Chemical Analysis Report

NW-DIST-2023-07-25-01

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

Overflow Analyses Performed By:
Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
DOH Accreditation E87570

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
DOH Accreditation E81010

Event Description:	**FYI5 International Paper Company - Pensacola Mill FL0002526 NWD**
Request ID:	**RQ-2023-07-10-53**
Customer:	**NW-DIST**
Project ID:	**FYI5**

Send Reports to:
FL Dept. of Environmental Protection
160 Governmental Center
Suite 302
Pensacola, FL 32501
Attn: Mike Brumfield, Larry Couch, Savanna Harrison

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

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 20-SEP-2023 12:45

NON-CONFORMANCE REPORT INCLUDED

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, Overflow, Pesticides and Priority Organic Pollutants.

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: International Paper Company- Pensacola Mill **Collection Date/Time: 07/24/2023 10:55**

Field ID: EFF-3GRAB Matrix: W-EFFLUENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426321	EPA 1664B	HEM	1.4	U	mg/L		
2426329	EPA 522	1,4-Dioxane	0.37		ug/L	P433735	
2426331	EPA 625	Acenaphthene	0.027	U	ug/L	P433095	
		Acenaphthylene	0.027	U	ug/L	P433095	
		Anthracene	0.054	U	ug/L	P433095	
		Benzidine	11	U	ug/L	P433095	
		Benzo(a)anthracene	0.027	U	ug/L	P433095	
		Benzo(a)pyrene	0.027	U	ug/L	P433095	
		Benzo(b)fluoranthene	0.027	U	ug/L	P433095	
		Benzo(k)fluoranthene	0.027	U	ug/L	P433095	
		Benzo(g,h,i)perylene	0.027	U	ug/L	P433095	
		Bis(2-chloroethoxy)methane	0.054	U	ug/L	P433095	
		Bis(2-chloroethyl)ether	0.054	U	ug/L	P433095	
		Bis(2-chloroisopropyl)ether	0.054	U	ug/L	P433095	
		Bis(2-ethylhexyl)phthalate	5.4	U	ug/L	P433095	
		Butyl benzyl phthalate	1.1	U	ug/L	P433095	
		4-Bromophenyl phenyl ether	0.054	U	ug/L	P433095	
		2-Chloronaphthalene	0.054	U	ug/L	P433095	
		4-Chlorophenyl phenyl ether	0.054	U	ug/L	P433095	
		Chrysene	0.027	U	ug/L	P433095	
		Di-n-butyl phthalate	2.2	U	ug/L	P433095	
		Di-n-octyl phthalate	0.054	U	ug/L	P433095	
		Dibenzo(a,h)anthracene	0.027	U	ug/L	P433095	
		3,3'-Dichlorobenzidine	11	U	ug/L	P433095	
		Diethyl phthalate	2.2	U	ug/L	P433095	
		Dimethyl phthalate	0.22	U	ug/L	P433095	
		2,4-Dinitrotoluene	0.054	U	ug/L	P433095	
		2,6-Dinitrotoluene	0.054	U	ug/L	P433095	
		Fluoranthene	0.054	U	ug/L	P433095	
		Fluorene	0.027	U	ug/L	P433095	
		Hexachlorobenzene	0.054	U	ug/L	P433095	
		Hexachlorobutadiene	0.054	U	ug/L	P433095	
		Hexachlorocyclopentadiene	0.054	U	ug/L	P433095	
		Hexachloroethane	0.054	U	ug/L	P433095	
		Indeno(1,2,3-cd)pyrene	0.027	U	ug/L	P433095	
		Isophorone	0.054	U	ug/L	P433095	
		Naphthalene	0.11	U	ug/L	P433095	
		Nitrobenzene	0.054	U	ug/L	P433095	
		N-Nitrosodimethylamine	2.2	U	ug/L	P433095	
		N-Nitrosodi-n-propylamine	0.054	U	ug/L	P433095	
		Phenanthrene	0.11	U	ug/L	P433095	
		Pyrene	0.11	U	ug/L	P433095	
		1,2,4-Trichlorobenzene	0.054	U	ug/L	P433095	
		4-Chloro-3-methylphenol	0.054	U	ug/L	P433095	

Field ID: EFF-3GRAB Matrix: W-EFFLUENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426331	EPA 625	2-Chlorophenol	0.054	U	ug/L	P433095	
		2,4-Dichlorophenol	0.054	U	ug/L	P433095	
		2,4-Dimethylphenol	0.054	U	ug/L	P433095	
		2,4-Dinitrophenol	11	UJ	ug/L	P433095	MS
		2-Methyl-4,6-dinitrophenol	3.3	U	ug/L	P433095	
		2-Nitrophenol	0.054	U	ug/L	P433095	
		4-Nitrophenol	11	U	ug/L	P433095	
		Pentachlorophenol	0.54	UJ	ug/L	P433095	MS
		Phenol	0.054	U	ug/L	P433095	
		2,4,6-Trichlorophenol	0.054	U	ug/L	P433095	
2426333	EPA 8321B	Sucralose	12		ug/L	P432932	
		Ibuprofen	0.080	U	ug/L	P432883	
		Naproxen	0.0080	U	ug/L	P432883	
2426347	EPA 8270E	Acetochlor	0.21	U	ng/L	P432954	
		Alachlor	0.42	U	ng/L	P432954	
		Ametryn	1.2	U	ng/L	P432954	
		Atrazine	3.6		ng/L	P432954	
		Atrazine Desethyl	1.4	U	ng/L	P432954	
		Azinphos Methyl	3.2	U	ng/L	P432954	
		Azoxystrobin	0.42	U	ng/L	P432954	
		Bromacil	0.64	U	ng/L	P432954	
		Butylate	0.21	U	ng/L	P432954	
		Caffeine**	39	I	ng/L	P432954	
		Carbophenothion	0.53	U	ng/L	P432954	
		Carfentrazone Ethyl	0.16	U	ng/L	P432954	
		Chlorfenapyr	0.32	U	ng/L	P432954	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P432954	
		Chlorpyrifos Methyl	0.11	U	ng/L	P432954	
		Coumaphos	1.1	U	ng/L	P432954	
		Cyanazine	5.3	U	ng/L	P432954	
		Cyprodinil	0.21	U	ng/L	P432954	
		Demeton	3.7	U	ng/L	P432954	
		Diazinon	0.13	U	ng/L	P432954	
		Difenoconazole	0.64	UJ	ng/L	P432954	LCS
		Dimethenamid	0.11	U	ng/L	P432954	
		Dimethomorph	0.32	U	ng/L	P432954	MS
		Disulfoton	0.64	U	ng/L	P432954	
		Dithiopyr	1.1	U	ng/L	P432954	
		EPTC	0.53	U	ng/L	P432954	
		Ethion	0.32	U	ng/L	P432954	
		Ethoprop	0.13	U	ng/L	P432954	
		Etridiazole	0.11	U	ng/L	P432954	RPD
		Fenamiphos	0.48	U	ng/L	P432954	
		Fenbuconazole	0.53	UJ	ng/L	P432954	LCS
		Fipronil	0.21	U	ng/L	P432954	

Field ID: EFF-3GRAB Matrix: W-EFFLUENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426347	EPA 8270E	Fipronil Desulfinyl**	0.11	U	ng/L	P432954	
		Fipronil Sulfide	0.11	U	ng/L	P432954	
		Fipronil Sulfone	0.11	U	ng/L	P432954	
		Fluazifop-P-butyl	0.11	U	ng/L	P432954	
		Fludioxonil	0.11	U	ng/L	P432954	
		Flumioxazin	3.2	UJ	ng/L	P432954	LCS
		Flutolanil	0.11	U	ng/L	P432954	
		Fluxapyroxad	0.27	U	ng/L	P432954	
		Fonofos	0.16	U	ng/L	P432954	
		Hexazinone	0.53	U	ng/L	P432954	
		Imazalil	0.69	U	ng/L	P432954	
		Iprodione	0.53	UJ	ng/L	P432954	CCV
		Loratadine**	0.32	U	ng/L	P432954	MS
		Malathion	0.37	U	ng/L	P432954	
		Metalaxyl	0.53	U	ng/L	P432954	
		Metolachlor	0.80	U	ng/L	P432954	
		Metribuzin	0.42	U	ng/L	P432954	
		Mevinphos	1.1	U	ng/L	P432954	
		Molinate	0.27	U	ng/L	P432954	
		Myclobutanil	0.37	U	ng/L	P432954	
		Naled	2.7	U	ng/L	P432954	
		Napropamide	0.74	U	ng/L	P432954	
		Norflurazon	1.1	U	ng/L	P432954	
		Oxadiazon	0.37	U	ng/L	P432954	
		Oxyfluorfen	0.21	U	ng/L	P432954	
		Parathion Ethyl	0.16	U	ng/L	P432954	
		Parathion Methyl	0.21	U	ng/L	P432954	
		Pendimethalin	0.80	U	ng/L	P432954	
		Phenytoin**	5.6	U	ng/L	P432954	
		Phorate	0.27	U	ng/L	P432954	
		Prodiamine	0.21	U	ng/L	P432954	
		Prometon	3.2	U	ng/L	P432954	
		Prometryn	0.37	U	ng/L	P432954	
		Pronamide	0.11	U	ng/L	P432954	
		Propanil	0.11	U	ng/L	P432954	
		Propargite	0.85	U	ng/L	P432954	
		Propiconazole	81		ng/L	P432954	
		Pyraflufen Ethyl	0.32	U	ng/L	P432954	
		Pyridaben	1.5	U	ng/L	P432954	
		Pyriproxyfen	0.27	UJ	ng/L	P432954	LCS
		Simazine	21		ng/L	P432954	
		Stirophos	0.42	U	ng/L	P432954	
		Sulfentrazone	1.5	U	ng/L	P432954	
		Tebuconazole	1.5	U	ng/L	P432954	
		Terbufos	0.21	U	ng/L	P432954	

Field ID: EFF-3GRAB Matrix: W-EFFLUENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426347	EPA 8270E	Terbuthylazine	0.21	U	ng/L	P432954	
		Thiobencarb	0.53	U	ng/L	P432954	
		Triadimefon	0.16	U	ng/L	P432954	
2426632	DEP SOP: NU-094-1	Color (true)	40	YAQ	PCU	P433047	
	EPA 180.1 Rev. 2.0	Turbidity	8.8	YAQ	NTU	P433059	
	EPA 300.0 Rev. 2.1	Chloride	52	A	mg Cl/L	P433408	
		Sulfate	480	YA	mg SO4/L	P433411	
	SM 2320 B-2011	Total Alkalinity	71	YA	mg CaCO3/L	P433202	
	SM 2540 D-2015	TSS	14	Y	mg/L	P433236	
	SM 4500-F- C-2011	Fluoride	0.049	I	mg F/L	P433205	
2426633	EPA 350.1 Rev. 2.0	Ammonia-N	0.92	Y	mg N/L	P433282	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1	Y	mg N/L	P433223	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22	Y	mg N/L	P433114	
	EPA 365.1 Rev. 2.0	Total-P	0.12	Y	mg P/L	P433073	
	SM 5310 B-2011	Organic Carbon	14	YA	mg C/L	P433428	
2426634	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014	YQ	mg P/L	P433055	
2426654	EPA 1631E	Mercury	5.3		ng/L		
2426724	EPA 200.7 Rev. 4.4	Calcium	24.6		mg/L	P433098	
		Iron	110	I	ug/L	P433098	
		Magnesium	3.66		mg/L	P433098	
		Potassium	10.7		mg/L	P433098	
		Sodium	266		mg/L	P433098	
		Zinc	9.8	I	ug/L	P433098	
	EPA 200.8 Rev. 5.4	Aluminum	1.27E+03		ug/L	P433098	
		Arsenic	0.38		ug/L	P433098	
		Cadmium	0.033	I	ug/L	P433098	
		Chromium	0.46	I	ug/L	P433098	
		Copper	0.82		ug/L	P433098	
		Lead	0.20	U	ug/L	P433098	
		Nickel	2.6		ug/L	P433098	
		Selenium	0.20	U	ug/L	P433098	
		Silver	0.010	U	ug/L	P433098	

Field ID: EFF-3GRAB Matrix: W-EFFLUENT

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

Ref. Method and Comment:
EPA 1664B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries were outside control limits.
EPA 625: Precision for benzidine and 3,3'-dichlorobenzidine is not available due to low or no recoveries in the duplicate matrix spikes. 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.
DEP SOP: NU-094-1: The sample expired upon receipt. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 180.1 Rev. 2.0: The sample expired upon receipt. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 300.0 Rev. 2.1: Sulfate: Sample received outside of the acceptable temperature range. Please see NCR.
SM 2320 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.
SM 5310 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium and sodium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for aluminum, chromium, copper, lead and nickel are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: International Paper Company- Pensacola Mill **Collection Date/Time: 07/24/2023 10:14**

Field ID: EFF-3 Composite Matrix: W-EFFLUENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426292	DEP SOP: NU-094-1	Color (true)	130	Y	PCU	P432973	
	SM 2540 D-2015	TSS	17	Y	mg/L	P433236	
2426293	EPA 350.1 Rev. 2.0	Ammonia-N	1.3	Y	mg N/L	P433282	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.9	Y	mg N/L	P433223	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.23	Y	mg N/L	P433023	
	EPA 365.1 Rev. 2.0	Total-P	0.35	Y	mg P/L	P433073	
2426294	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.051	Y	mg P/L	P432976	
2426322	EPA 1650C	Adsorbable Organic Halides	500	Y	ug/L		
2426323	SM 5220 D	Chemical Oxygen Demand	71	Y	mg/L		
2426324	EPA 8290A	Total PeCDF	2.5	UJY	pg/L		
		Total HxCDF	7.7	UJY	pg/L		
		Total TCDD	0.39	UJY	pg/L		
		Total PeCDD	4.0	UJY	pg/L		
		Total HxCDD	6.4	UJY	pg/L		
		Total HpCDD	5.9	IVJ	pg/L		
		2,3,7,8-TCDD	0.39	UY	pg/L		
		1,2,3,7,8-PeCDD	4.0	UJY	pg/L		
		1,2,3,4,7,8-HxCDD	6.3	UJY	pg/L		
		1,2,3,6,7,8-HxCDD	6.4	UJY	pg/L		
		1,2,3,7,8,9-HxCDD	5.9	UJY	pg/L		
		1,2,3,4,6,7,8-HpCDD	4.0	IVJY	pg/L		
		OCDD	11	IVY	pg/L		
		2,3,7,8-TCDF	0.23	UY	pg/L		
		1,2,3,7,8-PeCDF	2.4	UJY	pg/L		
		2,3,4,7,8-PeCDF	2.5	UJY	pg/L		
		1,2,3,4,7,8-HxCDF	7.7	UJY	pg/L		
		1,2,3,6,7,8-HxCDF	6.9	UJY	pg/L		
		1,2,3,7,8,9-HxCDF	0.25	UY	pg/L		
		2,3,4,6,7,8-HxCDF	0.68	UJY	pg/L		
		1,2,3,4,6,7,8-HpCDF	11	UJY	pg/L		
		1,2,3,4,7,8,9-HpCDF	1.1	UJY	pg/L		
		OCDF	1.7	UJY	pg/L		
		Total HpCDF	11	UJY	pg/L		
		Total TCDF	0.23	UJY	pg/L		
2426340	EPA 200.7 Rev. 4.4	Iron	250		ug/L	P433098	
		Zinc	21		ug/L	P433098	
	EPA 200.8 Rev. 5.4	Arsenic	0.71		ug/L	P433098	
		Cadmium	0.105		ug/L	P433098	
		Chromium	1.2	I	ug/L	P433098	
		Copper	2.76		ug/L	P433098	
		Lead	0.38	I	ug/L	P433098	
		Nickel	3.6		ug/L	P433098	
		Selenium	0.25	I	ug/L	P433098	

Field ID: EFF-3 Composite Matrix: W-EFFLUENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426340	EPA 200.8 Rev. 5.4	Silver	0.014	I	ug/L	P433098	
	SM 2340 B-2011	Hardness	76.0		mg/L	P433098	

Ref. Method and Comment:
DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 1650C: The sample was received outside the acceptable temperature limit.
SM 5220 D: The sample was received outside acceptable temperature limits.The matrix spike/matrix spike duplicate (MS/MSD) recoveries were outside control limits.
EPA 8290A: The sample was received outside acceptable temperature limits. The Isotope Dilution recoveries of several analytes were below control limits in the sample and the Laboratory Control Sample (LCS). Analytes with a "V" qualifier were detected in the sample and method blank. The Laboratory Control Sample (LCS) recovery of 1,2,3,7,8,9-HxCDD was ourside control limits. There was insufficient sample volume for the matrix spike/matrix spike duplicate (MS/MSD).
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for chromium, copper, lead and nickel are unavailable for one of two spiked samples because of high analyte concentration in the QC sample. The cadmium result was confirmed in the undigested sample on 07/31/2023.

Sample Location: International Paper Company- Pensacola Mill **Collection Date/Time: 07/24/2023 11:30**

Field ID: Field Blanks Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426635	DEP SOP: NU-094-1	Color (true)	2.5	UYQ	PCU	P433047	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	UYQ	NTU	P433057	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P433206	
		Sulfate	0.20	UY	mg SO4/L	P433208	
	SM 2320 B-2011	Total Alkalinity	0.65	UY	mg CaCO3/L	P433202	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P433205	
2426636	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	UY	mg N/L	P433228	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	UY	mg N/L	P433101	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	UY	mg N/L	P433114	
	EPA 365.1 Rev. 2.0	Total-P	0.002	UY	mg P/L	P433297	
	SM 5310 B-2011	Organic Carbon	0.50	UY	mg C/L	P433257	
2426637	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	UYQ	mg P/L	P433055	
2426655	EPA 1631E	Mercury	1.7		ng/L		
2426656	EPA 1664B	HEM	1.4	UY	mg/L		
2426657	EPA 522	1,4-Dioxane	0.040	UY	ug/L	P433735	
2426722	EPA 625	Acenaphthene	0.026	UY	ug/L	P433095	
		Acenaphthylene	0.026	UY	ug/L	P433095	
		Anthracene	0.052	UY	ug/L	P433095	
		Benzidine	10	UY	ug/L	P433095	
		Benzo(a)anthracene	0.026	UY	ug/L	P433095	
		Benzo(a)pyrene	0.026	UY	ug/L	P433095	
		Benzo(b)fluoranthene	0.026	UY	ug/L	P433095	
		Benzo(k)fluoranthene	0.026	UY	ug/L	P433095	
		Benzo(g,h,i)perylene	0.026	UY	ug/L	P433095	
		Bis(2-chloroethoxy)methane	0.052	UY	ug/L	P433095	
		Bis(2-chloroethyl)ether	0.052	UY	ug/L	P433095	
		Bis(2-chloroisopropyl)ether	0.052	UY	ug/L	P433095	
		Bis(2-ethylhexyl)phthalate	5.2	UY	ug/L	P433095	
		Butyl benzyl phthalate	1.0	UY	ug/L	P433095	
		4-Bromophenyl phenyl ether	0.052	UY	ug/L	P433095	
		2-Chloronaphthalene	0.052	UY	ug/L	P433095	
		4-Chlorophenyl phenyl ether	0.052	UY	ug/L	P433095	
		Chrysene	0.026	UY	ug/L	P433095	
		Di-n-butyl phthalate	2.1	UY	ug/L	P433095	
		Di-n-octyl phthalate	0.052	UY	ug/L	P433095	
		Dibenzo(a,h)anthracene	0.026	UY	ug/L	P433095	
		3,3'-Dichlorobenzidine	10	UY	ug/L	P433095	
		Diethyl phthalate	2.1	UY	ug/L	P433095	
		Dimethyl phthalate	0.21	UY	ug/L	P433095	
		2,4-Dinitrotoluene	0.052	UY	ug/L	P433095	
		2,6-Dinitrotoluene	0.052	UY	ug/L	P433095	
		Fluoranthene	0.052	UY	ug/L	P433095	
		Fluorene	0.026	UY	ug/L	P433095	

Field ID: Field Blanks Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426722	EPA 625	Hexachlorobenzene	0.052	UY	ug/L	P433095	
		Hexachlorobutadiene	0.052	UY	ug/L	P433095	
		Hexachlorocyclopentadiene	0.052	UY	ug/L	P433095	
		Hexachloroethane	0.052	UY	ug/L	P433095	
		Indeno(1,2,3-cd)pyrene	0.026	UY	ug/L	P433095	
		Isophorone	0.052	UY	ug/L	P433095	
		Naphthalene	0.10	UY	ug/L	P433095	
		Nitrobenzene	0.052	UY	ug/L	P433095	
		N-Nitrosodimethylamine	2.1	UY	ug/L	P433095	
		N-Nitrosodi-n-propylamine	0.052	UY	ug/L	P433095	
		Phenanthrene	0.10	UY	ug/L	P433095	
		Pyrene	0.10	UY	ug/L	P433095	
		1,2,4-Trichlorobenzene	0.052	UY	ug/L	P433095	
		4-Chloro-3-methylphenol	0.052	UY	ug/L	P433095	
		2-Chlorophenol	0.052	UY	ug/L	P433095	
		2,4-Dichlorophenol	0.052	UY	ug/L	P433095	
		2,4-Dimethylphenol	0.052	UY	ug/L	P433095	
		2,4-Dinitrophenol	10	UY	ug/L	P433095	MS
		2-Methyl-4,6-dinitrophenol	3.1	UY	ug/L	P433095	
		2-Nitrophenol	0.052	UY	ug/L	P433095	
		4-Nitrophenol	10	UY	ug/L	P433095	
		Pentachlorophenol	0.52	UY	ug/L	P433095	MS
		Phenol	0.052	UY	ug/L	P433095	
		2,4,6-Trichlorophenol	0.052	UY	ug/L	P433095	
2426723	EPA 8321B	Sucralose	0.010	UY	ug/L	P432932	
		Ibuprofen	0.080	UY	ug/L	P433066	
		Naproxen	0.0080	UY	ug/L	P433066	
2426725	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P433098	
		Iron	30	U	ug/L	P433098	
		Magnesium	0.040	U	mg/L	P433098	
		Potassium	0.30	U	mg/L	P433098	
		Sodium	0.50	U	mg/L	P433098	
		Zinc	5.0	U	ug/L	P433098	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P433098	
		Arsenic	0.050	U	ug/L	P433098	
		Cadmium	0.020	U	ug/L	P433098	
		Chromium	0.40	U	ug/L	P433098	
		Copper	0.40	U	ug/L	P433098	
		Lead	0.20	U	ug/L	P433098	
		Nickel	0.50	U	ug/L	P433098	
		Selenium	0.20	U	ug/L	P433098	
		Silver	0.010	U	ug/L	P433098	
2426734	EPA 8270E	Acetochlor	0.21	UY	ng/L	P432954	
		Alachlor	0.42	UY	ng/L	P432954	
		Ametryn	1.1	UY	ng/L	P432954	

Field ID: Field Blanks Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426734	EPA 8270E	Atrazine	0.21	UY	ng/L	P432954	
		Atrazine Desethyl	1.4	UY	ng/L	P432954	
		Azinphos Methyl	3.1	UY	ng/L	P432954	
		Azoxystrobin	0.42	UY	ng/L	P432954	
		Bromacil	0.62	UY	ng/L	P432954	
		Butylate	0.21	UY	ng/L	P432954	
		Caffeine**	7.8	UY	ng/L	P432954	
		Carbophenothion	0.52	UY	ng/L	P432954	
		Carfentrazone Ethyl	0.16	UY	ng/L	P432954	
		Chlorfenapyr	0.31	UY	ng/L	P432954	
		Chlorpyrifos Ethyl	0.31	UY	ng/L	P432954	
		Chlorpyrifos Methyl	0.10	UY	ng/L	P432954	
		Coumaphos	1.1	UY	ng/L	P432954	
		Cyanazine	5.2	UY	ng/L	P432954	
		Cyprodinil	0.21	UY	ng/L	P432954	
		Demeton	3.6	UY	ng/L	P432954	
		Diazinon	0.13	UY	ng/L	P432954	
		Difenoconazole	0.62	UYJ	ng/L	P432954	LCS
		Dimethenamid	0.10	UY	ng/L	P432954	
		Dimethomorph	0.31	UY	ng/L	P432954	MS
		Disulfoton	0.62	UY	ng/L	P432954	
		Dithiopyr	1.0	UY	ng/L	P432954	
		EPTC	0.52	UY	ng/L	P432954	
		Ethion	0.31	UY	ng/L	P432954	
		Ethoprop	0.13	UY	ng/L	P432954	
		Etridiazole	0.10	UY	ng/L	P432954	RPD
		Fenamiphos	0.47	UY	ng/L	P432954	
		Fenbuconazole	0.52	UYJ	ng/L	P432954	LCS
		Fipronil	0.21	UY	ng/L	P432954	
		Fipronil Desulfinyl**	0.10	UY	ng/L	P432954	
		Fipronil Sulfide	0.10	UY	ng/L	P432954	
		Fipronil Sulfone	0.10	UY	ng/L	P432954	
		Fluazifop-P-butyl	0.10	UY	ng/L	P432954	
		Fludioxonil	0.10	UY	ng/L	P432954	
		Flumioxazin	3.1	UYJ	ng/L	P432954	LCS
		Flutolanil	0.10	UY	ng/L	P432954	
		Fluxapyroxad	0.26	UY	ng/L	P432954	
		Fonofos	0.16	UY	ng/L	P432954	
		Hexazinone	0.52	UY	ng/L	P432954	
		Imazalil	0.68	UY	ng/L	P432954	
		Iprodione	0.52	UYJ	ng/L	P432954	CCV
		Loratadine**	0.31	UY	ng/L	P432954	MS
		Malathion	0.36	UY	ng/L	P432954	
		Metalaxyl	0.52	UY	ng/L	P432954	
		Metolachlor	0.78	UY	ng/L	P432954	

Field ID: Field Blanks Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426734	EPA 8270E	Metribuzin	0.42	UY	ng/L	P432954	
		Mevinphos	1.0	UY	ng/L	P432954	
		Molinate	0.26	UY	ng/L	P432954	
		Myclobutanil	0.36	UY	ng/L	P432954	
		Naled	2.6	UY	ng/L	P432954	
		Napropamide	0.73	UY	ng/L	P432954	
		Norflurazon	1.0	UY	ng/L	P432954	
		Oxadiazon	0.36	UY	ng/L	P432954	
		Oxyfluorfen	0.21	UY	ng/L	P432954	
		Parathion Ethyl	0.16	UY	ng/L	P432954	
		Parathion Methyl	0.21	UY	ng/L	P432954	
		Pendimethalin	0.78	UY	ng/L	P432954	
		Phenytoin**	5.5	UY	ng/L	P432954	
		Phorate	0.26	UY	ng/L	P432954	
		Prodiamine	0.21	UY	ng/L	P432954	
		Prometon	3.1	UY	ng/L	P432954	
		Prometryn	0.36	UY	ng/L	P432954	
		Pronamide	0.10	UY	ng/L	P432954	
		Propanil	0.10	UY	ng/L	P432954	
		Propargite	0.83	UY	ng/L	P432954	
		Propiconazole	0.62	UY	ng/L	P432954	
		Pyraflufen Ethyl	0.31	UY	ng/L	P432954	
		Pyridaben	1.5	UY	ng/L	P432954	
		Pyriproxyfen	0.26	UYJ	ng/L	P432954	LCS
		Simazine	0.26	UY	ng/L	P432954	
		Stirophos	0.42	UY	ng/L	P432954	
		Sulfentrazone	1.5	UY	ng/L	P432954	
		Tebuconazole	1.5	UY	ng/L	P432954	
		Terbufos	0.21	UY	ng/L	P432954	
		Terbuthylazine	0.21	UY	ng/L	P432954	
		Thiobencarb	0.52	UY	ng/L	P432954	
		Triadimefon	0.16	UY	ng/L	P432954	

Field ID: Field Blanks Matrix: W-FIELD-BK

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

Ref. Method and Comment:
DEP SOP: NU-094-1: The sample expired upon receipt. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 180.1 Rev. 2.0: The sample expired upon receipt. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 300.0 Rev. 2.1: Sulfate: Sample received outside of the acceptable temperature range. Please see NCR.
SM 2320 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.
SM 5310 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.
EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt. Sample received outside of the acceptable temperature range. Please see NCR.
EPA 1664B: The sample was received outside acceptable temperature limits.The matrix spike/matrix spike duplicate (MS/MSD) recoveries were outside control limits.
EPA 522: Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 625: Precision for benzidine and 3,3'-dichlorobenzidine is not available due to low or no recoveries in the duplicate matrix spikes. Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium and sodium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for aluminum, chromium, copper, lead and nickel are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: International Paper Company- Pensacola Mill **Collection Date/Time: 07/24/2023 10:40**

Field ID: Equimpment Blanks Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426298	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P432973	
2426299	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P433178	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P433268	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P433023	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P433296	
2426300	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P432978	
2426327	EPA 1650C	Adsorbable Organic Halides	6.2	U	ug/L		
2426328	EPA 8290A	Total PeCDF	1.9	UJ	pg/L		
		Total HxCDF	5.4	UJ	pg/L		
		Total TCDD	0.35	UJ	pg/L		
		Total PeCDD	4.0	UJ	pg/L		
		Total HxCDD	4.8	UJ	pg/L		
		Total HpCDD	0.73	UJ	pg/L		
		2,3,7,8-TCDD	0.35	U	pg/L		
		1,2,3,7,8-PeCDD	4.0	UJ	pg/L		
		1,2,3,4,7,8-HxCDD	4.5	UJ	pg/L		
		1,2,3,6,7,8-HxCDD	4.8	UJ	pg/L		
		1,2,3,7,8,9-HxCDD	4.3	UJ	pg/L		
		1,2,3,4,6,7,8-HpCDD	0.73	UJ	pg/L		
		OCDD	2.8	IV	pg/L		
		2,3,7,8-TCDF	0.19	U	pg/L		
		1,2,3,7,8-PeCDF	1.9	UJ	pg/L		
		2,3,4,7,8-PeCDF	1.6	UJ	pg/L		
		1,2,3,4,7,8-HxCDF	5.4	UJ	pg/L		
		1,2,3,6,7,8-HxCDF	5.0	UJ	pg/L		
		1,2,3,7,8,9-HxCDF	0.15	U	pg/L		
		2,3,4,6,7,8-HxCDF	0.45	UJ	pg/L		
		1,2,3,4,6,7,8-HpCDF	9.6	UJ	pg/L		
		1,2,3,4,7,8,9-HpCDF	0.81	UJ	pg/L		
		OCDF	1.3	UJ	pg/L		
		Total HpCDF	9.6	UJ	pg/L		
		Total TCDF	0.19	UJ	pg/L		
2426342	EPA 200.7 Rev. 4.4	Iron	30	U	ug/L	P433098	
		Zinc	5.0	U	ug/L	P433098	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P433098	
		Cadmium	0.020	U	ug/L	P433098	
		Chromium	0.40	U	ug/L	P433098	
		Copper	0.40	U	ug/L	P433098	
		Lead	0.20	U	ug/L	P433098	
		Nickel	0.50	U	ug/L	P433098	
		Selenium	0.20	U	ug/L	P433098	
		Silver	0.010	U	ug/L	P433098	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P433098	

Field ID: Equimpment Blanks Matrix: W-EQPMT-BK

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

Ref. Method and Comment:
EPA 8290A: The Isotope Dilution recoveries of several analytes were below control limits in the sample and the Laboratory Control Sample (LCS). Analytes with a "V" qualifier were detected in the sample and method blank. The Laboratory Control Sample (LCS) recovery of 1,2,3,7,8,9-HxCDD was ourside control limits. There was insufficient sample volume for the matrix spike/matrix spike duplicate (MS/MSD).
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for chromium, copper, lead and nickel are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: IP Control Wetland **Collection Date/Time: 07/24/2023 11:20**

Field ID: G5IPCONTROL Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426511	DEP SOP: NU-094-1	Color (true)	94	A	PCU	P432994	
	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P433001	
	EPA 300.0 Rev. 2.1	Chloride	5.3		mg Cl/L	P433129	
		Sulfate	0.29	I	mg SO4/L	P433131	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P433201	
	SM 2540 D-2015	TSS	26		mg/L	P433236	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P433204	
2426513	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P433227	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P433269	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P433022	
	EPA 365.1 Rev. 2.0	Total-P	0.043		mg P/L	P433296	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P433257	
2426515	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P433000	
2426523	EPA 1631E	Mercury	2.0		ng/L		
2426525	EPA 1664B	HEM	1.5	U	mg/L		
2426527	EPA 522	1,4-Dioxane	0.040	U	ug/L	P433735	
2426529	EPA 8321B	Sucralose	0.010	U	ug/L	P432932	
		Ibuprofen	0.080	U	ug/L	P433066	
		Naproxen	0.0080	U	ug/L	P433066	
2426531	EPA 200.7 Rev. 4.4	Calcium	0.42		mg/L	P433098	
		Iron	1.59E+03		ug/L	P433098	
		Magnesium	0.24		mg/L	P433098	
		Potassium	0.30	U	mg/L	P433098	
		Sodium	2.5		mg/L	P433098	
		Zinc	5.0	U	ug/L	P433098	
	EPA 200.8 Rev. 5.4	Aluminum	385		ug/L	P433098	
		Arsenic	0.29		ug/L	P433098	
		Cadmium	0.020	U	ug/L	P433098	
		Chromium	0.40	U	ug/L	P433098	
		Copper	0.40	U	ug/L	P433098	
		Lead	0.30	I	ug/L	P433098	
		Nickel	0.50	U	ug/L	P433098	
		Selenium	0.20	U	ug/L	P433098	
		Silver	0.010	U	ug/L	P433098	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 1664B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries were outside control limits.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium and sodium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for aluminum, chromium, copper, lead and nickel are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: G5NWIPTEST **Collection Date/Time: 07/24/2023 09:45**

Field ID: G5IPTEST Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2426512	DEP SOP: NU-094-1	Color (true)	220		PCU	P432994	
	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P433001	
	EPA 300.0 Rev. 2.1	Chloride	53		mg Cl/L	P433129	
		Sulfate	290		mg SO4/L	P433278	
	SM 2320 B-2011	Total Alkalinity	121		mg CaCO3/L	P433201	
	SM 2540 D-2015	TSS	4	I	mg/L	P433236	
	SM 4500-F- C-2011	Fluoride	0.26		mg F/L	P433204	
2426514	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P433227	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P433269	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P433022	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P433068	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P433257	
2426516	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.072		mg P/L	P433000	
2426524	EPA 1631E	Mercury	0.39	I	ng/L		
2426526	EPA 1664B	HEM	1.5	U	mg/L		
2426528	EPA 522	1,4-Dioxane	0.17		ug/L	P433735	
2426530	EPA 8321B	Sucralose	14		ug/L	P432932	
		Ibuprofen	0.080	U	ug/L	P433066	
		Naproxen	0.0080	U	ug/L	P433066	
2426532	EPA 200.7 Rev. 4.4	Calcium	21.0		mg/L	P433098	
		Iron	150		ug/L	P433098	
		Magnesium	3.03		mg/L	P433098	
		Potassium	10.9		mg/L	P433098	
		Sodium	225		mg/L	P433098	
		Zinc	5.0	U	ug/L	P433098	
	EPA 200.8 Rev. 5.4	Aluminum	329		ug/L	P433098	
		Arsenic	0.61		ug/L	P433098	
		Cadmium	0.025	I	ug/L	P433098	
		Chromium	0.56	I	ug/L	P433098	
		Copper	0.48	I	ug/L	P433098	
		Lead	0.20	U	ug/L	P433098	
		Nickel	1.5	I	ug/L	P433098	
		Selenium	0.20	U	ug/L	P433098	
		Silver	0.010	U	ug/L	P433098	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 1664B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP).
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium and sodium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for aluminum, chromium, copper, lead and nickel are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Non-Conformance Report

NCR ID: 9995

Event(s)	Job(s)	Sample(s)	Test(s)
NW-DIST-2023-07-25-01	TLH-2023-07-25-21	2426292	
NW-DIST-2023-07-25-01	TLH-2023-07-25-21	2426293	
NW-DIST-2023-07-25-01	TLH-2023-07-25-21	2426294	
NW-DIST-2023-07-25-01	TLH-2023-07-25-34	2426322	
NW-DIST-2023-07-25-01	TLH-2023-07-25-34	2426323	
NW-DIST-2023-07-25-01	TLH-2023-07-25-34	2426324	
NW-DIST-2023-07-25-01	TLH-2023-07-26-37	2426633	
NW-DIST-2023-07-25-01	TLH-2023-07-26-37	2426636	
NW-DIST-2023-07-25-01	TLH-2023-07-26-40	2426654	
NW-DIST-2023-07-25-01	TLH-2023-07-26-40	2426655	
NW-DIST-2023-07-25-01	TLH-2023-07-26-40	2426656	
NW-DIST-2023-07-25-01	TLH-2023-07-26-41	2426657	
NW-DIST-2023-07-25-01	TLH-2023-07-26-56	2426722	
NW-DIST-2023-07-25-01	TLH-2023-07-26-57	2426723	
NW-DIST-2023-07-25-01	TLH-2023-07-26-61	2426734	

NCR Type: SHIPPING/RECEIVING **NCR Category: Preservation Not Intact**

Observation: Samples received outside the acceptable temperature range.

Resolution: Data will be qualified as appropriate.

Authorized by/Date: Kyle Klug 7/27/2023

NCR ID: 9999

Event(s)	Job(s)	Sample(s)	Test(s)
NW-DIST-2023-07-25-01	TLH-2023-07-26-37	2426632	
NW-DIST-2023-07-25-01	TLH-2023-07-26-37	2426634	
NW-DIST-2023-07-25-01	TLH-2023-07-26-37	2426635	
NW-DIST-2023-07-25-01	TLH-2023-07-26-37	2426637	

NCR Type: SHIPPING/RECEIVING **NCR Category: Samples arrived late**

Observation: Samples arrived late, samples received outside the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.
Customer contacted, email correspondence attached to sample submittal forms.

Authorized by/Date: Kyle Klug 7/27/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P432973

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P432994

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P433047

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433001

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433057

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433059

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433098

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
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Component	Result	Code	Units
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433129

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433131

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433206

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433208

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433278

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433408

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433411

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433178

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433227

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433228

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433282

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433101

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433223

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433268

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433269

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433022

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433023

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433114

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433068

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433073

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433296

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433297

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432976

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432978

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433000

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433055

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 522
Batch ID: P433735

Component	Result	Code	Units
1,4-Dioxane	0.040	U	ug/L

Reference Method: EPA 625
Batch ID: P433095

Component	Result	Code	Units
1,2,4-Trichlorobenzene	0.050	U	ug/L
2-Chloronaphthalene	0.050	U	ug/L
2-Chlorophenol	0.050	U	ug/L
2-Methyl-4,6-dinitrophenol	3.0	U	ug/L
2-Nitrophenol	0.050	U	ug/L
2,4-Dichlorophenol	0.050	U	ug/L
2,4-Dimethylphenol	0.050	U	ug/L
2,4-Dinitrophenol	10	U	ug/L
2,4-Dinitrotoluene	0.050	U	ug/L
2,4,6-Trichlorophenol	0.050	U	ug/L
2,6-Dinitrotoluene	0.050	U	ug/L
3,3'-Dichlorobenzidine	10	U	ug/L
4-Bromophenyl phenyl ether	0.050	U	ug/L
4-Chloro-3-methylphenol	0.050	U	ug/L
4-Chlorophenyl phenyl ether	0.050	U	ug/L
4-Nitrophenol	10	U	ug/L
Acenaphthene	0.025	U	ug/L
Acenaphthylene	0.025	U	ug/L
Anthracene	0.050	U	ug/L
Benzidine	10	U	ug/L
Benzo(a)anthracene	0.025	U	ug/L
Benzo(a)pyrene	0.025	U	ug/L
Benzo(b)fluoranthene	0.025	U	ug/L
Benzo(g,h,i)perylene	0.025	U	ug/L
Benzo(k)fluoranthene	0.025	U	ug/L
Bis(2-chloroethoxy)methane	0.050	U	ug/L
Bis(2-chloroethyl)ether	0.050	U	ug/L
Bis(2-chloroisopropyl)ether	0.050	U	ug/L
Bis(2-ethylhexyl)phthalate	5.0	U	ug/L
Butyl benzyl phthalate	1.0	U	ug/L
Chrysene	0.025	U	ug/L
Di-n-butyl phthalate	2.0	U	ug/L
Di-n-octyl phthalate	0.050	U	ug/L
Dibenzo(a,h)anthracene	0.025	U	ug/L
Diethyl phthalate	2.0	U	ug/L
Dimethyl phthalate	0.20	U	ug/L
Fluoranthene	0.050	U	ug/L
Fluorene	0.025	U	ug/L
Hexachlorobenzene	0.050	U	ug/L
Hexachlorobutadiene	0.050	U	ug/L
Hexachlorocyclopentadiene	0.050	U	ug/L
Hexachloroethane	0.050	U	ug/L
Indeno(1,2,3-cd)pyrene	0.025	U	ug/L
Isophorone	0.050	U	ug/L
N-Nitrosodi-n-propylamine	0.050	U	ug/L
N-Nitrosodimethylamine	2.0	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 625
Batch ID: P433095

Component	Result	Code	Units
Naphthalene	0.10	U	ug/L
Nitrobenzene	0.050	U	ug/L
Pentachlorophenol	0.50	U	ug/L
Phenanthrene	0.10	U	ug/L
Phenol	0.050	U	ug/L
Pyrene	0.10	U	ug/L

Reference Method: EPA 8270E
Batch ID: P432954

Component	Result	Code	Units
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432954

Component	Result	Code	Units
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432954

Component	Result	Code	Units
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432954

Component	Result	Code	Units
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P432883

Component	Result	Code	Units
Ibuprofen	0.080	U	ug/L
Naproxen	0.0080	U	ug/L

Reference Method: EPA 8321B
Batch ID: P432932

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P433066

Component	Result	Code	Units
Ibuprofen	0.080	U	ug/L
Naproxen	0.0080	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P433201

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

Reference Method: SM 2320 B-2011
Batch ID: P433202

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

Reference Method: SM 2540 D-2015
Batch ID: P433236

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P433236

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P433205

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P433257

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

Reference Method: SM 5310 B-2011
Batch ID: P433428

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: P432973

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.3		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P432994

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.6		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P433047

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433001

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433057

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433059

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	105		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	100		P	85 - 115
Sodium	105		P	85 - 115
Zinc	98.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Arsenic	99.4		P	85 - 115
Cadmium	99.1		P	85 - 115
Chromium	95.9		P	85 - 115
Copper	98.8		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lead	101		P	85 - 115
Nickel	96.4		P	85 - 115
Selenium	98.1		P	85 - 115
Silver	107		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433129

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433131

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433206

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433208

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433278

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433408

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433411

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433178

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433227

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433228

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	92.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433282

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	90.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433101

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433223

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433268

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433269

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433023

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433114

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: P433068

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433073

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433296

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433297

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432978

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433000

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.7		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433055

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 522
Batch ID: P433735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1,4-Dioxane	81.8	80.4	P/P	70 - 130

Reference Method: EPA 625
Batch ID: P433095

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1,2,4-Trichlorobenzene	97.5		P	50 - 130
2-Chloronaphthalene	102		P	50 - 130
2-Chlorophenol	100		P	50 - 130
2-Methyl-4,6-dinitrophenol	129		P	50 - 150
2-Nitrophenol	104		P	50 - 130
2,4-Dichlorophenol	103		P	50 - 130
2,4-Dimethylphenol	96.1		P	50 - 130
2,4-Dinitrophenol	116		P	30 - 160
2,4-Dinitrotoluene	109		P	50 - 130
2,4,6-Trichlorophenol	105		P	50 - 130
2,6-Dinitrotoluene	112		P	50 - 130
3,3'-Dichlorobenzidine	119		P	0.0 - 200
4-Bromophenyl phenyl ether	114		P	50 - 130
4-Chloro-3-methylphenol	102		P	50 - 130
4-Chlorophenyl phenyl ether	110		P	50 - 130
4-Nitrophenol	105		P	15 - 120
Acenaphthene	72.9		P	50 - 130
Acenaphthylene	70.0		P	50 - 130
Anthracene	78.9		P	50 - 130
Benzidine	42.1		P	0.0 - 240
Benzo(a)anthracene	76.9		P	50 - 130
Benzo(a)pyrene	68.9		P	50 - 130
Benzo(b)fluoranthene	78.2		P	50 - 130
Benzo(g,h,i)perylene	66.7		P	50 - 130
Benzo(k)fluoranthene	75.8		P	50 - 130
Bis(2-chloroethoxy)methane	110		P	50 - 130
Bis(2-chloroethyl)ether	118		P	50 - 160
Bis(2-chloroisopropyl)ether	106		P	50 - 130
Bis(2-ethylhexyl)phthalate	151		P	50 - 160
Butyl benzyl phthalate	143		P	50 - 160
Chrysene	79.3		P	50 - 130
Di-n-butyl phthalate	142		P	50 - 160
Di-n-octyl phthalate	129		P	50 - 130
Dibenzo(a,h)anthracene	62.1		P	50 - 130
Diethyl phthalate	124		P	50 - 130
Dimethyl phthalate	116		P	50 - 130
Fluoranthene	81.4		P	50 - 130
Fluorene	74.2		P	50 - 130
Hexachlorobenzene	116		P	50 - 130
Hexachlorobutadiene	91.5		P	20 - 130
Hexachlorocyclopentadiene	50.2		P	20 - 130
Hexachloroethane	93.2		P	40 - 130
Indeno(1,2,3-cd)pyrene	63.5		P	50 - 130
Isophorone	108		P	50 - 130
N-Nitrosodi-n-propylamine	95.3		P	50 - 130
N-Nitrosodimethylamine	85.0		P	30 - 130

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 625
Batch ID: P433095

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naphthalene	68.7		P	50 - 130
Nitrobenzene	104		P	50 - 130
Pentachlorophenol	129		P	50 - 130
Phenanthrene	80.7		P	50 - 130
Phenol	83.1		P	15 - 110
Pyrene	82.6		P	50 - 130

Reference Method: EPA 8270E
Batch ID: P432954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	90.0		P	69 - 123
Alachlor	78.9		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	92.5		P	73 - 118
Atrazine Desethyl	83.1		P	32 - 125
Azinphos Methyl	70.4		P	36 - 197
Azoxystrobin	86.3		P	58 - 226
Bromacil	91.8		P	48 - 120
Butylate	71.4		P	27 - 85.0
Caffeine	93.3		P	40 - 137
Carbophenothion	99.3		P	54 - 132
Carfentrazone Ethyl	104		P	60 - 142
Chlorfenapyr	81.5		P	53 - 117
Chlorpyrifos Ethyl	100		P	59 - 116
Chlorpyrifos Methyl	95.6		P	66 - 119
Coumaphos	95.3		P	11 - 234
Cyanazine	154		P	61 - 248
Cyprodinil	106		P	50 - 147
Demeton	104		P	30 - 138
Diazinon	109		P	67 - 126
Difenoconazole	34.2		F	38 - 205
Dimethenamid	79.8		P	57 - 111
Dimethomorph	138		P	16 - 212
Disulfoton	103		P	46 - 126
Dithiopyr	97.3		P	62 - 115
EPTC	70.3		P	28 - 80.0
Ethion	34.6		P	24 - 122
Ethoprop	105		P	62 - 113
Etridiazole	81.7		P	28 - 92.0
Fenamiphos	105		P	57 - 128
Fenbuconazole	44.8		F	52 - 155
Fipronil	106		P	63 - 130
Fipronil Desulfinyl	98.3		P	61 - 130
Fipronil Sulfide	97.8		P	56 - 117
Fipronil Sulfone	93.2		P	52 - 118
Fluazifop-P-butyl	87.1		P	61 - 128
Fludioxonil	69.3		P	59 - 129
Flumioxazin	18.1		F	30 - 250
Flutolanil	81.7		P	53 - 127
Fluxapyroxad	53.8		P	42 - 132
Fonofos	92.7		P	61 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Hexazinone	85.4		P	46 - 139
Imazalil	96.4		P	40 - 139
Iprodione	62.8		P	40 - 146
Loratadine	128		P	10 - 224
Malathion	85.9		P	61 - 135
Metalaxyl	103		P	58 - 121
Metolachlor	84.4		P	64 - 118
Metribuzin	99.9		P	45 - 245
Mevinphos	115		P	49 - 118
Molinate	61.5		P	42 - 92.0
Myclobutanil	89.4		P	55 - 127
Naled	43.9		P	10 - 114
Napropamide	65.6		P	39 - 121
Norflurazon	98.6		P	55 - 129
Oxadiazon	80.9		P	54 - 115
Oxyfluorfen	91.4		P	64 - 139
Parathion Ethyl	109		P	70 - 111
Parathion Methyl	116		P	76 - 136
Pendimethalin	118		P	52 - 118
Phenytoin	24.0		P	10 - 162
Phorate	99.9		P	40 - 122
Prodiamine	48.5		P	26 - 141
Prometon	110		P	54 - 122
Prometryn	127		P	61 - 128
Pronamide	108		P	72 - 121
Propanil	86.9		P	45 - 144
Propargite	34.7		P	10 - 199
Propiconazole	66.5		P	56 - 127
Pyraflufen Ethyl	95.4		P	56 - 140
Pyridaben	88.7		P	26 - 211
Pyriproxyfen	32.5		F	33 - 194
Simazine	74.5		P	67 - 121
Stirophos	26.7		P	20 - 142
Sulfentrazone	68.9		P	21 - 144
Tebuconazole	34.3		P	10 - 122
Terbufos	111		P	60 - 129
Terbuthylazine	86.3		P	69 - 113
Thiobencarb	83.0		P	51 - 120
Triadimefon	79.3		P	56 - 114

Reference Method: EPA 8321B
Batch ID: P432883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ibuprofen	72.5		P	40 - 150
Naproxen	69.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	96.0		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P433066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ibuprofen	70.8		P	40 - 150
Naproxen	78.2		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P433201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.0		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P433202

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.2		P	92 - 105

Reference Method: SM 2540 D-2015
Batch ID: P433236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.4		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.1		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P433205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P433428

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426108	Calcium	105		P	75 - 125
2426108	Iron	101		P	75 - 125
2426108	Magnesium	104		P	75 - 125
2426108	Zinc	99.2		P	75 - 125
2426541	Calcium	105	104	P/P	80 - 120
2426541	Iron	103	103	P/P	80 - 120
2426541	Magnesium	102	103	P/P	80 - 120
2426541	Potassium	103	103	P/P	80 - 120
2426541	Sodium	104	103	P/P	80 - 120
2426541	Zinc	99.0	98.6	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426108	Arsenic	99.6		P	75 - 125
2426108	Cadmium	87.1		P	75 - 125
2426108	Selenium	91.0		P	75 - 125
2426108	Silver	89.0		P	75 - 125
2426541	Aluminum	101	101	P/P	80 - 120
2426541	Arsenic	99.6	97.7	P/P	80 - 120
2426541	Cadmium	101	98.9	P/P	80 - 120
2426541	Chromium	96.7	95.2	P/P	80 - 120
2426541	Copper	101	100	P/P	80 - 120
2426541	Lead	102	101	P/P	80 - 120
2426541	Nickel	97.1	94.5	P/P	80 - 120
2426541	Selenium	98.6	99.2	P/P	80 - 120
2426541	Silver	105	105	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433129

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426217	Chloride	101		P	90 - 110
2426377	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433131

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426217	Sulfate	100		P	90 - 110
2426377	Sulfate	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433206

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426606	Chloride	94.2		P	90 - 110
2426737	Chloride	93.7		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433208

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426606	Sulfate	91.5		P	90 - 110
2426737	Sulfate	90.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2427188	Sulfate	100		P	90 - 110
2427210	Sulfate	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426632	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433411

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426632	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426207	Ammonia-N	99.0	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433227

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426536	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433228

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426694	Ammonia-N	99.0	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433282

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426633	Ammonia-N	98.8	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433101

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426738	Kjeldahl Nitrogen	105	104	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433268

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426225	Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426446	NO2NO3-N	97.5	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426293	NO2NO3-N	92.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433114

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426633	NO2NO3-N	96.2	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426555	Total-P	105	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426633	Total-P	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426380	Total-P	109	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426694	Total-P	109	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426294	O-Phosphate-P	98.5	98.0	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426226	O-Phosphate-P	99.5	99.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433000

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426515	O-Phosphate-P	99.8	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426634	O-Phosphate-P	96.9	96.7	P/P	90 - 110

Reference Method: EPA 522
Batch ID: P433735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426329	1,4-Dioxane	83.2	89.2	P/P	70 - 130

Reference Method: EPA 625
Batch ID: P433095

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426331	1,2,4-Trichlorobenzene	91.9	88.2	P/P	50 - 130
2426331	2-Chloronaphthalene	99.7	99.9	P/P	50 - 130
2426331	2-Chlorophenol	93.0	89.8	P/P	50 - 130
2426331	2-Methyl-4,6-dinitrophenol	147	141	P/P	50 - 150
2426331	2-Nitrophenol	97.4	96.6	P/P	50 - 130
2426331	2,4-Dichlorophenol	98.0	97.3	P/P	50 - 130
2426331	2,4-Dimethylphenol	101	100	P/P	50 - 130
2426331	2,4-Dinitrophenol	170	184	F/F	30 - 160
2426331	2,4-Dinitrotoluene	107	108	P/P	50 - 130
2426331	2,4,6-Trichlorophenol	108	112	P/P	50 - 130
2426331	2,6-Dinitrotoluene	110	113	P/P	50 - 130
2426331	3,3'-Dichlorobenzidine	0.0	0.0	P/P	0.0 - 200
2426331	4-Bromophenyl phenyl ether	113	115	P/P	50 - 130
2426331	4-Chloro-3-methylphenol	111	113	P/P	50 - 130
2426331	4-Chlorophenyl phenyl ether	109	111	P/P	50 - 130
2426331	4-Nitrophenol	80.9	79.8	P/P	15 - 120
2426331	Acenaphthene	71.6	72.0	P/P	50 - 130
2426331	Acenaphthylene	68.7	69.4	P/P	50 - 130
2426331	Anthracene	78.2	78.7	P/P	50 - 130
2426331	Benzidine	0.0	0.0	P/P	0.0 - 240
2426331	Benzo(a)anthracene	78.6	78.5	P/P	50 - 130
2426331	Benzo(a)pyrene	72.6	70.0	P/P	50 - 130
2426331	Benzo(b)fluoranthene	76.1	74.8	P/P	50 - 130
2426331	Benzo(g,h,i)perylene	72.3	70.6	P/P	50 - 130
2426331	Benzo(k)fluoranthene	75.6	72.9	P/P	50 - 130
2426331	Bis(2-chloroethoxy)methane	100	99.0	P/P	50 - 130
2426331	Bis(2-chloroethyl)ether	112	108	P/P	50 - 160
2426331	Bis(2-chloroisopropyl)ether	98.7	94.5	P/P	50 - 130

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 625
Batch ID: P433095

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426331	Bis(2-ethylhexyl)phthalate	157	151	P/P	50 - 160
2426331	Butyl benzyl phthalate	146	143	P/P	50 - 160
2426331	Chrysene	81.4	79.5	P/P	50 - 130
2426331	Di-n-butyl phthalate	136	138	P/P	50 - 160
2426331	Di-n-octyl phthalate	130	124	P/P	50 - 130
2426331	Dibenzo(a,h)anthracene	71.5	68.6	P/P	50 - 130
2426331	Diethyl phthalate	125	125	P/P	50 - 130
2426331	Dimethyl phthalate	114	117	P/P	50 - 130
2426331	Fluoranthene	80.2	80.5	P/P	50 - 130
2426331	Fluorene	73.9	74.9	P/P	50 - 130
2426331	Hexachlorobenzene	112	114	P/P	50 - 130
2426331	Hexachlorobutadiene	86.6	83.6	P/P	20 - 130
2426331	Hexachlorocyclopentadiene	41.2	34.1	P/P	20 - 130
2426331	Hexachloroethane	89.2	84.3	P/P	40 - 130
2426331	Indeno(1,2,3-cd)pyrene	71.4	68.9	P/P	50 - 130
2426331	Isophorone	98.6	98.8	P/P	50 - 130
2426331	N-Nitrosodi-n-propylamine	89.8	89.3	P/P	50 - 130
2426331	N-Nitrosodimethylamine	92.8	99.7	P/P	30 - 130
2426331	Naphthalene	95.2	93.3	P/P	50 - 130
2426331	Nitrobenzene	100	97.4	P/P	50 - 130
2426331	Pentachlorophenol	146	145	F/F	50 - 130
2426331	Phenanthrene	80.2	81.1	P/P	50 - 130
2426331	Phenol	81.4	78.6	P/P	15 - 110
2426331	Pyrene	84.7	83.4	P/P	50 - 130

Reference Method: EPA 8270E
Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	Acetochlor	94.8	85.0	P/P	67 - 124
2426850	Alachlor	77.9	68.5	P/P	60 - 120
2426850	Ametryn	132	112	P/P	54 - 216
2426850	Atrazine Desethyl	95.7	74.4	P/P	15 - 122
2426850	Azinphos Methyl	103	109	P/P	40 - 292
2426850	Azoxystrobin	95.2	110	P/P	35 - 220
2426850	Bromacil	104	85.8	P/P	45 - 127
2426850	Butylate	66.8	61.3	P/P	20 - 83.0
2426850	Caffeine	101	104	P/P	10 - 194
2426850	Carbophenothion	102	106	P/P	57 - 127
2426850	Carfentrazone Ethyl	115	110	P/P	51 - 141
2426850	Chlorfenapyr	86.9	85.9	P/P	46 - 111
2426850	Chlorpyrifos Ethyl	99.8	84.6	P/P	52 - 120
2426850	Chlorpyrifos Methyl	107	103	P/P	63 - 119
2426850	Coumaphos	131	151	P/P	10 - 228
2426850	Cyanazine	155	130	P/P	59 - 241
2426850	Cyprodinil	108	101	P/P	47 - 146
2426850	Demeton	101	98.9	P/P	40 - 136
2426850	Diazinon	119	114	P/P	69 - 132
2426850	Difenoconazole	96.1	117	P/P	57 - 258
2426850	Dimethenamid	86.3	89.8	P/P	54 - 110
2426850	Dimethomorph	270	296	F/F	28 - 210
2426850	Disulfoton	103	98.5	P/P	43 - 133

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	Dithiopyr	46.0	50.8	P/P	39 - 116
2426850	EPTC	63.3	51.2	P/P	20 - 78.0
2426850	Ethion	47.3	54.7	P/P	17 - 119
2426850	Ethoprop	107	101	P/P	66 - 120
2426850	Etridiazole	85.4	58.4	P/P	28 - 96.0
2426850	Fenamiphos	104	96.8	P/P	41 - 126
2426850	Fenbuconazole	90.5	98.0	P/P	42 - 169
2426850	Fipronil	105	88.2	P/P	61 - 132
2426850	Fipronil Desulfinyl	112	90.2	P/P	56 - 132
2426850	Fipronil Sulfide	106	95.3	P/P	48 - 119
2426850	Fipronil Sulfone	88.1	84.2	P/P	42 - 131
2426850	Fluazifop-P-butyl	113	97.5	P/P	53 - 131
2426850	Fludioxonil	77.2	76.1	P/P	56 - 127
2426850	Flumioxazin	55.3	87.0	P/P	19 - 300
2426850	Flutolanil	54.5	57.4	P/P	41 - 127
2426850	Fluxapyroxad	72.9	86.4	P/P	42 - 172
2426850	Fonofos	99.7	95.9	P/P	59 - 113
2426850	Hexazinone	102	102	P/P	66 - 122
2426850	Imazalil	83.4	91.9	P/P	21 - 283
2426850	Iprodione	76.7	69.2	P/P	43 - 150
2426850	Loratadine	199	205	P/F	23 - 201
2426850	Malathion	85.2	79.8	P/P	58 - 136
2426850	Metalaxyl	100	101	P/P	55 - 120
2426850	Metolachlor	88.3	90.9	P/P	57 - 121
2426850	Metribuzin	95.8	98.8	P/P	58 - 294
2426850	Mevinphos	109	104	P/P	50 - 126
2426850	Molinate	66.0	56.9	P/P	42 - 93.0
2426850	Myclobutanil	92.6	87.6	P/P	55 - 125
2426850	Naled	49.1	58.0	P/P	18 - 200
2426850	Napropamide	73.1	72.7	P/P	39 - 110
2426850	Norflurazon	109	97.3	P/P	48 - 128
2426850	Oxadiazon	75.5	73.6	P/P	43 - 112
2426850	Oxyfluorfen	95.6	96.1	P/P	64 - 153
2426850	Parathion Ethyl	92.3	85.2	P/P	69 - 114
2426850	Parathion Methyl	127	123	P/P	79 - 139
2426850	Pendimethalin	118	105	P/P	50 - 139
2426850	Phenytoin	23.6	23.3	P/P	10 - 146
2426850	Phorate	110	110	P/P	54 - 161
2426850	Prodiamine	65.1	64.9	P/P	30 - 161
2426850	Prometon	85.4	89.6	P/P	45 - 134
2426850	Prometryn	54.5	54.1	P/P	45 - 137
2426850	Pronamide	107	96.8	P/P	65 - 133
2426850	Propanil	91.0	83.7	P/P	49 - 142
2426850	Propargite	48.3	46.7	P/P	10 - 203
2426850	Propiconazole	76.9	79.2	P/P	38 - 146
2426850	Pyraflufen Ethyl	109	106	P/P	34 - 153
2426850	Pyridaben	131	129	P/P	12 - 192
2426850	Pyriproxyfen	77.1	78.1	P/P	33 - 180
2426850	Simazine	73.2	70.6	P/P	51 - 157
2426850	Stirophos	18.2	19.2	P/P	10 - 128
2426850	Sulfentrazone	91.3	87.4	P/P	53 - 186
2426850	Tebuconazole	51.3	52.5	P/P	10 - 133

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426850	Terbufos	116	101	P/P	65 - 139
2426850	Terbuthylazine	92.7	79.5	P/P	66 - 117
2426850	Thiobencarb	80.4	71.4	P/P	51 - 119
2426850	Triadimefon	90.6	77.3	P/P	48 - 119

Reference Method: EPA 8321B
Batch ID: P432883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425633	Ibuprofen	66.2	69.8	P/P	40 - 150
2425633	Naproxen	128	128	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426070	Sucralose	104	94.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426540	Ibuprofen	84.5	75.5	P/P	40 - 150
2426540	Naproxen	89.1	86.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426550	Fluoride	98.2	98.8	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P433205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426632	Fluoride	97.0	97.5	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426218	Organic Carbon	97.2	97.8	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P433428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2426633	Organic Carbon	100		P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426286	Color (true)	9.33	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P432994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426511	Color (true)	1.27	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P433047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426632	Color (true)	3.00	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433001

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426286	Turbidity	5.98	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426551	Turbidity	6.34	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426632	Turbidity	3.99	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426541	Calcium	0.865	Spike	P	0 - 20
2426541	Iron	0.196	Spike	P	0 - 20
2426541	Magnesium	0.572	Spike	P	0 - 20
2426541	Potassium	0.0730	Spike	P	0 - 20
2426541	Sodium	0.387	Spike	P	0 - 20
2426541	Zinc	0.435	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P433098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426541	Aluminum	0.257	Spike	P	0 - 20
2426541	Arsenic	1.93	Spike	P	0 - 20
2426541	Cadmium	1.69	Spike	P	0 - 20
2426541	Chromium	1.53	Spike	P	0 - 20
2426541	Copper	0.734	Spike	P	0 - 20
2426541	Lead	1.03	Spike	P	0 - 20
2426541	Nickel	2.71	Spike	P	0 - 20
2426541	Selenium	0.605	Spike	P	0 - 20
2426541	Silver	0.139	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426217	Chloride	0.763	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426217	Sulfate	0.373	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426606	Chloride	0.0950	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433208

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426606	Sulfate	0.422	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2427188	Sulfate	0.932	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426632	Chloride	0.311	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426632	Sulfate	0.0418	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426207	Ammonia-N	1.76	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426536	Ammonia-N	1.39	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433228

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426694	Ammonia-N	1.54	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P433282

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426633	Ammonia-N	0.295	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426738	Kjeldahl Nitrogen	0.0955	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426633	Kjeldahl Nitrogen	3.33	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433268

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426225	Kjeldahl Nitrogen	0.902	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P433269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2427487	Kjeldahl Nitrogen	10.3	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426446	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426293	NO2NO3-N	0.479	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P433114

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426633	NO2NO3-N	0.824	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426555	Total-P	0.527	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426633	Total-P	1.99	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426380	Total-P	3.12	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426694	Total-P	0.220	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426294	O-Phosphate-P	0.336	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426226	O-Phosphate-P	0.166	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426515	O-Phosphate-P	0.402	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426634	O-Phosphate-P	0.181	Spike	P	0 - 20

Reference Method: EPA 522
Batch ID: P433735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426329	1,4-Dioxane	4.86	Spike	P	0 - 30
LFB	1,4-Dioxane	1.70	LCS	P	0 - 30

Reference Method: EPA 625
Batch ID: P433095

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426331	1,2,4-Trichlorobenzene	2.63	Spike	P	0 - 40
2426331	2-Chloronaphthalene	6.94	Spike	P	0 - 40
2426331	2-Chlorophenol	3.24	Spike	P	0 - 40
2426331	2-Methyl-4,6-dinitrophenol	2.86	Spike	P	0 - 40
2426331	2-Nitrophenol	5.92	Spike	P	0 - 40
2426331	2,4-Dichlorophenol	6.03	Spike	P	0 - 40
2426331	2,4-Dimethylphenol	6.54	Spike	P	0 - 40
2426331	2,4-Dinitrophenol	14.7	Spike	P	0 - 40
2426331	2,4-Dinitrotoluene	7.95	Spike	P	0 - 40
2426331	2,4,6-Trichlorophenol	9.74	Spike	P	0 - 40
2426331	2,6-Dinitrotoluene	9.15	Spike	P	0 - 40
2426331	4-Bromophenyl phenyl ether	8.49	Spike	P	0 - 40
2426331	4-Chloro-3-methylphenol	8.08	Spike	P	0 - 40
2426331	4-Chlorophenyl phenyl ether	8.01	Spike	P	0 - 40
2426331	4-Nitrophenol	5.37	Spike	P	0 - 40

Quality Assurance Report
Precision

Reference Method: EPA 625
Batch ID: P433095

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426331	Acenaphthene	7.30	Spike	P	0 - 40
2426331	Acenaphthylene	7.80	Spike	P	0 - 40
2426331	Anthracene	7.42	Spike	P	0 - 40
2426331	Benzo(a)anthracene	6.57	Spike	P	0 - 40
2426331	Benzo(a)pyrene	3.10	Spike	P	0 - 40
2426331	Benzo(b)fluoranthene	4.98	Spike	P	0 - 40
2426331	Benzo(g,h,i)perylene	4.32	Spike	P	0 - 40
2426331	Benzo(k)fluoranthene	3.06	Spike	P	0 - 40
2426331	Bis(2-chloroethoxy)methane	5.34	Spike	P	0 - 40
2426331	Bis(2-chloroethyl)ether	3.47	Spike	P	0 - 40
2426331	Bis(2-chloroisopropyl)ether	2.40	Spike	P	0 - 40
2426331	Bis(2-ethylhexyl)phthalate	2.97	Spike	P	0 - 40
2426331	Butyl benzyl phthalate	4.18	Spike	P	0 - 40
2426331	Chrysene	4.42	Spike	P	0 - 40
2426331	Di-n-butyl phthalate	8.05	Spike	P	0 - 40
2426331	Di-n-octyl phthalate	2.41	Spike	P	0 - 40
2426331	Dibenzo(a,h)anthracene	2.65	Spike	P	0 - 40
2426331	Diethyl phthalate	6.82	Spike	P	0 - 40
2426331	Dimethyl phthalate	8.90	Spike	P	0 - 40
2426331	Fluoranthene	7.07	Spike	P	0 - 40
2426331	Fluorene	8.08	Spike	P	0 - 40
2426331	Hexachlorobenzene	8.50	Spike	P	0 - 40
2426331	Hexachlorobutadiene	3.22	Spike	P	0 - 40
2426331	Hexachlorocyclopentadiene	12.2	Spike	P	0 - 40
2426331	Hexachloroethane	1.09	Spike	P	0 - 40
2426331	Indeno(1,2,3-cd)pyrene	3.13	Spike	P	0 - 40
2426331	Isophorone	6.94	Spike	P	0 - 40
2426331	N-Nitrosodi-n-propylamine	6.18	Spike	P	0 - 40
2426331	N-Nitrosodimethylamine	13.9	Spike	P	0 - 40
2426331	Naphthalene	4.69	Spike	P	0 - 40
2426331	Nitrobenzene	3.61	Spike	P	0 - 40
2426331	Pentachlorophenol	5.99	Spike	P	0 - 40
2426331	Phenanthrene	7.81	Spike	P	0 - 40
2426331	Phenol	3.24	Spike	P	0 - 40
2426331	Pyrene	5.24	Spike	P	0 - 40

Reference Method: EPA 8270E
Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	Acetochlor	10.9	Spike	P	0 - 28
2426850	Alachlor	12.8	Spike	P	0 - 30
2426850	Ametryn	16.3	Spike	P	0 - 32
2426850	Atrazine	6.75	Spike	P	0 - 41
2426850	Atrazine Desethyl	25.1	Spike	P	0 - 36
2426850	Azinphos Methyl	5.86	Spike	P	0 - 75
2426850	Azoxystrobin	14.2	Spike	P	0 - 39
2426850	Bromacil	19.7	Spike	P	0 - 33
2426850	Butylate	8.61	Spike	P	0 - 44
2426850	Caffeine	2.61	Spike	P	0 - 74

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	Carbophenothion	3.71	Spike	P	0 - 25
2426850	Carfentrazone Ethyl	4.57	Spike	P	0 - 27
2426850	Chlorfenapyr	1.22	Spike	P	0 - 24
2426850	Chlorpyrifos Ethyl	16.5	Spike	P	0 - 26
2426850	Chlorpyrifos Methyl	3.84	Spike	P	0 - 26
2426850	Coumaphos	14.3	Spike	P	0 - 28
2426850	Cyanazine	17.8	Spike	P	0 - 48
2426850	Cyprodinil	6.60	Spike	P	0 - 29
2426850	Demeton	2.20	Spike	P	0 - 33
2426850	Diazinon	3.89	Spike	P	0 - 29
2426850	Difenoconazole	19.4	Spike	P	0 - 34
2426850	Dimethenamid	3.99	Spike	P	0 - 39
2426850	Dimethomorph	9.11	Spike	P	0 - 51
2426850	Disulfoton	4.45	Spike	P	0 - 30
2426850	Dithiopyr	9.90	Spike	P	0 - 26
2426850	EPTC	21.2	Spike	P	0 - 43
2426850	Ethion	14.6	Spike	P	0 - 79
2426850	Ethoprop	6.29	Spike	P	0 - 29
2426850	Etridiazole	37.5	Spike	F	0 - 33
2426850	Fenamiphos	6.97	Spike	P	0 - 40
2426850	Fenbuconazole	7.99	Spike	P	0 - 74
2426850	Fipronil	16.2	Spike	P	0 - 29
2426850	Fipronil Desulfinyl	19.9	Spike	P	0 - 32
2426850	Fipronil Sulfide	9.46	Spike	P	0 - 30
2426850	Fipronil Sulfone	3.79	Spike	P	0 - 33
2426850	Fluazifop-P-butyl	14.9	Spike	P	0 - 38
2426850	Fludioxonil	1.54	Spike	P	0 - 29
2426850	Flumioxazin	44.6	Spike	P	0 - 51
2426850	Flutolanil	5.01	Spike	P	0 - 25
2426850	Fluxapyroxad	16.9	Spike	P	0 - 45
2426850	Fonofos	3.90	Spike	P	0 - 27
2426850	Hexazinone	0.743	Spike	P	0 - 30
2426850	Imazalil	9.63	Spike	P	0 - 100
2426850	Iprodione	10.2	Spike	P	0 - 33
2426850	Loratadine	3.20	Spike	P	0 - 56
2426850	Malathion	6.53	Spike	P	0 - 37
2426850	Metalaxyl	0.945	Spike	P	0 - 40
2426850	Metolachlor	2.85	Spike	P	0 - 29
2426850	Metribuzin	3.07	Spike	P	0 - 45
2426850	Mevinphos	4.36	Spike	P	0 - 29
2426850	Molinate	14.8	Spike	P	0 - 33
2426850	Myclobutanil	5.46	Spike	P	0 - 26
2426850	Naled	16.8	Spike	P	0 - 37
2426850	Napropamide	0.460	Spike	P	0 - 44
2426850	Norflurazon	11.5	Spike	P	0 - 30
2426850	Oxadiazon	2.61	Spike	P	0 - 28
2426850	Oxyfluorfen	0.543	Spike	P	0 - 28
2426850	Parathion Ethyl	8.00	Spike	P	0 - 31
2426850	Parathion Methyl	3.81	Spike	P	0 - 29
2426850	Pendimethalin	11.5	Spike	P	0 - 33
2426850	Phenytoin	1.07	Spike	P	0 - 100

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426850	Phorate	0.382	Spike	P	0 - 36
2426850	Prodiamine	0.353	Spike	P	0 - 71
2426850	Prometon	4.75	Spike	P	0 - 36
2426850	Prometryn	0.754	Spike	P	0 - 28
2426850	Pronamide	10.4	Spike	P	0 - 24
2426850	Propanil	8.35	Spike	P	0 - 28
2426850	Propargite	3.34	Spike	P	0 - 43
2426850	Propiconazole	2.98	Spike	P	0 - 33
2426850	Pyraflufen Ethyl	3.58	Spike	P	0 - 29
2426850	Pyridaben	1.52	Spike	P	0 - 30
2426850	Pyriproxyfen	1.22	Spike	P	0 - 79
2426850	Simazine	3.53	Spike	P	0 - 29
2426850	Stirophos	5.63	Spike	P	0 - 61
2426850	Sulfentrazone	4.32	Spike	P	0 - 33
2426850	Tebuconazole	2.29	Spike	P	0 - 69
2426850	Terbufos	13.9	Spike	P	0 - 29
2426850	Terbuthylazine	15.4	Spike	P	0 - 32
2426850	Thiobencarb	11.9	Spike	P	0 - 26
2426850	Triadimefon	15.9	Spike	P	0 - 28

Reference Method: EPA 8321B
Batch ID: P432883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425633	Ibuprofen	5.32	Spike	P	0 - 30
2425633	Naproxen	0.122	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P432932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426070	Sucralose	9.11	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P433066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426540	Ibuprofen	11.3	Spike	P	0 - 30
2426540	Naproxen	2.64	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P433201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426550	Total Alkalinity	1.04	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P433202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426632	Total Alkalinity	3.61	Sample	P	0 - 3.9

Reference Method: SM 4500-F- C-2011
Batch ID: P433204

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426550	Fluoride	0.483	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P433205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426632	Fluoride	0.487	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P433257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426218	Organic Carbon	0.564	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P433428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2426633	Organic Carbon	0.142	Sample	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2426329
Field Sample ID: EFF-3GRAB

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 522	1,4-Dioxane-d8	114	P	70 - 130

Lab Sample ID: 2426331
Field Sample ID: EFF-3GRAB

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 625	2-Fluorobiphenyl	136	P	30 - 150
EPA 625	2-Fluorophenol	67.1	P	20 - 150
EPA 625	2,4,6-Tribromophenol	137	P	30 - 150
EPA 625	Nitrobenzene-d5	142	P	30 - 150
EPA 625	Phenol-d5	85.2	P	20 - 150
EPA 625	Terphenyl-d14	99.1	P	30 - 150

Lab Sample ID: 2426333
Field Sample ID: EFF-3GRAB

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Ibuprofen-d3	70.6	P	30 - 160
EPA 8321B	Sucralose-d6	94.1	P	30 - 160

Lab Sample ID: 2426347
Field Sample ID: EFF-3GRAB

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.7	P	20 - 200
EPA 8270E	Simazine-d10	81.3	P	62 - 142
EPA 8270E	Terbufos-d10	98.3	P	58 - 132

Lab Sample ID: 2426527
Field Sample ID: G5IPCONTROL

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 522	1,4-Dioxane-d8	102	P	70 - 130

Lab Sample ID: 2426528
Field Sample ID: G5IPTEST

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 522	1,4-Dioxane-d8	107	P	70 - 130

Lab Sample ID: 2426529
Field Sample ID: G5IPCONTROL

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Ibuprofen-d3	67.2	P	30 - 160
EPA 8321B	Sucralose-d6	81.9	P	30 - 160

Lab Sample ID: 2426530
Field Sample ID: G5IPTEST

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Ibuprofen-d3	66.4	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2426530
Field Sample ID: G5IPTEST

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	77.2	P	30 - 160

Lab Sample ID: 2426657
Field Sample ID: Field Blanks

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 522	1,4-Dioxane-d8	103	P	70 - 130

Lab Sample ID: 2426722
Field Sample ID: Field Blanks

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 625	2-Fluorobiphenyl	123	P	30 - 150
EPA 625	2-Fluorophenol	93.1	P	20 - 150
EPA 625	2,4,6-Tribromophenol	118	P	30 - 150
EPA 625	Nitrobenzene-d5	136	P	30 - 150
EPA 625	Phenol-d5	81.0	P	20 - 150
EPA 625	Terphenyl-d14	96.9	P	30 - 150

Lab Sample ID: 2426723
Field Sample ID: Field Blanks

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Ibuprofen-d3	74.5	P	30 - 160
EPA 8321B	Sucralose-d6	84.1	P	30 - 160

Lab Sample ID: 2426734
Field Sample ID: Field Blanks

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	73.6	P	20 - 200
EPA 8270E	Simazine-d10	80.7	P	62 - 142
EPA 8270E	Terbufos-d10	92.5	P	58 - 132

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A120616
Included Lab Sample IDs: 2426292, 2426298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A120619
Included Lab Sample IDs: 2426294, 2426300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.2	P/P	90 - 110
O-Phosphate-P	99.9	99.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A120624
Included Lab Sample IDs: 2426511, 2426512

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	95.7	96.9	P/P	90 - 110
Color (true)	97.7	97.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A120626
Included Lab Sample IDs: 2426515, 2426516

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A120628
Included Lab Sample IDs: 2426511, 2426512

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A120643
Included Lab Sample IDs: 2426293, 2426299, 2426513, 2426514

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	99.5	P/P	90 - 110
NO2NO3-N	99.5	98.5	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A120651
Included Lab Sample IDs: 2426632, 2426635

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	99.9	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A120654
Included Lab Sample IDs: 2426634, 2426637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	97.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A120655
Included Lab Sample IDs: 2426632, 2426635

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A120682
Included Lab Sample IDs: 2426633, 2426636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A120686
Included Lab Sample IDs: 2426511, 2426512, 2426635

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Chloride	101	101	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110
Sulfate	99.6	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A120700
Included Lab Sample IDs: 2426293, 2426514, 2426633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	104	P/P	90 - 110
Total-P	103	104	P/P	90 - 110
Total-P	104	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A120706
Included Lab Sample IDs: 2426299

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.9	99.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120717
Included Lab Sample IDs: 2426340, 2426342, 2426531, 2426532, 2426724, 2426725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.1	99.0	P/P	90 - 110
Aluminum	99.0	96.2	P/P	90 - 110
Arsenic	96.2	93.1	P/P	90 - 110
Arsenic	97.3	96.2	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120717
Included Lab Sample IDs: 2426340, 2426342, 2426531, 2426532, 2426724, 2426725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	99.4	97.3	P/P	90 - 110
Cadmium	96.2	93.9	P/P	90 - 110
Cadmium	97.0	96.2	P/P	90 - 110
Cadmium	98.3	97.0	P/P	90 - 110
Chromium	97.2	94.2	P/P	90 - 110
Copper	95.2	98.9	P/P	90 - 110
Copper	96.9	95.2	P/P	90 - 110
Lead	95.9	95.2	P/P	90 - 110
Lead	97.7	95.9	P/P	90 - 110
Lead	98.4	97.7	P/P	90 - 110
Nickel	96.6	93.1	P/P	90 - 110
Selenium	97.3	97.5	P/P	90 - 110
Selenium	97.5	92.6	P/P	90 - 110
Selenium	97.8	97.3	P/P	90 - 110
Silver	101	99.8	P/P	90 - 110
Silver	97.8	95.9	P/P	90 - 110
Silver	99.8	97.8	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A120725
Included Lab Sample IDs: 2426511, 2426512, 2426632, 2426635

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.6	95.7	P/P	90 - 110
Total Alkalinity	96.5	93.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A120725
Included Lab Sample IDs: 2426511, 2426512, 2426632, 2426635

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.5	P/P	90 - 110
Fluoride	99.5	101	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A120726
Included Lab Sample IDs: 2426333, 2426529, 2426530, 2426723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	79.9	83.1	P/P	60 - 160
Sucralose	87.6	94.9	P/P	60 - 160
Sucralose	87.9	87.3	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A120734
Included Lab Sample IDs: 2426333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	109	73.9	P/P	50 - 160
Naproxen	142	82.8	P/P	50 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A120735
Included Lab Sample IDs: 2426529, 2426530, 2426723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	132	113	P/P	50 - 160
Naproxen	107	133	P/P	50 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A120737
Included Lab Sample IDs: 2426513, 2426514, 2426636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.8	97.6	P/P	90 - 110
Ammonia-N	97.0	97.7	P/P	90 - 110
Ammonia-N	97.2	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120746
Included Lab Sample IDs: 2426636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.1	93.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120750
Included Lab Sample IDs: 2426340, 2426531, 2426532, 2426724, 2426725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	102	103	P/P	90 - 110
Chromium	98.9	102	P/P	90 - 110
Copper	98.1	98.3	P/P	90 - 110
Nickel	98.5	99.7	P/P	90 - 110
Nickel	99.7	100	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A120752
Included Lab Sample IDs: 2426513, 2426514, 2426636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	96.6	P/P	90 - 110
Organic Carbon	97.4	95.2	P/P	90 - 110

Reference Method: EPA 625
Run ID: A120761
Included Lab Sample IDs: 2426331, 2426722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1,2,4-Trichlorobenzene	120		P	70 - 130
2-Chloronaphthalene	120		P	70 - 130
2-Chlorophenol	101		P	70 - 130
2-Nitrophenol	96.3		P	70 - 130
2,4-Dichlorophenol	87.7		P	70 - 130
2,4-Dimethylphenol	96.0		P	70 - 130
2,4-Dinitrotoluene	109		P	70 - 130
2,4,6-Trichlorophenol	81.0		P	70 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 625
Run ID: A120761
Included Lab Sample IDs: 2426331, 2426722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,6-Dinitrotoluene	122		P	70 - 130
4-Bromophenyl phenyl ether	118		P	70 - 130
4-Chloro-3-methylphenol	78.9		P	70 - 130
4-Chlorophenyl phenyl ether	116		P	70 - 130
Acenaphthene	116		P	70 - 130
Acenaphthylene	120		P	70 - 130
Anthracene	119		P	70 - 130
Benzo(a)anthracene	105		P	70 - 130
Benzo(a)pyrene	108		P	70 - 130
Benzo(b)fluoranthene	102		P	70 - 130
Benzo(g,h,i)perylene	92.3		P	70 - 130
Benzo(k)fluoranthene	122		P	70 - 130
Bis(2-chloroethoxy)methane	112		P	70 - 130
Bis(2-chloroethyl)ether	113		P	70 - 130
Bis(2-chloroisopropyl)ether	116		P	70 - 130
Chrysene	120		P	70 - 130
Di-n-octyl phthalate	85.6		P	70 - 130
Dibenzo(a,h)anthracene	85.2		P	70 - 130
Dimethyl phthalate	85.8		P	70 - 130
Fluoranthene	115		P	70 - 130
Fluorene	113		P	70 - 130
Hexachlorobenzene	122		P	70 - 130
Hexachlorobutadiene	120		P	70 - 130
Hexachlorocyclopentadiene	90.2		P	70 - 130
Hexachloroethane	116		P	70 - 130
Indeno(1,2,3-cd)pyrene	113		P	70 - 130
Isophorone	115		P	70 - 130
N-Nitrosodi-n-propylamine	115		P	70 - 130
Naphthalene	116		P	70 - 130
Nitrobenzene	104		P	70 - 130
Phenanthrene	104		P	70 - 130
Phenol	93.5		P	70 - 130
Pyrene	121		P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A120763
Included Lab Sample IDs: 2426632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	102	P/P	90 - 110
Sulfate	101	100	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 625
Run ID: A120766
Included Lab Sample IDs: 2426331, 2426722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Methyl-4,6-dinitrophenol	115		P	70 - 130
2,4-Dinitrophenol	84.1		P	70 - 130
3,3'-Dichlorobenzidine	119		P	50 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 625
Run ID: A120766
Included Lab Sample IDs: 2426331, 2426722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
4-Nitrophenol	125		P	70 - 130
Benzidine	51.1		P	50 - 130
Bis(2-ethylhexyl)phthalate	111		P	70 - 130
Butyl benzyl phthalate	112		P	70 - 130
Di-n-butyl phthalate	111		P	70 - 130
Diethyl phthalate	99.6		P	70 - 130
N-Nitrosodimethylamine	93.7		P	70 - 130
Pentachlorophenol	104		P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A120767
Included Lab Sample IDs: 2426293, 2426633

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A120773
Included Lab Sample IDs: 2426340, 2426342, 2426531, 2426532, 2426724, 2426725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Calcium	102	101	P/P	95 - 105
Calcium	98.7	101	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Iron	103	102	P/P	95 - 105
Iron	99.5	101	P/P	90 - 110
Magnesium	100	100	P/P	90 - 110
Magnesium	102	101	P/P	95 - 105
Magnesium	98.5	100	P/P	90 - 110
Potassium	96.2	97.4	P/P	90 - 110
Potassium	97.4	96.3	P/P	90 - 110
Potassium	98.2	99.2	P/P	95 - 105
Sodium	100	96.9	P/P	90 - 110
Sodium	101	103	P/P	95 - 105
Sodium	99.9	100	P/P	90 - 110
Zinc	101	99.8	P/P	95 - 105
Zinc	98.2	103	P/P	90 - 110
Zinc	98.8	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120795
Included Lab Sample IDs: 2426299

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.5	104	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A120816
Included Lab Sample IDs: 2426532

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120822
Included Lab Sample IDs: 2426293, 2426513, 2426514, 2426633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	99.4	P/P	90 - 110
Kjeldahl Nitrogen	99.8	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A120829
Included Lab Sample IDs: 2426299, 2426513, 2426636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.8	P/P	90 - 110
Total-P	101	101	P/P	90 - 110
Total-P	99.8	102	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A120842
Included Lab Sample IDs: 2426633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	98.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A120931
Included Lab Sample IDs: 2426347, 2426734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.6		P	80 - 120
Alachlor	90.9		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	94.9		P	80 - 120
Atrazine Desethyl	93.6		P	80 - 120
Azinphos Methyl	93.0		P	80 - 120
Azoxystrobin	96.9		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	94.1		P	80 - 120
Caffeine	97.0		P	80 - 120
Carbophenothion	103		P	80 - 120
Carfentrazone Ethyl	95.1		P	80 - 120
Chlorfenapyr	81.2		P	80 - 120
Chlorpyrifos Ethyl	90.4		P	80 - 120
Chlorpyrifos Methyl	93.6		P	80 - 120
Coumaphos	96.3		P	80 - 120
Cyanazine	89.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	99.5		P	80 - 120
Diazinon	97.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120931
Included Lab Sample IDs: 2426347, 2426734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Difenoconazole	90.5		P	80 - 120
Dimethenamid	94.4		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	99.5		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	104		P	80 - 120
Ethoprop	97.1		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	89.8		P	80 - 120
Fenbuconazole	82.2		P	80 - 120
Fipronil	87.5		P	80 - 120
Fipronil Desulfinyl	95.9		P	80 - 120
Fipronil Sulfide	95.6		P	80 - 120
Fipronil Sulfone	93.2		P	80 - 120
Fluazifop-P-butyl	89.9		P	80 - 120
Fludioxonil	95.0		P	80 - 120
Flumioxazin	93.7		P	80 - 120
Flutolanil	98.2		P	80 - 120
Fluxapyroxad	99.0		P	80 - 120
Fonofos	96.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	99.1		P	80 - 120
Iprodione	76.1*		F	80 - 120
Loratadine	85.6		P	80 - 120
Malathion	82.3		P	80 - 120
Metalaxyl	90.5		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	89.7		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	84.5		P	80 - 120
Myclobutanil	91.1		P	80 - 120
Naled	87.4		P	80 - 120
Napropamide	97.0		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	95.3		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	84.2		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytoin	102		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	113		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	100		P	80 - 120
Propargite	95.8		P	80 - 120
Propiconazole	87.8		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	100		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120931
Included Lab Sample IDs: 2426347, 2426734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyriproxyfen	101		P	80 - 120
Simazine	80.0		P	80 - 120
Stirophos	80.1		P	80 - 120
Sulfentrazone	96.0		P	80 - 120
Tebuconazole	100		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	89.3		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	98.0		P	80 - 120

Reference Method: EPA 522
Run ID: A121011
Included Lab Sample IDs: 2426329, 2426527, 2426528, 2426657

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1,4-Dioxane	89.8		P	70 - 130

* 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)	98.3						9.33	
	Color (true)	97.6						1.27	
	Color (true)	98.1						3.00	
EPA 180.1 Rev. 2.0	Turbidity	99.3						5.98	
	Turbidity	100						6.34	
	Turbidity	99.8						3.99	
EPA 200.7 Rev. 4.4	Calcium	104		105	105	104			0.865
	Iron	105		101	103	103			0.196
	Magnesium	105		104	102	103			0.572
	Potassium	100		103	103				0.0730
	Sodium	105		104	103				0.387
	Zinc	98.4		99.2	99.0	98.6			0.435
EPA 200.8 Rev. 5.4	Aluminum	101		101	101				0.257
	Arsenic	99.4		99.6	97.7	99.6			1.93
	Cadmium	99.1		101	98.9	87.1			1.69
	Chromium	95.9		96.7	95.2				1.53
	Copper	98.8		101	100				0.734
	Lead	101		102	101				1.03
	Nickel	96.4		97.1	94.5				2.71
	Selenium	98.1		98.6	99.2	91.0			0.605
	Silver	107		105	105	89.0			0.139
EPA 300.0 Rev. 2.1	Chloride	101		101	104			0.763	
	Chloride	99.5		94.2	93.7			0.0950	
	Chloride	104		103				0.311	
	Sulfate	100		100	95.8			0.373	
	Sulfate	95.9		91.5	90.9			0.422	
	Sulfate	99.7		100	101			0.932	
	Sulfate	104		104				0.0418	
EPA 350.1 Rev. 2.0	Ammonia-N	100		99.0	97.0				1.76
	Ammonia-N	94.4		101	100				1.39
	Ammonia-N	92.8		99.0	101				1.54
	Ammonia-N	90.6		98.8	99.2				0.295
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.8		105	104				0.0955
	Kjeldahl Nitrogen	103							3.33
	Kjeldahl Nitrogen	99.9		103	102				0.902
	Kjeldahl Nitrogen	96.3							10.3
EPA 353.2 Rev. 2.0	NO2NO3-N	97.0		97.5	97.5				0.0
	NO2NO3-N	98.5		92.2					0.479
	NO2NO3-N	100		96.2	97.5				0.824
EPA 365.1 Rev. 2.0	Total-P	104		105	106				0.527
	Total-P	106		103	105				1.99
	Total-P	103		109	105				3.12
	Total-P	105		109	109				0.220
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5		98.5	98.0				0.336
	O-Phosphate-P	100		99.5	99.7				0.166
	O-Phosphate-P	98.7		99.8	99.4				0.402
	O-Phosphate-P	98.8		96.9	96.7				0.181
EPA 522	1,4-Dioxane	81.8	80.4	83.2	89.2		1.70		4.86
EPA 625	1,2,4-Trichlorobenzene	97.5		91.9	88.2				2.63
	2-Chloronaphthalene	102		99.7	99.9				6.94
	2-Chlorophenol	100		93.0	89.8				3.24
	2-Methyl-4,6-dinitrophenol	129		147	141				2.86
	2-Nitrophenol	104		97.4	96.6				5.92
	2,4-Dichlorophenol	103		98.0	97.3				6.03

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 625	2,4-Dimethylphenol	96.1	101	100			6.54
	2,4-Dinitrophenol	116	170	184			14.7
	2,4-Dinitrotoluene	109	107	108			7.95
	2,4,6-Trichlorophenol	105	108	112			9.74
	2,6-Dinitrotoluene	112	110	113			9.15
	3,3'-Dichlorobenzidine	119	0.0	0.0			
	4-Bromophenyl phenyl ether	114	113	115			8.49
	4-Chloro-3-methylphenol	102	111	113			8.08
	4-Chlorophenyl phenyl ether	110	109	111			8.01
	4-Nitrophenol	105	80.9	79.8			5.37
	Acenaphthene	72.9	71.6	72.0			7.30
	Acenaphthylene	70.0	68.7	69.4			7.80
	Anthracene	78.9	78.2	78.7			7.42
	Benzidine	42.1	0.0	0.0			
	Benzo(a)anthracene	76.9	78.6	78.5			6.57
	Benzo(a)pyrene	68.9	72.6	70.0			3.10
	Benzo(b)fluoranthene	78.2	76.1	74.8			4.98
	Benzo(g,h,i)perylene	66.7	72.3	70.6			4.32
	Benzo(k)fluoranthene	75.8	75.6	72.9			3.06
	Bis(2-chloroethoxy)methane	110	100	99.0			5.34
	Bis(2-chloroethyl)ether	118	112	108			3.47
	Bis(2-chloroisopropyl)ether	106	98.7	94.5			2.40
	Bis(2-ethylhexyl)phthalate	151	157	151			2.97
	Butyl benzyl phthalate	143	146	143			4.18
	Chrysene	79.3	81.4	79.5			4.42
	Di-n-butyl phthalate	142	136	138			8.05
	Di-n-octyl phthalate	129	130	124			2.41
	Dibenzo(a,h)anthracene	62.1	71.5	68.6			2.65
	Diethyl phthalate	124	125	125			6.82
	Dimethyl phthalate	116	114	117			8.90
	Fluoranthene	81.4	80.2	80.5			7.07
	Fluorene	74.2	73.9	74.9			8.08
	Hexachlorobenzene	116	112	114			8.50
	Hexachlorobutadiene	91.5	86.6	83.6			3.22
	Hexachlorocyclopentadiene	50.2	41.2	34.1			12.2
	Hexachloroethane	93.2	89.2	84.3			1.09
	Indeno(1,2,3-cd)pyrene	63.5	71.4	68.9			3.13
	Isophorone	108	98.6	98.8			6.94
	N-Nitrosodi-n-propylamine	95.3	89.8	89.3			6.18
	N-Nitrosodimethylamine	85.0	92.8	99.7			13.9
	Naphthalene	68.7	95.2	93.3			4.69
	Nitrobenzene	104	100	97.4			3.61
	Pentachlorophenol	129	146	145			5.99
	Phenanthrene	80.7	80.2	81.1			7.81
	Phenol	83.1	81.4	78.6			3.24
	Pyrene	82.6	84.7	83.4			5.24
EPA 8270E	Acetochlor	90.0	94.8	85.0			10.9
	Alachlor	78.9	77.9	68.5			12.8
	Ametryn	113	132	112			16.3
	Atrazine	92.5					6.75
	Atrazine Desethyl	83.1	95.7	74.4			25.1
	Azinphos Methyl	70.4	103	109			5.86
	Azoxystrobin	86.3	95.2	110			14.2
	Bromacil	91.8	104	85.8			19.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Butylate	71.4	66.8	61.3			8.61
	Caffeine	93.3	101	104			2.61
	Carbophenothion	99.3	102	106			3.71
	Carfentrazone Ethyl	104	115	110			4.57
	Chlorfenapyr	81.5	86.9	85.9			1.22
	Chlorpyrifos Ethyl	100	99.8	84.6			16.5
	Chlorpyrifos Methyl	95.6	107	103			3.84
	Coumaphos	95.3	131	151			14.3
	Cyanazine	154	155	130			17.8
	Cyprodinil	106	108	101			6.60
	Demeton	104	101	98.9			2.20
	Diazinon	109	119	114			3.89
	Difenoconazole	34.2	96.1	117			19.4
	Dimethenamid	79.8	86.3	89.8			3.99
	Dimethomorph	138	270	296			9.11
	Disulfoton	103	103	98.5			4.45
	Dithiopyr	97.3	46.0	50.8			9.90
	EPTC	70.3	63.3	51.2			21.2
	Ethion	34.6	47.3	54.7			14.6
	Ethoprop	105	107	101			6.29
	Etridiazole	81.7	85.4	58.4			37.5
	Fenamiphos	105	104	96.8			6.97
	Fenbuconazole	44.8	90.5	98.0			7.99
	Fipronil	106	105	88.2			16.2
	Fipronil Desulfinyl	98.3	112	90.2			19.9
	Fipronil Sulfide	97.8	106	95.3			9.46
	Fipronil Sulfone	93.2	88.1	84.2			3.79
	Fluazifop-P-butyl	87.1	113	97.5			14.9
	Fludioxonil	69.3	77.2	76.1			1.54
	Flumioxazin	18.1	55.3	87.0			44.6
	Flutolanil	81.7	54.5	57.4			5.01
	Fluxapyroxad	53.8	72.9	86.4			16.9
	Fonofos	92.7	99.7	95.9			3.90
	Hexazinone	85.4	102	102			0.743
	Imazalil	96.4	83.4	91.9			9.63
	Iprodione	62.8	76.7	69.2			10.2
	Loratadine	128	199	205			3.20
	Malathion	85.9	85.2	79.8			6.53
	Metalaxyl	103	100	101			0.945
	Metolachlor	84.4	88.3	90.9			2.85
	Metribuzin	99.9	95.8	98.8			3.07
	Mevinphos	115	109	104			4.36
	Molinate	61.5	66.0	56.9			14.8
	Myclobutanil	89.4	92.6	87.6			5.46
	Naled	43.9	49.1	58.0			16.8
	Napropamide	65.6	73.1	72.7			0.460
	Norflurazon	98.6	109	97.3			11.5
	Oxadiazon	80.9	75.5	73.6			2.61
	Oxyfluorfen	91.4	95.6	96.1			0.543
	Parathion Ethyl	109	92.3	85.2			8.00
	Parathion Methyl	116	127	123			3.81
	Pendimethalin	118	118	105			11.5
	Phenytoin	24.0	23.6	23.3			1.07
	Phorate	99.9	110	110			0.382

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Prodiamine	48.5	65.1	64.9			0.353
	Prometon	110	85.4	89.6			4.75
	Prometryn	127	54.5	54.1			0.754
	Pronamide	108	107	96.8			10.4
	Propanil	86.9	91.0	83.7			8.35
	Propargite	34.7	48.3	46.7			3.34
	Propiconazole	66.5	76.9	79.2			2.98
	Pyraflufen Ethyl	95.4	109	106			3.58
	Pyridaben	88.7	131	129			1.52
	Pyriproxyfen	32.5	77.1	78.1			1.22
	Simazine	74.5	73.2	70.6			3.53
	Stirophos	26.7	18.2	19.2			5.63
	Sulfentrazone	68.9	91.3	87.4			4.32
	Tebuconazole	34.3	51.3	52.5			2.29
	Terbufos	111	116	101			13.9
	Terbuthylazine	86.3	92.7	79.5			15.4
	Thiobencarb	83.0	80.4	71.4			11.9
	Triadimefon	79.3	90.6	77.3			15.9
EPA 8321B	Ibuprofen	72.5	69.8	66.2			5.32
	Ibuprofen	70.8	84.5	75.5			11.3
	Naproxen	69.0	128	128			0.122
	Naproxen	78.2	89.1	86.8			2.64
	Sucralose	96.0	104	94.5			9.11
SM 2320 B-2011	Total Alkalinity	95.0				1.04	
	Total Alkalinity	95.2				3.61	
SM 2540 D-2015	TSS	91.4					
SM 4500-F- C-2011	Fluoride	98.1	98.2	98.8			0.483
	Fluoride	97.6	97.0	97.5			0.487
SM 5310 B-2011	Organic Carbon	96.2	97.2	97.8			0.564
	Organic Carbon	98.1	100			0.142	

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2426292, 2426298, 2426511, 2426512, 2426632, 2426635
EPA 1631E	Trace level mercury in aqueous matrices by Eurofins, Pensacola.	2426523, 2426524, 2426654, 2426655
EPA 1650C	Adsorbable Organic Halides in Aqueous Matrices by TestAmerica Pensacola	2426322, 2426327
EPA 1664B	HEM (oil and grease) in aqueous matrices by Eurofins, Pensacola.	2426321, 2426525, 2426526, 2426656
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2426511, 2426512, 2426632, 2426635
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2426340, 2426342, 2426531, 2426532, 2426724, 2426725
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2426340, 2426342, 2426531, 2426532, 2426724, 2426725
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2426511, 2426512, 2426632, 2426635
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2426511, 2426512, 2426632, 2426635
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2426293, 2426299, 2426513, 2426514, 2426633, 2426636
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2426293, 2426299, 2426513, 2426514, 2426633, 2426636
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2426293, 2426299, 2426513, 2426514, 2426633, 2426636
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2426293, 2426299, 2426513, 2426514, 2426633, 2426636

Reference Method Descriptions

Method	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2426294, 2426300, 2426515, 2426516, 2426634, 2426637
EPA 522	1,4-Dioxane in Aqueous Matrices by GC/MS using SIM	2426329, 2426527, 2426528, 2426657
EPA 625	EPA Method 625 with 3510C prep, Semi-volatile organic pollutants including PAHs, excluding PCBs and Toxaphene, in water matrices by GC/MS.	2426331, 2426722
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2426347, 2426734
EPA 8290A	Analysis of dioxins (PCDDs) and furans (PCDFs) in aqueous matrices by Eurofins, Sacramento, CA.	2426324, 2426328
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2426333, 2426529, 2426530, 2426723
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2426511, 2426512, 2426632, 2426635
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2426340, 2426342
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2426292, 2426511, 2426512, 2426632
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2426511, 2426512, 2426632, 2426635
SM 5220 D	Chemical Oxygen Demand by Eurofins Pensacola	2426323
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2426513, 2426514, 2426633, 2426636

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	07/25/2023			07/25/2023 13:45	Chandler E Cox	2426292
	07/25/2023			07/25/2023 13:46	Chandler E Cox	2426298
	07/25/2023			07/25/2023 15:12	Chandler E Cox	2426511
	07/25/2023			07/25/2023 15:30	Chandler E Cox	2426512
	07/26/2023			07/26/2023 14:19	Samantha L Bates	2426632
	07/26/2023			07/26/2023 14:20	Samantha L Bates	2426635
EPA 1631E	07/25/2023	07/31/2023 15:00	Eurofins Pensacola	08/08/2023 12:00	Eurofins Pensacola	2426523
	07/25/2023	07/31/2023 15:00	Eurofins Pensacola	08/08/2023 12:39	Eurofins Pensacola	2426524
	07/26/2023	07/31/2023 15:00	Eurofins Pensacola	08/08/2023 11:45	Eurofins Pensacola	2426654
	07/26/2023	07/31/2023 15:00	Eurofins Pensacola	08/08/2023 11:53	Eurofins Pensacola	2426655
EPA 1650C	07/25/2023	08/02/2023 14:16	Eurofins Savannah	08/02/2023 18:50	Eurofins Savannah	2426327
	07/25/2023	08/02/2023 14:16	Eurofins Savannah	08/02/2023 20:09	Eurofins Savannah	2426322
EPA 1664B	07/25/2023	08/07/2023 10:27	Eurofins Pensacola	08/07/2023 14:34	Eurofins Pensacola	2426321, 2426525
	07/25/2023	08/08/2023 10:12	Eurofins Pensacola	08/08/2023 14:07	Eurofins Pensacola	2426526
	07/26/2023	08/07/2023 10:27	Eurofins Pensacola	08/07/2023 14:34	Eurofins Pensacola	2426656
EPA 180.1 Rev. 2.0	07/25/2023			07/25/2023 14:50	Khloe J Berg	2426511
	07/25/2023			07/25/2023 14:51	Khloe J Berg	2426512
	07/26/2023			07/26/2023 13:28	Anna M. Plaviak	2426635
	07/26/2023			07/26/2023 14:12	Anna M. Plaviak	2426632
EPA 200.7 Rev. 4.4	07/25/2023	07/27/2023 12:10	George D Taylor	08/01/2023 16:42	Chase Roberts	2426342
	07/25/2023	07/27/2023 12:10	George D Taylor	08/01/2023 19:18	Chase Roberts	2426340
	07/25/2023	07/27/2023 12:10	George D Taylor	08/01/2023 19:41	Chase Roberts	2426531
	07/25/2023	07/27/2023 12:10	George D Taylor	08/01/2023 19:52	Chase Roberts	2426532
	07/25/2023	07/27/2023 12:10	George D Taylor	08/02/2023 21:24	Samatha Luckman	2426532
	07/26/2023	07/27/2023 12:10	George D Taylor	08/01/2023 17:16	Chase Roberts	2426725
	07/26/2023	07/27/2023 12:10	George D Taylor	08/01/2023 21:38	Chase Roberts	2426724
	07/26/2023	07/27/2023 12:10	George D Taylor	08/01/2023 21:46	Chase Roberts	2426724
EPA 200.8 Rev. 5.4	07/25/2023	07/27/2023 12:10	George D Taylor	07/28/2023 13:25	Emily M Philpot	2426342
	07/25/2023	07/27/2023 12:10	George D Taylor	07/28/2023 15:39	Emily M Philpot	2426340
	07/25/2023	07/27/2023 12:10	George D Taylor	07/28/2023 16:06	Emily M Philpot	2426531
	07/25/2023	07/27/2023 12:10	George D Taylor	07/28/2023 16:15	Emily M Philpot	2426532
	07/25/2023	07/27/2023 12:10	George D Taylor	07/31/2023 10:26	Conrad Hartmann	2426340
	07/25/2023	07/27/2023 12:10	George D Taylor	07/31/2023 10:44	Conrad Hartmann	2426531
	07/25/2023	07/27/2023 12:10	George D Taylor	07/31/2023 10:53	Conrad Hartmann	2426532
	07/26/2023	07/27/2023 12:10	George D Taylor	07/28/2023 15:12	Emily M Philpot	2426725
	07/26/2023	07/27/2023 12:10	George D Taylor	07/28/2023 18:02	Emily M Philpot	2426724
	07/26/2023	07/27/2023 12:10	George D Taylor	07/31/2023 10:17	Conrad Hartmann	2426725
	07/26/2023	07/27/2023 12:10	George D Taylor	07/31/2023 12:05	Conrad Hartmann	2426724
EPA 300.0 Rev. 2.1	07/25/2023			07/27/2023 03:21	James L Waggerby	2426511
	07/25/2023			07/27/2023 03:36	James L Waggerby	2426512

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 300.0 Rev. 2.1	07/25/2023			07/31/2023 19:42	James L Waggerby	2426512
	07/26/2023			07/28/2023 18:02	Anna M. Plaviak	2426635
	07/26/2023			08/03/2023 01:50	James L Waggerby	2426632
EPA 350.1 Rev. 2.0	07/25/2023			07/28/2023 13:03	Ping Hua	2426299
	07/25/2023			07/31/2023 12:02	Ping Hua	2426514
	07/25/2023			07/31/2023 13:35	Ping Hua	2426513
	07/25/2023			08/01/2023 12:10	Ping Hua	2426293
	07/26/2023			07/31/2023 12:29	Ping Hua	2426636
	07/26/2023			08/01/2023 12:06	Ping Hua	2426633
EPA 351.2 Rev. 2.0	07/25/2023	07/31/2023 11:02	Dana G. Hughes	08/03/2023 11:17	Samantha L Bates	2426293
	07/25/2023	08/01/2023 10:22	Dana G. Hughes	08/02/2023 13:00	Samantha L Bates	2426299
	07/25/2023	08/01/2023 10:22	Dana G. Hughes	08/03/2023 10:12	Samantha L Bates	2426513
	07/25/2023	08/01/2023 10:22	Dana G. Hughes	08/03/2023 10:14	Samantha L Bates	2426514
	07/26/2023	07/27/2023 12:39	Dana G. Hughes	07/31/2023 16:10	Samantha L Bates	2426636
	07/26/2023	07/31/2023 11:02	Dana G. Hughes	08/03/2023 11:19	Samantha L Bates	2426633
EPA 353.2 Rev. 2.0	07/25/2023			07/26/2023 11:04	Beverly Y. Sanders	2426513
	07/25/2023			07/26/2023 11:05	Beverly Y. Sanders	2426514
	07/25/2023			07/26/2023 11:12	Beverly Y. Sanders	2426293
	07/25/2023			07/26/2023 11:18	Beverly Y. Sanders	2426299
	07/26/2023			07/27/2023 12:35	Beverly Y. Sanders	2426633
	07/26/2023			07/27/2023 12:40	Beverly Y. Sanders	2426636
EPA 365.1 Rev. 2.0	07/25/2023	07/27/2023 14:45	Simonne.V. Calhoun	07/28/2023 09:41	Chandler E Cox	2426514
	07/25/2023	07/27/2023 14:45	Simonne.V. Calhoun	07/28/2023 10:48	Chandler E Cox	2426293
	07/25/2023	08/02/2023 14:24	Alexis Price	08/03/2023 15:42	James L Waggerby	2426299
	07/25/2023	08/02/2023 14:24	Alexis Price	08/03/2023 15:57	James L Waggerby	2426513
	07/26/2023	07/27/2023 14:45	Simonne.V. Calhoun	07/28/2023 10:43	Chandler E Cox	2426633
	07/26/2023	08/02/2023 14:24	Alexis Price	08/03/2023 16:08	James L Waggerby	2426636
EPA 365.1 Rev. 2.0 dissolved	07/25/2023			07/25/2023 13:34	Adam P Silver	2426294
	07/25/2023			07/25/2023 14:19	Adam P Silver	2426300
	07/25/2023			07/25/2023 15:42	Adam P Silver	2426515
	07/25/2023			07/25/2023 15:44	Adam P Silver	2426516
	07/26/2023			07/26/2023 14:27	Chandler E Cox	2426637
	07/26/2023			07/26/2023 14:28	Chandler E Cox	2426634
EPA 522	07/25/2023	08/11/2023 09:31	Linda Giardelli	08/11/2023 15:31	Linda Giardelli	2426527
	07/25/2023	08/11/2023 09:31	Linda Giardelli	08/11/2023 15:51	Linda Giardelli	2426528
	07/25/2023	08/11/2023 09:31	Linda Giardelli	08/11/2023 16:10	Linda Giardelli	2426329
	07/26/2023	08/11/2023 09:31	Linda Giardelli	08/11/2023 15:12	Linda Giardelli	2426657
EPA 625	07/25/2023	07/31/2023 08:30	Hoor Shaik	08/01/2023 11:08	Juyoung Kim	2426331
	07/25/2023	07/31/2023 08:30	Hoor Shaik	08/01/2023 12:29	Juyoung Kim	2426331
	07/26/2023	07/31/2023 08:30	Hoor Shaik	08/01/2023 11:35	Juyoung Kim	2426722

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 625	07/26/2023	07/31/2023 08:30	Hoor Shaik	08/01/2023 12:54	Juyoung Kim	2426722
EPA 8270E	07/25/2023	07/27/2023 08:00	Fe-Val Siddell	08/01/2023 16:43	Vandana T. Nagar	2426347
	07/26/2023	07/27/2023 08:00	Fe-Val Siddell	08/01/2023 18:04	Vandana T. Nagar	2426734
EPA 8290A	07/25/2023	08/16/2023 10:49	Eurofins Sacramento CA	08/22/2023 12:11	Eurofins Sacramento CA	2426324
	07/25/2023	08/16/2023 10:49	Eurofins Sacramento CA	08/22/2023 12:59	Eurofins Sacramento CA	2426328
EPA 8321B	07/25/2023	07/25/2023 14:00	Hoor Shaik	07/26/2023 00:51	Juyoung Kim	2426333
	07/25/2023	07/26/2023 01:00	Hana Lee	07/26/2023 03:17	Tae K Lee	2426333
	07/25/2023	07/26/2023 12:30	Hana Lee	07/27/2023 10:37	Tae K Lee	2426529
	07/25/2023	07/26/2023 12:30	Hana Lee	07/27/2023 17:52	Tae K Lee	2426530
	07/25/2023	07/27/2023 09:00	Hoor Shaik	07/28/2023 18:39	Juyoung Kim	2426529
	07/25/2023	07/27/2023 09:00	Hoor Shaik	07/28/2023 18:58	Juyoung Kim	2426530
	07/26/2023	07/26/2023 12:30	Hana Lee	07/27/2023 11:19	Tae K Lee	2426723
	07/26/2023	07/27/2023 09:00	Hoor Shaik	07/28/2023 19:17	Juyoung Kim	2426723
SM 2320 B-2011	07/25/2023			07/28/2023 02:32	Dale L. Simmons	2426512
	07/25/2023			07/28/2023 04:50	Dale L. Simmons	2426511
	07/26/2023			07/28/2023 06:38	Dale L. Simmons	2426635
	07/26/2023			07/28/2023 07:02	Dale L. Simmons	2426632
SM 2340 B-2011	07/25/2023			08/01/2023 16:42	Chase Roberts	2426342
	07/25/2023			08/01/2023 19:18	Chase Roberts	2426340
SM 2540 D-2015	07/25/2023			07/27/2023 16:02	Yijie Li	2426292, 2426511, 2426512
	07/26/2023			07/27/2023 16:02	Yijie Li	2426632
SM 4500-F- C-2011	07/25/2023			07/28/2023 02:32	Dale L. Simmons	2426512
	07/25/2023			07/28/2023 04:50	Dale L. Simmons	2426511
	07/26/2023			07/28/2023 06:38	Dale L. Simmons	2426635
	07/26/2023			07/28/2023 06:51	Dale L. Simmons	2426632
SM 5220 D	07/25/2023			08/09/2023 11:25	Eurofins Pensacola	2426323
SM 5310 B-2011	07/25/2023			07/31/2023 18:18	Elise M. Gillis	2426513
	07/25/2023			07/31/2023 18:32	Elise M. Gillis	2426514
	07/26/2023			07/31/2023 19:28	Elise M. Gillis	2426636
	07/26/2023			08/04/2023 02:59	Elise M. Gillis	2426633