

Chemical Analysis Report

SO-DIST-2020-08-12-01

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

Event Description: **SMP: Caloosa Creeks Sites**
Request ID: **RQ-2020-07-06-05**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 25-AUG-2020 10:14

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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 group are included in this report: Pesticides.

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Telegraph Creek Sonde @ Usgs Sonde Station Collection Date/Time: 08/11/2020 09:50

Field ID: G3SD0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2189780	EPA 8321B	2,4-D	0.0020	U	ug/L	P386033	
		Acesulfame K**	0.10	U	ug/L	P386032	
		AMPA**	0.14	I	ug/L	P386032	
		Sucralose**	0.010	UJ	ug/L	P386032	RPD
		Acetaminophen**	0.0080	U	ug/L	P386033	
		Acetamiprid**	0.0020	U	ug/L	P386033	
		Endothall**	0.25	U	ug/L	P386032	
		Glufosinate**	0.10	U	ug/L	P386032	
		Glyphosate**	0.14	I	ug/L	P386032	
		Afidopyropen**	0.0020	U	ug/L	P386033	
		Bentazon	8.0E-04	U	ug/L	P386033	
		Benzovindiflupyr**	0.0020	U	ug/L	P386033	
		Carbamazepine**	8.0E-04	U	ug/L	P386033	
		Clothianidin**	0.0020	U	ug/L	P386033	
		Dinotefuran**	0.0020	U	ug/L	P386033	
		Diuron	0.0020	U	ug/L	P386033	
		Fenuron	0.016	U	ug/L	P386033	
		Fluridone**	8.0E-04	U	ug/L	P386033	
		Imazapyr**	0.023		ug/L	P386033	
		Hydrocodone**	0.0020	U	ug/L	P386033	
		Ibuprofen**	0.020	U	ug/L	P386033	
		Imidacloprid	0.0020	U	ug/L	P386033	
		Linuron	0.0040	U	ug/L	P386033	
		Mandestrobin**	0.0020	U	ug/L	P386033	
		MCPP	0.0020	U	ug/L	P386033	
		Naproxen**	0.0080	U	ug/L	P386033	
		Primidone**	0.0040	U	ug/L	P386033	
		Pyraclostrobin**	0.0020	U	ug/L	P386033	
		Thiamethoxam**	0.0020	U	ug/L	P386033	
		Tolfenpyrad**	0.0020	U	ug/L	P386033	
		Triclopyr**	0.0040	U	ug/L	P386033	

Ref. Method and Comment:

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

EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Orange River At Boat Ramp

Collection Date/Time: 08/11/2020 10:30

Field ID: G3SD0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2189781	EPA 8321B	2,4-D	0.0047	I	ug/L	P386033	
		Acesulfame K**	0.10	U	ug/L	P386032	
		AMPA**	0.21	I	ug/L	P386032	
		Sucralose**	0.32		ug/L	P386032	RPD
		Acetaminophen**	0.0080	U	ug/L	P386033	
		Acetamiprid**	0.0020	U	ug/L	P386033	
		Endothall**	0.25	U	ug/L	P386032	
		Glufosinate**	0.10	U	ug/L	P386032	
		Glyphosate**	0.40	I	ug/L	P386032	
		Afidopyropen**	0.0020	U	ug/L	P386033	
		Bentazon	0.024		ug/L	P386033	
		Benzovindiflupyr**	0.0020	U	ug/L	P386033	
		Carbamazepine**	0.0026	I	ug/L	P386033	
		Clothianidin**	0.0020	U	ug/L	P386033	
		Dinotefuran**	0.0020	U	ug/L	P386033	
		Diuron	0.0020	U	ug/L	P386033	
		Fenuron	0.016	U	ug/L	P386033	
		Fluridone**	0.0048		ug/L	P386033	
		Imazapyr**	0.21		ug/L	P386033	
		Hydrocodone**	0.0020	U	ug/L	P386033	
		Ibuprofen**	0.020	U	ug/L	P386033	
		Imidacloprid	0.011		ug/L	P386033	
		Linuron	0.0040	U	ug/L	P386033	
		Mandestrobin**	0.0020	U	ug/L	P386033	
		MCPP	0.0020	U	ug/L	P386033	
		Naproxen**	0.0080	U	ug/L	P386033	
		Primidone**	0.0040	U	ug/L	P386033	
		Pyraclostrobin**	0.0020	U	ug/L	P386033	
		Thiamethoxam**	0.0020	U	ug/L	P386033	
		Tolfenpyrad**	0.0020	U	ug/L	P386033	
		Triclopyr**	0.0040	U	ug/L	P386033	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P386032

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

Reference Method: EPA 8321B
Batch ID: P386033

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P386032

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	90.4		P	40 - 150
Endothall	94.0		P	40 - 150
Glufosinate	90.9		P	40 - 150
Glyphosate	79.7		P	40 - 140
Sucralose	85.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P386033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	30 - 160
Acetaminophen	79.6		P	30 - 160
Acetamiprid	75.6		P	30 - 160
Afidopyropen	56.3		P	30 - 160
Bentazon	70.3		P	30 - 160
Benzovindiflupyr	65.8		P	30 - 160
Carbamazepine	64.0		P	30 - 160
Clothianidin	74.9		P	30 - 160
Dinotefuran	84.9		P	30 - 160
Diuron	55.6		P	30 - 160
Fenuron	80.9		P	30 - 160
Fluridone	70.6		P	30 - 160
Hydrocodone	79.2		P	30 - 160
Ibuprofen	86.4		P	30 - 160
Imazapyr	77.3		P	30 - 160
Imidacloprid	88.3		P	30 - 160
Linuron	64.6		P	30 - 160
Mandestrobin	73.6		P	30 - 160
MCPP	104		P	30 - 160
Naproxen	68.2		P	30 - 160
Primidone	78.2		P	30 - 160
Pyraclostrobin	60.4		P	30 - 160
Thiamethoxam	78.0		P	30 - 160
Tolfenpyrad	43.7		P	30 - 160
Triclopyr	95.8		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P386032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189780	Acesulfame K	105	106	P/P	40 - 150
2189780	AMPA	90.1	85.3	P/P	40 - 150
2189780	Endothall	119	125	P/P	40 - 150
2189780	Glufosinate	77.8	79.7	P/P	40 - 150
2189780	Glyphosate	57.3	62.6	P/P	40 - 140
2189780	Sucralose	94.1	60.3	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P386033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2189403	2,4-D	133	110	P/P	30 - 160
2189403	Acetaminophen	80.3	79.4	P/P	30 - 160
2189403	Acetamiprid	78.1	73.9	P/P	30 - 160
2189403	Afidopyropen	56.5	51.4	P/P	30 - 160
2189403	Benzovindiflupyr	68.9	63.8	P/P	30 - 160
2189403	Carbamazepine	56.3	53.7	P/P	30 - 160
2189403	Clothianidin	69.3	66.9	P/P	30 - 160
2189403	Dinotefuran	91.7	85.6	P/P	30 - 160
2189403	Diuron	46.1	49.2	P/P	30 - 160
2189403	Fenuron	70.0	67.5	P/P	30 - 160
2189403	Fluridone	75.9	68.4	P/P	30 - 160
2189403	Hydrocodone	64.5	63.9	P/P	30 - 160
2189403	Ibuprofen	69.0	63.8	P/P	30 - 160
2189403	Imazapyr	92.4	88.4	P/P	30 - 160
2189403	Imidacloprid	114	105	P/P	30 - 160
2189403	Linuron	57.4	58.3	P/P	30 - 160
2189403	Mandestrobin	71.4	66.1	P/P	30 - 160
2189403	MCPP	117	97.7	P/P	30 - 160
2189403	Naproxen	68.4	73.8	P/P	30 - 160
2189403	Primidone	76.8	71.8	P/P	30 - 160
2189403	Pyraclostrobin	71.3	62.7	P/P	30 - 160
2189403	Thiamethoxam	79.4	78.1	P/P	30 - 160
2189403	Tolfenpyrad	42.2	43.1	P/P	30 - 160
2189403	Triclopyr	101	92.0	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P386032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189780	Acesulfame K	1.02	Spike	P	0 - 30
2189780	AMPA	4.73	Spike	P	0 - 30
2189780	Endothall	4.71	Spike	P	0 - 30
2189780	Glufosinate	2.45	Spike	P	0 - 30
2189780	Glyphosate	7.18	Spike	P	0 - 30
2189780	Sucralose	43.9	Spike	F	0 - 30

Reference Method: EPA 8321B
 Batch ID: P386033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2189403	2,4-D	18.4	Spike	P	0 - 30
2189403	Acetaminophen	1.20	Spike	P	0 - 30
2189403	Acetamiprid	5.51	Spike	P	0 - 30
2189403	Afidopyropen	9.43	Spike	P	0 - 30
2189403	Benzovindiflupyr	7.75	Spike	P	0 - 30
2189403	Carbamazepine	4.68	Spike	P	0 - 30
2189403	Clothianidin	3.50	Spike	P	0 - 30
2189403	Dinotefuran	6.95	Spike	P	0 - 30
2189403	Diuron	6.54	Spike	P	0 - 30
2189403	Fenuron	3.65	Spike	P	0 - 30
2189403	Fluridone	9.74	Spike	P	0 - 30
2189403	Hydrocodone	0.931	Spike	P	0 - 30
2189403	Ibuprofen	7.80	Spike	P	0 - 30
2189403	Imazapyr	4.49	Spike	P	0 - 30
2189403	Imidacloprid	7.93	Spike	P	0 - 30
2189403	Linuron	1.47	Spike	P	0 - 30
2189403	Mandestrobin	7.62	Spike	P	0 - 30
2189403	MCP	18.3	Spike	P	0 - 30
2189403	Naproxen	7.50	Spike	P	0 - 30
2189403	Primidone	6.68	Spike	P	0 - 30
2189403	Pyraclostrobin	12.8	Spike	P	0 - 30
2189403	Thiamethoxam	1.66	Spike	P	0 - 30
2189403	Tolfenpyrad	2.17	Spike	P	0 - 30
2189403	Triclopyr	9.32	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2189780
Field Sample ID: G3SD0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	56.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	44.8	P	30 - 160
EPA 8321B	Diuron-d6	38.8	P	30 - 160
EPA 8321B	Endothall-d6	123	P	30 - 160
EPA 8321B	Endothall-d6	123	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	51.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	51.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.3	P	30 - 160
EPA 8321B	Primidone-d5	50.8	P	30 - 160
EPA 8321B	Sucralose-d6	60.9	P	30 - 160
EPA 8321B	Sucralose-d6	60.9	P	30 - 160

Lab Sample ID: 2189781
Field Sample ID: G3SD0128

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.3	P	30 - 160
EPA 8321B	Diuron-d6	50.7	P	30 - 160
EPA 8321B	Endothall-d6	108	P	30 - 160
EPA 8321B	Endothall-d6	108	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	44.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	44.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.0	P	30 - 160
EPA 8321B	Primidone-d5	80.6	P	30 - 160
EPA 8321B	Sucralose-d6	30.7	P	30 - 160
EPA 8321B	Sucralose-d6	30.7	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A100488

Included Lab Sample IDs: 2189780, 2189781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	111	103	P/P	60 - 160
Endothall	98.0	95.2	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A100503

Included Lab Sample IDs: 2189780, 2189781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.1	94.7	P/P	60 - 160
Glufosinate	86.9	86.4	P/P	60 - 160
Glyphosate	82.0	85.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A100565

Included Lab Sample IDs: 2189780, 2189781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.4	98.4	P/P	50 - 150
2,4-D	98.4	81.6	P/P	50 - 150
Acetaminophen	108	88.8	P/P	60 - 160
Acetaminophen	112	108	P/P	60 - 160
Acetamiprid	98.0	95.6	P/P	50 - 150
Acetamiprid	99.6	98.0	P/P	50 - 150
Afidopyropen	94.4	84.6	P/P	50 - 150
Afidopyropen	97.7	94.4	P/P	50 - 150
Bentazon	106	135	P/P	50 - 160
Bentazon	135	145	P/P	50 - 160
Benzovindiflupyr	106	96.6	P/P	50 - 150
Benzovindiflupyr	96.6	103	P/P	50 - 150
Carbamazepine	93.5	93.7	P/P	60 - 150
Carbamazepine	93.7	88.7	P/P	60 - 150
Clothianidin	101	105	P/P	60 - 150
Clothianidin	105	90.9	P/P	60 - 150
Dinotefuran	102	92.8	P/P	50 - 150
Dinotefuran	99.3	102	P/P	50 - 150
Diuron	100	101	P/P	60 - 160
Diuron	97.6	100	P/P	60 - 160
Fenuron	109	110	P/P	60 - 150
Fenuron	110	101	P/P	60 - 150
Fluridone	104	106	P/P	60 - 160
Fluridone	106	95.7	P/P	60 - 160
Hydrocodone	103	92.0	P/P	60 - 150
Hydrocodone	109	103	P/P	60 - 150
Ibuprofen	77.4	87.7	P/P	50 - 160
Ibuprofen	87.3	77.4	P/P	50 - 160
Imazapyr	88.7	97.9	P/P	50 - 150
Imazapyr	97.9	87.5	P/P	50 - 150
Imidacloprid	107	108	P/P	60 - 150
Imidacloprid	108	87.0	P/P	60 - 150
Linuron	103	105	P/P	60 - 150
Linuron	108	103	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A100565

Included Lab Sample IDs: 2189780, 2189781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mandestrobin	113	113	P/P	50 - 150
Mandestrobin	113	114	P/P	50 - 150
MCP	93.7	92.2	P/P	50 - 150
MCP	95.3	93.7	P/P	50 - 150
Naproxen	113	115	P/P	50 - 160
Naproxen	149	113	P/P	50 - 160
Primidone	95.1	100	P/P	60 - 150
Primidone	96.0	95.1	P/P	60 - 150
Pyraclostrobin	91.4	95.9	P/P	60 - 150
Pyraclostrobin	96.1	91.4	P/P	60 - 150
Thiamethoxam	103	92.8	P/P	50 - 150
Thiamethoxam	103	103	P/P	50 - 150
Tolfenpyrad	87.4	95.4	P/P	60 - 150
Tolfenpyrad	88.1	87.4	P/P	60 - 150
Triclopyr	104	98.2	P/P	50 - 150
Triclopyr	98.2	102	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A100617

Included Lab Sample IDs: 2189780, 2189781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	91.4	95.2	P/P	60 - 160

* 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 SMP	MS
			LCS			
EPA 8321B	2,4-D	106	133	110		18.4
	Acesulfame K	105	105	106		1.02
	Acetaminophen	79.6	80.3	79.4		1.20
	Acetamiprid	75.6	78.1	73.9		5.51
	Afidopyropen	56.3	56.5	51.4		9.43
	AMPA	90.4	90.1	85.3		4.73
	Bentazon	70.3				
	Benzovindiflupyr	65.8	68.9	63.8		7.75
	Carbamazepine	64.0	56.3	53.7		4.68
	Clothianidin	74.9	69.3	66.9		3.50
	Dinotefuran	84.9	91.7	85.6		6.95
	Diuron	55.6	46.1	49.2		6.54
	Endothall	94.0	119	125		4.71
	Fenuron	80.9	70.0	67.5		3.65
	Fluridone	70.6	75.9	68.4		9.74
	Glufosinate	90.9	77.8	79.7		2.45
	Glyphosate	79.7	57.3	62.6		7.18
	Hydrocodone	79.2	64.5	63.9		0.931
	Ibuprofen	86.4	69.0	63.8		7.80
	Imazapyr	77.3	92.4	88.4		4.49
	Imidacloprid	88.3	114	105		7.93
	Linuron	64.6	57.4	58.3		1.47
	Mandestrobin	73.6	71.4	66.1		7.62
	MCPP	104	117	97.7		18.3
	Naproxen	68.2	68.4	73.8		7.50
	Primidone	78.2	76.8	71.8		6.68
	Pyraclostrobin	60.4	71.3	62.7		12.8
	Sucralose	85.7	94.1	60.3		43.9
	Thiamethoxam	78.0	79.4	78.1		1.66
	Tolfenpyrad	43.7	42.2	43.1		2.17
	Triclopyr	95.8	101	92.0		9.32

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2189780, 2189781
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2189780, 2189781

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	08/12/2020	08/14/2020 12:00	Rebecca Ware	08/14/2020 18:06	Rebecca Ware	2189780
	08/12/2020	08/14/2020 12:00	Rebecca Ware	08/14/2020 18:19	Rebecca Ware	2189781
	08/12/2020	08/14/2020 12:00	Rebecca Ware	08/17/2020 10:50	Rebecca Ware	2189780
	08/12/2020	08/14/2020 12:00	Rebecca Ware	08/17/2020 11:00	Rebecca Ware	2189781
	08/12/2020	08/14/2020 12:00	Rebecca Ware	08/21/2020 12:16	Rebecca Ware	2189780
	08/12/2020	08/14/2020 12:00	Rebecca Ware	08/21/2020 12:27	Rebecca Ware	2189781
	08/12/2020	08/17/2020 09:00	Hoor Shaik	08/18/2020 09:39	Juyoung Kim	2189780
	08/12/2020	08/17/2020 09:00	Hoor Shaik	08/18/2020 10:48	Juyoung Kim	2189781