Chemical Analysis Report

SO-DIST-2024-06-07-01

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

Event Description: **2024 SMP: Shell Creek Reservoir/Lake Trafford LVI**
Request ID: **RQ-2024-06-03-56**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
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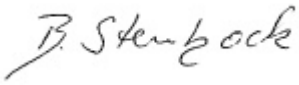
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 27-JUN-2024 13:35



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: LAKE TRAFFORD - CENTER **Collection Date/Time: 06/06/2024 10:55**

Field ID: G1SD0136 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492388	DEP SOP: NU-094-1	Color (true)	41		PCU	P446204	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P446225	
	EPA 300.0 Rev. 2.1	Chloride	28		mg Cl/L	P446971	
		Sulfate	7.1		mg SO4/L	P446498	
	SM 2320 B-2011	Total Alkalinity	123		mg CaCO3/L	P446469	
	SM 2540 C-2015	TDS	240		mg/L	P446757	
	SM 2540 D-2015	TSS	22		mg/L	P446758	
	SM 4500-F- C-2011	Fluoride	0.25		mg F/L	P446472	
2492389	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P446408	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.6		mg N/L	P446275	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446356	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P446336	
	SM 5310 B-2014	Organic Carbon	27		mg C/L	P446541	
2492390	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P446196	
2492401	EPA 8321B	2,4-D	0.0042	I	ug/L	P446147	
		Acesulfame K	0.10	U	ug/L	P446135	
		2,4,5-T	0.0040	U	ug/L	P446147	
		AMPA	0.10	U	ug/L	P446135	
		Acetaminophen	0.0080	U	ug/L	P446147	
		Acetamiprid	0.0020	U	ug/L	P446147	
		Endothall	0.25	U	ug/L	P446135	
		Glufosinate	0.10	U	ug/L	P446135	
		Glyphosate	0.10	U	ug/L	P446135	
		Afidopyropen	0.0020	U	ug/L	P446147	
		Bentazon	8.5E-04	I	ug/L	P446147	
		Sucralose	0.030	I	ug/L	P446135	
		Benzovindiflupyr	0.0020	U	ug/L	P446147	
		Carbamazepine	8.0E-04	U	ug/L	P446147	
		Clothianidin	0.0020	U	ug/L	P446147	
		Dinotefuran	0.0020	U	ug/L	P446147	
		Diuron	0.0020	U	ug/L	P446147	
		Fenuron	0.032	U	ug/L	P446147	
		Fluridone	0.0022		ug/L	P446147	
		Imazapyr	0.0054	I	ug/L	P446147	
		Hydrocodone	0.0020	U	ug/L	P446147	
		Ibuprofen	0.080	U	ug/L	P446147	
		Imidacloprid	0.0020	U	ug/L	P446147	
		Linuron	0.0020	U	ug/L	P446147	
		Mandestrobin	0.0020	U	ug/L	P446147	
		MCPP	0.0020	U	ug/L	P446147	
		Naproxen	0.0080	U	ug/L	P446147	
		Primidone	0.0040	U	ug/L	P446147	
		Pyraclostrobin	0.0020	U	ug/L	P446147	

Field ID: G1SD0136 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492401	EPA 8321B	Silvex	0.0040	U	ug/L	P446147	
		Thiamethoxam	0.0020	U	ug/L	P446147	
		Tolfenpyrad	0.0020	U	ug/L	P446147	
		Triclopyr	0.0040	U	ug/L	P446147	
2492408	EPA 8270E	Oxybenzone**	10	U	ng/L	P445968	
		Acetochlor	0.21	U	ng/L	P445968	
		Octinoxate**	150	U	ng/L	P445968	RPD
		Alachlor	0.41	U	ng/L	P445968	
		Avobenzone**	100	U	ng/L	P445968	MS
		Ametryn	1.1	U	ng/L	P445968	
		Atrazine	34		ng/L	P445968	
		PBDE-47**	4.1	U	ng/L	P445968	
		Atrazine Desethyl	13		ng/L	P445968	MS
		PBDE-99**	5.1	U	ng/L	P445968	
		Azinphos Methyl	3.1	U	ng/L	P445968	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P445968	RPD
		Azoxystrobin	0.41	U	ng/L	P445968	
		Bromacil	0.62	U	ng/L	P445968	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P445968	
		Butylate	0.46	U	ng/L	P445968	
		Dechlorane Plus**	31	U	ng/L	P445968	
		Caffeine**	7.7	U	ng/L	P445968	
		Dechlorane 602**	5.1	U	ng/L	P445968	RPD
		Carbophenothion	0.51	U	ng/L	P445968	
		Dechlorane 603**	4.1	U	ng/L	P445968	
		Carfentrazone Ethyl	0.15	U	ng/L	P445968	
		Hexabromobenzene**	6.2	U	ng/L	P445968	
		Chlorfenapyr	0.31	U	ng/L	P445968	
		PBB-153**	6.2	U	ng/L	P445968	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P445968	
		Pentabromotoluene**	3.1	U	ng/L	P445968	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P445968	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	UJ	ng/L	P445968	LCS, MS, RPD
		Coumaphos	1.1	U	ng/L	P445968	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P445968	MS, RPD
		Cyanazine	5.1	U	ng/L	P445968	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P445968	MS, RPD
		Cyprodinil	0.21	U	ng/L	P445968	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P445968	RPD
		Demeton	3.6	U	ng/L	P445968	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P445968	
		Diazinon	0.13	U	ng/L	P445968	
		Difenoconazole	0.62	U	ng/L	P445968	

Field ID: G1SD0136 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492408	EPA 8270E	Dimethenamid	0.10	U	ng/L	P445968	
		Dimethomorph	1.5	I	ng/L	P445968	
		Disulfoton	0.62	U	ng/L	P445968	
		Dithiopyr	1.0	U	ng/L	P445968	
		EPTC	0.51	U	ng/L	P445968	
		Ethion	0.31	U	ng/L	P445968	
		Ethoprop	0.13	U	ng/L	P445968	
		Etridiazole	0.10	U	ng/L	P445968	
		Fenamiphos	0.46	U	ng/L	P445968	
		Fenbuconazole	0.51	U	ng/L	P445968	
		Fipronil	0.21	U	ng/L	P445968	
		Fipronil Desulfinyl**	0.10	U	ng/L	P445968	
		Fipronil Sulfide	0.10	U	ng/L	P445968	
		Fipronil Sulfone	0.10	U	ng/L	P445968	
		Fluazifop-P-butyl	0.10	U	ng/L	P445968	
		Fludioxonil	0.10	U	ng/L	P445968	
		Flumioxazin	3.1	U	ng/L	P445968	
		Flutolanil	0.10	U	ng/L	P445968	
		Fluxapyroxad	0.57	I	ng/L	P445968	
		Fonofos	0.15	U	ng/L	P445968	
		Hexazinone	0.51	U	ng/L	P445968	
		Imazalil	0.67	U	ng/L	P445968	
		Iprodione	0.51	U	ng/L	P445968	
		Loratadine**	0.31	U	ng/L	P445968	
		Malathion	0.36	U	ng/L	P445968	MS, RPD
		Metalaxyl	0.51	U	ng/L	P445968	
		Metolachlor	0.88	I	ng/L	P445968	
		Metribuzin	1.4	I	ng/L	P445968	
		Mevinphos	1.0	U	ng/L	P445968	
		Molinate	0.26	U	ng/L	P445968	
		Myclobutanil	0.56	I	ng/L	P445968	
		Naled	2.6	U	ng/L	P445968	
		Napropamide	0.72	U	ng/L	P445968	RPD
		Norflurazon	1.0	U	ng/L	P445968	
		Oxadiazon	0.36	U	ng/L	P445968	
		Oxyfluorfen	0.21	U	ng/L	P445968	
		Parathion Ethyl	0.15	U	ng/L	P445968	
		Parathion Methyl	0.21	U	ng/L	P445968	
		Pendimethalin	1.7	U	ng/L	P445968	MS
		Phenytoin**	5.5	U	ng/L	P445968	
		Phorate	0.26	U	ng/L	P445968	
		Prodiamine	0.21	UJ	ng/L	P445968	CCV
		Prometon	3.1	U	ng/L	P445968	
		Prometryn	0.36	U	ng/L	P445968	
		Pronamide	0.10	U	ng/L	P445968	

Field ID: G1SD0136 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492408	EPA 8270E	Propanil	0.10	U	ng/L	P445968	
		Propargite	0.82	U	ng/L	P445968	
		Propiconazole	0.62	U	ng/L	P445968	
		Pyraflufen Ethyl	0.31	U	ng/L	P445968	
		Pyridaben	1.4	U	ng/L	P445968	
		Pyriproxyfen	0.26	U	ng/L	P445968	
		Simazine	0.26	U	ng/L	P445968	
		Stirophos	0.41	U	ng/L	P445968	
		Sulfentrazone	1.4	U	ng/L	P445968	
		Tebuconazole	1.4	U	ng/L	P445968	
		Terbufos	0.21	U	ng/L	P445968	
		Terbuthylazine	0.21	U	ng/L	P445968	
		Thiobencarb	0.51	U	ng/L	P445968	MS, RPD
		Triadimefon	0.15	U	ng/L	P445968	
2492411	EPA 200.7 Rev. 4.4	Calcium	49.9		mg/L	P446290	
		Iron	100	I	ug/L	P446290	
		Magnesium	7.29		mg/L	P446290	
		Potassium	6.4		mg/L	P446290	
		Sodium	15.3		mg/L	P446290	
		Strontium	241		ug/L	P446290	
		Tin	3.0	U	ug/L	P446290	
		Titanium	0.75	U	ug/L	P446290	
		Vanadium	2.0	U	ug/L	P446290	
		Zinc	5.0	U	ug/L	P446290	
	EPA 200.8 Rev. 5.4	Aluminum	60		ug/L	P446290	
		Antimony	0.10	I	ug/L	P446290	
		Arsenic	1.74		ug/L	P446290	
		Barium	20.4		ug/L	P446290	
		Beryllium	0.010	U	ug/L	P446290	
		Boron	26.0		ug/L	P446290	
		Cadmium	0.020	U	ug/L	P446290	
		Chromium	0.40	U	ug/L	P446290	
		Cobalt	0.096		ug/L	P446290	
		Copper	0.40	U	ug/L	P446290	
		Lead	0.21	I	ug/L	P446290	
		Manganese	26.4		ug/L	P446290	
		Molybdenum	2.64		ug/L	P446290	
		Nickel	0.50	U	ug/L	P446290	
		Selenium	0.20	U	ug/L	P446290	
		Silver	0.010	U	ug/L	P446910	
		Thallium	0.10	U	ug/L	P446290	
	SM 2340 B-2011	Hardness	155		mg/L	P446290	

Field ID: G1SD0136 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: SHELLCREEKRESERVOIRMID **Collection Date/Time: 06/06/2024 13:45**

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492385	DEP SOP: NU-094-1	Color (true)	38	A	PCU	P446204	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P446225	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P446971	
		Sulfate	95		mg SO4/L	P446498	
	SM 2320 B-2011	Total Alkalinity	149		mg CaCO3/L	P446469	
	SM 2540 C-2015	TDS	562		mg/L	P446757	
	SM 2540 D-2015	TSS	2	I	mg/L	P446758	
	SM 4500-F- C-2011	Fluoride	0.36		mg F/L	P446472	
2492386	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P446408	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P446275	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446356	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P446336	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P446541	
2492387	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.098		mg P/L	P446196	
2492399	EPA 8321B	Aldicarb	0.020	U	ug/L	P446073	
		Aldicarb Sulfone	0.0020	U	ug/L	P446073	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P446073	MS
		Carbaryl	0.0020	U	ug/L	P446073	
		Carbofuran	0.0020	U	ug/L	P446073	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P446073	
		Methiocarb	0.0020	U	ug/L	P446073	
		Methomyl	0.0020	U	ug/L	P446073	
		Oxamyl	0.0020	U	ug/L	P446073	
		Propoxur	0.0020	U	ug/L	P446073	
2492400		2,4-D	0.0020	U	ug/L	P446147	
		Acesulfame K	0.10	U	ug/L	P446135	
		2,4,5-T	0.0040	U	ug/L	P446147	
		AMPA	1.4		ug/L	P446135	
		Acetaminophen	0.0080	U	ug/L	P446147	
		Acetamiprid	0.0020	U	ug/L	P446147	
		Endothall	0.25	U	ug/L	P446135	
		Glufosinate	0.10	U	ug/L	P446135	
		Glyphosate	0.14	I	ug/L	P446135	
		Afidopyropen	0.0020	U	ug/L	P446147	
		Bentazon	0.015		ug/L	P446147	
		Sucralose	0.043		ug/L	P446135	
		Benzovindiflupyr	0.0020	U	ug/L	P446147	
		Carbamazepine	8.0E-04	U	ug/L	P446147	
		Clothianidin	0.0026	I	ug/L	P446147	
		Dinotefuran	0.0020	U	ug/L	P446147	
		Diuron	0.017		ug/L	P446147	
		Fenuron	0.032	U	ug/L	P446147	
		Fluridone	0.0043		ug/L	P446147	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492400	EPA 8321B	Imazapyr	0.0040	U	ug/L	P446147	
		Hydrocodone	0.0020	U	ug/L	P446147	
		Ibuprofen	0.080	U	ug/L	P446147	
		Imidacloprid	0.0061	I	ug/L	P446147	
		Linuron	0.0020	U	ug/L	P446147	
		Mandestrobin	0.0020	U	ug/L	P446147	
		MCPP	0.0020	U	ug/L	P446147	
		Naproxen	0.0080	U	ug/L	P446147	
		Primidone	0.0040	U	ug/L	P446147	
		Pyraclostrobin	0.0020	U	ug/L	P446147	
		Silvex	0.0040	U	ug/L	P446147	
		Thiamethoxam	0.0036	I	ug/L	P446147	
		Tolfenpyrad	0.0020	U	ug/L	P446147	
		Triclopyr	0.0040	U	ug/L	P446147	
2492406	EPA 8270E	Aldrin	0.67	U	ng/L	P446645	
		Alpha-BHC	0.10	U	ng/L	P446645	
		Alpha-Chlordane	0.21	U	ng/L	P446645	
		PCB-1016	2.1	U	ng/L	P446645	
		Beta-BHC	0.10	U	ng/L	P446645	
		PCB-1221	2.1	U	ng/L	P446645	
		Beta-Cyfluthrin	1.3	U	ng/L	P446645	
		PCB-1232	2.1	U	ng/L	P446645	
		Bifenthrin	0.51	U	ng/L	P446645	
		PCB-1242	2.1	U	ng/L	P446645	
		PCB-1248	2.1	U	ng/L	P446645	
		Chlorothalonil	3.7	U	ng/L	P446645	
		PCB-1254	2.1	U	ng/L	P446645	
		Cis-Nonachlor	0.21	U	ng/L	P446645	
		PCB-1260	2.1	U	ng/L	P446645	
		Cypermethrin	1.5	U	ng/L	P446645	
		Dacthal	0.15	U	ng/L	P446645	
		DDD-p,p'	0.26	U	ng/L	P446645	
		DDE-p,p'	0.21	U	ng/L	P446645	
		DDT-p,p'	0.82	U	ng/L	P446645	
		Delta-BHC	0.41	U	ng/L	P446645	
		Deltamethrin	1.3	U	ng/L	P446645	
		Dichlobenil	0.26	U	ng/L	P446645	
		Dicofol	1.3	U	ng/L	P446645	
		Dieldrin	0.41	U	ng/L	P446645	
		Endosulfan I	0.41	U	ng/L	P446645	
		Endosulfan II	0.93	U	ng/L	P446645	
		Endosulfan Sulfate	0.31	U	ng/L	P446645	
		Endrin	0.93	U	ng/L	P446645	
		Endrin Aldehyde	0.77	U	ng/L	P446645	
		Endrin Ketone	0.41	U	ng/L	P446645	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492406	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P446645	
		Ethalfluralin	0.15	U	ng/L	P446645	
		Fenpropathrin	0.26	U	ng/L	P446645	
		Gamma-BHC	0.13	U	ng/L	P446645	
		Gamma-Chlordane	0.21	U	ng/L	P446645	
		Heptachlor	0.21	U	ng/L	P446645	
		Heptachlor Epoxide	0.26	U	ng/L	P446645	
		Hexachlorobenzene**	1.0	U	ng/L	P446645	
		Kepone	14	U	ng/L	P446645	
		Lambda-Cyhalothrin	0.77	U	ng/L	P446645	
		Methoprene	0.77	U	ng/L	P446645	
		Methoxychlor	0.31	U	ng/L	P446645	
		MGK-264	0.21	U	ng/L	P446645	
		Mirex	0.36	U	ng/L	P446645	
		Oxychlordane	0.31	U	ng/L	P446645	
		Permethrin	1.6	U	ng/L	P446645	
		Phenothrin	0.93	U	ng/L	P446645	
		Piperonyl Butoxide	0.15	U	ng/L	P446645	
		Prallethrin	2.1	U	ng/L	P446645	
		Tau-Fluvalinate	0.26	U	ng/L	P446645	
		Tetramethrin	0.77	U	ng/L	P446645	
		Trans-Nonachlor	0.21	U	ng/L	P446645	
		Triclosan Methyl	0.15	U	ng/L	P446645	
		Trifluralin	0.21	U	ng/L	P446645	
	EPA 8276	Chlordane	2.1	U	ng/L	P446645	
		Toxaphene	15	U	ng/L	P446645	
2492407	EPA 8270E	Oxybenzone**	10	U	ng/L	P445968	
		Acetochlor	0.21	U	ng/L	P445968	
		Octinoxate**	160	U	ng/L	P445968	RPD
		Alachlor	0.42	U	ng/L	P445968	
		Avobenzone**	100	U	ng/L	P445968	MS
		Ametryn	1.1	U	ng/L	P445968	
		Atrazine	16		ng/L	P445968	
		PBDE-47**	4.2	U	ng/L	P445968	
		Atrazine Desethyl	8.4		ng/L	P445968	MS
		PBDE-99**	5.2	U	ng/L	P445968	
		Azinphos Methyl	3.1	U	ng/L	P445968	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P445968	RPD
		Azoxystrobin	8.6	J	ng/L	P445968	
		Bromacil	0.62	U	ng/L	P445968	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P445968	
		Butylate	0.47	U	ng/L	P445968	
		Dechlorane Plus**	31	U	ng/L	P445968	
		Caffeine**	7.8	U	ng/L	P445968	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492407	EPA 8270E	Dechlorane 602**	5.2	U	ng/L	P445968	RPD
		Carbophenothion	0.52	U	ng/L	P445968	
		Dechlorane 603**	4.2	U	ng/L	P445968	
		Carfentrazone Ethyl	0.16	U	ng/L	P445968	
		Hexabromobenzene**	6.2	U	ng/L	P445968	
		Chlorfenapyr	0.31	U	ng/L	P445968	
		PBB-153**	6.2	U	ng/L	P445968	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P445968	
		Pentabromotoluene**	3.1	U	ng/L	P445968	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P445968	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	UJ	ng/L	P445968	LCS, MS, RPD
		Coumaphos	1.1	U	ng/L	P445968	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P445968	MS, RPD
		Cyanazine	5.2	U	ng/L	P445968	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P445968	MS, RPD
		Cyprodinil	0.21	U	ng/L	P445968	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P445968	RPD
		Demeton	3.6	U	ng/L	P445968	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P445968	
		Diazinon	0.13	U	ng/L	P445968	
		Difenoconazole	0.62	U	ng/L	P445968	
		Dimethenamid	0.10	U	ng/L	P445968	
		Dimethomorph	0.31	U	ng/L	P445968	
		Disulfoton	0.62	U	ng/L	P445968	
		Dithiopyr	1.0	U	ng/L	P445968	
		EPTC	0.52	U	ng/L	P445968	
		Ethion	0.31	U	ng/L	P445968	
		Ethoprop	0.13	U	ng/L	P445968	
		Etridiazole	0.10	U	ng/L	P445968	
		Fenamiphos	0.47	U	ng/L	P445968	
		Fenbuconazole	1.2	I	ng/L	P445968	
		Fipronil	0.21	U	ng/L	P445968	
		Fipronil Desulfinyl**	0.10	U	ng/L	P445968	
		Fipronil Sulfide	0.10	U	ng/L	P445968	
		Fipronil Sulfone	0.10	U	ng/L	P445968	
		Fluazifop-P-butyl	0.10	U	ng/L	P445968	
		Fludioxonil	0.10	U	ng/L	P445968	
		Flumioxazin	3.1	U	ng/L	P445968	
		Flutolanil	0.10	U	ng/L	P445968	
		Fluxapyroxad	0.26	U	ng/L	P445968	
		Fonofos	0.16	U	ng/L	P445968	
		Hexazinone	19		ng/L	P445968	
		Imazalil	0.68	U	ng/L	P445968	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492407	EPA 8270E	Iprodione	0.52	U	ng/L	P445968	
		Loratadine**	0.31	U	ng/L	P445968	
		Malathion	0.36	U	ng/L	P445968	MS, RPD
		Metalaxyl	10		ng/L	P445968	
		Metolachlor	6.8		ng/L	P445968	
		Metribuzin	0.42	U	ng/L	P445968	
		Mevinphos	1.0	U	ng/L	P445968	
		Molinate	0.26	U	ng/L	P445968	
		Myclobutanil	0.36	U	ng/L	P445968	
		Naled	2.6	U	ng/L	P445968	
		Napropamide	0.73	U	ng/L	P445968	RPD
		Norflurazon	41		ng/L	P445968	
		Oxadiazon	0.61	I	ng/L	P445968	
		Oxyfluorfen	0.21	U	ng/L	P445968	
		Parathion Ethyl	0.16	U	ng/L	P445968	
		Parathion Methyl	0.21	U	ng/L	P445968	
		Pendimethalin	1.8	U	ng/L	P445968	MS
		Phenytoin**	5.5	U	ng/L	P445968	
		Phorate	0.26	U	ng/L	P445968	
		Prodiamine	0.21	UJ	ng/L	P445968	CCV
		Prometon	3.1	U	ng/L	P445968	
		Prometryn	0.36	U	ng/L	P445968	
		Pronamide	0.10	U	ng/L	P445968	
		Propanil	0.10	U	ng/L	P445968	
		Propargite	0.83	U	ng/L	P445968	
		Propiconazole	0.62	U	ng/L	P445968	
		Pyraflufen Ethyl	0.31	U	ng/L	P445968	
		Pyridaben	1.5	U	ng/L	P445968	
		Pyriproxyfen	0.26	U	ng/L	P445968	
		Simazine	0.26	U	ng/L	P445968	
		Stirophos	0.42	U	ng/L	P445968	
		Sulfentrazone	1.5	U	ng/L	P445968	
		Tebuconazole	1.5	U	ng/L	P445968	
		Terbufos	0.21	U	ng/L	P445968	
		Terbuthylazine	0.21	U	ng/L	P445968	
		Thiobencarb	0.52	U	ng/L	P445968	MS, RPD
		Triadimefon	0.16	U	ng/L	P445968	
2492410	EPA 200.7 Rev. 4.4	Calcium	87.8		mg/L	P446290	
		Iron	60	I	ug/L	P446290	
		Magnesium	20.0		mg/L	P446290	
		Potassium	7.5		mg/L	P446290	
		Sodium	63.5		mg/L	P446290	
		Strontium	4.23E+03		ug/L	P446290	
		Tin	3.0	U	ug/L	P446290	
		Titanium	1.0	I	ug/L	P446290	

Field ID: G3SD0204 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492410	EPA 200.7 Rev. 4.4	Vanadium	2.0	I	ug/L	P446290	
		Zinc	5.0	U	ug/L	P446290	
	EPA 200.8 Rev. 5.4	Aluminum	53		ug/L	P446290	
		Antimony	0.17	I	ug/L	P446290	
		Arsenic	1.19		ug/L	P446290	
		Barium	45.7		ug/L	P446290	
		Beryllium	0.010	U	ug/L	P446290	
		Boron	69.0		ug/L	P446290	
		Cadmium	0.020	U	ug/L	P446290	
		Chromium	0.40	U	ug/L	P446290	
		Cobalt	0.057	I	ug/L	P446290	
		Copper	2.37		ug/L	P446290	
		Lead	0.20	U	ug/L	P446290	
		Manganese	19.5		ug/L	P446290	
		Molybdenum	2.40		ug/L	P446290	
		Nickel	0.76	I	ug/L	P446290	
		Selenium	0.21	I	ug/L	P446290	
		Silver	0.010	U	ug/L	P446910	
		Thallium	0.10	U	ug/L	P446290	
	SM 2340 B-2011	Hardness	302		mg/L	P446290	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Estimated value for azoxystrobin due to internal standard recovery exceeding control limits. MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P446204

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446225

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446290

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446290

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446910

Component	Result	Code	Units
Silver	0.010	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446498

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446971

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446408

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446275

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446356

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446336

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P446196

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

Reference Method: EPA 8270E
Batch ID: P445968

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P445968

Component	Result	Code	Units
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P445968

Component	Result	Code	Units
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E
Batch ID: P446645

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P446645

Component	Result	Code	Units
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P446645

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P446073

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

Reference Method: EPA 8321B
Batch ID: P446135

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P446147

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0020	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P446147

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P446469

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

Reference Method: SM 2540 C-2015
Batch ID: P446757

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P446758

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P446472

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P446541

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P446204

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446225

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446290

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	110		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	101		P	85 - 115
Sodium	99.7		P	85 - 115
Strontium	99.2		P	85 - 115
Tin	98.1		P	85 - 115
Titanium	99.4		P	85 - 115
Vanadium	99.2		P	85 - 115
Zinc	97.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446290

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	107		P	85 - 115
Arsenic	102		P	85 - 115
Barium	103		P	85 - 115
Beryllium	107		P	85 - 115
Boron	107		P	85 - 115
Cadmium	98.3		P	85 - 115
Chromium	103		P	85 - 115
Cobalt	101		P	85 - 115
Copper	100		P	85 - 115
Lead	101		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	99.7		P	85 - 115
Nickel	101		P	85 - 115
Selenium	102		P	85 - 115
Thallium	92.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446910

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silver	107		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446498

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446971

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446408

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446275

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: P446356

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446336

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: P446196

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

Reference Method: EPA 8270E
Batch ID: P445968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	84.4		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	29 - 155
Acetochlor	99.8		P	64 - 124
Alachlor	104		P	61 - 118
Ametryn	94.9		P	47 - 158
Atrazine	95.4		P	68 - 121
Atrazine Desethyl	101		P	30 - 119
Avobenzone	135		P	35 - 187
Azinphos Methyl	187		P	30 - 194
Azoxystrobin	106		P	58 - 154

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P445968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromacil	118		P	47 - 126
Butylate	50.0		P	31 - 83.0
Caffeine	120		P	10 - 180
Carbophenothion	113		P	59 - 133
Carfentrazone Ethyl	114		P	59 - 147
Chlorfenapyr	114		P	52 - 118
Chlorpyrifos Ethyl	90.8		P	59 - 119
Chlorpyrifos Methyl	122		P	65 - 123
Coumaphos	194		P	11 - 223
Cyanazine	116		P	63 - 250
Cyprodinil	125		P	52 - 143
Dechlorane 602	85.4		P	14 - 133
Dechlorane 603	104		P	18 - 191
Dechlorane Plus	99.5		P	23 - 154
Demeton	64.0		P	42 - 119
Diazinon	89.2		P	67 - 132
Difenoconazole	184		P	12 - 204
Dimethenamid	104		P	53 - 113
Dimethomorph	230		P	13 - 238
Disulfoton	85.9		P	56 - 126
Dithiopyr	112		P	58 - 127
EPTC	45.6		P	31 - 78.0
Ethion	93.3		P	24 - 127
Ethoprop	83.5		P	60 - 118
Etridiazole	59.6		P	32 - 91.0
Fenamiphos	108		P	54 - 129
Fenbuconazole	106		P	31 - 162
Fipronil	125		P	56 - 131
Fipronil Desulfinyl	111		P	58 - 132
Fipronil Sulfide	122		P	51 - 123
Fipronil Sulfone	111		P	50 - 125
Fluazifop-P-butyl	110		P	52 - 132
Fludioxonil	114		P	52 - 129
Flumioxazin	203		P	34 - 250
Flutolanil	99.3		P	45 - 128
Fluxapyroxad	116		P	31 - 150
Fonofos	87.9		P	60 - 116
Hexabromobenzene	83.3		P	47 - 178
Hexazinone	106		P	59 - 120
Imazalil	111		P	39 - 134
Iprodione	130		P	39 - 243
Loratadine	172		P	10 - 240
Malathion	107		P	53 - 145
Metalaxyl	101		P	59 - 120
Metolachlor	102		P	64 - 122
Metribuzin	109		P	33 - 128
Mevinphos	97.1		P	48 - 119
Molinate	51.2		P	42 - 89.0
Myclobutanil	97.8		P	54 - 129
Naled	41.4		P	10 - 138
Napropamide	119		P	40 - 122
Norflurazon	113		P	49 - 132

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P445968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	91.7		P	18 - 170
Oxadiazon	91.4		P	50 - 115
Oxybenzone	99.9		P	33 - 154
Oxyfluorfen	119		P	62 - 149
Parathion Ethyl	88.5		P	68 - 119
Parathion Methyl	138		P	68 - 147
PBB-153	93.8		P	23 - 193
PBDE-47	85.7		P	31 - 139
PBDE-99	88.6		P	24 - 138
Pendimethalin	128		P	59 - 158
Pentabromotoluene	85.3		P	54 - 152
Phenytoin	76.1		P	10 - 151
Phorate	74.5		P	44 - 124
Prodiamine	101		P	10 - 136
Prometon	113		P	45 - 131
Prometryn	101		P	52 - 140
Pronamide	112		P	70 - 129
Propanil	118		P	54 - 144
Propargite	125		P	10 - 191
Propiconazole	114		P	49 - 128
Pyraflufen Ethyl	127		P	46 - 141
Pyridaben	139		P	29 - 198
Pyriproxyfen	124		P	33 - 221
Simazine	106		P	62 - 119
Stirophos	121		P	13 - 144
Sulfentrazone	120		P	12 - 152
Tebuconazole	101		P	10 - 135
Terbufos	87.8		P	67 - 136
Terbuthylazine	88.4		P	66 - 113
Tetradecachloro-m-terphenyl	81.4		P	10 - 260
Thiobencarb	114		P	51 - 125
Tri-o-cresyl Phosphate	102		P	32 - 151
Triadimefon	104		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	129		P	51 - 154
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120		P	59 - 147
Tris(2-chloroethyl) phosphate (TCEP)	158		F	65 - 156

Reference Method: EPA 8270E
Batch ID: P446645

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	87.0		P	30 - 96.0
Alpha-BHC	91.5		P	70 - 109
Alpha-Chlordane	81.6		P	45 - 107
Beta-BHC	93.8		P	64 - 138
Beta-Cyfluthrin	120		P	17 - 141
Bifenthrin	109		P	10 - 113
Chlorothalonil	90.9		P	26 - 180
Cis-Nonachlor	86.8		P	37 - 102
Cypermethrin	99.7		P	20 - 133
Dacthal	101		P	69 - 114
DDD-p,p'	87.3		P	42 - 105

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P446645

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	94.8		P	42 - 106
DDT-p,p'	82.8		P	42 - 107
Delta-BHC	114		P	67 - 144
Deltamethrin	124		P	15 - 149
Dichlobenil	79.0		P	46 - 117
Dicofol	76.1		P	34 - 114
Dieldrin	85.6		P	50 - 108
Endosulfan I	101		P	55 - 104
Endosulfan II	85.7		P	51 - 111
Endosulfan Sulfate	107		P	56 - 121
Endrin	101		P	10 - 106
Endrin Aldehyde	105		P	34 - 114
Endrin Ketone	86.9		P	63 - 177
Esfenvalerate	115		P	29 - 143
Ethalfluralin	83.7		P	46 - 96.0
Fenpropathrin	94.3		P	28 - 115
Gamma-BHC	96.4		P	65 - 121
Gamma-Chlordane	97.0		P	39 - 103
Heptachlor	80.6		P	39 - 94.0
Heptachlor Epoxide	96.4		P	54 - 104
Hexachlorobenzene	87.9		P	36 - 100
Kepone	126		P	10 - 225
Lambda-Cyhalothrin	101		P	10 - 135
Methoprene	107		P	10 - 109
Methoxychlor	103		P	52 - 112
MGK-264	106		P	44 - 117
Mirex	83.9		P	20 - 90.0
Oxychlordane	79.8		P	44 - 102
PCB-1016	79.4		P	45 - 107
PCB-1260	85.5		P	40 - 118
Permethrin	90.9		P	18 - 135
Phenothrin	89.6		P	10 - 102
Piperonyl Butoxide	94.0		P	28 - 156
Prallethrin	88.0		P	28 - 113
Tau-Fluvalinate	104		P	10 - 123
Tetramethrin	102		P	18 - 158
Trans-Nonachlor	96.4		P	39 - 104
Triclosan Methyl	100		P	54 - 108
Trifluralin	89.8		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P446645

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	89.5		P	52 - 117
Toxaphene	73.1		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P446073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	90.2		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P446073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb	76.1		P	30 - 150
Aldicarb Sulfone	85.8		P	40 - 150
Aldicarb Sulfoxide	86.4		P	40 - 150
Carbaryl	59.0		P	40 - 150
Carbofuran	63.7		P	40 - 150
Methiocarb	76.8		P	40 - 150
Methomyl	87.8		P	40 - 150
Oxamyl	85.4		P	40 - 150
Propoxur	67.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P446135

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150
AMPA	96.7		P	40 - 160
Endothall	81.9		P	40 - 160
Glufosinate	82.2		P	40 - 160
Glyphosate	86.0		P	40 - 160
Sucralose	116		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P446147

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.4		P	40 - 150
2,4,5-T	106		P	40 - 150
Acetaminophen	77.4		P	30 - 150
Acetamiprid	85.5		P	40 - 150
Afidopyropen	77.5		P	30 - 150
Bentazon	66.7		P	30 - 150
Benzovindiflupyr	90.1		P	40 - 150
Carbamazepine	56.8		P	40 - 150
Clothianidin	78.7		P	40 - 150
Dinotefuran	90.2		P	40 - 150
Diuron	68.0		P	40 - 150
Fenuron	90.0		P	40 - 150
Fluridone	97.5		P	40 - 150
Hydrocodone	87.8		P	40 - 150
Ibuprofen	60.8		P	40 - 150
Imazapyr	95.0		P	40 - 150
Imidacloprid	84.3		P	40 - 150
Linuron	78.3		P	40 - 150
Mandestrobin	105		P	40 - 150
MCPP	81.0		P	40 - 150
Naproxen	72.2		P	40 - 150
Primidone	90.7		P	40 - 150
Pyraclostrobin	78.3		P	40 - 150
Silvex	102		P	40 - 150
Thiamethoxam	84.2		P	40 - 150
Tolfenpyrad	58.8		P	30 - 150
Triclopyr	88.0		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P446469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	93 - 103

Reference Method: SM 2540 C-2015
Batch ID: P446757

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P446758

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.8		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P446472

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	95 - 106

Reference Method: SM 5310 B-2014
Batch ID: P446541

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490182	Calcium	102		P	80 - 120
2490182	Iron	111	109	P/P	80 - 120
2490182	Magnesium	111	108	P/P	80 - 120
2490182	Potassium	102	103	P/P	80 - 120
2490182	Sodium	99.8		P	80 - 120
2490182	Strontium	98.6	98.1	P/P	80 - 120
2490182	Tin	96.9	97.0	P/P	80 - 120
2490182	Titanium	99.2	99.5	P/P	80 - 120
2490182	Vanadium	99.8	99.9	P/P	80 - 120
2490182	Zinc	97.6	97.7	P/P	80 - 120
2492316	Calcium	102		P	80 - 120
2492316	Iron	110		P	80 - 120
2492316	Magnesium	112		P	80 - 120
2492316	Potassium	101		P	80 - 120
2492316	Sodium	99.8		P	80 - 120
2492316	Strontium	98.2		P	80 - 120
2492316	Tin	97.3		P	80 - 120
2492316	Titanium	113		P	80 - 120
2492316	Vanadium	99.1		P	80 - 120
2492316	Zinc	96.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490182	Aluminum	101	101	P/P	80 - 120
2490182	Antimony	110	109	P/P	80 - 120
2490182	Arsenic	104	103	P/P	80 - 120
2490182	Barium	103	102	P/P	80 - 120
2490182	Beryllium	103	102	P/P	80 - 120
2490182	Boron	104	104	P/P	80 - 120
2490182	Cadmium	101	101	P/P	80 - 120
2490182	Chromium	103	104	P/P	80 - 120
2490182	Cobalt	101	101	P/P	80 - 120
2490182	Copper	102	100	P/P	80 - 120
2490182	Lead	103	102	P/P	80 - 120
2490182	Manganese	102	101	P/P	80 - 120
2490182	Molybdenum	102	102	P/P	80 - 120
2490182	Nickel	100	100	P/P	80 - 120
2490182	Selenium	103	98.4	P/P	80 - 120
2490182	Thallium	101	100	P/P	80 - 120
2492316	Aluminum	99.2		P	80 - 120
2492316	Antimony	106		P	80 - 120
2492316	Arsenic	102		P	80 - 120
2492316	Barium	104		P	80 - 120
2492316	Beryllium	104		P	80 - 120
2492316	Boron	108		P	80 - 120
2492316	Cadmium	102		P	80 - 120
2492316	Chromium	102		P	80 - 120
2492316	Cobalt	101		P	80 - 120
2492316	Copper	100		P	80 - 120
2492316	Lead	101		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492316	Molybdenum	100		P	80 - 120
2492316	Nickel	103		P	80 - 120
2492316	Selenium	98.5		P	80 - 120
2492316	Thallium	94.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446910

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2495132	Silver	104	105	P/P	80 - 120
2495140	Silver	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446498

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492276	Sulfate	107		P	90 - 110
2492352	Sulfate	110		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446971

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492276	Chloride	99.0		P	90 - 110
2492352	Chloride	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492386	Ammonia-N	92.4	94.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446275

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492353	Kjeldahl Nitrogen	106	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446356

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492376	NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492389	Total-P	107	109	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P446196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492369	O-Phosphate-P	98.4	98.2	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P445968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492653	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	87.0	90.3	P/P	50 - 150
2492653	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.6	83.4	P/P	29 - 155
2492653	Acetochlor	96.1	91.0	P/P	60 - 124
2492653	Alachlor	95.1	90.0	P/P	54 - 122
2492653	Ametryn	90.9	95.5	P/P	51 - 208
2492653	Atrazine Desethyl	114	127	P/F	13 - 124
2492653	Avobenzone	148	194	P/F	35 - 187
2492653	Azinphos Methyl	151	122	P/P	43 - 276
2492653	Azoxystrobin	95.8	74.5	P/P	52 - 300
2492653	Bromacil	91.1	89.7	P/P	44 - 134
2492653	Butylate	49.5	67.0	P/P	23 - 82.0
2492653	Caffeine	134	136	P/P	10 - 277
2492653	Carbophenothion	105	107	P/P	47 - 135
2492653	Carfentrazone Ethyl	104	86.1	P/P	46 - 147
2492653	Chlorfenapyr	75.8	75.4	P/P	43 - 114
2492653	Chlorpyrifos Ethyl	79.6	96.7	P/P	47 - 124
2492653	Chlorpyrifos Methyl	104	105	P/P	60 - 135
2492653	Coumaphos	129	213	P/P	10 - 222
2492653	Cyanazine	123	115	P/P	10 - 257
2492653	Cyprodinil	91.3	93.7	P/P	42 - 148
2492653	Dechlorane 602	83.1	42.3	P/P	14 - 133
2492653	Dechlorane 603	87.3	70.8	P/P	18 - 191
2492653	Dechlorane Plus	67.9	51.5	P/P	23 - 154
2492653	Demeton	59.4	70.9	P/P	41 - 137
2492653	Diazinon	109	126	P/P	64 - 139
2492653	Difenoconazole	116	78.1	P/P	46 - 254
2492653	Dimethenamid	86.8	77.4	P/P	47 - 117
2492653	Dimethomorph	201	131	P/P	14 - 255
2492653	Disulfoton	98.7	115	P/P	52 - 130
2492653	Dithiopyr	89.4	72.2	P/P	40 - 121
2492653	EPTC	43.8	55.3	P/P	19 - 78.0
2492653	Ethion	73.2	63.0	P/P	12 - 124
2492653	Ethoprop	98.4	93.4	P/P	68 - 144
2492653	Etridiazole	55.6	67.1	P/P	26 - 96.0
2492653	Fenamiphos	85.8	82.9	P/P	41 - 129
2492653	Fenbuconazole	61.3	48.6	P/P	26 - 169
2492653	Fipronil	106	106	P/P	46 - 145
2492653	Fipronil Desulfinyl	92.2	75.3	P/P	47 - 136
2492653	Fipronil Sulfide	88.1	84.4	P/P	41 - 127
2492653	Fipronil Sulfone	88.9	72.3	P/P	35 - 133
2492653	Fluazifop-P-butyl	102	102	P/P	46 - 131
2492653	Fludioxonil	83.9	71.1	P/P	51 - 124
2492653	Flumioxazin	95.9	65.6	P/P	10 - 289
2492653	Flutolanil	71.7	53.3	P/P	34 - 130
2492653	Fluxapyroxad	80.7	58.7	P/P	10 - 197
2492653	Fonofos	77.0	90.1	P/P	42 - 131

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P445968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492653	Hexabromobenzene	81.8	80.1	P/P	47 - 178
2492653	Hexazinone	94.3	83.8	P/P	64 - 125
2492653	Imazalil	99.0	81.8	P/P	37 - 252
2492653	Iprodione	71.9	64.2	P/P	34 - 265
2492653	Loratadine	211	128	P/P	20 - 231
2492653	Malathion	92.2	20.0	P/F	34 - 164
2492653	Metalaxyl	90.0	102	P/P	49 - 125
2492653	Metolachlor	108	109	P/P	54 - 125
2492653	Metribuzin	114	103	P/P	51 - 139
2492653	Mevinphos	87.1	98.9	P/P	46 - 130
2492653	Molinate	52.8	60.8	P/P	39 - 93.0
2492653	Myclobutanil	78.9	66.7	P/P	50 - 130
2492653	Naled	36.0	38.2	P/P	10 - 150
2492653	Napropamide	102	33.5	P/P	10 - 109
2492653	Norflurazon	92.1	80.0	P/P	36 - 134
2492653	Octinoxate	94.9	139	P/P	18 - 170
2492653	Oxadiazon	65.2	57.4	P/P	43 - 112
2492653	Oxybenzone	108	142	P/P	33 - 154
2492653	Oxyfluorfen	116	124	P/P	62 - 154
2492653	Parathion Ethyl	106	80.5	P/P	65 - 120
2492653	Parathion Methyl	138	134	P/P	77 - 185
2492653	PBB-153	73.0	54.2	P/P	23 - 193
2492653	PBDE-47	87.0	88.7	P/P	31 - 139
2492653	PBDE-99	85.5	65.5	P/P	24 - 138
2492653	Pendimethalin	153	155	F/F	50 - 146
2492653	Pentabromotoluene	83.9	114	P/P	54 - 152
2492653	Phenytoin	42.7	32.6	P/P	10 - 157
2492653	Phorate	63.3	80.0	P/P	54 - 161
2492653	Prodiamine	118	105	P/P	29 - 160
2492653	Prometon	92.9	104	P/P	38 - 145
2492653	Prometryn	126	97.3	P/P	32 - 151
2492653	Pronamide	94.9	104	P/P	61 - 140
2492653	Propanil	116	112	P/P	50 - 147
2492653	Propargite	100	138	P/P	10 - 190
2492653	Propiconazole	95.5	93.3	P/P	30 - 146
2492653	Pyraflufen Ethyl	113	73.9	P/P	30 - 147
2492653	Pyridaben	142	123	P/P	15 - 195
2492653	Pyriproxyfen	79.8	49.8	P/P	31 - 218
2492653	Simazine	98.0	77.7	P/P	45 - 139
2492653	Stirophos	43.6	27.5	P/P	10 - 134
2492653	Sulfentrazone	54.6	54.0	P/P	53 - 186
2492653	Tebuconazole	82.7	44.2	P/P	10 - 133
2492653	Terbufos	78.6	98.2	P/P	65 - 151
2492653	Terbuthylazine	71.4	73.1	P/P	62 - 117
2492653	Tetradecachloro-m-terphenyl	76.3	121	P/P	10 - 260
2492653	Thiobencarb	88.5	32.9	P/F	48 - 122
2492653	Tri-o-cresyl Phosphate	101	141	P/P	32 - 151
2492653	Triadimefon	92.5	98.4	P/P	46 - 124
2492653	Tris(1-chloro-2-propyl) phosphate (TCPP)	109	165	P/F	51 - 154
2492653	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	112	156	P/F	59 - 147
2492653	Tris(2-chloroethyl) phosphate (TCEP)	172	276	F/F	65 - 156

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P446645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492602	PCB-1016	78.5	82.7	P/P	45 - 107
2492602	PCB-1260	84.2	86.2	P/P	40 - 112
2492717	Aldrin	56.9	54.4	P/P	24 - 81.0
2492717	Alpha-BHC	82.8	79.9	P/P	65 - 110
2492717	Alpha-Chlordane	64.9	59.7	P/P	43 - 119
2492717	Beta-BHC	110	89.1	P/P	54 - 165
2492717	Beta-Cyfluthrin	96.3	87.5	P/P	27 - 165
2492717	Bifenthrin	77.6	71.1	P/P	17 - 117
2492717	Chlorothalonil	132	138	P/P	10 - 255
2492717	Cis-Nonachlor	65.8	60.3	P/P	34 - 98.0
2492717	Cypermethrin	89.0	82.1	P/P	25 - 143
2492717	Dacthal	85.3	78.2	P/P	55 - 139
2492717	DDD-p,p'	69.9	63.9	P/P	30 - 109
2492717	DDE-p,p'	72.8	67.6	P/P	35 - 106
2492717	DDT-p,p'	69.5	68.0	P/P	41 - 101
2492717	Delta-BHC	122	107	P/P	58 - 165
2492717	Deltamethrin	135	116	P/P	10 - 194
2492717	Dichlobenil	43.2	48.5	P/P	22 - 114
2492717	Dicofol	66.7	65.1	P/P	17 - 133
2492717	Dieldrin	71.7	64.4	P/P	45 - 129
2492717	Endosulfan I	82.1	75.8	P/P	49 - 104
2492717	Endosulfan II	69.5	63.3	P/P	37 - 117
2492717	Endosulfan Sulfate	85.1	73.1	P/P	38 - 128
2492717	Endrin	80.4	70.7	P/P	35 - 116
2492717	Endrin Aldehyde	75.1	58.0	P/P	19 - 108
2492717	Endrin Ketone	77.9	68.1	P/P	44 - 134
2492717	Esfenvalerate	108	97.1	P/P	27 - 176
2492717	Ethalfluralin	67.3	67.7	P/P	49 - 100
2492717	Fenpropathrin	76.6	70.3	P/P	34 - 117
2492717	Gamma-BHC	80.7	76.3	P/P	59 - 129
2492717	Gamma-Chlordane	71.6	64.7	P/P	33 - 107
2492717	Heptachlor	57.8	57.5	P/P	37 - 94.0
2492717	Heptachlor Epoxide	72.5	67.9	P/P	38 - 118
2492717	Hexachlorobenzene	61.4	62.3	P/P	35 - 97.0
2492717	Kepone	127	98.6	P/P	10 - 221
2492717	Lambda-Cyhalothrin	93.2	89.2	P/P	23 - 190
2492717	Methoprene	83.8	84.1	P/P	21 - 109
2492717	Methoxychlor	80.7	68.9	P/P	46 - 118
2492717	MGK-264	86.3	77.3	P/P	39 - 122
2492717	Mirex	65.7	58.5	P/P	25 - 90.0
2492717	Oxychlordane	71.1	70.1	P/P	42 - 100
2492717	Permethrin	87.4	84.4	P/P	33 - 181
2492717	Phenothrin	75.4	71.7	P/P	12 - 125
2492717	Piperonyl Butoxide	87.6	80.4	P/P	10 - 178
2492717	Prallethrin	75.7	74.6	P/P	24 - 122
2492717	Tau-Fluvalinate	91.9	88.2	P/P	13 - 151
2492717	Tetramethrin	84.0	77.4	P/P	16 - 172
2492717	Trans-Nonachlor	72.6	64.1	P/P	39 - 100
2492717	Triclosan Methyl	82.0	75.8	P/P	43 - 110
2492717	Trifluralin	69.7	68.1	P/P	45 - 94.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P446645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492602	Chlordane	105	91.3	P/P	52 - 117
2492602	Toxaphene	87.8	96.9	P/P	44 - 125

Reference Method: EPA 8321B
Batch ID: P446073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490634	3-Hydroxycarbofuran	105	116	P/P	40 - 150
2490634	Aldicarb	83.1	88.2	P/P	30 - 150
2490634	Aldicarb Sulfone	107	111	P/P	40 - 150
2490634	Aldicarb Sulfoxide	37.3	34.9	F/F	40 - 150
2490634	Carbaryl	75.0	73.4	P/P	40 - 150
2490634	Carbofuran	66.4	57.7	P/P	40 - 150
2490634	Methiocarb	57.7	75.0	P/P	40 - 150
2490634	Methomyl	86.2	87.9	P/P	40 - 150
2490634	Oxamyl	90.5	93.1	P/P	40 - 150
2490634	Propoxur	60.1	50.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P446135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492154	Acesulfame K	116	118	P/P	40 - 150
2492154	AMPA	94.2	103	P/P	40 - 160
2492154	Endothall	119	136	P/P	40 - 160
2492154	Glufosinate	85.5	106	P/P	40 - 160
2492154	Glyphosate	89.5	99.1	P/P	40 - 160
2492154	Sucralose	111	112	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P446147

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491445	2,4-D	118	104	P/P	40 - 150
2491445	2,4,5-T	101	76.7	P/P	40 - 150
2491445	Acetaminophen	92.4	91.3	P/P	30 - 150
2491445	Acetamiprid	110	114	P/P	40 - 150
2491445	Afidopyropen	119	104	P/P	30 - 150
2491445	Bentazon	84.3	81.2	P/P	30 - 150
2491445	Benzovindiflupyr	92.7	82.3	P/P	40 - 150
2491445	Carbamazepine	111	83.6	P/P	40 - 150
2491445	Clothianidin	89.4	88.8	P/P	40 - 150
2491445	Dinotefuran	102	106	P/P	40 - 150
2491445	Diuron	87.6	77.1	P/P	40 - 150
2491445	Fenuron	97.0	96.6	P/P	40 - 150
2491445	Fluridone	99.2	89.1	P/P	40 - 150
2491445	Hydrocodone	97.9	96.9	P/P	40 - 150
2491445	Ibuprofen	64.0	78.2	P/P	40 - 150
2491445	Imazapyr	104	109	P/P	40 - 150
2491445	Imidacloprid	99.5	104	P/P	40 - 150
2491445	Linuron	105	101	P/P	40 - 150
2491445	Mandestrobin	113	89.2	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P446147

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491445	MCPP	116	110	P/P	40 - 150
2491445	Naproxen	99.7	83.5	P/P	40 - 150
2491445	Primidone	106	102	P/P	40 - 150
2491445	Pyraclostrobin	88.8	78.1	P/P	40 - 150
2491445	Silvex	103	116	P/P	40 - 150
2491445	Thiamethoxam	93.7	99.5	P/P	40 - 150
2491445	Tolfenpyrad	45.0	43.2	P/P	30 - 150
2491445	Triclopyr	103	84.7	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P446472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492276	Fluoride	101	102	P/P	95 - 107

Reference Method: SM 5310 B-2014
Batch ID: P446541

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491365	Organic Carbon	98.1	101	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P446204

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492385	Color (true)	0.429	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492272	Turbidity	1.31	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P446290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490182	Calcium	0.0815	Spike	P	0 - 20
2490182	Iron	1.78	Spike	P	0 - 20
2490182	Magnesium	1.84	Spike	P	0 - 20
2490182	Potassium	1.14	Spike	P	0 - 20
2490182	Sodium	0.0882	Spike	P	0 - 20
2490182	Strontium	0.464	Spike	P	0 - 20
2490182	Tin	0.103	Spike	P	0 - 20
2490182	Titanium	0.276	Spike	P	0 - 20
2490182	Vanadium	0.0858	Spike	P	0 - 20
2490182	Zinc	0.126	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490182	Aluminum	0.523	Spike	P	0 - 20
2490182	Antimony	0.890	Spike	P	0 - 20
2490182	Arsenic	0.455	Spike	P	0 - 20
2490182	Barium	0.165	Spike	P	0 - 20
2490182	Beryllium	0.935	Spike	P	0 - 20
2490182	Boron	0.125	Spike	P	0 - 20
2490182	Cadmium	0.292	Spike	P	0 - 20
2490182	Chromium	0.600	Spike	P	0 - 20
2490182	Cobalt	0.449	Spike	P	0 - 20
2490182	Copper	1.32	Spike	P	0 - 20
2490182	Lead	0.534	Spike	P	0 - 20
2490182	Manganese	1.11	Spike	P	0 - 20
2490182	Molybdenum	0.195	Spike	P	0 - 20
2490182	Nickel	0.144	Spike	P	0 - 20
2490182	Selenium	4.24	Spike	P	0 - 20
2490182	Thallium	0.417	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P446910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2495132	Silver	0.0789	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446498

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492276	Sulfate	1.99	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492276	Chloride	2.94	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492386	Ammonia-N	1.82	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492353	Kjeldahl Nitrogen	0.538	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446356

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492376	NO2NO3-N	1.00	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492389	Total-P	1.65	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P446196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492369	O-Phosphate-P	0.203	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P445968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492653	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	3.81	Spike	P	0 - 30
2492653	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	13.5	Spike	P	0 - 35
2492653	Acetochlor	5.46	Spike	P	0 - 28
2492653	Alachlor	5.55	Spike	P	0 - 30
2492653	Ametryn	3.12	Spike	P	0 - 32
2492653	Atrazine	6.25	Spike	P	0 - 33
2492653	Atrazine Desethyl	10.7	Spike	P	0 - 36
2492653	Avobenzone	27.0	Spike	P	0 - 35
2492653	Azinphos Methyl	21.4	Spike	P	0 - 62
2492653	Azoxystrobin	25.0	Spike	P	0 - 39
2492653	Bromacil	1.59	Spike	P	0 - 33
2492653	Butylate	30.0	Spike	P	0 - 51
2492653	Caffeine	1.18	Spike	P	0 - 100
2492653	Carbophenothion	2.59	Spike	P	0 - 34
2492653	Carfentrazone Ethyl	18.7	Spike	P	0 - 33
2492653	Chlorfenapyr	0.552	Spike	P	0 - 28
2492653	Chlorpyrifos Ethyl	19.4	Spike	P	0 - 31
2492653	Chlorpyrifos Methyl	0.804	Spike	P	0 - 27
2492653	Coumaphos	48.7	Spike	P	0 - 62
2492653	Cyanazine	6.75	Spike	P	0 - 48
2492653	Cyprodinil	2.57	Spike	P	0 - 29
2492653	Dechlorane 602	65.0	Spike	F	0 - 60
2492653	Dechlorane 603	20.8	Spike	P	0 - 40
2492653	Dechlorane Plus	27.6	Spike	P	0 - 38
2492653	Demeton	17.6	Spike	P	0 - 33
2492653	Diazinon	14.8	Spike	P	0 - 32
2492653	Difenoconazole	38.9	Spike	P	0 - 71
2492653	Dimethenamid	11.5	Spike	P	0 - 60
2492653	Dimethomorph	42.1	Spike	P	0 - 61
2492653	Disulfoton	15.2	Spike	P	0 - 30
2492653	Dithiopyr	21.2	Spike	P	0 - 28
2492653	EPTC	23.1	Spike	P	0 - 56
2492653	Ethion	14.9	Spike	P	0 - 79
2492653	Ethoprop	5.23	Spike	P	0 - 31
2492653	Etridiazole	18.6	Spike	P	0 - 43
2492653	Fenamiphos	3.49	Spike	P	0 - 43
2492653	Fenbuconazole	23.2	Spike	P	0 - 79
2492653	Fipronil	0.722	Spike	P	0 - 46
2492653	Fipronil Desulfinyl	20.2	Spike	P	0 - 36
2492653	Fipronil Sulfide	4.26	Spike	P	0 - 34
2492653	Fipronil Sulfone	20.6	Spike	P	0 - 47
2492653	Fluazifop-P-butyl	0.635	Spike	P	0 - 38
2492653	Fludioxonil	16.5	Spike	P	0 - 29
2492653	Flumioxazin	37.4	Spike	P	0 - 63
2492653	Flutolanil	29.5	Spike	P	0 - 36
2492653	Fluxapyroxad	31.6	Spike	P	0 - 65
2492653	Fonofos	15.7	Spike	P	0 - 35
2492653	Hexabromobenzene	2.17	Spike	P	0 - 41
2492653	Hexazinone	11.8	Spike	P	0 - 31
2492653	Imazalil	19.1	Spike	P	0 - 52
2492653	Iprodione	11.4	Spike	P	0 - 49

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P445968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492653	Loratadine	48.9	Spike	P	0 - 59
2492653	Malathion	129	Spike	F	0 - 77
2492653	Metalaxyl	12.9	Spike	P	0 - 76
2492653	Metolachlor	0.968	Spike	P	0 - 29
2492653	Metribuzin	9.74	Spike	P	0 - 51
2492653	Mevinphos	12.7	Spike	P	0 - 31
2492653	Molinate	14.1	Spike	P	0 - 39
2492653	Myclobutanil	16.7	Spike	P	0 - 34
2492653	Naled	5.95	Spike	P	0 - 37
2492653	Napropamide	101	Spike	F	0 - 100
2492653	Norflurazon	14.0	Spike	P	0 - 54
2492653	Octinoxate	38.0	Spike	F	0 - 35
2492653	Oxadiazon	10.1	Spike	P	0 - 34
2492653	Oxybenzone	27.4	Spike	P	0 - 35
2492653	Oxyfluorfen	5.88	Spike	P	0 - 28
2492653	Parathion Ethyl	27.2	Spike	P	0 - 31
2492653	Parathion Methyl	3.30	Spike	P	0 - 29
2492653	PBB-153	29.5	Spike	P	0 - 49
2492653	PBDE-47	1.84	Spike	P	0 - 36
2492653	PBDE-99	26.5	Spike	P	0 - 46
2492653	Pendimethalin	1.38	Spike	P	0 - 31
2492653	Pentabromotoluene	30.1	Spike	F	0 - 16
2492653	Phenytoin	26.7	Spike	P	0 - 100
2492653	Phorate	23.4	Spike	P	0 - 36
2492653	Prodiamine	11.4	Spike	P	0 - 68
2492653	Prometon	11.0	Spike	P	0 - 35
2492653	Prometryn	25.7	Spike	P	0 - 33
2492653	Pronamide	9.33	Spike	P	0 - 24
2492653	Propanil	3.07	Spike	P	0 - 28
2492653	Propargite	31.9	Spike	P	0 - 53
2492653	Propiconazole	2.33	Spike	P	0 - 44
2492653	Pyraflufen Ethyl	42.0	Spike	P	0 - 61
2492653	Pyridaben	14.0	Spike	P	0 - 43
2492653	Pyriproxyfen	41.0	Spike	P	0 - 82
2492653	Simazine	23.1	Spike	P	0 - 29
2492653	Stirophos	45.3	Spike	P	0 - 100
2492653	Sulfentrazone	1.06	Spike	P	0 - 64
2492653	Tebuconazole	60.8	Spike	P	0 - 76
2492653	Terbufos	22.2	Spike	P	0 - 29
2492653	Terbuthylazine	2.30	Spike	P	0 - 28
2492653	Tetradecachloro-m-terphenyl	45.7	Spike	F	0 - 42
2492653	Thiobencarb	91.6	Spike	F	0 - 26
2492653	Tri-o-cresyl Phosphate	33.0	Spike	F	0 - 24
2492653	Triadimefon	6.11	Spike	P	0 - 40
2492653	Tris(1-chloro-2-propyl) phosphate (TCPP)	33.6	Spike	F	0 - 30
2492653	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	30.3	Spike	F	0 - 22
2492653	Tris(2-chloroethyl) phosphate (TCEP)	46.5	Spike	F	0 - 15

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P446645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492602	PCB-1016	5.27	Spike	P	0 - 25
2492602	PCB-1260	2.36	Spike	P	0 - 30
2492717	Aldrin	4.49	Spike	P	0 - 41
2492717	Alpha-BHC	3.59	Spike	P	0 - 25
2492717	Alpha-Chlordane	8.38	Spike	P	0 - 32
2492717	Beta-BHC	20.7	Spike	P	0 - 33
2492717	Beta-Cyfluthrin	9.65	Spike	P	0 - 43
2492717	Bifenthrin	8.64	Spike	P	0 - 52
2492717	Chlorothalonil	4.29	Spike	P	0 - 82
2492717	Cis-Nonachlor	8.84	Spike	P	0 - 33
2492717	Cypermethrin	8.13	Spike	P	0 - 51
2492717	Dacthal	8.67	Spike	P	0 - 27
2492717	DDD-p,p'	8.96	Spike	P	0 - 39
2492717	DDE-p,p'	7.38	Spike	P	0 - 31
2492717	DDT-p,p'	2.17	Spike	P	0 - 29
2492717	Delta-BHC	13.1	Spike	P	0 - 35
2492717	Deltamethrin	14.7	Spike	P	0 - 100
2492717	Dichlobenil	11.6	Spike	P	0 - 40
2492717	Dicofol	2.43	Spike	P	0 - 37
2492717	Dieldrin	10.7	Spike	P	0 - 27
2492717	Endosulfan I	7.93	Spike	P	0 - 23
2492717	Endosulfan II	9.36	Spike	P	0 - 34
2492717	Endosulfan Sulfate	15.1	Spike	P	0 - 36
2492717	Endrin	12.8	Spike	P	0 - 45
2492717	Endrin Aldehyde	25.7	Spike	P	0 - 76
2492717	Endrin Ketone	13.5	Spike	P	0 - 43
2492717	Esfenvalerate	10.5	Spike	P	0 - 51
2492717	Ethalfluralin	0.629	Spike	P	0 - 22
2492717	Fenpropathrin	8.63	Spike	P	0 - 49
2492717	Gamma-BHC	5.54	Spike	P	0 - 28
2492717	Gamma-Chlordane	10.1	Spike	P	0 - 40
2492717	Heptachlor	0.512	Spike	P	0 - 29
2492717	Heptachlor Epoxide	6.52	Spike	P	0 - 33
2492717	Hexachlorobenzene	1.50	Spike	P	0 - 36
2492717	Kepone	25.2	Spike	P	0 - 85
2492717	Lambda-Cyhalothrin	4.40	Spike	P	0 - 55
2492717	Methoprene	0.380	Spike	P	0 - 53
2492717	Methoxychlor	15.7	Spike	P	0 - 50
2492717	MGK-264	11.0	Spike	P	0 - 43
2492717	Mirex	11.5	Spike	P	0 - 40
2492717	Oxychlordane	1.36	Spike	P	0 - 31
2492717	Permethrin	3.54	Spike	P	0 - 50
2492717	Phenothrin	5.08	Spike	P	0 - 58
2492717	Piperonyl Butoxide	8.48	Spike	P	0 - 100
2492717	Prallethrin	1.42	Spike	P	0 - 39
2492717	Tau-Fluvalinate	4.12	Spike	P	0 - 54
2492717	Tetramethrin	8.19	Spike	P	0 - 51
2492717	Trans-Nonachlor	12.4	Spike	P	0 - 39
2492717	Triclosan Methyl	7.81	Spike	P	0 - 31
2492717	Trifluralin	2.36	Spike	P	0 - 22

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P446645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492602	Chlordane	14.4	Spike	P	0 - 32
2492602	Toxaphene	9.85	Spike	P	0 - 28

Reference Method: EPA 8321B
Batch ID: P446073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490634	3-Hydroxycarbofuran	9.43	Spike	P	0 - 30
2490634	Aldicarb	5.94	Spike	P	0 - 30
2490634	Aldicarb Sulfone	3.25	Spike	P	0 - 30
2490634	Aldicarb Sulfoxide	6.62	Spike	P	0 - 30
2490634	Carbaryl	2.19	Spike	P	0 - 30
2490634	Carbofuran	14.1	Spike	P	0 - 30
2490634	Methiocarb	26.1	Spike	P	0 - 30
2490634	Methomyl	2.00	Spike	P	0 - 30
2490634	Oxamyl	2.79	Spike	P	0 - 30
2490634	Propoxur	18.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P446135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492154	Acesulfame K	2.01	Spike	P	0 - 30
2492154	AMPA	8.97	Spike	P	0 - 30
2492154	Endothall	13.2	Spike	P	0 - 30
2492154	Glufosinate	21.6	Spike	P	0 - 30
2492154	Glyphosate	10.2	Spike	P	0 - 30
2492154	Sucralose	1.05	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P446147

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491445	2,4-D	12.0	Spike	P	0 - 30
2491445	2,4,5-T	27.6	Spike	P	0 - 30
2491445	Acetaminophen	1.22	Spike	P	0 - 30
2491445	Acetamiprid	3.62	Spike	P	0 - 30
2491445	Afidopyropen	13.0	Spike	P	0 - 30
2491445	Bentazon	3.71	Spike	P	0 - 30
2491445	Benzovindiflupyr	11.9	Spike	P	0 - 30
2491445	Carbamazepine	28.3	Spike	P	0 - 30
2491445	Clothianidin	0.651	Spike	P	0 - 30
2491445	Dinotefuran	4.55	Spike	P	0 - 30
2491445	Diuron	12.8	Spike	P	0 - 30
2491445	Fenuron	0.390	Spike	P	0 - 30
2491445	Fluridone	10.8	Spike	P	0 - 30
2491445	Hydrocodone	1.03	Spike	P	0 - 30
2491445	Ibuprofen	20.0	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P446147

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491445	Imazapyr	4.50	Spike	P	0 - 30
2491445	Imidacloprid	4.46	Spike	P	0 - 30
2491445	Linuron	4.35	Spike	P	0 - 30
2491445	Mandestrobin	23.5	Spike	P	0 - 30
2491445	MCPP	5.48	Spike	P	0 - 30
2491445	Naproxen	17.7	Spike	P	0 - 30
2491445	Primidone	4.11	Spike	P	0 - 30
2491445	Pyraclostrobin	12.8	Spike	P	0 - 30
2491445	Silvex	11.2	Spike	P	0 - 30
2491445	Thiamethoxam	6.04	Spike	P	0 - 30
2491445	Tolfenpyrad	4.21	Spike	P	0 - 30
2491445	Triclopyr	19.6	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P446469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492276	Total Alkalinity	3.88	Sample	P	0 - 4.1

Reference Method: SM 2540 C-2015
Batch ID: P446757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492280	TDS	4.84	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P446472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492276	Fluoride	0.946	Spike	P	0 - 1.7

Reference Method: SM 5310 B-2014
Batch ID: P446541

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491365	Organic Carbon	1.97	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2492399
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	61.6	P	30 - 160

Lab Sample ID: 2492400
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.8	P	30 - 160
EPA 8321B	Diuron-d6	64.5	P	30 - 160
EPA 8321B	Endothall-d6	129	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	115	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.2	P	30 - 160
EPA 8321B	Primidone-d5	81.2	P	30 - 160
EPA 8321B	Sucralose-d6	108	P	30 - 160

Lab Sample ID: 2492401
Field Sample ID: G1SD0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	118	P	30 - 160
EPA 8321B	Acetaminophen-d4	73.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.8	P	30 - 160
EPA 8321B	Diuron-d6	51.5	P	30 - 160
EPA 8321B	Endothall-d6	141	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	118	P	30 - 160
EPA 8321B	Ibuprofen-d3	93.1	P	30 - 160
EPA 8321B	Primidone-d5	54.7	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160

Lab Sample ID: 2492406
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	89.0	P	37 - 129
EPA 8270E	Decachlorobiphenyl	88.7	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	52.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	56.7	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	42.4	P	23 - 110
EPA 8276	PCNB	97.1	P	51 - 130

Lab Sample ID: 2492407
Field Sample ID: G3SD0204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	64.8	P	20 - 200
EPA 8270E	Simazine-d10	113	P	58 - 137
EPA 8270E	Terbufos-d10	85.9	P	50 - 134
EPA 8270E	Terphenyl-d14	113	P	44 - 134

Quality Assurance Report
Surrogates

Lab Sample ID: 2492408
Field Sample ID: G1SD0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	59.8	P	20 - 200
EPA 8270E	Simazine-d10	88.5	P	58 - 137
EPA 8270E	Terbufos-d10	72.0	P	50 - 134
EPA 8270E	Terphenyl-d14	88.7	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A125985
Included Lab Sample IDs: 2492400, 2492401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	114	114	P/P	60 - 160
Endothall	110	114	P/P	60 - 160
Glufosinate	108	109	P/P	60 - 160
Glyphosate	104	109	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A125990
Included Lab Sample IDs: 2492400, 2492401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	113	120	P/P	60 - 160
Sucralose	122	119	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A126054
Included Lab Sample IDs: 2492387, 2492390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.5	97.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A126055
Included Lab Sample IDs: 2492385, 2492388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A126058
Included Lab Sample IDs: 2492385, 2492388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.5	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A126077
Included Lab Sample IDs: 2492385, 2492388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	98.8	96.7	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A126081
Included Lab Sample IDs: 2492400, 2492401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	101	P/P	50 - 150
2,4,5-T	91.9	100	P/P	50 - 150
3-Hydroxycarbofuran	99.8	101	P/P	60 - 150
Acetaminophen	92.8	91.5	P/P	60 - 160
Acetamiprid	105	107	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A126081
Included Lab Sample IDs: 2492400, 2492401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	109	142	P/P	50 - 150
Aldicarb	97.2	100	P/P	60 - 150
Aldicarb Sulfone	95.1	98.3	P/P	50 - 150
Aldicarb Sulfoxide	97.6	101	P/P	50 - 150
Bentazon	76.7	93.0	P/P	50 - 160
Benzovindiflupyr	112	118	P/P	50 - 150
Carbamazepine	115	110	P/P	60 - 150
Carbaryl	92.3	93.9	P/P	60 - 150
Carbofuran	78.5	93.6	P/P	50 - 150
Clothianidin	76.2	102	P/P	60 - 150
Dinotefuran	104	107	P/P	50 - 150
Diuron	127	126	P/P	60 - 160
Fenuron	86.9	110	P/P	60 - 150
Fluridone	120	123	P/P	60 - 160
Hydrocodone	103	106	P/P	60 - 150
Ibuprofen	84.6	110	P/P	50 - 160
Imazapyr	93.0	96.6	P/P	50 - 150
Imidacloprid	103	97.2	P/P	60 - 150
Linuron	135	122	P/P	60 - 150
Mandestrobin	132	126	P/P	50 - 150
MCPP	106	98.6	P/P	50 - 150
Methiocarb	109	97.0	P/P	50 - 150
Methomyl	102	102	P/P	50 - 150
Naproxen	108	72.8	P/P	50 - 160
Oxamyl	93.9	98.6	P/P	50 - 150
Primidone	84.7	96.0	P/P	60 - 150
Propoxur	89.2	85.4	P/P	50 - 150
Pyraclostrobin	113	120	P/P	60 - 150
Silvex	106	120	P/P	50 - 150
Thiamethoxam	76.4	105	P/P	50 - 150
Tolfenpyrad	79.1	94.8	P/P	60 - 150
Triclopyr	107	98.9	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A126099
Included Lab Sample IDs: 2492386, 2492389

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A126102
Included Lab Sample IDs: 2492410, 2492411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	102	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Magnesium	104	103	P/P	90 - 110
Potassium	99.8	101	P/P	90 - 110
Sodium	101	99.9	P/P	90 - 110
Strontium	101	100	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A126102
Included Lab Sample IDs: 2492410, 2492411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	102	103	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	99.3	98.9	P/P	90 - 110
Zinc	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A126110
Included Lab Sample IDs: 2492386

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A126112
Included Lab Sample IDs: 2492389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A126119
Included Lab Sample IDs: 2492386, 2492389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.5	95.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A126130
Included Lab Sample IDs: 2492410, 2492411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.9	101	P/P	90 - 110
Antimony	100	99.4	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Barium	101	98.2	P/P	90 - 110
Beryllium	100	100	P/P	90 - 110
Boron	101	100	P/P	90 - 110
Cadmium	99.9	98.3	P/P	90 - 110
Chromium	98.5	99.1	P/P	90 - 110
Cobalt	98.3	99.1	P/P	90 - 110
Copper	99.7	100	P/P	90 - 110
Lead	99.3	97.8	P/P	90 - 110
Manganese	100	99.6	P/P	90 - 110
Molybdenum	98.7	96.4	P/P	90 - 110
Nickel	98.8	100	P/P	90 - 110
Selenium	99.4	97.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A126140
Included Lab Sample IDs: 2492385, 2492388

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.3	97.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A126140
Included Lab Sample IDs: 2492385, 2492388

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A126151
Included Lab Sample IDs: 2492410, 2492411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thallium	95.8	95.7	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A126158
Included Lab Sample IDs: 2492407, 2492408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	104		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	108		P	80 - 120
Avobenzone	112		P	80 - 120
Dechlorane 602	106		P	80 - 120
Dechlorane 603	109		P	80 - 120
Dechlorane Plus	108		P	80 - 120
Hexabromobenzene	102		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	104		P	80 - 120
PBB-153	101		P	80 - 120
PBDE-47	103		P	80 - 120
PBDE-99	104		P	80 - 120
Pentabromotoluene	101		P	80 - 120
Tetradecachloro-m-terphenyl	95.9		P	80 - 120
Tri-o-cresyl Phosphate	103		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	97.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.8		P	80 - 120

Reference Method: SM 5310 B-2014
Run ID: A126162
Included Lab Sample IDs: 2492386, 2492389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	112	97.4	P/P	70 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A126167
Included Lab Sample IDs: 2492386, 2492389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	95.9	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A126247
Included Lab Sample IDs: 2492406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.4		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A126294
Included Lab Sample IDs: 2492406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	102		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	99.9		P	80 - 120
Beta-BHC	97.5		P	80 - 120
Beta-Cyfluthrin	107		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	93.7		P	80 - 120
Delta-BHC	111		P	80 - 120
Deltamethrin	109		P	80 - 120
Dichlobenil	85.5		P	80 - 120
Dicofol	93.1		P	80 - 120
Dieldrin	100		P	80 - 120
Endosulfan I	106		P	80 - 120
Endosulfan II	97.8		P	80 - 120
Endosulfan Sulfate	110		P	80 - 120
Endrin	103		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	98.1		P	80 - 120
Esfenvalerate	110		P	80 - 120
Ethalfluralin	107		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	105		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	97.0		P	80 - 120
Kepone	90.3		P	80 - 120
Lambda-Cyhalothrin	107		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	107		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A126294
Included Lab Sample IDs: 2492406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MGK-264	103		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	99.8		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	106		P	80 - 120
Tau-Fluvalinate	107		P	80 - 120
Tetramethrin	105		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	99.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A126311
Included Lab Sample IDs: 2492406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.4		P	80 - 120
PCB-1260	98.4		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A126324
Included Lab Sample IDs: 2492385, 2492388

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A126329
Included Lab Sample IDs: 2492410, 2492411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	96.5	95.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A126336
Included Lab Sample IDs: 2492407, 2492408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	85.4		P	80 - 120
Alachlor	91.1		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	92.0		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	109		P	80 - 120
Azoxystrobin	98.3		P	80 - 120
Bromacil	90.9		P	80 - 120
Butylate	98.3		P	80 - 120
Caffeine	83.5		P	80 - 120
Carbophenothion	91.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A126336
Included Lab Sample IDs: 2492407, 2492408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	90.1		P	80 - 120
Chlorfenapyr	90.4		P	80 - 120
Chlorpyrifos Ethyl	88.5		P	80 - 120
Chlorpyrifos Methyl	103		P	80 - 120
Coumaphos	119		P	80 - 120
Cyanazine	89.9		P	80 - 120
Cyprodinil	94.9		P	80 - 120
Demeton	96.0		P	80 - 120
Diazinon	94.4		P	80 - 120
Difenoconazole	99.7		P	80 - 120
Dimethenamid	98.9		P	80 - 120
Dimethomorph	104		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	95.9		P	80 - 120
Ethion	88.8		P	80 - 120
Ethoprop	97.9		P	80 - 120
Etridiazole	96.7		P	80 - 120
Fenamiphos	89.5		P	80 - 120
Fenbuconazole	90.9		P	80 - 120
Fipronil	96.5		P	80 - 120
Fipronil Desulfinyl	98.1		P	80 - 120
Fipronil Sulfide	89.3		P	80 - 120
Fipronil Sulfone	99.3		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	91.6		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	99.3		P	80 - 120
Fluxapyroxad	88.6		P	80 - 120
Fonofos	93.4		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	92.7		P	80 - 120
Iprodione	95.8		P	80 - 120
Loratadine	97.3		P	80 - 120
Malathion	91.7		P	80 - 120
Metalaxyl	90.0		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	87.8		P	80 - 120
Mevinphos	118		P	80 - 120
Molinate	84.8		P	80 - 120
Myclobutanil	87.0		P	80 - 120
Naled	93.5		P	80 - 120
Napropamide	93.4		P	80 - 120
Norflurazon	86.9		P	80 - 120
Oxadiazon	94.6		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	99.8		P	80 - 120
Parathion Methyl	107		P	80 - 120
Pendimethalin	107		P	80 - 120
Phenytoin	95.0		P	80 - 120
Phorate	94.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A126336
Included Lab Sample IDs: 2492407, 2492408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prodiamine	128*		F	80 - 120
Prometon	98.6		P	80 - 120
Prometryn	107		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	96.8		P	80 - 120
Propargite	99.1		P	80 - 120
Propiconazole	88.4		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	97.4		P	80 - 120
Pyriproxyfen	95.3		P	80 - 120
Simazine	83.0		P	80 - 120
Stirophos	95.5		P	80 - 120
Sulfentrazone	105		P	80 - 120
Tebuconazole	95.5		P	80 - 120
Terbufos	92.1		P	80 - 120
Terbuthylazine	90.6		P	80 - 120
Thiobencarb	98.6		P	80 - 120
Triadimefon	93.2		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			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	100					0.429	
EPA 180.1 Rev. 2.0	Turbidity	101					1.31	
EPA 200.7 Rev. 4.4	Calcium	102	102	102				0.0815
	Iron	110	111	109	110			1.78
	Magnesium	111	111	108	112			1.84
	Potassium	101	102	103	101			1.14
	Sodium	99.7	99.8	99.8				0.0882
	Strontium	99.2	98.6	98.1	98.2			0.464
	Tin	98.1	96.9	97.0	97.3			0.103
	Titanium	99.4	99.2	99.5	113			0.276
	Vanadium	99.2	99.8	99.9	99.1			0.0858
	Zinc	97.5	97.6	97.7	96.7			0.126
EPA 200.8 Rev. 5.4	Aluminum	102	101	101	99.2			0.523
	Antimony	107	110	109	106			0.890
	Arsenic	102	104	103	102			0.455
	Barium	103	103	102	104			0.165
	Beryllium	107	103	102	104			0.935
	Boron	107	104	104	108			0.125
	Cadmium	98.3	101	101	102			0.292
	Chromium	103	103	104	102			0.600
	Cobalt	101	101	101	101			0.449
	Copper	100	102	100	100			1.32
	Lead	101	103	102	101			0.534
	Manganese	103	102	101				1.11
	Molybdenum	99.7	102	102	100			0.195
	Nickel	101	100	100	103			0.144
	Selenium	102	103	98.4	98.5			4.24
	Silver	107	104	105	103			0.0789
	Thallium	92.6	101	100	94.9			0.417
EPA 300.0 Rev. 2.1	Chloride	99.7	99.0	102			2.94	
	Sulfate	108	107	110			1.99	
EPA 350.1 Rev. 2.0	Ammonia-N	95.2	92.4	94.4				1.82
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	106	106				0.538
EPA 353.2 Rev. 2.0	NO2NO3-N	100	99.5	100				1.00
EPA 365.1 Rev. 2.0	Total-P	102	107	109				1.65
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	98.4	98.2				0.203
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	84.4	87.0	90.3				3.81
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101	95.6	83.4				13.5
	Acetochlor	99.8	96.1	91.0				5.46
	Alachlor	104	95.1	90.0				5.55
	Aldrin	87.0	56.9	54.4				4.49
	Alpha-BHC	91.5	82.8	79.9				3.59
	Alpha-Chlordane	81.6	64.9	59.7				8.38
	Ametryn	94.9	90.9	95.5				3.12
	Atrazine	95.4						6.25
	Atrazine Desethyl	101	114	127				10.7
	Avobenzone	135	148	194				27.0
	Azinphos Methyl	187	151	122				21.4
	Azoxystrobin	106	95.8	74.5				25.0
	Beta-BHC	93.8	110	89.1				20.7
	Beta-Cyfluthrin	120	96.3	87.5				9.65

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Bifenthrin	109	77.6	71.1			8.64
	Bromacil	118	91.1	89.7			1.59
	Butylate	50.0	49.5	67.0			30.0
	Caffeine	120	134	136			1.18
	Carbophenothion	113	105	107			2.59
	Carfentrazone Ethyl	114	104	86.1			18.7
	Chlorfenapyr	114	75.8	75.4			0.552
	Chlorothalonil	90.9	132	138			4.29
	Chlorpyrifos Ethyl	90.8	79.6	96.7			19.4
	Chlorpyrifos Methyl	122	104	105			0.804
	Cis-Nonachlor	86.8	65.8	60.3			8.84
	Coumaphos	194	129	213			48.7
	Cyanazine	116	123	115			6.75
	Cypermethrin	99.7	89.0	82.1			8.13
	Cyprodinil	125	91.3	93.7			2.57
	Dacthal	101	85.3	78.2			8.67
	DDD-p,p'	87.3	69.9	63.9			8.96
	DDE-p,p'	94.8	72.8	67.6			7.38
	DDT-p,p'	82.8	69.5	68.0			2.17
	Dechlorane 602	85.4	83.1	42.3			65.0
	Dechlorane 603	104	87.3	70.8			20.8
	Dechlorane Plus	99.5	67.9	51.5			27.6
	Delta-BHC	114	122	107			13.1
	Deltamethrin	124	135	116			14.7
	Demeton	64.0	59.4	70.9			17.6
	Diazinon	89.2	109	126			14.8
	Dichlobenil	79.0	43.2	48.5			11.6
	Dicofol	76.1	66.7	65.1			2.43
	Dieldrin	85.6	71.7	64.4			10.7
	Difenoconazole	184	116	78.1			38.9
	Dimethenamid	104	86.8	77.4			11.5
	Dimethomorph	230	201	131			42.1
	Disulfoton	85.9	98.7	115			15.2
	Dithiopyr	112	89.4	72.2			21.2
	Endosulfan I	101	82.1	75.8			7.93
	Endosulfan II	85.7	69.5	63.3			9.36
	Endosulfan Sulfate	107	85.1	73.1			15.1
	Endrin	101	80.4	70.7			12.8
	Endrin Aldehyde	105	75.1	58.0			25.7
	Endrin Ketone	86.9	77.9	68.1			13.5
	EPTC	45.6	43.8	55.3			23.1
	Esfenvalerate	115	108	97.1			10.5
	Ethalfluralin	83.7	67.3	67.7			0.629
	Ethion	93.3	73.2	63.0			14.9
	Ethoprop	83.5	98.4	93.4			5.23
	Etridiazole	59.6	55.6	67.1			18.6
	Fenamiphos	108	85.8	82.9			3.49
	Fenbuconazole	106	61.3	48.6			23.2
	Fenpropathrin	94.3	76.6	70.3			8.63
	Fipronil	125	106	106			0.722
	Fipronil Desulfinyl	111	92.2	75.3			20.2
	Fipronil Sulfide	122	88.1	84.4			4.26
	Fipronil Sulfone	111	88.9	72.3			20.6
	Fluazifop-P-butyl	110	102	102			0.635

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Fludioxonil	114	83.9	71.1			16.5
	Flumioxazin	203	95.9	65.6			37.4
	Flutolanil	99.3	71.7	53.3			29.5
	Fluxapyroxad	116	80.7	58.7			31.6
	Fonofos	87.9	77.0	90.1			15.7
	Gamma-BHC	96.4	80.7	76.3			5.54
	Gamma-Chlordane	97.0	71.6	64.7			10.1
	Heptachlor	80.6	57.8	57.5			0.512
	Heptachlor Epoxide	96.4	72.5	67.9			6.52
	Hexabromobenzene	83.3	81.8	80.1			2.17
	Hexachlorobenzene	87.9	61.4	62.3			1.50
	Hexazinone	106	94.3	83.8			11.8
	Imazalil	111	99.0	81.8			19.1
	Iprodione	130	71.9	64.2			11.4
	Kepone	126	98.6	127			25.2
	Lambda-Cyhalothrin	101	89.2	93.2			4.40
	Loratadine	172	211	128			48.9
	Malathion	107	92.2	20.0			129
	Metalaxyl	101	90.0	102			12.9
	Methoprene	107	84.1	83.8			0.380
	Methoxychlor	103	68.9	80.7			15.7
	Metolachlor	102	108	109			0.968
	Metribuzin	109	114	103			9.74
	Mevinphos	97.1	87.1	98.9			12.7
	MGK-264	106	77.3	86.3			11.0
	Mirex	83.9	58.5	65.7			11.5
	Molinate	51.2	52.8	60.8			14.1
	Myclobutanil	97.8	78.9	66.7			16.7
	Naled	41.4	36.0	38.2			5.95
	Napropamide	119	102	33.5			101
	Norflurazon	113	92.1	80.0			14.0
	Octinoxate	91.7	94.9	139			38.0
	Oxadiazon	91.4	65.2	57.4			10.1
	Oxybenzone	99.9	108	142			27.4
	Oxychlordane	79.8	70.1	71.1			1.36
	Oxyfluorfen	119	116	124			5.88
	Parathion Ethyl	88.5	106	80.5			27.2
	Parathion Methyl	138	138	134			3.30
	PBB-153	93.8	73.0	54.2			29.5
	PBDE-47	85.7	87.0	88.7			1.84
	PBDE-99	88.6	85.5	65.5			26.5
	PCB-1016	79.4	78.5	82.7			5.27
	PCB-1260	85.5	84.2	86.2			2.36
	Pendimethalin	128	153	155			1.38
	Pentabromotoluene	85.3	83.9	114			30.1
	Permethrin	90.9	84.4	87.4			3.54
	Phenothrin	89.6	71.7	75.4			5.08
	Phenytoin	76.1	42.7	32.6			26.7
	Phorate	74.5	63.3	80.0			23.4
	Piperonyl Butoxide	94.0	80.4	87.6			8.48
	Prallethrin	88.0	74.6	75.7			1.42
	Prodiamine	101	118	105			11.4
	Prometon	113	92.9	104			11.0
	Prometryn	101	126	97.3			25.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Pronamide	112	94.9	104			9.33
	Propanil	118	116	112			3.07
	Propargite	125	100	138			31.9
	Propiconazole	114	95.5	93.3			2.33
	Pyraflufen Ethyl	127	113	73.9			42.0
	Pyridaben	139	142	123			14.0
	Pyriproxyfen	124	79.8	49.8			41.0
	Simazine	106	98.0	77.7			23.1
	Stirophos	121	43.6	27.5			45.3
	Sulfentrazone	120	54.6	54.0			1.06
	Tau-Fluvalinate	104	88.2	91.9			4.12
	Tebuconazole	101	82.7	44.2			60.8
	Terbufos	87.8	78.6	98.2			22.2
	Terbuthylazine	88.4	71.4	73.1			2.30
	Tetradecachloro-m-terphenyl	81.4	76.3	121			45.7
	Tetramethrin	102	77.4	84.0			8.19
	Thiobencarb	114	88.5	32.9			91.6
	Trans-Nonachlor	96.4	64.1	72.6			12.4
	Tri-o-cresyl Phosphate	102	101	141			33.0
	Triadimefon	104	92.5	98.4			6.11
	Triclosan Methyl	100	75.8	82.0			7.81
	Trifluralin	89.8	68.1	69.7			2.36
	Tris(1-chloro-2-propyl) phosphate (TCPP)	129	109	165			33.6
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120	112	156			30.3
	Tris(2-chloroethyl) phosphate (TCEP)	158	172	276			46.5
EPA 8276	Chlordane	89.5	105	91.3			14.4
	Toxaphene	73.1	87.8	96.9			9.85
EPA 8321B	2,4-D	99.4	118	104			12.0
	2,4,5-T	106	101	76.7			27.6
	3-Hydroxycarbofuran	90.2	105	116			9.43
	Acesulfame K	102	116	118			2.01
	Acetaminophen	77.4	92.4	91.3			1.22
	Acetamiprid	85.5	110	114			3.62
	Afidopyropen	77.5	119	104			13.0
	Aldicarb	76.1	83.1	88.2			5.94
	Aldicarb Sulfone	85.8	107	111			3.25
	Aldicarb Sulfoxide	86.4	37.3	34.9			6.62
	AMPA	96.7	94.2	103			8.97
	Bentazon	66.7	84.3	81.2			3.71
	Benzovindiflupyr	90.1	92.7	82.3			11.9
	Carbamazepine	56.8	111	83.6			28.3
	Carbaryl	59.0	75.0	73.4			2.19
	Carbofuran	63.7	66.4	57.7			14.1
	Clothianidin	78.7	89.4	88.8			0.651
	Dinotefuran	90.2	102	106			4.55
	Diuron	68.0	87.6	77.1			12.8
	Endothall	81.9	119	136			13.2
	Fenuron	90.0	97.0	96.6			0.390
	Fluridone	97.5	99.2	89.1			10.8
	Glufosinate	82.2	85.5	106			21.6
	Glyphosate	86.0	89.5	99.1			10.2

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Hydrocodone	87.8	97.9	96.9			1.03
	Ibuprofen	60.8	64.0	78.2			20.0
	Imazapyr	95.0	104	109			4.50
	Imidacloprid	84.3	99.5	104			4.46
	Linuron	78.3	105	101			4.35
	Mandestrobin	105	113	89.2			23.5
	MCPP	81.0	116	110			5.48
	Methiocarb	76.8	57.7	75.0			26.1
	Methomyl	87.8	86.2	87.9			2.00
	Naproxen	72.2	99.7	83.5			17.7
	Oxamyl	85.4	90.5	93.1			2.79
	Primidone	90.7	106	102			4.11
	Propoxur	67.5	60.1	50.0			18.4
	Pyraclostrobin	78.3	88.8	78.1			12.8
	Silvex	102	103	116			11.2
	Sucralose	116	111	112			1.05
	Thiamethoxam	84.2	93.7	99.5			6.04
	Tolfenpyrad	58.8	45.0	43.2			4.21
	Triclopyr	88.0	103	84.7			19.6
SM 2320 B-2011	Total Alkalinity	98.6				3.88	
SM 2540 C-2015	TDS	96.8				4.84	
SM 2540 D-2015	TSS	96.8					
SM 4500-F- C-2011	Fluoride	101	101	102			0.946
SM 5310 B-2014	Organic Carbon	96.7	98.1	101			1.97

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2492385, 2492388
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2492385, 2492388
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2492410, 2492411
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2492410, 2492411
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2492385, 2492388
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2492385, 2492388
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2492386, 2492389
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2492386, 2492389
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2492386, 2492389
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2492386, 2492389
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2492387, 2492390
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2492407, 2492408
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2492406
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2492407, 2492408
EPA 8270E	PCBs in water matrices by GC/MS/MS	2492406
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2492406
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2492399
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2492400, 2492401
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2492385, 2492388
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2492410, 2492411
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2492385, 2492388
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2492385, 2492388

Reference Method Descriptions

Method	Description	Associated Samples
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2492385, 2492388
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2492386, 2492389

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/07/2024			06/07/2024 14:27	Jessica K Wilks	2492385
	06/07/2024			06/07/2024 14:28	Jessica K Wilks	2492388
EPA 180.1 Rev. 2.0	06/07/2024			06/07/2024 13:39	Samantha L Bates	2492385
	06/07/2024			06/07/2024 13:41	Samantha L Bates	2492388
EPA 200.7 Rev. 4.4	06/07/2024	06/10/2024 12:55	George D Taylor	06/11/2024 17:00	Conrad Hartmann	2492410
	06/07/2024	06/10/2024 12:55	George D Taylor	06/11/2024 17:16	Conrad Hartmann	2492411
EPA 200.8 Rev. 5.4	06/07/2024	06/10/2024 12:55	George D Taylor	06/13/2024 01:46	Emily M Philpot	2492410
	06/07/2024	06/10/2024 12:55	George D Taylor	06/13/2024 01:55	Emily M Philpot	2492411
	06/07/2024	06/10/2024 12:55	George D Taylor	06/13/2024 23:49	Emily M Philpot	2492410
	06/07/2024	06/10/2024 12:55	George D Taylor	06/13/2024 23:55	Emily M Philpot	2492411
	06/07/2024	06/21/2024 13:05	George D Taylor	06/24/2024 15:59	McKinley C Carter	2492410
	06/07/2024	06/21/2024 13:05	George D Taylor	06/24/2024 16:08	McKinley C Carter	2492411
EPA 300.0 Rev. 2.1	06/07/2024			06/13/2024 08:18	James L Waggerby	2492385
	06/07/2024			06/13/2024 08:33	James L Waggerby	2492388
	06/07/2024			06/21/2024 22:21	James L Waggerby	2492385
	06/07/2024			06/21/2024 22:36	James L Waggerby	2492388
EPA 350.1 Rev. 2.0	06/07/2024			06/12/2024 15:13	Khloe J Berg	2492386
	06/07/2024			06/12/2024 15:17	Khloe J Berg	2492389
EPA 351.2 Rev. 2.0	06/07/2024	06/11/2024 09:29	Robyn Blevins	06/14/2024 13:55	Samantha L Bates	2492386
	06/07/2024	06/11/2024 09:29	Robyn Blevins	06/14/2024 13:57	Samantha L Bates	2492389
EPA 353.2 Rev. 2.0	06/07/2024			06/11/2024 13:38	Fadila Guebre	2492386
	06/07/2024			06/11/2024 13:39	Fadila Guebre	2492389
EPA 365.1 Rev. 2.0	06/07/2024	06/11/2024 15:03	Josephine W Gitau	06/12/2024 11:36	Chandler E Cox	2492386
	06/07/2024	06/11/2024 15:03	Josephine W Gitau	06/12/2024 12:20	Chandler E Cox	2492389
EPA 365.1 Rev. 2.0 dissolved	06/07/2024			06/07/2024 14:03	Chandler E Cox	2492387
	06/07/2024			06/07/2024 14:04	Chandler E Cox	2492390
EPA 8270E	06/07/2024	06/10/2024 08:00	Rasheda Ghaffari	06/12/2024 20:55	Vandana T. Nagar	2492407
	06/07/2024	06/10/2024 08:00	Rasheda Ghaffari	06/12/2024 21:22	Vandana T. Nagar	2492408
	06/07/2024	06/10/2024 08:00	Rasheda Ghaffari	06/13/2024 22:48	Arthur Maknenko	2492407
	06/07/2024	06/10/2024 08:00	Rasheda Ghaffari	06/13/2024 23:14	Arthur Maknenko	2492408
	06/07/2024	06/12/2024 08:00	Rasheda Ghaffari	06/20/2024 03:06	Kenedi Mills	2492406
	06/07/2024	06/12/2024 08:00	Rasheda Ghaffari	06/21/2024 22:25	Lipi Saha	2492406
EPA 8276	06/07/2024	06/12/2024 08:00	Rasheda Ghaffari	06/15/2024 13:48	Arthur Maknenko	2492406
EPA 8321B	06/07/2024	06/07/2024 13:00	Hoor Shaik	06/10/2024 18:24	Juyoung Kim	2492399
	06/07/2024	06/07/2024 13:00	Samatha Luckman	06/08/2024 01:44	Samatha Luckman	2492400
	06/07/2024	06/07/2024 13:00	Samatha Luckman	06/08/2024 01:58	Samatha Luckman	2492401
	06/07/2024	06/07/2024 13:00	Samatha Luckman	06/10/2024 14:11	Samatha Luckman	2492400
	06/07/2024	06/07/2024 13:00	Samatha Luckman	06/10/2024 14:25	Samatha Luckman	2492401
	06/07/2024	06/10/2024 09:00	Hoor Shaik	06/11/2024 01:48	Juyoung Kim	2492400
	06/07/2024	06/10/2024 09:00	Hoor Shaik	06/11/2024 02:06	Juyoung Kim	2492401

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	06/07/2024			06/12/2024 04:10	Chandler E Cox	2492385
	06/07/2024			06/12/2024 04:24	Chandler E Cox	2492388
SM 2340 B-2011	06/07/2024			06/11/2024 17:00	Conrad Hartmann	2492410
	06/07/2024			06/11/2024 17:16	Conrad Hartmann	2492411
SM 2540 C-2015	06/07/2024			06/12/2024 13:26	Josephine W Gitau	2492385, 2492388
SM 2540 D-2015	06/07/2024			06/12/2024 13:26	Josephine W Gitau	2492385, 2492388
SM 4500-F- C-2011	06/07/2024			06/12/2024 04:10	Chandler E Cox	2492385
	06/07/2024			06/12/2024 04:24	Chandler E Cox	2492388
SM 5310 B-2014	06/07/2024			06/13/2024 16:27	Khloe J Berg	2492386
	06/07/2024			06/13/2024 16:42	Khloe J Berg	2492389