

Chemical Analysis Report

NE-DIST-2018-03-27-01

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

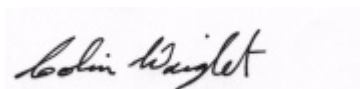
Event Description: **Gville_2018**
Request ID: **RQ-2018-03-26-20**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 30-APR-2018 11:33

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue rectangular background.

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: Little Hatchett CR @ SR 24

Collection Date/Time: 03/26/2018 10:20

Field ID: 20020109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977974	EPA 8321B	2,4-D	0.0049	I	ug/L	P342159	
		Sucralose**	0.39		ug/L	P342413	
		Bentazon	0.0033		ug/L	P342159	MS
		MCP	0.0028	I	ug/L	P342159	
		Triclopyr**	0.0040	U	ug/L	P342159	
		Imidacloprid	0.017		ug/L	P342159	MS
		Diuron	0.075		ug/L	P342159	
		Pyraclostrobin**	0.0020	U	ug/L	P342159	
		Primidone**	0.036		ug/L	P342159	
		Linuron	0.0040	U	ug/L	P342159	
		Acetaminophen**	0.59		ug/L	P342159	
		Fenuron	0.016	U	ug/L	P342159	
		Imazapyr**	0.012	I	ug/L	P342159	
		Carbamazepine**	4.0E-04	U	ug/L	P342159	
		Fluridone**	8.0E-04	U	ug/L	P342159	

Ref. Method and Comment:

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

Sample Location: Montecocha CR @ CR 340(NE 153th Ave)

Collection Date/Time: 03/26/2018 09:55

Field ID: 21030112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977922	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P342269	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P342507	
		Sulfate	0.60		mg SO4/L	P342510	
	SM 2120 B	Color (true)	310		PCU	P342263	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P342531	RPD
	SM 2540 C-97	TDS	57		mg/L	P342575	
	SM 2540 D-97	TSS	3	I	mg/L	P342630	
	SM 4500 F-C-97	Fluoride	0.067	I	mg F/L	P342536	
1977925	EPA 350.1 Rev. 2.0	Ammonia-N	0.040		mg N/L	P342681	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P342281	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P342336	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P342356	
	SM 5310 B-00	Organic Carbon	39		mg C/L	P342873	
1977928	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.14		mg P/L	P342315	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Montecocha CR @ CR 340(NE 153th Ave)

Collection Date/Time: 03/26/2018 09:55

Field ID: 21030112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977975	EPA 8321B	2,4-D	0.0020	U	ug/L	P342159	

Field ID: 21030112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977975	EPA 8321B	Sucralose**	0.010	U	ug/L	P342413	
		Bentazon	8.0E-04	U	ug/L	P342159	MS
		MCP	0.0020	U	ug/L	P342159	
		Triclopyr**	0.0040	U	ug/L	P342159	
		Imidacloprid	0.0020	U	ug/L	P342159	MS
		Diuron	0.0020	U	ug/L	P342159	
		Pyraclostrobin**	0.0020	U	ug/L	P342159	
		Primidone**	0.0040	U	ug/L	P342159	
		Linuron	0.0040	U	ug/L	P342159	
		Acetaminophen**	0.016	I	ug/L	P342159	
		Fenuron	0.016	U	ug/L	P342159	
		Imazapyr**	0.017		ug/L	P342159	
		Carbamazepine**	4.0E-04	U	ug/L	P342159	
		Fluridone**	8.0E-04	U	ug/L	P342159	

Ref. Method and Comment:

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

Sample Location: Blues Creek at NW 71st Street, Gainesville

Collection Date/Time: 03/26/2018 10:45

Field ID: 21030089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977976	EPA 8321B	2,4-D	0.0020	U	ug/L	P342159	
		Sucralose**	0.21		ug/L	P342413	
		Bentazon	0.0025	I	ug/L	P342159	MS
		MCP	0.0020	U	ug/L	P342159	
		Triclopyr**	0.0040	U	ug/L	P342159	
		Imidacloprid	0.026		ug/L	P342159	MS
		Diuron	0.0057	I	ug/L	P342159	
		Pyraclostrobin**	0.0020	U	ug/L	P342159	
		Primidone**	0.0040	U	ug/L	P342159	
		Linuron	0.0040	U	ug/L	P342159	
		Acetaminophen**	0.0080	U	ug/L	P342159	
		Fenuron	0.016	U	ug/L	P342159	
		Imazapyr**	0.084		ug/L	P342159	
		Carbamazepine**	0.010		ug/L	P342159	
		Fluridone**	8.0E-04	U	ug/L	P342159	

Ref. Method and Comment:

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

Sample Location: Calf Pond Center

Collection Date/Time: 03/26/2018 11:50

Field ID: G1NE0862

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977923	EPA 180.1 Rev. 2.0	Turbidity	5.3		NTU	P342269	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P342507	
		Sulfate	8.7		mg SO4/L	P342510	
	SM 2120 B	Color (true)	150		PCU	P342263	

Field ID: G1NE0862

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977923	SM 2320 B-97	Total Alkalinity	75		mg CaCO3/L	P342531	RPD
	SM 2540 C-97	TDS	157	A	mg/L	P342575	
	SM 2540 D-97	TSS	3	IA	mg/L	P342630	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P342536	
1977926	EPA 350.1 Rev. 2.0	Ammonia-N	0.045		mg N/L	P342681	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P342281	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P342336	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P342356	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P342873	
1977929	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.060		mg P/L	P342315	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Alice Center

Collection Date/Time: 03/26/2018 12:55

Field ID: 20020052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977924	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P342269	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P342507	
		Sulfate	19		mg SO4/L	P342510	
	SM 2120 B	Color (true)	46		PCU	P342263	
	SM 2320 B-97	Total Alkalinity	61		mg CaCO3/L	P342531	RPD
	SM 2540 C-97	TDS	133	A	mg/L	P342576	
	SM 2540 D-97	TSS	4	IA	mg/L	P342631	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P342536	
1977927	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P342681	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P342309	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P342336	
	EPA 365.1 Rev. 2.0	Total-P	0.60		mg P/L	P342356	
	SM 5310 B-00	Organic Carbon	7.2		mg C/L	P342873	
1977930	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.51		mg P/L	P342315	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Alice Outlet @ Gale Lemerand Dr.

Collection Date/Time: 03/26/2018 12:30

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977931	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P342269	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P342507	
		Sulfate	43		mg SO4/L	P342510	
	SM 2120 B	Color (true)	28		PCU	P342263	
	SM 2320 B-97	Total Alkalinity	112		mg CaCO3/L	P342531	RPD
	SM 2540 C-97	TDS	227		mg/L	P342576	

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977931	SM 2540 D-97	TSS	3	I	mg/L	P342631	
	SM 4500 F-C-97	Fluoride	0.39		mg F/L	P342536	
1977932	EPA 350.1 Rev. 2.0	Ammonia-N	0.055		mg N/L	P342681	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P342309	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P342336	
	EPA 365.1 Rev. 2.0	Total-P	0.84		mg P/L	P342482	
	SM 5310 B-00	Organic Carbon	5.8		mg C/L	P342873	
1977933	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.77		mg P/L	P342315	
1977972	EPA 8321B	Aldicarb	0.020	U	ug/L	P342159	
		Aldicarb Sulfone	0.0020	U	ug/L	P342159	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P342159	
		Carbaryl	0.0020	U	ug/L	P342159	
		Carbofuran	0.0020	U	ug/L	P342159	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P342159	
		Methiocarb	0.0020	U	ug/L	P342159	
		Methomyl	0.0020	U	ug/L	P342159	
		Oxamyl	0.0020	U	ug/L	P342159	
		Propoxur	0.0020	U	ug/L	P342159	
1977973		2,4-D	0.0053	I	ug/L	P342159	
		Sucralose**	1.9		ug/L	P342413	
		Bentazon	8.0E-04	U	ug/L	P342159	MS
		MCP	0.0020	U	ug/L	P342159	
		Triclopyr**	0.0040	U	ug/L	P342159	
		Imidacloprid	0.027		ug/L	P342159	MS
		Diuron	0.012		ug/L	P342159	
		Pyraclostrobin**	0.0020	U	ug/L	P342159	
		Primidone**	0.0040	U	ug/L	P342159	
		Linuron	0.0040	U	ug/L	P342159	
		Acetaminophen**	0.0080	U	ug/L	P342159	
		Fenuron	0.016	U	ug/L	P342159	
		Imazapyr**	0.056		ug/L	P342159	
		Carbamazepine**	0.0015	I	ug/L	P342159	
		Fluridone**	8.0E-04	U	ug/L	P342159	
		Glyphosate**	2.1		ug/L	P342247	
		AMPA**	0.47		ug/L	P342247	
1977977	EPA 8270D	Aldrin	4.1	U	ng/L	P342551	
		Alpha-BHC	2.1	U	ng/L	P342551	
		Beta-BHC	4.1	U	ng/L	P342551	
		Delta-BHC	4.1	U	ng/L	P342551	
		Gamma-BHC	4.1	U	ng/L	P342551	
		Carbophenothion	4.1	UJ	ng/L	P342551	RPD
		Chlorothalonil	2.1	U	ng/L	P342551	
		Cypermethrin	21	U	ng/L	P342551	
		DDD-p,p'	3.1	U	ng/L	P342551	

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977977	EPA 8270D	DDE-p,p'	3.1	U	ng/L	P342551	
		DDT-p,p'	3.1	U	ng/L	P342551	
		Dieldrin	4.1	U	ng/L	P342551	
		Endosulfan I	4.1	U	ng/L	P342551	
		Endosulfan II	4.1	U	ng/L	P342551	
		Endosulfan Sulfate	2.1	U	ng/L	P342551	
		Endrin	2.1	U	ng/L	P342551	
		Endrin Aldehyde	2.1	U	ng/L	P342551	
		Heptachlor	1.6	U	ng/L	P342551	
		Heptachlor Epoxide	2.1	U	ng/L	P342551	
		Methoxychlor	4.1	U	ng/L	P342551	
		Mirex	2.1	U	ng/L	P342551	
		Permethrin	10	U	ng/L	P342551	
		Trifluralin	1.0	U	ng/L	P342551	
		Alpha-Chlordane	1.0	U	ng/L	P342551	
		Gamma-Chlordane	1.0	U	ng/L	P342551	
		Endrin Ketone	2.1	U	ng/L	P342551	
		Dicofol	31	U	ng/L	P342551	
	EPA 8276	Chlordane**	2.6	U	ng/L	P342551	
		Toxaphene**	31	U	ng/L	P342551	
1977978	EPA 8270D	Alachlor	0.24	U	ng/L	P342308	
		Ametryn	0.31	U	ng/L	P342308	
		Atrazine	46		ng/L	P342308	
		Atrazine Desethyl	1.4	U	ng/L	P342308	
		Azinphos Methyl	2.1	U	ng/L	P342308	
		Bromacil	560		ng/L	P342308	
		Butylate	0.38	UJ	ng/L	P342308	RPD
		Chlorpyrifos Ethyl	0.24	U	ng/L	P342308	
		Chlorpyrifos Methyl	0.095	U	ng/L	P342308	
		Demeton	1.9	U	ng/L	P342308	
		Diazinon	0.12	U	ng/L	P342308	
		Disulfoton	0.47	U	ng/L	P342308	
		EPTC	1.2	UJ	ng/L	P342308	RPD
		Ethion	0.14	U	ng/L	P342308	
		Ethoprop	0.095	U	ng/L	P342308	
		Fenamiphos	0.24	U	ng/L	P342308	
		Fipronil	1.1		ng/L	P342308	
		Fipronil Sulfide	1.9		ng/L	P342308	
		Fipronil Sulfone	3.7		ng/L	P342308	
		Hexazinone	0.47	U	ng/L	P342308	
		Malathion	0.33	U	ng/L	P342308	
		Metribuzin	0.19	U	ng/L	P342308	
		Mevinphos	0.47	U	ng/L	P342308	
		Molinate	0.28	UJ	ng/L	P342308	RPD
		Norflurazon	0.47	U	ng/L	P342308	

Field ID: G3NE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977978	EPA 8270D	Pendimethalin	0.95	U	ng/L	P342308	
		Phorate	0.24	U	ng/L	P342308	
		Prometon	0.85	U	ng/L	P342308	
		Prometryn	0.19	U	ng/L	P342308	
		Simazine	87		ng/L	P342308	
		Terbufos	0.095	U	ng/L	P342308	
		Terbuthylazine	0.40	U	ng/L	P342308	
		Fonofos	0.19	U	ng/L	P342308	
		Metaxyl	0.24	U	ng/L	P342308	
		Metolachlor	0.31	I	ng/L	P342308	
		Acetochlor	0.24	U	ng/L	P342308	
		Cyanazine	0.47	UJ	ng/L	P342308	CCV
		Parathion Ethyl	0.24	U	ng/L	P342308	
		Parathion Methyl	0.24	U	ng/L	P342308	
1977979	EPA 200.7 Rev. 4.4	Calcium	54.1		mg/L	P342361	
		Iron	250		ug/L	P342361	
		Magnesium	9.33		mg/L	P342361	
		Potassium	2.9		mg/L	P342361	
		Sodium	16.8		mg/L	P342361	
	EPA 200.8 Rev. 5.4	Zinc	6.6	I	ug/L	P342361	
		Arsenic	0.86		ug/L	P342361	
		Cadmium	0.020	U	ug/L	P342361	
		Chromium	0.40	U	ug/L	P342361	
		Copper	1.16		ug/L	P342361	
		Lead	0.35		ug/L	P342361	
		Nickel	0.63	I	ug/L	P342361	
		Silver	0.010	U	ug/L	P342361	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine, Simazine and Fipronil Sulfone not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P342269

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P342361

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P342361

Component	Result	Code	Units
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342361

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342507

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342510

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P342681

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342281

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342309

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P342336

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P342356

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P342482

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P342315

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

Reference Method: EPA 8270D
Batch ID: P342308

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P342308

Component	Result	Code	Units
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P342551

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8276
Batch ID: P342551

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P342159

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P342159

Component	Result	Code	Units
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P342247

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P342413

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P342263

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P342531

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

Reference Method: SM 2540 C-97
Batch ID: P342575

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P342576

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P342630

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P342631

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P342536

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P342873

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P342361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	108		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	108		P	85 - 115
Sodium	104		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	101		P	80 - 120
Cadmium	104		P	80 - 120
Chromium	103		P	80 - 120
Copper	101		P	80 - 120
Lead	101		P	80 - 120
Nickel	100		P	80 - 120
Silver	98.5		P	80 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342507

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342510

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P342681

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342281

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342309

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P342336

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: P342356

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: P342482

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P342315

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P342308

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	91.2	92.2	P/P	74 - 119
Alachlor	91.2	93.2	P/P	75 - 118
Ametryn	71.7	71.0	P/P	59 - 137
Atrazine	94.4	101	P/P	73 - 120
Atrazine Desethyl	109	102	P/P	19 - 129
Azinphos Methyl	118	126	P/P	65 - 181
Bromacil	60.1	68.0	P/P	43 - 123
Butylate	47.1	32.2	P/P	28 - 85.0
Chlorpyrifos Ethyl	92.9	89.1	P/P	55 - 112
Chlorpyrifos Methyl	94.3	93.6	P/P	35 - 124
Cyanazine	239	249	P/P	26 - 262
Demeton	71.6	63.3	P/P	43 - 122
Diazinon	97.4	98.7	P/P	72 - 120
Disulfoton	87.9	92.1	P/P	45 - 137
EPTC	48.2	30.5	P/P	28 - 95.0
Ethion	89.3	88.4	P/P	63 - 127
Ethoprop	86.3	79.6	P/P	63 - 109
Fenamiphos	93.0	93.8	P/P	66 - 136
Fipronil	91.1	94.5	P/P	63 - 126
Fipronil Sulfide	89.3	87.8	P/P	59 - 123
Fipronil Sulfone	83.5	82.0	P/P	56 - 122
Fonofos	88.3	84.0	P/P	64 - 114
Hexazinone	96.7	103	P/P	49 - 144
Malathion	98.9	101	P/P	68 - 131
Metaxyl	86.3	91.4	P/P	57 - 126
Metolachlor	90.6	96.9	P/P	75 - 118
Metribuzin	156	149	P/P	46 - 169
Mevinphos	75.4	67.2	P/P	34 - 126
Molinate	53.9	39.1	P/P	37 - 101
Norflurazon	89.5	95.1	P/P	63 - 127
Parathion Ethyl	94.0	97.0	P/P	78 - 109
Parathion Methyl	99.9	104	P/P	74 - 123
Pendimethalin	103	102	P/P	51 - 130
Phorate	81.0	78.5	P/P	53 - 116
Prometon	83.9	85.4	P/P	66 - 124
Prometryn	82.8	81.8	P/P	66 - 124
Simazine	97.8	94.8	P/P	62 - 134
Terbufos	87.5	84.0	P/P	59 - 115
Terbutylazine	92.3	96.2	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P342551

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	65.2	69.5	P/P	24 - 89.0
Alpha-BHC	81.5	75.2	P/P	58 - 117
Alpha-Chlordane	87.3	90.2	P/P	56 - 115
Beta-BHC	104	125	P/P	55 - 137
Carbophenothion	66.8	90.7	P/P	37 - 145
Chlorothalonil	77.3	88.8	P/P	26 - 163
Cypermethrin	83.7	87.6	P/P	42 - 156
DDD-p,p'	101	108	P/P	59 - 129

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P342551

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	87.9	91.3	P/P	52 - 117
DDT-p,p'	85.1	88.7	P/P	48 - 128
Delta-BHC	108	116	P/P	59 - 158
Dicofol	89.8	83.5	P/P	19 - 124
Dieldrin	91.1	90.8	P/P	57 - 126
Endosulfan I	87.6	85.2	P/P	59 - 133
Endosulfan II	102	109	P/P	58 - 148
Endosulfan Sulfate	101	108	P/P	56 - 135
Endrin	86.3	83.3	P/P	50 - 140
Endrin Aldehyde	91.6	100	P/P	47 - 141
Endrin Ketone	93.2	97.4	P/P	63 - 123
Gamma-BHC	84.7	99.7	P/P	59 - 132
Gamma-Chlordane	84.3	88.7	P/P	55 - 112
Heptachlor	69.7	67.8	P/P	45 - 102
Heptachlor Epoxide	84.7	88.9	P/P	61 - 116
Methoxychlor	93.7	95.4	P/P	60 - 133
Mirex	73.9	76.6	P/P	40 - 98.0
Permethrin	80.5	82.2	P/P	45 - 131
Trifluralin	77.8	80.8	P/P	38 - 179

Reference Method: EPA 8276
Batch ID: P342551

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.1	82.8	P/P	47 - 125
Toxaphene	94.7	101	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P342159

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	68.0		P	40 - 150
3-Hydroxycarbofuran	83.7		P	40 - 150
Acetaminophen	90.8		P	30 - 150
Aldicarb	53.5		P	30 - 150
Aldicarb Sulfone	98.7		P	40 - 150
Aldicarb Sulfoxide	106		P	40 - 150
Bentazon	62.2		P	30 - 150
Carbamazepine	68.4		P	40 - 150
Carbaryl	57.2		P	40 - 150
Carbofuran	62.4		P	40 - 150
Diuron	66.3		P	40 - 150
Fenuron	107		P	40 - 150
Fluridone	56.8		P	40 - 150
Imazapyr	60.3		P	40 - 150
Imidacloprid	91.6		P	40 - 160
Linuron	70.2		P	40 - 150
MCPP	61.9		P	40 - 150
Methiocarb	55.8		P	40 - 150
Methomyl	94.1		P	40 - 150
Oxamyl	93.2		P	40 - 150
Primidone	105		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P342159

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	60.8		P	40 - 150
Pyraclostrobin	70.4		P	40 - 150
Triclopyr	66.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P342247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	96.2		P	40 - 150
Glyphosate	99.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P342413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	92.6		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P342531

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P342536

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.6		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P342873

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P342361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1978083	Calcium	102		P	80 - 120
1978083	Iron	107	108	P/P	80 - 120
1978083	Magnesium	103		P	80 - 120
1978083	Potassium	105	105	P/P	80 - 120
1978083	Sodium	104		P	80 - 120
1978083	Zinc	99.1	98.8	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1978083	Arsenic	101	100	P/P	80 - 120
1978083	Cadmium	105	104	P/P	80 - 120
1978083	Chromium	103	103	P/P	80 - 120
1978083	Copper	96.9	96.1	P/P	80 - 120
1978083	Lead	102	102	P/P	80 - 120
1978083	Nickel	96.3	95.7	P/P	80 - 120
1978083	Silver	97.8	98.6	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977857	Chloride	94.2		P	90 - 110
1977934	Chloride	96.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342510

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977857	Sulfate	96.6		P	90 - 110
1977934	Sulfate	97.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P342681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977859	Ammonia-N	96.6	97.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342281

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977886	Kjeldahl Nitrogen	99.9	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977927	Kjeldahl Nitrogen	98.9	96.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P342336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977860	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P342315

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977887	O-Phosphate-P	96.7	98.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P342308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977012	Acetochlor	86.8	81.9	P/P	67 - 125
1977012	Alachlor	77.6	71.3	P/P	69 - 123
1977012	Ametryn	88.5	83.4	P/P	52 - 151
1977012	Atrazine Desethyl	91.2	84.7	P/P	10 - 129
1977012	Azinphos Methyl	110	107	P/P	48 - 200
1977012	Bromacil	80.3	77.2	P/P	46 - 130
1977012	Butylate	34.1	27.0	P/P	10 - 85.0
1977012	Chlorpyrifos Ethyl	81.0	73.7	P/P	54 - 115
1977012	Chlorpyrifos Methyl	88.5	87.6	P/P	44 - 117
1977012	Cyanazine	203	190	P/P	10 - 262
1977012	Demeton	47.9	47.8	P/P	24 - 145
1977012	Diazinon	97.5	90.1	P/P	66 - 129
1977012	Disulfoton	84.0	77.6	P/P	45 - 139
1977012	EPTC	34.2	27.9	P/P	10 - 86.0
1977012	Ethion	92.1	86.8	P/P	59 - 133
1977012	Ethoprop	90.9	89.5	P/P	54 - 116
1977012	Fenamiphos	85.6	81.4	P/P	55 - 140
1977012	Fipronil	90.3	88.4	P/P	37 - 142
1977012	Fipronil Sulfide	84.2	81.3	P/P	37 - 130
1977012	Fonofos	85.7	82.4	P/P	55 - 118
1977012	Hexazinone	105	103	P/P	62 - 140
1977012	Malathion	97.8	98.5	P/P	64 - 132
1977012	Metalaxyl	84.0	78.3	P/P	55 - 129
1977012	Metolachlor	83.4	76.2	P/P	56 - 137
1977012	Metribuzin	191	182	P/P	16 - 218
1977012	Mevinphos	74.8	72.4	P/P	34 - 129
1977012	Molinate	44.5	37.2	P/P	16 - 99.0
1977012	Norflurazon	81.0	83.3	P/P	43 - 135
1977012	Parathion Ethyl	94.8	89.7	P/P	71 - 112
1977012	Parathion Methyl	102	102	P/P	65 - 127
1977012	Pendimethalin	112	103	P/P	35 - 159
1977012	Phorate	71.5	71.9	P/P	41 - 129
1977012	Prometon	90.3	85.5	P/P	56 - 140
1977012	Prometryn	83.7	74.8	P/P	65 - 130
1977012	Terbufos	87.5	84.4	P/P	53 - 126
1977012	Terbutylazine	89.7	86.4	P/P	73 - 114

Reference Method: EPA 8270D
Batch ID: P342551

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1978128	Aldrin	61.1	62.9	P/P	26 - 96.0
1978128	Alpha-BHC	81.8	92.3	P/P	51 - 123
1978128	Alpha-Chlordane	73.9	80.2	P/P	45 - 120
1978128	Beta-BHC	119	116	P/P	43 - 146
1978128	Carbophenothion	108	96.8	P/P	26 - 179
1978128	Chlorothalonil	171	138	P/P	10 - 215
1978128	Cypermethrin	92.8	99.5	P/P	35 - 169
1978128	DDD-p,p'	81.3	95.2	P/P	49 - 131
1978128	DDE-p,p'	69.3	76.6	P/P	39 - 127
1978128	DDT-p,p'	67.7	75.0	P/P	49 - 120
1978128	Delta-BHC	114	122	P/P	49 - 187

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P342551

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1978128	Dicofol	67.1	74.9	P/P	10 - 129
1978128	Dieldrin	78.0	85.4	P/P	46 - 132
1978128	Endosulfan I	92.8	96.6	P/P	57 - 130
1978128	Endosulfan II	127	119	P/P	52 - 148
1978128	Endosulfan Sulfate	115	116	P/P	55 - 129
1978128	Endrin	78.4	80.8	P/P	45 - 133
1978128	Endrin Aldehyde	78.4	90.7	P/P	26 - 140
1978128	Endrin Ketone	99.6	108	P/P	60 - 125
1978128	Gamma-BHC	117	123	P/P	50 - 145
1978128	Gamma-Chlordane	73.8	78.7	P/P	44 - 118
1978128	Heptachlor	64.2	66.5	P/P	35 - 106
1978128	Heptachlor Epoxide	79.7	88.5	P/P	52 - 123
1978128	Methoxychlor	83.4	87.4	P/P	54 - 132
1978128	Mirex	66.1	67.8	P/P	36 - 107
1978128	Permethrin	79.6	84.8	P/P	47 - 135
1978128	Trifluralin	67.1	70.9	P/P	32 - 228

Reference Method: EPA 8276

Batch ID: P342551

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1978592	Chlordane	76.4	77.1	P/P	41 - 134
1978592	Toxaphene	98.5	98.4	P/P	39 - 158

Reference Method: EPA 8321B

Batch ID: P342159

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977140	2,4-D	99.2	90.5	P/P	40 - 150
1977140	3-Hydroxycarbofuran	115	109	P/P	40 - 150
1977140	Acetaminophen	134	125	P/P	30 - 150
1977140	Aldicarb	73.6	66.9	P/P	30 - 150
1977140	Aldicarb Sulfone	138	127	P/P	40 - 150
1977140	Aldicarb Sulfoxide	84.8	77.8	P/P	40 - 150
1977140	Bentazon	26.4	26.8	F/F	30 - 150
1977140	Carbamazepine	79.9	81.8	P/P	40 - 150
1977140	Carbaryl	53.2	49.8	P/P	40 - 150
1977140	Carbofuran	61.3	62.4	P/P	40 - 150
1977140	Diuron	69.5	70.3	P/P	40 - 150
1977140	Fenuron	93.6	87.3	P/P	40 - 150
1977140	Fluridone	54.6	52.2	P/P	40 - 150
1977140	Imidacloprid	214	193	F/F	40 - 160
1977140	Linuron	83.6	74.6	P/P	40 - 150
1977140	MCPP	78.1	78.1	P/P	40 - 150
1977140	Methiocarb	71.8	70.1	P/P	40 - 150
1977140	Methomyl	89.2	85.0	P/P	40 - 150
1977140	Oxamyl	100	103	P/P	40 - 150
1977140	Primidone	120	119	P/P	40 - 150
1977140	Propoxur	57.3	54.7	P/P	40 - 150
1977140	Pyraclostrobin	72.2	68.2	P/P	40 - 150
1977140	Triclopyr	83.0	74.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P342247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977973	AMPA	90.6	96.0	P/P	40 - 150
1977973	Glyphosate	113	101	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P342413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977124	Sucralose	101	103	P/P	40 - 150

Reference Method: SM 4500 F-C-97
 Batch ID: P342536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977936	Fluoride	97.3	97.8	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P342873

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977219	Organic Carbon	100	99.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P342269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977904	Turbidity	3.90	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P342361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1978083	Calcium	0.0807	Spike	P	0 - 20
1978083	Iron	0.838	Spike	P	0 - 20
1978083	Magnesium	0.0799	Spike	P	0 - 20
1978083	Potassium	0.0475	Spike	P	0 - 20
1978083	Sodium	0.275	Spike	P	0 - 20
1978083	Zinc	0.347	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P342361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1978083	Arsenic	0.487	Spike	P	0 - 20
1978083	Cadmium	0.743	Spike	P	0 - 20
1978083	Chromium	0.170	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1978083	Copper	0.820	Spike	P	0 - 20
1978083	Lead	0.0379	Spike	P	0 - 20
1978083	Nickel	0.559	Spike	P	0 - 20
1978083	Silver	0.787	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977857	Chloride	0.757	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P342510

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977857	Sulfate	0.948	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P342681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977859	Ammonia-N	0.483	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977886	Kjeldahl Nitrogen	0.547	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P342309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977927	Kjeldahl Nitrogen	1.62	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P342336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977860	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P342356

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977927	Total-P	2.98	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P342482

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977932	Total-P	0.699	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P342315

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977887	O-Phosphate-P	1.01	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P342308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977012	Acetochlor	5.86	Spike	P	0 - 30
1977012	Alachlor	8.41	Spike	P	0 - 30
1977012	Ametryn	5.96	Spike	P	0 - 30
1977012	Atrazine	13.6	Spike	P	0 - 30
1977012	Atrazine Desethyl	4.65	Spike	P	0 - 30
1977012	Azinphos Methyl	2.56	Spike	P	0 - 30
1977012	Bromacil	2.54	Spike	P	0 - 30
1977012	Butylate	23.2	Spike	P	0 - 30
1977012	Chlorpyrifos Ethyl	9.36	Spike	P	0 - 30
1977012	Chlorpyrifos Methyl	1.07	Spike	P	0 - 30
1977012	Cyanazine	6.73	Spike	P	0 - 30
1977012	Demeton	0.157	Spike	P	0 - 30
1977012	Diazinon	7.92	Spike	P	0 - 30
1977012	Disulfoton	7.91	Spike	P	0 - 30
1977012	EPTC	20.1	Spike	P	0 - 30
1977012	Ethion	5.97	Spike	P	0 - 30
1977012	Ethoprop	1.51	Spike	P	0 - 30
1977012	Fenamiphos	5.00	Spike	P	0 - 30
1977012	Fipronil	1.11	Spike	P	0 - 30
1977012	Fipronil Sulfide	2.40	Spike	P	0 - 30
1977012	Fipronil Sulfone	6.41	Spike	P	0 - 30
1977012	Fonofos	3.92	Spike	P	0 - 30
1977012	Hexazinone	2.50	Spike	P	0 - 30
1977012	Malathion	0.716	Spike	P	0 - 30
1977012	Metalaxyl	6.92	Spike	P	0 - 30
1977012	Metolachlor	8.38	Spike	P	0 - 30
1977012	Metribuzin	4.71	Spike	P	0 - 30
1977012	Mevinphos	3.28	Spike	P	0 - 30
1977012	Molinate	18.0	Spike	P	0 - 30
1977012	Norflurazon	2.83	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P342308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977012	Parathion Ethyl	5.48	Spike	P	0 - 30
1977012	Parathion Methyl	0.188	Spike	P	0 - 30
1977012	Pendimethalin	8.53	Spike	P	0 - 30
1977012	Phorate	0.481	Spike	P	0 - 30
1977012	Prometon	5.44	Spike	P	0 - 30
1977012	Prometryn	11.3	Spike	P	0 - 30
1977012	Simazine	8.20	Spike	P	0 - 30
1977012	Terbufos	3.54	Spike	P	0 - 30
1977012	Terbuthylazine	3.72	Spike	P	0 - 30
LFB	Acetochlor	1.10	LCS	P	0 - 30
LFB	Alachlor	2.20	LCS	P	0 - 30
LFB	Ametryn	1.04	LCS	P	0 - 30
LFB	Atrazine	6.99	LCS	P	0 - 30
LFB	Atrazine Desethyl	6.67	LCS	P	0 - 30
LFB	Azinphos Methyl	6.71	LCS	P	0 - 30
LFB	Bromacil	12.3	LCS	P	0 - 30
LFB	Butylate	37.5	LCS	F	0 - 30
LFB	Chlorpyrifos Ethyl	4.19	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.721	LCS	P	0 - 30
LFB	Cyanazine	3.91	LCS	P	0 - 30
LFB	Demeton	12.3	LCS	P	0 - 30
LFB	Diazinon	1.37	LCS	P	0 - 30
LFB	Disulfoton	4.63	LCS	P	0 - 30
LFB	EPTC	45.0	LCS	F	0 - 30
LFB	Ethion	1.06	LCS	P	0 - 30
LFB	Ethoprop	8.15	LCS	P	0 - 30
LFB	Fenamiphos	0.859	LCS	P	0 - 30
LFB	Fipronil	3.62	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.65	LCS	P	0 - 30
LFB	Fipronil Sulfone	1.81	LCS	P	0 - 30
LFB	Fonofos	4.98	LCS	P	0 - 30
LFB	Hexazinone	6.75	LCS	P	0 - 30
LFB	Malathion	1.70	LCS	P	0 - 30
LFB	Metalaxyl	5.75	LCS	P	0 - 30
LFB	Metolachlor	6.69	LCS	P	0 - 30
LFB	Metribuzin	4.62	LCS	P	0 - 30
LFB	Mevinphos	11.5	LCS	P	0 - 30
LFB	Molinate	31.7	LCS	F	0 - 30
LFB	Norflurazon	6.11	LCS	P	0 - 30
LFB	Parathion Ethyl	3.14	LCS	P	0 - 30
LFB	Parathion Methyl	3.62	LCS	P	0 - 30
LFB	Pendimethalin	1.06	LCS	P	0 - 30
LFB	Phorate	3.23	LCS	P	0 - 30
LFB	Prometon	1.80	LCS	P	0 - 30
LFB	Prometryn	1.20	LCS	P	0 - 30
LFB	Simazine	3.09	LCS	P	0 - 30
LFB	Terbufos	3.99	LCS	P	0 - 30
LFB	Terbuthylazine	4.17	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P342551

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1978128	Aldrin	2.90	Spike	P	0 - 30
1978128	Alpha-BHC	12.1	Spike	P	0 - 30
1978128	Alpha-Chlordane	8.23	Spike	P	0 - 30
1978128	Beta-BHC	1.90	Spike	P	0 - 30
1978128	Carbophenothion	11.3	Spike	P	0 - 30
1978128	Chlorothalonil	20.9	Spike	P	0 - 30
1978128	Cypermethrin	6.90	Spike	P	0 - 30
1978128	DDD-p,p'	15.8	Spike	P	0 - 30
1978128	DDE-p,p'	10.0	Spike	P	0 - 30
1978128	DDT-p,p'	10.3	Spike	P	0 - 30
1978128	Delta-BHC	6.71	Spike	P	0 - 30
1978128	Dicofol	11.0	Spike	P	0 - 30
1978128	Dieldrin	9.11	Spike	P	0 - 30
1978128	Endosulfan I	4.06	Spike	P	0 - 30
1978128	Endosulfan II	6.30	Spike	P	0 - 30
1978128	Endosulfan Sulfate	0.141	Spike	P	0 - 30
1978128	Endrin	3.03	Spike	P	0 - 30
1978128	Endrin Aldehyde	14.5	Spike	P	0 - 30
1978128	Endrin Ketone	8.29	Spike	P	0 - 30
1978128	Gamma-BHC	4.96	Spike	P	0 - 30
1978128	Gamma-Chlordane	6.48	Spike	P	0 - 30
1978128	Heptachlor	3.63	Spike	P	0 - 30
1978128	Heptachlor Epoxide	10.5	Spike	P	0 - 30
1978128	Methoxychlor	4.70	Spike	P	0 - 30
1978128	Mirex	2.59	Spike	P	0 - 30
1978128	Permethrin	6.30	Spike	P	0 - 30
1978128	Trifluralin	5.52	Spike	P	0 - 30
LFB	Aldrin	6.45	LCS	P	0 - 30
LFB	Alpha-BHC	8.06	LCS	P	0 - 30
LFB	Alpha-Chlordane	3.31	LCS	P	0 - 30
LFB	Beta-BHC	19.0	LCS	P	0 - 30
LFB	Carbophenothion	30.4	LCS	F	0 - 30
LFB	Chlorothalonil	13.8	LCS	P	0 - 30
LFB	Cypermethrin	4.55	LCS	P	0 - 30
LFB	DDD-p,p'	6.99	LCS	P	0 - 30
LFB	DDE-p,p'	3.83	LCS	P	0 - 30
LFB	DDT-p,p'	4.15	LCS	P	0 - 30
LFB	Delta-BHC	6.69	LCS	P	0 - 30
LFB	Dicofol	7.29	LCS	P	0 - 30
LFB	Dieldrin	0.371	LCS	P	0 - 30
LFB	Endosulfan I	2.77	LCS	P	0 - 30
LFB	Endosulfan II	7.12	LCS	P	0 - 30
LFB	Endosulfan Sulfate	6.63	LCS	P	0 - 30
LFB	Endrin	3.61	LCS	P	0 - 30
LFB	Endrin Aldehyde	9.03	LCS	P	0 - 30
LFB	Endrin Ketone	4.40	LCS	P	0 - 30
LFB	Gamma-BHC	16.3	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.02	LCS	P	0 - 30
LFB	Heptachlor	2.80	LCS	P	0 - 30
LFB	Heptachlor Epoxide	4.84	LCS	P	0 - 30
LFB	Methoxychlor	1.81	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P342551

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	3.62	LCS	P	0 - 30
LFB	Permethrin	2.01	LCS	P	0 - 30
LFB	Trifluralin	3.75	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P342551

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1978592	Chlordane	0.910	Spike	P	0 - 30
1978592	Toxaphene	0.0415	Spike	P	0 - 30
LFB	Chlordane	13.7	LCS	P	0 - 30
LFB	Toxaphene	6.21	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P342159

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977140	2,4-D	8.34	Spike	P	0 - 30
1977140	3-Hydroxycarbofuran	4.99	Spike	P	0 - 30
1977140	Acetaminophen	6.81	Spike	P	0 - 30
1977140	Aldicarb	9.52	Spike	P	0 - 30
1977140	Aldicarb Sulfone	8.07	Spike	P	0 - 30
1977140	Aldicarb Sulfoxide	8.57	Spike	P	0 - 30
1977140	Bentazon	1.47	Spike	P	0 - 30
1977140	Carbamazepine	2.34	Spike	P	0 - 30
1977140	Carbaryl	6.52	Spike	P	0 - 30
1977140	Carbofuran	1.70	Spike	P	0 - 30
1977140	Diuron	1.22	Spike	P	0 - 30
1977140	Fenuron	6.94	Spike	P	0 - 30
1977140	Fluridone	4.53	Spike	P	0 - 30
1977140	Imidacloprid	9.88	Spike	P	0 - 30
1977140	Linuron	11.4	Spike	P	0 - 30
1977140	MCPD	0.0384	Spike	P	0 - 30
1977140	Methiocarb	2.34	Spike	P	0 - 30
1977140	Methomyl	4.79	Spike	P	0 - 30
1977140	Oxamyl	2.56	Spike	P	0 - 30
1977140	Primidone	1.17	Spike	P	0 - 30
1977140	Propoxur	4.72	Spike	P	0 - 30
1977140	Pyraclostrobin	5.83	Spike	P	0 - 30
1977140	Triclopyr	11.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P342247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977973	AMPA	4.63	Spike	P	0 - 30
1977973	Glyphosate	5.49	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P342413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977124	Sucralose	2.25	Spike	P	0 - 30

Reference Method: SM 2120 B
 Batch ID: P342263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977858	Color (true)	2.77	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P342531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977936	Total Alkalinity	4.10	Sample	F	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P342575

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977923	TDS	3.82	Sample	P	0 - 10

Reference Method: SM 2540 C-97
 Batch ID: P342576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977924	TDS	6.02	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P342536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977936	Fluoride	0.479	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P342873

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977219	Organic Carbon	0.592	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
 Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Quality Assurance Report Surrogates

Lab Sample ID: 1977972
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	53.0	P	30 - 160

Lab Sample ID: 1977973
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	55.1	P	30 - 160
EPA 8321B	2,4-D-d3	55.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	129	P	30 - 160
EPA 8321B	Acetaminophen-d4	129	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.4	P	30 - 160
EPA 8321B	Diuron-d6	71.8	P	30 - 160
EPA 8321B	Diuron-d6	71.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.6	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	99.6	P	40 - 160
EPA 8321B	Primidone-d5	115	P	30 - 160
EPA 8321B	Primidone-d5	115	P	30 - 160
EPA 8321B	Sucralose-d6	95.6	P	40 - 160

Lab Sample ID: 1977974
Field Sample ID: 20020109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	122	P	30 - 160
EPA 8321B	Carbamazepine-d10	106	P	30 - 160
EPA 8321B	Diuron-d6	78.9	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	40 - 160

Lab Sample ID: 1977975
Field Sample ID: 21030112

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	126	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Diuron-d6	76.2	P	30 - 160
EPA 8321B	Primidone-d5	81.9	P	30 - 160
EPA 8321B	Sucralose-d6	115	P	40 - 160

Lab Sample ID: 1977976
Field Sample ID: 21030089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	131	P	30 - 160
EPA 8321B	Carbamazepine-d10	118	P	30 - 160
EPA 8321B	Diuron-d6	81.0	P	30 - 160
EPA 8321B	Primidone-d5	94.8	P	30 - 160
EPA 8321B	Sucralose-d6	118	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1977977
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	65.1	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	52.8	P	34 - 101
EPA 8276	Decachlorobiphenyl	52.2	P	31 - 108
EPA 8276	PCNB	96.6	P	62 - 142

Lab Sample ID: 1977978
Field Sample ID: G3NE0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	100	P	71 - 126
EPA 8270D	Terbufos-d10	94.9	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
Run ID: A82875
Included Lab Sample IDs: 1977922, 1977923, 1977924, 1977931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.2	98.4	P/P	85 - 115
Color (true)	99.6	99.3	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A82876
Included Lab Sample IDs: 1977922, 1977923, 1977924, 1977931

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A82892
Included Lab Sample IDs: 1977922, 1977923, 1977924, 1977931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.6	101	P/P	90 - 110
Sulfate	98.9	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A82895
Included Lab Sample IDs: 1977928, 1977929, 1977930, 1977933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.2	P/P	90 - 110
O-Phosphate-P	102	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A82901
Included Lab Sample IDs: 1977973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A82901

Included Lab Sample IDs: 1977973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	111	P/P	70 - 130
Glyphosate	105	101	P/P	70 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A82906

Included Lab Sample IDs: 1977925, 1977926, 1977927, 1977932

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A82915

Included Lab Sample IDs: 1977925, 1977926, 1977927

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A82953

Included Lab Sample IDs: 1977979

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A82956

Included Lab Sample IDs: 1977925, 1977926, 1977927, 1977932

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

Reference Method: SM 2320 B-97

Run ID: A82967

Included Lab Sample IDs: 1977922, 1977923, 1977924, 1977931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.4	99.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A82967

Included Lab Sample IDs: 1977922, 1977923, 1977924, 1977931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A82969

Included Lab Sample IDs: 1977973, 1977974, 1977975, 1977976

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	85.9	77.4	P/P	50 - 150
3-Hydroxycarbofuran	118	120	P/P	60 - 150
Acetaminophen	104	110	P/P	60 - 150
Aldicarb	106	112	P/P	60 - 150
Aldicarb Sulfone	109	116	P/P	50 - 150
Aldicarb Sulfoxide	117	119	P/P	50 - 150
Bentazon	84.4	88.0	P/P	50 - 150
Carbamazepine	108	110	P/P	60 - 150
Carbaryl	111	106	P/P	60 - 150
Carbofuran	122	117	P/P	50 - 150
Diuron	122	125	P/P	60 - 150
Fenuron	111	111	P/P	60 - 150
Fluridone	103	104	P/P	60 - 160
Imazapyr	99.7	89.5	P/P	50 - 150
Imidacloprid	100	115	P/P	60 - 150
Linuron	119	119	P/P	60 - 150
MCPP	92.1	87.6	P/P	50 - 150
Methiocarb	118	117	P/P	50 - 150
Methomyl	112	115	P/P	50 - 150
Oxamyl	112	121	P/P	50 - 150
Primidone	99.6	110	P/P	60 - 150
Propoxur	117	111	P/P	50 - 150
Pyraclostrobin	117	116	P/P	60 - 150
Triclopyr	95.4	90.2	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A82977

Included Lab Sample IDs: 1977932

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A83017

Included Lab Sample IDs: 1977925, 1977926, 1977927, 1977932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	99.1	P/P	90 - 110
Ammonia-N	99.1	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A83032

Included Lab Sample IDs: 1977973, 1977974, 1977975, 1977976

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	103	97.6	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A83057

Included Lab Sample IDs: 1977977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Toxaphene	98.8		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A83063

Included Lab Sample IDs: 1977979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	98.4	97.1	P/P	90 - 110
Cadmium	99.6	98.7	P/P	90 - 110
Chromium	99.5	101	P/P	90 - 110
Copper	97.2	96.7	P/P	90 - 110
Lead	97.9	98.3	P/P	90 - 110
Nickel	96.8	97.1	P/P	90 - 110
Silver	101	101	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A83069

Included Lab Sample IDs: 1977925, 1977926, 1977927, 1977932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.5	96.0	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A83100

Included Lab Sample IDs: 1977977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.2		P	80 - 120
Alpha-BHC	97.3		P	80 - 120
Alpha-Chlordane	98.4		P	80 - 120
Beta-BHC	98.0		P	80 - 120
Carbophenothion	94.4		P	80 - 120
Chlorothalonil	112		P	80 - 120
Cypermethrin	90.1		P	80 - 120
DDD-p,p'	97.6		P	80 - 120
DDE-p,p'	99.7		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	92.6		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	97.0		P	80 - 120
Endosulfan I	91.9		P	80 - 120
Endosulfan II	96.3		P	80 - 120
Endosulfan Sulfate	99.7		P	80 - 120
Endrin	93.6		P	80 - 120
Endrin Aldehyde	90.6		P	80 - 120
Endrin Ketone	94.9		P	80 - 120
Gamma-BHC	111		P	80 - 120
Gamma-Chlordane	97.9		P	80 - 120
Heptachlor	96.3		P	80 - 120
Heptachlor Epoxide	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A83100

Included Lab Sample IDs: 1977977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	105		P	80 - 120
Mirex	99.4		P	80 - 120
Permethrin	85.0		P	80 - 120
Trifluralin	98.1		P	80 - 120

Reference Method: EPA 8270D

Run ID: A83227

Included Lab Sample IDs: 1977978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.8		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	95.3		P	80 - 120
Atrazine	95.7		P	80 - 120
Atrazine Desethyl	108		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Butylate	98.4		P	80 - 120
Chlorpyrifos Ethyl	97.7		P	80 - 120
Chlorpyrifos Methyl	97.4		P	80 - 120
Cyanazine	128*		F	80 - 120
Demeton	93.8		P	80 - 120
Diazinon	98.0		P	80 - 120
Disulfoton	92.8		P	80 - 120
EPTC	98.7		P	80 - 120
Ethion	93.1		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	94.1		P	80 - 120
Fipronil	96.8		P	80 - 120
Fipronil Sulfide	94.7		P	80 - 120
Fipronil Sulfone	94.0		P	80 - 120
Fonofos	98.3		P	80 - 120
Hexazinone	93.7		P	80 - 120
Malathion	97.5		P	80 - 120
Metaxyl	95.7		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	111		P	80 - 120
Mevinphos	96.7		P	80 - 120
Molinate	99.6		P	80 - 120
Norflurazon	99.5		P	80 - 120
Parathion Ethyl	94.6		P	80 - 120
Parathion Methyl	95.3		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	98.2		P	80 - 120
Prometon	97.8		P	80 - 120
Prometryn	97.8		P	80 - 120
Terbufos	95.2		P	80 - 120
Terbuthylazine	96.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A83250
Included Lab Sample IDs: 1977978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	99.5		P	80 - 120
Simazine	91.3		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						3.90	
EPA 200.7 Rev. 4.4	Calcium	104		102				0.0807
	Iron	108		107	108			0.838
	Magnesium	105		103				0.0799
	Potassium	108		105	105			0.0475
	Sodium	104		104				0.275
	Zinc	100		99.1	98.8			0.347
EPA 200.8 Rev. 5.4	Arsenic	101		101	100			0.487
	Cadmium	104		105	104			0.743
	Chromium	103		103	103			0.170
	Copper	101		96.9	96.1			0.820
	Lead	101		102	102			0.0379
	Nickel	100		96.3	95.7			0.559
	Silver	98.5		97.8	98.6			0.787
EPA 300.0 Rev. 2.1	Chloride	97.4		94.2	96.5		0.757	
	Sulfate	97.7		96.6	97.1		0.948	
EPA 350.1 Rev. 2.0	Ammonia-N	96.9		96.6	97.1			0.483
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.6		99.9	101			0.547
	Kjeldahl Nitrogen	104		98.9	96.6			1.62
EPA 353.2 Rev. 2.0	NO2NO3-N	104		104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	103						2.98
	Total-P	102						0.699
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1		96.7	98.0			1.01
EPA 8270D	Acetochlor	92.2	91.2	86.8	81.9	1.10		5.86
	Alachlor	93.2	91.2	77.6	71.3	2.20		8.41
	Aldrin	65.2	69.5	61.1	62.9	6.45		2.90
	Alpha-BHC	81.5	75.2	81.8	92.3	8.06		12.1
	Alpha-Chlordane	87.3	90.2	73.9	80.2	3.31		8.23
	Ametryn	71.0	71.7	88.5	83.4	1.04		5.96
	Atrazine	101	94.4			6.99		13.6
	Atrazine Desethyl	102	109	91.2	84.7	6.67		4.65
	Azinphos Methyl	118	126	110	107	6.71		2.56
	Beta-BHC	104	125	119	116	19.0		1.90
	Bromacil	60.1	68.0	80.3	77.2	12.3		2.54
	Butylate	47.1	32.2	34.1	27.0	37.5		23.2
	Carbophenothion	66.8	90.7	108	96.8	30.4		11.3
	Chlorothalonil	77.3	88.8	171	138	13.8		20.9
	Chlorpyrifos Ethyl	92.9	89.1	81.0	73.7	4.19		9.36

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Chlorpyrifos Methyl	94.3	93.6	88.5	87.6	0.721	1.07
	Cyanazine	239	249	203	190	3.91	6.73
	Cypermethrin	83.7	87.6	92.8	99.5	4.55	6.90
	DDD-p,p'	101	108	81.3	95.2	6.99	15.8
	DDE-p,p'	87.9	91.3	69.3	76.6	3.83	10.0
	DDT-p,p'	85.1	88.7	67.7	75.0	4.15	10.3
	Delta-BHC	108	116	114	122	6.69	6.71
	Demeton	63.3	71.6	47.9	47.8	12.3	0.157
	Diazinon	98.7	97.4	97.5	90.1	1.37	7.92
	Dicofol	89.8	83.5	67.1	74.9	7.29	11.0
	Dieldrin	91.1	90.8	78.0	85.4	0.371	9.11
	Disulfoton	92.1	87.9	84.0	77.6	4.63	7.91
	Endosulfan I	87.6	85.2	92.8	96.6	2.77	4.06
	Endosulfan II	102	109	127	119	7.12	6.30
	Endosulfan Sulfate	101	108	115	116	6.63	0.141
	Endrin	86.3	83.3	78.4	80.8	3.61	3.03
	Endrin Aldehyde	91.6	100	78.4	90.7	9.03	14.5
	Endrin Ketone	93.2	97.4	99.6	108	4.40	8.29
	EPTC	30.5	48.2	34.2	27.9	45.0	20.1
	Ethion	88.4	89.3	92.1	86.8	1.06	5.97
	Ethoprop	79.6	86.3	90.9	89.5	8.15	1.51
	Fenamiphos	93.8	93.0	85.6	81.4	0.859	5.00
	Fipronil	94.5	91.1	90.3	88.4	3.62	1.11
	Fipronil Sulfide	87.8	89.3	84.2	81.3	1.65	2.40
	Fipronil Sulfone	82.0	83.5			1.81	6.41
	Fonofos	84.0	88.3	85.7	82.4	4.98	3.92
	Gamma-BHC	84.7	99.7	117	123	16.3	4.96
	Gamma-Chlordane	84.3	88.7	73.8	78.7	5.02	6.48
	Heptachlor	69.7	67.8	64.2	66.5	2.80	3.63
	Heptachlor Epoxide	84.7	88.9	79.7	88.5	4.84	10.5
	Hexazinone	103	96.7	105	103	6.75	2.50
	Malathion	101	98.9	97.8	98.5	1.70	0.716
	Metalaxyl	91.4	86.3	84.0	78.3	5.75	6.92
	Methoxychlor	93.7	95.4	83.4	87.4	1.81	4.70
	Metolachlor	96.9	90.6	83.4	76.2	6.69	8.38
	Metribuzin	149	156	191	182	4.62	4.71
	Mevinphos	67.2	75.4	74.8	72.4	11.5	3.28
	Mirex	73.9	76.6	66.1	67.8	3.62	2.59
	Molinate	39.1	53.9	44.5	37.2	31.7	18.0
	Norflurazon	95.1	89.5	81.0	83.3	6.11	2.83
	Parathion Ethyl	94.0	97.0	94.8	89.7	3.14	5.48
	Parathion Methyl	99.9	104	102	102	3.62	0.188
	Pendimethalin	102	103	112	103	1.06	8.53
	Permethrin	80.5	82.2	79.6	84.8	2.01	6.30
	Phorate	78.5	81.0	71.5	71.9	3.23	0.481
	Prometon	85.4	83.9	90.3	85.5	1.80	5.44
	Prometryn	81.8	82.8	83.7	74.8	1.20	11.3
	Simazine	94.8	97.8			3.09	8.20
	Terbufos	84.0	87.5	87.5	84.4	3.99	3.54
	Terbutylazine	96.2	92.3	89.7	86.4	4.17	3.72
	Trifluralin	77.8	80.8	67.1	70.9	3.75	5.52
EPA 8276	Chlordane	72.1	82.8	76.4	77.1	13.7	0.910
	Toxaphene	94.7	101	98.5	98.4	6.21	0.0415
EPA 8321B	2,4-D	68.0		99.2	90.5		8.34

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	3-Hydroxycarbofuran	83.7	115	109		4.99
	Acetaminophen	90.8	134	125		6.81
	Aldicarb	53.5	73.6	66.9		9.52
	Aldicarb Sulfone	98.7	138	127		8.07
	Aldicarb Sulfoxide	106	84.8	77.8		8.57
	AMPA	96.2	90.6	96.0		4.63
	Bentazon	62.2	26.4	26.8		1.47
	Carbamazepine	68.4	79.9	81.8		2.34
	Carbaryl	57.2	53.2	49.8		6.52
	Carbofuran	62.4	61.3	62.4		1.70
	Diuron	66.3	69.5	70.3		1.22
	Fenuron	107	93.6	87.3		6.94
	Fluridone	56.8	54.6	52.2		4.53
	Glyphosate	99.5	113	101		5.49
	Imazapyr	60.3				
	Imidacloprid	91.6	214	193		9.88
	Linuron	70.2	83.6	74.6		11.4
	MCPP	61.9	78.1	78.1		0.0384
	Methiocarb	55.8	71.8	70.1		2.34
	Methomyl	94.1	89.2	85.0		4.79
	Oxamyl	93.2	100	103		2.56
	Primidone	105	120	119		1.17
	Propoxur	60.8	57.3	54.7		4.72
	Pyraclostrobin	70.4	72.2	68.2		5.83
	Sucralose	92.6	101	103		2.25
	Triclopyr	66.8	83.0	74.1		11.4
SM 2120 B	Color (true)				2.77	
SM 2320 B-97	Total Alkalinity	100			4.10	
SM 2540 C-97	TDS				3.82	
	TDS				6.02	
SM 4500 F-C-97	Fluoride	95.6	97.3	97.8		0.479
SM 5310 B-00	Organic Carbon	96.9	100	99.4		0.592

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1977922, 1977923, 1977924, 1977931
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1977979
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1977979
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1977922, 1977923, 1977924, 1977931
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1977922, 1977923, 1977924, 1977931
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1977925, 1977926, 1977927, 1977932
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1977925, 1977926, 1977927, 1977932
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1977925, 1977926, 1977927, 1977932
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1977925, 1977926, 1977927, 1977932

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1977928, 1977929, 1977930, 1977933
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1977977
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1977978
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1977977
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1977972
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1977973
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1977973, 1977974, 1977975, 1977976
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1977973, 1977974, 1977975, 1977976
SM 2120 B / E31780	True Color measured at 450 nm	1977922, 1977923, 1977924, 1977931
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1977922, 1977923, 1977924, 1977931
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1977922, 1977923, 1977924, 1977931
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1977922, 1977923, 1977924, 1977931
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1977922, 1977923, 1977924, 1977931
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1977925, 1977926, 1977927, 1977932

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	03/27/2018			03/27/2018 15:15	DeAsia Armster	1977922, 1977923, 1977924, 1977931
EPA 200.7 Rev. 4.4	03/27/2018	03/28/2018 17:05	Elliott D. Healy	03/29/2018 15:41	Martin Acosta	1977979
EPA 200.8 Rev. 5.4	03/27/2018	03/28/2018 17:05	Elliott D. Healy	04/05/2018 19:12	Nadine Brooks	1977979
EPA 300.0 Rev. 2.1	03/27/2018			03/29/2018 20:25	Lipi Saha	1977922
	03/27/2018			03/29/2018 20:37	Lipi Saha	1977923
	03/27/2018			03/29/2018 20:49	Lipi Saha	1977924
	03/27/2018			03/29/2018 21:01	Lipi Saha	1977931
EPA 350.1 Rev. 2.0	03/27/2018			04/03/2018 14:01	Ping Hua	1977925
	03/27/2018			04/03/2018 14:03	Ping Hua	1977926
	03/27/2018			04/03/2018 14:10	Ping Hua	1977927
	03/27/2018			04/03/2018 14:12	Ping Hua	1977932
EPA 351.2 Rev. 2.0	03/27/2018	03/28/2018 10:40	Adrian Shelby	03/30/2018 09:40	Joseph Suarez	1977925
	03/27/2018	03/28/2018 10:40	Adrian Shelby	03/30/2018 09:41	Joseph Suarez	1977926
	03/27/2018	03/28/2018 10:40	Adrian Shelby	03/30/2018 09:55	Joseph Suarez	1977927
	03/27/2018	03/28/2018 10:40	Adrian Shelby	03/30/2018 10:00	Joseph Suarez	1977932
EPA 353.2 Rev. 2.0	03/27/2018			03/28/2018 11:50	Lauren Bottorf	1977925
	03/27/2018			03/28/2018 11:52	Lauren Bottorf	1977926
	03/27/2018			03/28/2018 11:53	Lauren Bottorf	1977927
	03/27/2018			03/28/2018 11:54	Lauren Bottorf	1977932
EPA 365.1 Rev. 2.0	03/27/2018	03/28/2018 13:55	Sima Feizi	03/29/2018 07:45	Beverly Y. Sanders	1977927
	03/27/2018	03/28/2018 13:55	Sima Feizi	03/29/2018 07:56	Beverly Y. Sanders	1977925
	03/27/2018	03/28/2018 13:55	Sima Feizi	03/29/2018 07:57	Beverly Y. Sanders	1977926
	03/27/2018	03/30/2018 13:51	Sima Feizi	04/02/2018 09:08	Beverly Y. Sanders	1977932
EPA 365.1 Rev. 2.0 dissolved	03/27/2018			03/27/2018 15:28	Megan Treadwell	1977929
	03/27/2018			03/27/2018 15:57	Megan Treadwell	1977928, 1977930
	03/27/2018			03/27/2018 15:58	Megan Treadwell	1977933
EPA 8270D	03/27/2018	03/28/2018 10:12	John Kaba	04/03/2018 20:06	Vandana T. Nagar	1977978
	03/27/2018	03/28/2018 10:12	John Kaba	04/09/2018 19:31	Vandana T. Nagar	1977978
	03/27/2018	03/30/2018 12:30	Rasheda Ghaffari	04/04/2018 17:40	Vandana T. Nagar	1977977
EPA 8276	03/27/2018	03/30/2018 12:30	Rasheda Ghaffari	04/03/2018 18:51	Vandana T. Nagar	1977977
EPA 8321B	03/27/2018	03/28/2018 09:00	Julie Michelle Frank	03/28/2018 11:46	Julie Michelle Frank	1977973
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 02:10	Julie Michelle Frank	1977973
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 02:44	Julie Michelle Frank	1977974
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 03:19	Julie Michelle Frank	1977975
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 03:53	Julie Michelle Frank	1977976
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 12:33	Julie Michelle Frank	1977972
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 18:53	Julie Michelle Frank	1977973
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 19:28	Julie Michelle Frank	1977974
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 20:02	Julie Michelle Frank	1977975
	03/27/2018	03/28/2018 10:00	Hoor Shaik	03/29/2018 20:37	Julie Michelle Frank	1977976

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/27/2018	03/30/2018 08:30	Julie Michelle Frank	03/30/2018 12:54	Mohammad Ghaffari	1977973
	03/27/2018	03/30/2018 08:30	Julie Michelle Frank	03/30/2018 13:10	Mohammad Ghaffari	1977974
	03/27/2018	03/30/2018 08:30	Julie Michelle Frank	03/30/2018 13:26	Mohammad Ghaffari	1977975
	03/27/2018	03/30/2018 08:30	Julie Michelle Frank	03/30/2018 13:41	Mohammad Ghaffari	1977976
SM 2120 B	03/27/2018			03/27/2018 15:28	Tanya Welborn	1977924, 1977931
	03/27/2018			03/27/2018 15:57	Tanya Welborn	1977922
	03/27/2018			03/27/2018 15:58	Tanya Welborn	1977923
SM 2320 B-97	03/27/2018			03/31/2018 02:06	Lauren Bottorf	1977922
	03/27/2018			03/31/2018 02:16	Lauren Bottorf	1977923
	03/27/2018			03/31/2018 02:26	Lauren Bottorf	1977924
	03/27/2018			03/31/2018 02:36	Lauren Bottorf	1977931
SM 2540 C-97	03/27/2018			03/28/2018 15:49	Yijie Li	1977922, 1977923, 1977924, 1977931
SM 2540 D-97	03/27/2018			03/28/2018 15:49	Yijie Li	1977922, 1977923, 1977924, 1977931
SM 4500 F-C-97	03/27/2018			03/31/2018 02:06	Lauren Bottorf	1977922
	03/27/2018			03/31/2018 02:16	Lauren Bottorf	1977923
	03/27/2018			03/31/2018 02:26	Lauren Bottorf	1977924
	03/27/2018			03/31/2018 02:36	Lauren Bottorf	1977931
SM 5310 B-00	03/27/2018			04/04/2018 22:00	Julia Storbeck	1977925
	03/27/2018			04/04/2018 22:15	Julia Storbeck	1977926
	03/27/2018			04/04/2018 22:30	Julia Storbeck	1977927
	03/27/2018			04/04/2018 22:44	Julia Storbeck	1977932