

Chemical Analysis Report

NE-DIST-2016-03-23-02

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

Event Description: **Suwannee 3**
Request ID: **RQ-2016-03-21-23**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Jacksonville, FL 32256-7577
Attn: Jeremy Parrish

For additional information please contact
Timothy W. Fitzpatrick
Liang-Tsair Lin, Ph.D.
Colin Wright, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 13-APR-2016 14:22



Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: 21030089 Blues at 71st

Collection Date/Time: 03/22/2016 09:40

Field ID: 21030089 Blues at 71st

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782730	EPA 180.1 Rev. 2.0	Turbidity	2.0	A	NTU	P300944	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P301038	
		Sulfate	6.8		mg SO4/L	P301040	
	SM 2120 B	Color (true)	310		PCU	P300896	
	SM 2320 B-97	Total Alkalinity	16		mg CaCO3/L	P301091	
	SM 2540 C-97	TDS	150	A	mg/L	P301301	
	SM 2540 D-97	TSS	3	I	mg/L	P301462	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P301094	
1782735	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P301335	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99	J	mg N/L	P301330	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.017		mg N/L	P301118	
	EPA 365.1 Rev. 2.0	Total-P	0.50		mg P/L	P301320	
	SM 5310 B-00	Organic Carbon	30		mg C/L	P301240	
1782740	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.40		mg P/L	P300918	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Refer to the narrative for an explanation of QC Codes.

Sample Location: G1NE0018 Turkey at 59th

Collection Date/Time: 03/22/2016 10:20

Field ID: G1NE0018 Turkey at 59th

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782731	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P300944	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P301038	
		Sulfate	9.8		mg SO4/L	P301040	
	SM 2120 B	Color (true)	230		PCU	P300896	
	SM 2320 B-97	Total Alkalinity	79		mg CaCO3/L	P301091	
	SM 2540 C-97	TDS	180		mg/L	P301302	
	SM 2540 D-97	TSS	3	I	mg/L	P301463	
	SM 4500 F-C-97	Fluoride	0.25		mg F/L	P301094	
1782736	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P301335	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P301330	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P301118	
	EPA 365.1 Rev. 2.0	Total-P	0.32		mg P/L	P301320	
	SM 5310 B-00	Organic Carbon	26		mg C/L	P301240	
1782741	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.26		mg P/L	P300918	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: 21030152 Hague trib at 441

Collection Date/Time: 03/22/2016 10:45

Field ID: 21030152 Hague trib at 441

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782732	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P300944	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P301038	

Field ID: 21030152 Hague trib at 441

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782732	EPA 300.0 Rev. 2.1	Sulfate	31		mg SO4/L	P301040	
	SM 2120 B	Color (true)	85	A	PCU	P300896	
	SM 2320 B-97	Total Alkalinity	133		mg CaCO3/L	P301091	
	SM 2540 C-97	TDS	248	A	mg/L	P301302	
	SM 2540 D-97	TSS	3	I	mg/L	P301463	
	SM 4500 F-C-97	Fluoride	0.30		mg F/L	P301094	
1782737	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P301336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P301330	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.7		mg N/L	P301118	
	EPA 365.1 Rev. 2.0	Total-P	0.71		mg P/L	P301320	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P301240	
1782742	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.63		mg P/L	P300918	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: 21030152 Hague trib at 441

Collection Date/Time: 03/22/2016 10:45

Field ID: 21030152 Hague trib at 441

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782765	EPA 8321B	Glyphosate**	10	U	ug/L	P301043	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P300869	MS
		Diuron	0.0020	U	ug/L	P300869	
		2,4-DB	0.0020	U	ug/L	P300869	
		Fenuron	0.0080	U	ug/L	P300869	
		2,4,5-T	0.0020	U	ug/L	P300869	RPD
		Acifluorfen	0.0020	U	ug/L	P300869	
		Imidacloprid	0.0040	U	ug/L	P300869	
		Bentazon	0.0020	U	ug/L	P300869	
		Linuron	0.0040	U	ug/L	P300869	
		Dichlorprop	0.0020	U	ug/L	P300869	
		Dinoseb	0.020	U	ug/L	P300869	
		MCPA	0.0040	U	ug/L	P300869	
		Acetaminophen**	0.0040	U	ug/L	P300869	
		MCPP	0.0040	U	ug/L	P300869	
		Picloram	0.050	U	ug/L	P300869	
		Carbamazepine**	4.0E-04	U	ug/L	P300869	
		Silvex	0.0020	U	ug/L	P300869	
		Triclopyr**	0.0040	U	ug/L	P300869	
		Primidone**	0.0080	U	ug/L	P300869	
		Fluridone**	4.0E-04	U	ug/L	P300869	RPD
1782767	EPA 8270D	Dieldrin**	0.40	UJ	ng/L	P300947	MS, SUR
1782769		Ametryn**	1.2	I	ng/L	P301022	
		Atrazine**	0.62	I	ng/L	P301022	
		Chlorpyrifos Ethyl**	0.10	U	ng/L	P301022	MS
		Chlorpyrifos Methyl**	0.10	U	ng/L	P301022	

Field ID: 21030152 Hague trib at 441

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782769	EPA 8270D	Disulfoton**	0.32	U	ng/L	P301022	MS
		Ethion**	0.15	U	ng/L	P301022	
		Ethoprop**	0.10	U	ng/L	P301022	
		Hexazinone**	3.4		ng/L	P301022	
		Malathion**	0.35	U	ng/L	P301022	
		Metribuzin**	0.20	U	ng/L	P301022	
		Mevinphos**	0.50	U	ng/L	P301022	
		Norflurazon**	0.50	U	ng/L	P301022	
		Phorate**	0.25	U	ng/L	P301022	
		Prometryn**	0.20	U	ng/L	P301022	
		Simazine**	0.50	U	ng/L	P301022	
		Atrazine Desethyl**	1.5	U	ng/L	P301022	
		Prometon**	2.6	I	ng/L	P301022	
		Fipronil**	0.25	U	ng/L	P301022	
		Molinate**	0.30	U	ng/L	P301022	
		Pendimethalin**	2.0	U	ng/L	P301022	
		Terbufos**	0.10	U	ng/L	P301022	
		EPTC**	1.2	U	ng/L	P301022	
		Terbuthylazine**	0.42	U	ng/L	P301022	
		Bromacil**	2.6		ng/L	P301022	
		Fipronil Sulfide**	0.15	U	ng/L	P301022	
		Fipronil Sulfone**	0.15	U	ng/L	P301022	
		Alachlor**	0.25	U	ng/L	P301022	
		Azinphos Methyl**	2.2	U	ng/L	P301022	
		Butylate**	0.40	U	ng/L	P301022	
		Demeton**	1.0	U	ng/L	P301022	MS
		Diazinon**	0.12	U	ng/L	P301022	
		Fenamiphos**	0.25	U	ng/L	P301022	
		Fonofos**	0.20	U	ng/L	P301022	
		Metalaxyl**	0.20	U	ng/L	P301022	CCV
		Metolachlor**	0.25	U	ng/L	P301022	
		Acetochlor**	0.25	U	ng/L	P301022	
		Cyanazine**	0.50	UJ	ng/L	P301022	
		Parathion Ethyl**	0.25	U	ng/L	P301022	
		Parathion Methyl**	0.25	U	ng/L	P301022	

Ref. Method and Comment:

USGS O-2060-01: Results confirmed in re-extraction.

EPA 8270D: Reported result qualified with J due to surrogates below control limits; the sample was subsequently re-analyzed (after expiration) with acceptable surrogate recoveries and the same analytical result was obtained. Refer to the narrative for an explanation of QC Codes.

EPA 8270D: An additional MS was lost in extraction. Refer to the narrative for an explanation of QC Codes.

Sample Location: 21030112 Montecocha @ 340

Collection Date/Time: 03/22/2016 11:20

Field ID: 21030112 Montecocha @ 340

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782733	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P300944	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P301038	

Field ID: 21030112 Montechoa @ 340

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782733	EPA 300.0 Rev. 2.1	Sulfate	0.24	I	mg SO4/L	P301040	
	SM 2120 B	Color (true)	420		PCU	P300896	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P301091	
	SM 2540 C-97	TDS	68		mg/L	P301302	
	SM 2540 D-97	TSS	2	I	mg/L	P301463	
	SM 4500 F-C-97	Fluoride	0.064	I	mg F/L	P301094	
1782738	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P301336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P301330	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301118	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P301320	
	SM 5310 B-00	Organic Carbon	42		mg C/L	P301240	
1782743	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.098		mg P/L	P300918	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: 21030146 Rhuda at 192

Collection Date/Time: 03/22/2016 11:50

Field ID: 21030146 Rhuda at 192

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782734	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P300944	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P301038	
		Sulfate	4.0		mg SO4/L	P301040	
	SM 2120 B	Color (true)	190		PCU	P300896	
	SM 2320 B-97	Total Alkalinity	10		mg CaCO3/L	P301091	
	SM 2540 C-97	TDS	73		mg/L	P301302	
	SM 2540 D-97	TSS	2	U	mg/L	P301463	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P301094	
1782739	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P301336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P301330	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P301118	
	EPA 365.1 Rev. 2.0	Total-P	0.39		mg P/L	P301761	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P301240	
1782744	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.35		mg P/L	P300918	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: blank

Collection Date/Time: 03/22/2016 10:55

Field ID: field blank

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782766	EPA 8321B	Glyphosate**	10	U	ug/L	P301043	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P300869	MS
		Diuron	0.0020	U	ug/L	P300869	
		2,4-DB	0.0020	U	ug/L	P300869	
		Fenuron	0.0080	U	ug/L	P300869	
		2,4,5-T	0.0020	U	ug/L	P300869	RPD

Field ID: field blank

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782766	USGS O-2060-01	Acifluorfen	0.0020	U	ug/L	P300869	
		Imidacloprid	0.0040	U	ug/L	P300869	
		Bentazon	0.0020	U	ug/L	P300869	
		Linuron	0.0040	U	ug/L	P300869	
		Dichlorprop	0.0020	U	ug/L	P300869	
		Dinoseb	0.020	U	ug/L	P300869	
		MCPA	0.0040	U	ug/L	P300869	
		Acetaminophen**	0.0040	U	ug/L	P300869	
		MCPP	0.0040	U	ug/L	P300869	
		Picloram	0.050	U	ug/L	P300869	
		Carbamazepine**	4.0E-04	U	ug/L	P300869	
		Silvex	0.0020	U	ug/L	P300869	
		Triclopyr**	0.0040	U	ug/L	P300869	
		Primidone**	0.0080	U	ug/L	P300869	
		Fluridone**	4.0E-04	U	ug/L	P300869	RPD
1782768	EPA 8270D	Dieldrin**	0.40	U	ng/L	P300947	MS
1782770		Ametryn**	0.32	U	ng/L	P301022	
Atrazine**		0.24	U	ng/L	P301022		
		Chlorpyrifos Ethyl**	0.097	U	ng/L	P301022	MS
		Chlorpyrifos Methyl**	0.097	U	ng/L	P301022	
		Disulfoton**	0.32	U	ng/L	P301022	
		Ethion**	0.15	U	ng/L	P301022	
		Ethoprop**	0.097	U	ng/L	P301022	
		Hexazinone**	0.48	U	ng/L	P301022	
		Malathion**	0.34	U	ng/L	P301022	MS
		Metribuzin**	0.19	U	ng/L	P301022	
		Mevinphos**	0.48	U	ng/L	P301022	
		Norflurazon**	0.48	U	ng/L	P301022	
		Phorate**	0.24	U	ng/L	P301022	
		Prometryn**	0.19	U	ng/L	P301022	
		Simazine**	0.48	U	ng/L	P301022	
		Atrazine Desethyl**	1.5	U	ng/L	P301022	
		Prometon**	0.87	U	ng/L	P301022	
		Fipronil**	0.24	U	ng/L	P301022	
		Molinate**	0.29	U	ng/L	P301022	
		Pendimethalin**	1.9	U	ng/L	P301022	
		Terbufos**	0.097	U	ng/L	P301022	
		EPTC**	1.2	U	ng/L	P301022	
		Terbuthylazine**	0.41	U	ng/L	P301022	
		Bromacil**	0.48	U	ng/L	P301022	
		Fipronil Sulfide**	0.15	U	ng/L	P301022	
		Fipronil Sulfone**	0.15	U	ng/L	P301022	
		Alachlor**	0.24	U	ng/L	P301022	
		Azinphos Methyl**	2.2	U	ng/L	P301022	
		Butylate**	0.39	U	ng/L	P301022	

Field ID: field blank

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1782770	EPA 8270D	Demeton**	0.97	U	ng/L	P301022	MS
		Diazinon**	0.12	U	ng/L	P301022	
		Fenamiphos**	0.24	U	ng/L	P301022	
		Fonofos**	0.19	U	ng/L	P301022	
		Metalaxyl**	0.19	U	ng/L	P301022	
		Metolachlor**	0.24	U	ng/L	P301022	
		Acetochlor**	0.24	U	ng/L	P301022	
		Cyanazine**	0.48	UJ	ng/L	P301022	CCV
		Parathion Ethyl**	0.24	U	ng/L	P301022	
		Parathion Methyl**	0.24	U	ng/L	P301022	

Ref. Method and Comment:

EPA 8270D: An additional MS was lost in extraction. 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: P300944

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P301038

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P301040

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P301335

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P301336

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P301330

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301118

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301320

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301761

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300918

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

Reference Method: EPA 8270D
Batch ID: P300947

Component	Result	Code	Units
Dieldrin	0.40	U	ng/L

Reference Method: EPA 8270D
Batch ID: P301022

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	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	1.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.32	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P301022

Component	Result	Code	Units
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.20	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	2.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8321B
Batch ID: P301043

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: SM 2120 B
Batch ID: P300896

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P301091

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

Reference Method: SM 2540 C-97
Batch ID: P301301

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P301302

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P301462

Component	Result	Code	Units
-----------	--------	------	-------

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
 Batch ID: P301462

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
 Batch ID: P301463

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
 Batch ID: P301094

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P301240

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

Reference Method: USGS O-2060-01
 Batch ID: P300869

Component	Result	Code	Units
2,4,5-T	0.0020	U	ug/L
2,4-D	0.0020	U	ug/L
2,4-DB	0.0020	U	ug/L
Acetaminophen	0.0040	U	ug/L
Acifluorfen	0.0020	U	ug/L
Bentazon	0.0020	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Dichlorprop	0.0020	U	ug/L
Dinoseb	0.020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
MCPA	0.0040	U	ug/L
MCPP	0.0040	U	ug/L
Picloram	0.050	U	ug/L
Primidone	0.0080	U	ug/L
Silvex	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301038

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301040

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301335

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301336

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	91.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301118

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301320

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301761

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300918

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P300947

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dieldrin	86.8	88.8	P/P	79 - 121

Reference Method: EPA 8270D
Batch ID: P301022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.1	98.1	P/P	84 - 119
Alachlor	94.7	95.7	P/P	84 - 121
Ametryn	106	109	P/P	66 - 127
Atrazine	98.5	101	P/P	72 - 119
Atrazine Desethyl	69.2	74.9	P/P	21 - 111
Azinphos Methyl	156	156	P/P	79 - 185
Bromacil	87.6	84.9	P/P	39 - 122
Butylate	58.0	48.7	P/P	36 - 94.0
Chlorpyrifos Ethyl	97.5	96.1	P/P	54 - 101
Chlorpyrifos Methyl	95.2	95.6	P/P	28 - 114
Cyanazine	142	144	P/P	58 - 201
Demeton	69.1	79.0	P/P	57 - 130
Diazinon	101	97.2	P/P	79 - 124
Disulfoton	92.0	95.7	P/P	45 - 140
EPTC	55.8	45.5	P/P	43 - 95.0
Ethion	103	105	P/P	65 - 125
Ethoprop	88.8	86.2	P/P	69 - 107
Fenamiphos	105	110	P/P	78 - 129
Fipronil	95.2	95.4	P/P	62 - 125
Fipronil Sulfide	84.4	85.3	P/P	65 - 119
Fipronil Sulfone	90.1	90.8	P/P	64 - 122
Fonofos	86.1	89.5	P/P	70 - 112
Hexazinone	110	106	P/P	44 - 147
Malathion	117	118	P/P	72 - 125
Metaxyl	87.5	87.6	P/P	83 - 113
Metolachlor	93.0	94.5	P/P	85 - 120
Metribuzin	109	109	P/P	68 - 129
Mevinphos	86.2	87.9	P/P	35 - 125
Molinate	66.2	59.5	P/P	51 - 100
Norflurazon	86.8	85.8	P/P	66 - 127
Parathion Ethyl	96.4	98.2	P/P	86 - 108
Parathion Methyl	109	105	P/P	87 - 125
Pendimethalin	78.0	77.5	P/P	53 - 136
Phorate	95.6	93.6	P/P	52 - 113
Prometon	101	94.7	P/P	67 - 125
Prometryn	95.1	93.3	P/P	73 - 114
Simazine	105	110	P/P	66 - 123
Terbufos	91.5	91.6	P/P	58 - 116
Terbutylazine	97.3	95.3	P/P	77 - 113

Reference Method: EPA 8321B
Batch ID: P301043

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	100		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P301091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P301094

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	94 - 108

Reference Method: SM 5310 B-00
Batch ID: P301240

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.0		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P300869

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	81.6		P	40 - 140
2,4-D	92.0		P	40 - 140
2,4-DB	62.8		P	40 - 140
Acetaminophen	90.4		P	40 - 140
Acifluorfen	87.2		P	40 - 140
Bentazon	87.2		P	40 - 140
Carbamazepine	124		P	40 - 140
Dichlorprop	81.2		P	40 - 140
Dinoseb	69.6		P	40 - 140
Diuron	101		P	40 - 140
Fenuron	108		P	40 - 140
Fluridone	113		P	40 - 140
Imidacloprid	95.2		P	40 - 160
Linuron	90.0		P	40 - 140
MCPA	82.8		P	40 - 140
MCPP	81.2		P	40 - 140
Picloram	77.6		P	40 - 140
Primidone	86.0		P	40 - 140
Silvex	83.6		P	40 - 140
Triclopyr	93.2		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782554	Chloride	101		P	90 - 110
1782734	Chloride	101		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782554	Sulfate	97.9		P	90 - 110
1782734	Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301335

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782685	Ammonia-N	99.1	99.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782737	Ammonia-N	100	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782735	Kjeldahl Nitrogen	88.6	94.9	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301118

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782736	NO2NO3-N	96.5	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782609	Total-P	98.8	95.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782739	Total-P	100	91.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782687	O-Phosphate-P	101	103	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P300947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782641	Dieldrin	92.0		P	79 - 121
1782753	Dieldrin	96.5	74.9	P/F	79 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P301022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1783745	Acetochlor	110	105	P/P	84 - 119
1783745	Alachlor	108	103	P/P	84 - 121
1783745	Ametryn	115	117	P/P	66 - 127
1783745	Atrazine	112	99.0	P/P	72 - 119
1783745	Atrazine Desethyl	69.3	70.6	P/P	21 - 111
1783745	Azinphos Methyl	166	164	P/P	79 - 185
1783745	Bromacil	101	97.7	P/P	39 - 122
1783745	Butylate	48.9	54.1	P/P	36 - 94.0
1783745	Chlorpyrifos Ethyl	98.7	104	P/F	54 - 101
1783745	Chlorpyrifos Methyl	97.3	100	P/P	28 - 114
1783745	Cyanazine	157	125	P/P	58 - 201
1783745	Demeton	67.6	54.7	P/F	57 - 130
1783745	Diazinon	110	107	P/P	79 - 124
1783745	Disulfoton	73.9	77.4	P/P	45 - 140
1783745	EPTC	47.3	50.6	P/P	43 - 95.0
1783745	Ethion	103	102	P/P	65 - 125
1783745	Ethoprop	82.3	91.0	P/P	69 - 107
1783745	Fenamiphos	106	108	P/P	78 - 129
1783745	Fipronil	110	104	P/P	62 - 125
1783745	Fipronil Sulfide	84.6	87.2	P/P	65 - 119
1783745	Fipronil Sulfone	92.4	94.5	P/P	64 - 122
1783745	Fonofos	85.4	88.6	P/P	70 - 112
1783745	Hexazinone	113	112	P/P	44 - 147
1783745	Malathion	116	127	P/F	72 - 125
1783745	Metalaxyl	96.7	90.8	P/P	83 - 113
1783745	Metolachlor	115	109	P/P	85 - 120
1783745	Metribuzin	116	114	P/P	68 - 129
1783745	Mevinphos	83.8	90.7	P/P	35 - 125
1783745	Molinate	62.4	65.9	P/P	51 - 100
1783745	Norflurazon	98.4	89.8	P/P	66 - 127
1783745	Parathion Ethyl	95.5	96.8	P/P	86 - 108
1783745	Parathion Methyl	116	119	P/P	87 - 125
1783745	Pendimethalin	79.5	79.3	P/P	53 - 136
1783745	Phorate	73.4	84.2	P/P	52 - 113
1783745	Prometon	107	102	P/P	67 - 125
1783745	Prometryn	104	103	P/P	73 - 114
1783745	Simazine	119	115	P/P	66 - 123
1783745	Terbufos	85.7	88.0	P/P	58 - 116
1783745	Terbutylazine	100	99.2	P/P	77 - 113

Reference Method: EPA 8321B
Batch ID: P301043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782765	Glyphosate	66.0	58.6	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P301094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782871	Fluoride	96.5	97.6	P/P	94 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P301240

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1782608	Organic Carbon	96.0		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P300869

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1781943	2,4,5-T	106	76.4	P/P	40 - 140
1781943	2,4-D	144	119	F/P	40 - 140
1781943	2,4-DB	76.8	60.8	P/P	40 - 140
1781943	Acetaminophen	50.8	40.0	P/P	40 - 140
1781943	Acifluorfen	93.2	77.6	P/P	40 - 140
1781943	Bentazon	139	127	P/P	40 - 140
1781943	Carbamazepine	82.0	76.4	P/P	40 - 140
1781943	Dichlorprop	110	96.4	P/P	40 - 140
1781943	Dinoseb	78.0	61.2	P/P	40 - 140
1781943	Diuron	62.0	51.6	P/P	40 - 140
1781943	Fenuron	63.2	56.8	P/P	40 - 140
1781943	Fluridone	106	76.2	P/P	40 - 140
1781943	Imidacloprid	130	122	P/P	40 - 160
1781943	Linuron	84.8	64.0	P/P	40 - 140
1781943	MCPA	117	92.4	P/P	40 - 140
1781943	MCPP	114	93.2	P/P	40 - 140
1781943	Picloram	106	92.0	P/P	40 - 140
1781943	Primidone	68.8	61.6	P/P	40 - 140
1781943	Silvex	114	102	P/P	40 - 140
1781943	Triclopyr	105	85.2	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P300944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782730	Turbidity	5.41	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782554	Chloride	0.183	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P301040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782554	Sulfate	0.00625	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301335

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782685	Ammonia-N	0.143	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P301336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782737	Ammonia-N	1.14	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P301330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782735	Kjeldahl Nitrogen	3.61	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P301118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782736	NO2NO3-N	0.655	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782609	Total-P	2.99	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P301761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782739	Total-P	4.36	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P300918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782687	O-Phosphate-P	1.57	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P300947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782753	Dieldrin	25.3	Spike	P	0 - 30
LFB	Dieldrin	2.27	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P301022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1783745	Acetochlor	5.15	Spike	P	0 - 30
1783745	Alachlor	4.48	Spike	P	0 - 30
1783745	Ametryn	1.71	Spike	P	0 - 30
1783745	Atrazine	9.91	Spike	P	0 - 30
1783745	Atrazine Desethyl	1.64	Spike	P	0 - 30
1783745	Azinphos Methyl	1.30	Spike	P	0 - 30
1783745	Bromacil	3.62	Spike	P	0 - 30
1783745	Butylate	10.0	Spike	P	0 - 30
1783745	Chlorpyrifos Ethyl	5.48	Spike	P	0 - 30
1783745	Chlorpyrifos Methyl	2.84	Spike	P	0 - 30
1783745	Cyanazine	22.4	Spike	P	0 - 30
1783745	Demeton	21.1	Spike	P	0 - 30
1783745	Diazinon	3.25	Spike	P	0 - 30
1783745	Disulfoton	4.72	Spike	P	0 - 30
1783745	EPTC	6.71	Spike	P	0 - 30
1783745	Ethion	0.846	Spike	P	0 - 30
1783745	Ethoprop	10.1	Spike	P	0 - 30
1783745	Fenamiphos	1.17	Spike	P	0 - 30
1783745	Fipronil	5.68	Spike	P	0 - 30
1783745	Fipronil Sulfide	3.03	Spike	P	0 - 30
1783745	Fipronil Sulfone	2.21	Spike	P	0 - 30
1783745	Fonofos	3.70	Spike	P	0 - 30
1783745	Hexazinone	0.936	Spike	P	0 - 30
1783745	Malathion	9.11	Spike	P	0 - 30
1783745	Metalaxyl	6.04	Spike	P	0 - 30
1783745	Metolachlor	3.34	Spike	P	0 - 30
1783745	Metribuzin	1.16	Spike	P	0 - 30
1783745	Mevinphos	7.90	Spike	P	0 - 30
1783745	Molinate	5.47	Spike	P	0 - 30
1783745	Norflurazon	8.33	Spike	P	0 - 30
1783745	Parathion Ethyl	1.27	Spike	P	0 - 30
1783745	Parathion Methyl	2.33	Spike	P	0 - 30
1783745	Pendimethalin	0.297	Spike	P	0 - 30
1783745	Phorate	13.8	Spike	P	0 - 30
1783745	Prometon	5.24	Spike	P	0 - 30
1783745	Prometryn	0.772	Spike	P	0 - 30
1783745	Simazine	3.76	Spike	P	0 - 30
1783745	Terbufos	2.59	Spike	P	0 - 30
1783745	Terbutylazine	1.22	Spike	P	0 - 30
LFB	Acetochlor	0.0574	LCS	P	0 - 30
LFB	Alachlor	0.995	LCS	P	0 - 30
LFB	Ametryn	3.32	LCS	P	0 - 30
LFB	Atrazine	2.48	LCS	P	0 - 30
LFB	Atrazine Desethyl	7.90	LCS	P	0 - 30
LFB	Azinphos Methyl	0.177	LCS	P	0 - 30
LFB	Bromacil	3.05	LCS	P	0 - 30
LFB	Butylate	17.5	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.48	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.468	LCS	P	0 - 30
LFB	Cyanazine	1.57	LCS	P	0 - 30
LFB	Demeton	13.3	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P301022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Diazinon	3.69	LCS	P	0 - 30
LFB	Disulfoton	3.98	LCS	P	0 - 30
LFB	EPTC	20.2	LCS	P	0 - 30
LFB	Ethion	1.38	LCS	P	0 - 30
LFB	Ethoprop	2.99	LCS	P	0 - 30
LFB	Fenamiphos	4.75	LCS	P	0 - 30
LFB	Fipronil	0.143	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.16	LCS	P	0 - 30
LFB	Fipronil Sulfone	0.784	LCS	P	0 - 30
LFB	Fonofos	3.82	LCS	P	0 - 30
LFB	Hexazinone	3.45	LCS	P	0 - 30
LFB	Malathion	0.908	LCS	P	0 - 30
LFB	Metalaxyl	0.0794	LCS	P	0 - 30
LFB	Metolachlor	1.69	LCS	P	0 - 30
LFB	Metribuzin	0.478	LCS	P	0 - 30
LFB	Mevinphos	1.95	LCS	P	0 - 30
LFB	Molinate	10.6	LCS	P	0 - 30
LFB	Norflurazon	1.20	LCS	P	0 - 30
LFB	Parathion Ethyl	1.78	LCS	P	0 - 30
LFB	Parathion Methyl	4.04	LCS	P	0 - 30
LFB	Pendimethalin	0.718	LCS	P	0 - 30
LFB	Phorate	2.10	LCS	P	0 - 30
LFB	Prometon	6.35	LCS	P	0 - 30
LFB	Prometryn	1.99	LCS	P	0 - 30
LFB	Simazine	4.64	LCS	P	0 - 30
LFB	Terbufos	0.128	LCS	P	0 - 30
LFB	Terbutylazine	2.03	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P301043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782765	Glyphosate	11.9	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P300896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782732	Color (true)	0.505	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P301091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782871	Total Alkalinity	0.470	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P301301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782730	TDS	3.32	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P301302

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782732	TDS	5.25	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P301094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782871	Fluoride	1.03	Spike	P	0 - 3.7

Reference Method: SM 5310 B-00
Batch ID: P301240

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1782608	Organic Carbon	0.461	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P300869

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1781943	2,4,5-T	32.1	Spike	F	0 - 30
1781943	2,4-D	18.4	Spike	P	0 - 30
1781943	2,4-DB	23.3	Spike	P	0 - 30
1781943	Acetaminophen	23.8	Spike	P	0 - 30
1781943	Acifluorfen	18.3	Spike	P	0 - 30
1781943	Bentazon	7.28	Spike	P	0 - 30
1781943	Carbamazepine	7.07	Spike	P	0 - 30
1781943	Dichlorprop	12.8	Spike	P	0 - 30
1781943	Dinoseb	24.1	Spike	P	0 - 30
1781943	Diuron	18.3	Spike	P	0 - 30
1781943	Fenuron	10.7	Spike	P	0 - 30
1781943	Fluridone	30.7	Spike	F	0 - 30
1781943	Imidacloprid	6.02	Spike	P	0 - 30
1781943	Linuron	28.0	Spike	P	0 - 30
1781943	MCPA	23.3	Spike	P	0 - 30
1781943	MCPP	20.1	Spike	P	0 - 30
1781943	Picloram	14.5	Spike	P	0 - 30
1781943	Primidone	11.0	Spike	P	0 - 30
1781943	Silvex	11.5	Spike	P	0 - 30
1781943	Triclopyr	20.6	Spike	P	0 - 30

* 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

Lab Sample ID: 1782765

Field Sample ID: 21030152 Hague trib at 441

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	56.0	P	50 - 150
USGS O-2060-01	2,4-D-d3	78.6	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	53.6	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	88.8	P	40 - 160
USGS O-2060-01	Diuron-d6	58.2	P	40 - 150
USGS O-2060-01	Primidone-d5	93.2	P	40 - 150

Lab Sample ID: 1782766

Field Sample ID: field blank

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	97.8	P	50 - 150
USGS O-2060-01	2,4-D-d3	76.0	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	128	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	128	P	40 - 160
USGS O-2060-01	Diuron-d6	110	P	40 - 150
USGS O-2060-01	Primidone-d5	91.8	P	40 - 150

Lab Sample ID: 1782767

Field Sample ID: 21030152 Hague trib at 441

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	23.1	F	58 - 128
EPA 8270D	Tetrachloro-m-xylene	23.9	F	51 - 93.0

Lab Sample ID: 1782768

Field Sample ID: field blank

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	84.7	P	58 - 128
EPA 8270D	Tetrachloro-m-xylene	66.1	P	51 - 93.0

Lab Sample ID: 1782769

Field Sample ID: 21030152 Hague trib at 441

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	93.9	P	67 - 131
EPA 8270D	Simazine-d10	96.3	P	75 - 130

Lab Sample ID: 1782770

Field Sample ID: field blank

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	99.1	P	67 - 131
EPA 8270D	Simazine-d10	93.0	P	75 - 130

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A68401

Included Lab Sample IDs: 1782730, 1782731, 1782732, 1782733, 1782734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.2	99.8	P/P	90 - 110
Chloride	98.8	100	P/P	90 - 110
Sulfate	95.0	97.8	P/P	90 - 110
Sulfate	95.3	98.3	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A68402

Included Lab Sample IDs: 1782730, 1782731, 1782732, 1782733, 1782734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	90 - 115
Color (true)	102	103	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A68407

Included Lab Sample IDs: 1782740, 1782741, 1782742, 1782743, 1782744

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.2	98.8	P/P	90 - 110
O-Phosphate-P	99.3	98.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A68413

Included Lab Sample IDs: 1782730, 1782731, 1782732, 1782733, 1782734

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

Reference Method: SM 2320 B-97

Run ID: A68457

Included Lab Sample IDs: 1782730, 1782731, 1782732, 1782733, 1782734

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

Reference Method: SM 4500 F-C-97

Run ID: A68457

Included Lab Sample IDs: 1782730, 1782731, 1782732, 1782733, 1782734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A68471

Included Lab Sample IDs: 1782735, 1782736, 1782737, 1782738, 1782739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110
NO2NO3-N	102	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A68487

Included Lab Sample IDs: 1782765, 1782766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	90.6	87.4	P/P	50 - 150
2,4-D	99.6	96.8	P/P	50 - 150
2,4-DB	86.8	80.8	P/P	50 - 150
Acifluorfen	99.0	97.2	P/P	50 - 150
Bentazon	94.8	92.8	P/P	50 - 150
Dichlorprop	94.0	89.0	P/P	50 - 150
Dinoseb	82.0	74.8	P/P	50 - 150
MCPA	92.4	96.6	P/P	50 - 150
MCPP	93.6	90.8	P/P	50 - 150
Picloram	99.4	99.4	P/P	50 - 150
Silvex	103	98.6	P/P	50 - 150
Triclopyr	100	97.6	P/P	50 - 150

Reference Method: USGS O-2060-01

Run ID: A68489

Included Lab Sample IDs: 1782765, 1782766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	92.8	85.6	P/P	60 - 150
Carbamazepine	129	112	P/P	60 - 150
Diuron	92.4	89.6	P/P	60 - 150
Fenuron	116	112	P/P	60 - 150
Fluridone	93.2	111	P/P	60 - 150
Imidacloprid	96.4	90.4	P/P	60 - 150
Linuron	118	97.6	P/P	60 - 150
Primidone	82.8	99.2	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A68494

Included Lab Sample IDs: 1782765, 1782766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	76.2	128	P/P	70 - 130

Reference Method: SM 5310 B-00

Run ID: A68516

Included Lab Sample IDs: 1782735, 1782736, 1782737, 1782738, 1782739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	91.6	90.6	P/P	90 - 110
Organic Carbon	91.9	91.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A68548

Included Lab Sample IDs: 1782735, 1782736, 1782737, 1782738, 1782739

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A68579

Included Lab Sample IDs: 1782735, 1782736, 1782737, 1782738, 1782739

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.1	96.9	P/P	90 - 110
Kjeldahl Nitrogen	98.0	98.7	P/P	90 - 110
Kjeldahl Nitrogen	98.7	96.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A68588

Included Lab Sample IDs: 1782735, 1782736, 1782737, 1782738

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

Reference Method: EPA 8270D

Run ID: A68638

Included Lab Sample IDs: 1782769, 1782770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	104		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Bromacil	105		P	80 - 120
Butylate	97.9		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	108		P	80 - 120
Cyanazine	126*		F	80 - 120
Demeton	97.0		P	80 - 120
Diazinon	105		P	80 - 120
Disulfoton	103		P	80 - 120
EPTC	97.4		P	80 - 120
Ethion	102		P	80 - 120
Ethoprop	103		P	80 - 120
Fenamiphos	102		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Sulfide	98.2		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	101		P	80 - 120
Malathion	101		P	80 - 120
Metaxyl	95.7		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	94.7		P	80 - 120
Molinate	102		P	80 - 120
Norflurazon	105		P	80 - 120
Parathion Ethyl	100		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	109		P	80 - 120
Phorate	103		P	80 - 120
Prometon	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A68638

Included Lab Sample IDs: 1782769, 1782770

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	100		P	80 - 120
Simazine	97.4		P	80 - 120
Terbufos	102		P	80 - 120
Terbutylazine	94.6		P	80 - 120

Reference Method: EPA 8270D

Run ID: A68678

Included Lab Sample IDs: 1782767, 1782768

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dieldrin	103		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A68797

Included Lab Sample IDs: 1782739

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						5.41	
EPA 300.0 Rev. 2.1	Chloride	102		101	101		0.183	
	Sulfate	99.2		97.9	99.5		0.0062	
EPA 350.1 Rev. 2.0	Ammonia-N	101		99.1	99.3			0.143
	Ammonia-N	99.2		100	102			1.14
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	91.8		88.6	94.9			3.61
EPA 353.2 Rev. 2.0	NO2NO3-N	101		96.5	97.5			0.655
EPA 365.1 Rev. 2.0	Total-P	96.6		98.8	95.5			2.99
	Total-P	98.6		100	91.6			4.36
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		101	103			1.57
EPA 8270D	Acetochlor	98.1	98.1	110	105	0.0574		5.15
	Alachlor	94.7	95.7	108	103	0.995		4.48
	Ametryn	106	109	115	117	3.32		1.71
	Atrazine	98.5	101	112	99.0	2.48		9.91
	Atrazine Desethyl	69.2	74.9	69.3	70.6	7.90		1.64
	Azinphos Methyl	156	156	166	164	0.177		1.30
	Bromacil	87.6	84.9	101	97.7	3.05		3.62
	Butylate	58.0	48.7	48.9	54.1	17.5		10.0
	Chlorpyrifos Ethyl	97.5	96.1	98.7	104	1.48		5.48
	Chlorpyrifos Methyl	95.2	95.6	97.3	100	0.468		2.84
	Cyanazine	142	144	157	125	1.57		22.4
	Demeton	69.1	79.0	67.6	54.7	13.3		21.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270D	Diazinon	101	97.2	110	107	3.69		3.25
	Dieldrin	86.8	88.8	96.5	74.9	92.0	2.27	25.3
	Disulfoton	92.0	95.7	73.9	77.4		3.98	4.72
	EPTC	55.8	45.5	47.3	50.6		20.2	6.71
	Ethion	103	105	103	102		1.38	0.846
	Ethoprop	88.8	86.2	82.3	91.0		2.99	10.1
	Fenamiphos	105	110	106	108		4.75	1.17
	Fipronil	95.2	95.4	110	104		0.143	5.68
	Fipronil Sulfide	84.4	85.3	84.6	87.2		1.16	3.03
	Fipronil Sulfone	90.1	90.8	92.4	94.5		0.784	2.21
	Fonofos	86.1	89.5	85.4	88.6		3.82	3.70
	Hexazinone	110	106	113	112		3.45	0.936
	Malathion	117	118	116	127		0.908	9.11
	Metalaxyl	87.5	87.6	96.7	90.8		0.0794	6.04
	Metolachlor	93.0	94.5	115	109		1.69	3.34
	Metribuzin	109	109	116	114		0.478	1.16
	Mevinphos	86.2	87.9	83.8	90.7		1.95	7.90
	Molinate	66.2	59.5	62.4	65.9		10.6	5.47
	Norflurazon	86.8	85.8	98.4	89.8		1.20	8.33
	Parathion Ethyl	96.4	98.2	95.5	96.8		1.78	1.27
	Parathion Methyl	109	105	116	119		4.04	2.33
	Pendimethalin	78.0	77.5	79.5	79.3		0.718	0.297
	Phorate	95.6	93.6	73.4	84.2		2.10	13.8
	Prometon	101	94.7	107	102		6.35	5.24
	Prometryn	95.1	93.3	104	103		1.99	0.772
	Simazine	105	110	119	115		4.64	3.76
	Terbufos	91.5	91.6	85.7	88.0		0.128	2.59
	Terbuthylazine	97.3	95.3	100	99.2		2.03	1.22
EPA 8321B	Glyphosate	100		66.0	58.6			11.9
SM 2120 B	Color (true)						0.505	
SM 2320 B-97	Total Alkalinity	102					0.470	
SM 2540 C-97	TDS						3.32	
	TDS						5.25	
SM 4500 F-C-97	Fluoride	98.2		96.5	97.6			1.03
SM 5310 B-00	Organic Carbon	92.0		96.0				0.461
USGS O-2060-01	2,4,5-T	81.6		106	76.4			32.1
	2,4-D	92.0		144	119			18.4
	2,4-DB	62.8		76.8	60.8			23.3
	Acetaminophen	90.4		50.8	40.0			23.8
	Acifluorfen	87.2		93.2	77.6			18.3
	Bentazon	87.2		139	127			7.28
	Carbamazepine	124		82.0	76.4			7.07
	Dichlorprop	81.2		110	96.4			12.8
	Dinoseb	69.6		78.0	61.2			24.1
	Diuron	101		62.0	51.6			18.3
	Fenuron	108		63.2	56.8			10.7
	Fluridone	113		106	76.2			30.7
	Imidacloprid	95.2		130	122			6.02
	Linuron	90.0		84.8	64.0			28.0
	MCPA	82.8		117	92.4			23.3
	MCPP	81.2		114	93.2			20.1
	Picloram	77.6		106	92.0			14.5
	Primidone	86.0		68.8	61.6			11.0
	Silvex	83.6		114	102			11.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
USGS O-2060-01	Triclopyr	93.2	105 85.2			20.6

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1782730, 1782731, 1782732, 1782733, 1782734
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1782730, 1782731, 1782732, 1782733, 1782734
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1782730, 1782731, 1782732, 1782733, 1782734
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1782735, 1782736, 1782737, 1782738, 1782739
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1782735, 1782736, 1782737, 1782738, 1782739
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1782735, 1782736, 1782737, 1782738, 1782739
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1782735, 1782736, 1782737, 1782738, 1782739
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1782740, 1782741, 1782742, 1782743, 1782744
EPA 8270D / E31780	Organochlorine pesticides (ultra low level) in water matrices by GC/MS/MS	1782767, 1782768
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1782769, 1782770
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1782765, 1782766
SM 2120 B / E31780	True Color measured at 450 nm	1782730, 1782731, 1782732, 1782733, 1782734
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1782730, 1782731, 1782732, 1782733, 1782734
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1782730, 1782731, 1782732, 1782733, 1782734
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1782730, 1782731, 1782732, 1782733, 1782734
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1782730, 1782731, 1782732, 1782733, 1782734
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1782735, 1782736, 1782737, 1782738, 1782739
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1782765, 1782766
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1782765, 1782766

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	03/23/2016			03/23/2016 17:04	Blanca Fach	1782730, 1782731, 1782732, 1782733, 1782734
EPA 300.0 Rev. 2.1	03/23/2016			03/24/2016	Julia Storbeck	1782730, 1782734
	03/23/2016			03/25/2016	Julia Storbeck	1782731, 1782732, 1782733
EPA 350.1 Rev. 2.0	03/23/2016			03/30/2016	Diana M. Turner	1782735, 1782736, 1782737, 1782738, 1782739
EPA 351.2 Rev. 2.0	03/23/2016	03/31/2016	Sofia Elnemr	04/01/2016	Christopher Armour	1782735, 1782736, 1782737, 1782738, 1782739
EPA 353.2 Rev. 2.0	03/23/2016			03/25/2016	Diana M. Turner	1782735, 1782736, 1782737, 1782738, 1782739
EPA 365.1 Rev. 2.0	03/23/2016	03/31/2016	Christopher Armour	04/01/2016	Lipi Saha	1782735, 1782736, 1782737, 1782738
	03/23/2016	04/07/2016	Christopher Armour	04/07/2016	Lipi Saha	1782739
EPA 365.1 Rev. 2.0 dissolved	03/23/2016			03/23/2016 15:08	Ping Hua	1782740
	03/23/2016			03/23/2016 15:09	Ping Hua	1782741
	03/23/2016			03/23/2016 15:10	Ping Hua	1782742
	03/23/2016			03/23/2016 15:11	Ping Hua	1782743
	03/23/2016			03/23/2016 15:24	Ping Hua	1782744
EPA 8270D	03/23/2016	03/25/2016	Fe-Val Siddell	03/29/2016	Vandana T. Nagar	1782767, 1782768
	03/23/2016	03/25/2016	John Kaba	03/31/2016	Irina Carbone	1782769, 1782770
EPA 8321B	03/23/2016	03/28/2016	Mohammad Ghaffari	03/28/2016	Mohammad Ghaffari	1782765, 1782766
SM 2120 B	03/23/2016			03/23/2016 13:56	Rochelle Y Jackson	1782732
	03/23/2016			03/23/2016 14:09	Rochelle Y Jackson	1782730, 1782731
	03/23/2016			03/23/2016 14:10	Rochelle Y Jackson	1782733
	03/23/2016			03/23/2016 14:11	Rochelle Y Jackson	1782734
SM 2320 B-97	03/23/2016			03/26/2016	Dale L. Simmons	1782730, 1782731, 1782732, 1782733, 1782734
SM 2540 C-97	03/23/2016			03/25/2016	Yijie Li	1782730, 1782731, 1782732, 1782733, 1782734
SM 2540 D-97	03/23/2016			03/25/2016	Yijie Li	1782730, 1782731, 1782732, 1782733, 1782734
SM 4500 F-C-97	03/23/2016			03/26/2016	Dale L. Simmons	1782730, 1782731, 1782732, 1782733, 1782734
SM 5310 B-00	03/23/2016			03/29/2016	Sofia Elnemr	1782735, 1782736, 1782737, 1782738, 1782739
USGS O-2060-01	03/23/2016	03/24/2016	Hoor Shaik	03/25/2016	Juyoung Kim	1782765
	03/23/2016	03/24/2016	Hoor Shaik	03/26/2016	Juyoung Kim	1782765, 1782766