA 300.0 Rev. 2.1	Chloride	101	99.6	101		0.348	
	Sulfate	99.9	103	102		0.0781	
EPA 350.1 Rev. 2.0	Ammonia-N	96.4	95.4	96.2			0.636
	Ammonia-N	97.8	104	103			0.440
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	105	110			3.13
	Kjeldahl Nitrogen	99.1	102	103			1.01
EPA 353.2 Rev. 2.0	NO2NO3-N	102	95.0	95.0			0.0
	NO2NO3-N	100	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	103	106	101			3.54
	Total-P	106	108	109			0.967
	Total-P	102	102	106			3.75
EPA 8270E	Aldrin	86.3	71.9	67.0			6.94
	Alpha-BHC	95.8	96.3	85.2			12.3
	Alpha-Chlordane	76.0	70.2	53.6			23.9
	Beta-BHC	125	97.2	99.8			2.64
	Beta-Cyfluthrin	54.7	88.8	84.7			4.77
	Bifenthrin	49.9	75.9	62.8			18.8
	Chlorothalonil	77.1	106	91.0			14.9
	Cis-Nonachlor	78.6	64.6	59.8			7.66
	Cypermethrin	41.1	79.7	73.5			8.11
	Dacthal	83.6	73.7	70.9			3.96
	DDD-p,p'	64.2	55.6	49.4			11.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	DDE-p,p'	75.3	66.1	60.1		9.51
	DDT-p,p'	77.4	77.2	64.0		18.7
	Delta-BHC	95.7	97.7	99.4		1.60
	Deltamethrin	61.9	113	97.7		14.5
	Dichlobenil	47.9	23.1	22.9		0.720
	Dicofol	50.7	58.1	48.7		17.6
	Dieldrin	78.2	66.7	64.5		3.43
	Endosulfan I	113	155	146		6.04
	Endosulfan II	102	90.2	88.1		2.44
	Endosulfan Sulfate	89.9	71.0	69.4		2.26
	Endrin	87.5	75.8	71.9		5.36
	Endrin Aldehyde	51.7	23.8	25.3		6.03
	Endrin Ketone	153	203	177		13.4
	Esfenvalerate	55.2	96.0	87.0		9.77
	Ethalfuralin	78.8	69.5	65.2		6.39
	Fenpropathrin	61.2	78.7	71.1		10.2
	Gamma-BHC	49.4	68.3	69.7		2.01
	Gamma-Chlordane	93.2	132	95.7		28.8
	Heptachlor	71.2	78.1	67.8		14.1
	Heptachlor Epoxide	111	152	126		18.0
	Hexachlorobenzene	54.6	41.6	42.4		1.88
	Kepone	112	57.0	56.5		0.919
	Lambda-Cyhalothrin	54.8	82.3	77.4		6.17
	Methoprene	45.1	78.5	64.2		20.0
	Methoxychlor	81.2	97.2	86.5		11.6
	MGK-264	73.0	72.3	65.2		10.4
	Mirex	62.6	58.8	47.4		21.6
	Oxychlordane	105	163	136		17.7
	PCB-1016	83.3	82.7	83.1		0.493
	PCB-1260	80.2	60.0	59.7		0.489
	Permethrin	55.8	87.2	76.5		13.1
	Phenothrin	43.4	80.5	67.8		17.1
	Piperonyl Butoxide	70.2	92.1	74.4		21.3
	Prallethrin	72.2	77.6	65.3		17.1
	Tau-Fluvalinate	42.2	73.0	65.9		10.3
	Tetramethrin	58.9	101	90.8		10.7
	Trans-Nonachlor	80.0	67.6	61.2		9.99
	Triclosan Methyl	102	129	107		19.0
	Trifluralin	83.4	81.4	69.8		15.3
EPA 8276	Chlordane	92.2	77.8	93.4		18.3
	Toxaphene	93.1	77.4	92.7		18.0
EPA 8321B	2,4-D	112	81.7	76.0		7.30
	2,4,5-T	135	73.2	92.6		23.4
	Acesulfame K	132	136	138		1.04
	Acetaminophen	95.5	89.8	94.7		5.34
	Acetamiprid	85.8	64.1	67.6		5.41
	Afidopyropen	67.3	70.6	63.4		10.8
	AMPA	90.4	87.1	89.4		2.64
	Bentazon	96.9	27.8	32.0		9.47
	Benzovindiflupyr	87.5	81.8	82.9		1.39
	Carbamazepine	86.8	65.5	66.3		1.12
	Clothianidin	97.8	76.4	81.9		6.94
	Dinotefuran	106	84.1	87.7		4.15
	Diuron	80.8	61.5	63.4		3.09

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Endothall	81.0	104	111		6.04
	Fenuron	98.8	57.5	61.1		6.03
	Fluridone	88.9	69.8	74.1		5.98
	Glufosinate	96.4	98.8	93.8		5.25
	Glyphosate	93.7	83.2	89.6		7.49
	Hydrocodone	101	72.3	77.5		6.90
	Ibuprofen	76.2	65.9	63.6		3.67
	Imazapyr	102				1.24
	Imidacloprid	95.3	103	109		5.42
	Linuron	88.7	70.3	72.3		2.80
	Mandestrobin	96.7	87.3	88.7		1.58
	MCPP	101	83.0	80.8		2.75
	Naproxen	108	93.7	78.2		18.0
	Primidone	86.7	81.1	89.2		9.55
	Pyraclostrobin	92.2	87.3	86.2		1.22
	Silvex	104	83.8	85.8		2.45
	Sucralose	83.7	78.9	86.3		8.89
	Thiamethoxam	99.1	82.7	87.2		5.40
	Tolfenpyrad	47.9	59.5	57.3		3.73
	Triclopyr	128	77.3	81.7		5.50
SM 2320 B-2011	Total Alkalinity	97.1			0.252	
	Total Alkalinity	97.4			1.14	
SM 2540 C-2015	TDS	94.8			8.31	
	TDS	94.4			5.00	
SM 2540 D-2015	TSS	96.0				
	TSS	108				
	TSS	93.6			6.45	
SM 4500-F- C-2011	Fluoride	105	104	105		0.480
	Fluoride	98.0	104	104		0.509
SM 5310 B-2014	Organic Carbon	97.1	97.1	97.2		0.0759
	Organic Carbon	98.7	92.9	92.4		0.392
	Organic Carbon	96.4	90.2	90.5		0.265

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2466686, 2466688, 2466690, 2466692
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2466686, 2466688, 2466690, 2466692
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2466718
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2466718
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2466686, 2466688, 2466690, 2466692
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2466686, 2466688, 2466690, 2466692
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2466687, 2466689, 2466691, 2466693
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2466687, 2466689, 2466691, 2466693
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2466687, 2466689, 2466691, 2466693
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2466687, 2466689, 2466691, 2466693
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2466705
EPA 8270E	PCBs in water matrices by GC/MS/MS	2466705
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2466705
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2466714, 2466715

Reference Method Descriptions

Method	Description	Associated Samples
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2466686, 2466688, 2466690, 2466692
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2466718
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2466686, 2466688, 2466690, 2466692
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2466686, 2466688, 2466690, 2466692
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2466686, 2466688, 2466690, 2466692
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2466687, 2466689, 2466691, 2466693

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	02/07/2024			02/07/2024 13:51	Chandler E Cox	2466686
	02/07/2024			02/07/2024 13:58	Chandler E Cox	2466688
	02/07/2024			02/07/2024 14:09	Chandler E Cox	2466690
	02/07/2024			02/07/2024 14:21	Chandler E Cox	2466692
EPA 180.1 Rev. 2.0	02/07/2024			02/07/2024 13:20	Dipa Joshi	2466686
	02/07/2024			02/07/2024 13:23	Dipa Joshi	2466688
	02/07/2024			02/07/2024 13:32	Dipa Joshi	2466690
	02/07/2024			02/07/2024 13:34	Dipa Joshi	2466692
EPA 200.7 Rev. 4.4	02/07/2024	02/09/2024 12:40	George D Taylor	02/13/2024 23:17	McKinley C Carter	2466718
	02/07/2024	02/09/2024 12:40	George D Taylor	02/16/2024 16:41	Chase Roberts	2466718
EPA 200.8 Rev. 5.4	02/07/2024	02/09/2024 12:40	George D Taylor	02/13/2024 20:54	Conrad Hartmann	2466718
	02/07/2024	02/09/2024 12:40	George D Taylor	02/16/2024 21:57	Emily M Philpot	2466718
EPA 300.0 Rev. 2.1	02/07/2024			02/09/2024 09:23	James L Waggeberby	2466686
	02/07/2024			02/09/2024 09:38	James L Waggeberby	2466688
	02/07/2024			02/09/2024 09:53	James L Waggeberby	2466690
	02/07/2024			02/09/2024 10:08	James L Waggeberby	2466692
EPA 350.1 Rev. 2.0	02/07/2024			02/08/2024 11:34	Kenneth H Lee	2466689
	02/07/2024			02/08/2024 11:35	Kenneth H Lee	2466691
	02/07/2024			02/08/2024 12:38	Khloe J Berg	2466687
	02/07/2024			02/08/2024 12:39	Khloe J Berg	2466693
EPA 351.2 Rev. 2.0	02/07/2024	02/12/2024 13:17	Ping Hua	02/13/2024 10:10	Ping Hua	2466687
	02/07/2024	02/12/2024 13:17	Ping Hua	02/13/2024 10:12	Ping Hua	2466693
	02/07/2024	02/12/2024 15:21	Simonne.V. Calhoun	02/13/2024 13:49	Ping Hua	2466689
	02/07/2024	02/12/2024 15:21	Simonne.V. Calhoun	02/13/2024 13:51	Ping Hua	2466691
EPA 353.2 Rev. 2.0	02/07/2024			02/08/2024 15:02	Fadila Guebre	2466689
	02/07/2024			02/08/2024 15:03	Fadila Guebre	2466691
	02/07/2024			02/09/2024 13:30	Fadila Guebre	2466687
	02/07/2024			02/09/2024 13:31	Fadila Guebre	2466693
EPA 365.1 Rev. 2.0	02/07/2024	02/09/2024 11:48	Adam P Silver	02/12/2024 14:19	Chandler E Cox	2466693
	02/07/2024	02/09/2024 11:48	Adam P Silver	02/13/2024 15:38	James L Waggeberby	2466687
	02/07/2024	02/09/2024 11:48	Adam P Silver	02/13/2024 15:41	James L Waggeberby	2466689
	02/07/2024	02/09/2024 11:48	Adam P Silver	02/13/2024 15:57	James L Waggeberby	2466691
EPA 8270E	02/07/2024	02/12/2024 08:00	Fe-Val Siddell	02/16/2024 19:05	Julie Wi	2466705
	02/07/2024	02/12/2024 08:00	Fe-Val Siddell	02/21/2024 22:37	Vandana T. Nagar	2466705
EPA 8276	02/07/2024	02/12/2024 08:00	Fe-Val Siddell	02/18/2024 07:14	Arthur Maknenko	2466705
EPA 8321B	02/07/2024	02/07/2024 11:30	Tae K Lee	02/07/2024 14:45	Tae K Lee	2466714
	02/07/2024	02/07/2024 11:30	Tae K Lee	02/07/2024 14:59	Tae K Lee	2466715
	02/07/2024	02/07/2024 11:30	Tae K Lee	02/07/2024 16:10	Tae K Lee	2466714
	02/07/2024	02/07/2024 11:30	Tae K Lee	02/07/2024 16:23	Tae K Lee	2466715
	02/07/2024	02/07/2024 11:30	Tae K Lee	02/07/2024 17:05	Tae K Lee	2466714

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	02/07/2024	02/08/2024 09:00	Hoor Shaik	02/08/2024 19:44	Juyoung Kim	2466715
	02/07/2024	02/08/2024 09:00	Hoor Shaik	02/08/2024 22:59	Juyoung Kim	2466714
SM 2320 B-2011	02/07/2024			02/15/2024 04:02	Dale L. Simmons	2466688
	02/07/2024			02/15/2024 04:16	Dale L. Simmons	2466690
	02/07/2024			02/17/2024 05:44	Dale L. Simmons	2466692
	02/07/2024			02/17/2024 06:54	Dale L. Simmons	2466686
SM 2340 B-2011	02/07/2024			02/13/2024 23:17	McKinley C Carter	2466718
SM 2540 C-2015	02/07/2024			02/08/2024 16:29	Yijie Li	2466686, 2466688, 2466690, 2466692
SM 2540 D-2015	02/07/2024			02/08/2024 16:29	Yijie Li	2466686, 2466688, 2466690, 2466692
SM 4500-F- C-2011	02/07/2024			02/17/2024 04:29	Dale L. Simmons	2466692
	02/07/2024			02/17/2024 04:49	Dale L. Simmons	2466686
	02/07/2024			02/23/2024 20:21	Dale L. Simmons	2466688
	02/07/2024			02/23/2024 20:26	Dale L. Simmons	2466690
SM 5310 B-2014	02/07/2024			02/09/2024 22:41	Khloe J Berg	2466689
	02/07/2024			02/09/2024 22:55	Khloe J Berg	2466691
	02/07/2024			02/10/2024 00:14	Khloe J Berg	2466693
	02/07/2024			02/10/2024 07:38	Khloe J Berg	2466687