Chemical Analysis Report

NW-DIST-2021-03-01-01

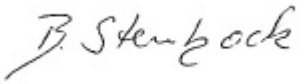
Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Eglin East Run**
Request ID: **RQ-2021-02-22-10**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
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: 09-MAR-2021 17:28



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 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: Little Alaqua Creek Above Eglin AFB Road 208 Collection Date/Time: 02/22/2021 10:40

Field ID: G3NW0453 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2228165	EPA 8321B	2,4-D	0.0020	UYQ	ug/L	P394255	
		Acesulfame K	0.10	UYQ	ug/L	P394312	
		2,4,5-T	0.0040	UYQ	ug/L	P394255	
		AMPA	0.10	UYQ	ug/L	P394312	
		Sucralose	0.010	UY	ug/L	P394312	
		Acetaminophen**	0.0080	UYQ	ug/L	P394255	
		Acetamiprid**	0.0020	UYQ	ug/L	P394255	
		Endothall	0.25	UYQ	ug/L	P394312	
		Glufosinate	0.10	UYQ	ug/L	P394312	
		Glyphosate	0.10	UYQ	ug/L	P394312	
		Afidopyropen**	0.0020	UYQ	ug/L	P394255	
		Bentazon	8.0E-04	UYQ	ug/L	P394255	
		Benzovindiflupyr**	0.0020	UYQ	ug/L	P394255	
		Carbamazepine**	8.0E-04	UYQ	ug/L	P394255	
		Clothianidin**	0.0020	UYQ	ug/L	P394255	
		Dinotefuran**	0.0020	UYQ	ug/L	P394255	
		Diuron	0.0020	UYQ	ug/L	P394255	
		Fenuron	0.016	UYQ	ug/L	P394255	
		Fluridone**	8.0E-04	UYQ	ug/L	P394255	
		Imazapyr**	0.0040	UYQ	ug/L	P394255	
		Hydrocodone**	0.0020	UYQ	ug/L	P394255	
		Ibuprofen**	0.020	UYQ	ug/L	P394255	
		Imidacloprid	0.0020	UYQ	ug/L	P394255	
		Linuron	0.0040	UYQ	ug/L	P394255	
		Mandestrobin**	0.0020	UYQ	ug/L	P394255	
		MCPP	0.0020	UYQ	ug/L	P394255	
		Naproxen**	0.0080	UYQ	ug/L	P394255	
		Primidone**	0.0040	UYQ	ug/L	P394255	
		Pyraclostrobin**	0.0020	UYQ	ug/L	P394255	
		Thiamethoxam**	0.0020	UYQ	ug/L	P394255	
		Tolfenpyrad**	0.0020	UYQ	ug/L	P394255	
		Triclopyr**	0.0040	UYQ	ug/L	P394255	

Ref. Method and Comment:
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample. Sample expired upon receipt. Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8321B: Sample expired upon receipt. Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.

Sample Location: Little Rocky Creek abv Eglin Rd. 515 **Collection Date/Time: 02/22/2021 13:00**

Field ID: G3NW0103 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2228166	EPA 8321B	2,4-D	0.0020	UYQ	ug/L	P394255	
		Acesulfame K	0.10	UYQ	ug/L	P394312	
		2,4,5-T	0.0040	UYQ	ug/L	P394255	
		AMPA	0.10	UYQ	ug/L	P394312	
		Sucralose	0.010	UY	ug/L	P394312	
		Acetaminophen**	0.0080	UYQ	ug/L	P394255	
		Acetamiprid**	0.0020	UYQ	ug/L	P394255	
		Endothall	0.25	UYQ	ug/L	P394312	
		Glufosinate	0.10	UYQ	ug/L	P394312	
		Glyphosate	0.10	UYQ	ug/L	P394312	
		Afidopyropen**	0.0020	UYQ	ug/L	P394255	
		Bentazon	8.0E-04	UYQ	ug/L	P394255	
		Benzovindiflupyr**	0.0020	UYQ	ug/L	P394255	
		Carbamazepine**	8.0E-04	UYQ	ug/L	P394255	
		Clothianidin**	0.0020	UYQ	ug/L	P394255	
		Dinotefuran**	0.0020	UYQ	ug/L	P394255	
		Diuron	0.0020	UYQ	ug/L	P394255	
		Fenuron	0.016	UYQ	ug/L	P394255	
		Fluridone**	8.0E-04	UYQ	ug/L	P394255	
		Imazapyr**	0.0040	UYQ	ug/L	P394255	
		Hydrocodone**	0.0020	UYQ	ug/L	P394255	
		Ibuprofen**	0.020	UYQ	ug/L	P394255	
		Imidacloprid	0.0020	UYQ	ug/L	P394255	
		Linuron	0.0040	UYQ	ug/L	P394255	
		Mandestrobin**	0.0020	UYQ	ug/L	P394255	
		MCPP	0.0020	UYQ	ug/L	P394255	
		Naproxen**	0.0080	UYQ	ug/L	P394255	
		Primidone**	0.0040	UYQ	ug/L	P394255	
		Pyraclostrobin**	0.0020	UYQ	ug/L	P394255	
		Thiamethoxam**	0.0020	UYQ	ug/L	P394255	
		Tolfenpyrad**	0.0020	UYQ	ug/L	P394255	
		Triclopyr**	0.0040	UYQ	ug/L	P394255	

Ref. Method and Comment:
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample. Sample expired upon receipt. Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8321B: Sample expired upon receipt. Y - Sample was received with inadequate sample preservation; see NCR report.
EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.

Non-Conformance Report

NCR ID: 8696

Event(s)	Job(s)	Sample(s)	Test(s)
NW-DIST-2021-03-01-01			

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

Observation: Samples arrived one or more days late by FedEx; samples received outside of the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.

Authorized by/Date: Kerry Tate, Ph.D. 3/8/2021

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: EPA 8321B
Batch ID: P394255

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	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

Reference Method: EPA 8321B
Batch ID: P394312

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P394255

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	129		P	30 - 160
2,4,5-T	106		P	30 - 160
Acetaminophen	138		P	30 - 160
Acetamiprid	90.7		P	30 - 160
Afidopyropen	72.0		P	30 - 160
Bentazon	88.6		P	30 - 160
Benzovindiflupyr	96.6		P	30 - 160
Carbamazepine	124		P	30 - 160
Clothianidin	125		P	30 - 160
Dinotefuran	109		P	30 - 160
Diuron	73.9		P	30 - 160
Fenuron	110		P	30 - 160
Fluridone	101		P	30 - 160
Hydrocodone	110		P	30 - 160
Ibuprofen	77.9		P	30 - 160
Imazapyr	115		P	30 - 160
Imidacloprid	133		P	30 - 160
Linuron	97.6		P	30 - 160
Mandestrobin	102		P	30 - 160
MCPP	129		P	30 - 160
Naproxen	77.1		P	30 - 160
Primidone	130		P	30 - 160
Pyraclostrobin	92.7		P	30 - 160
Thiamethoxam	122		P	30 - 160
Tolfenpyrad	63.3		P	30 - 160
Triclopyr	111		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P394312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	99.0		P	40 - 150
Endothall	96.7		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	70.8		P	40 - 140
Sucralose	118		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P394255

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2227432	2,4-D	83.5	84.2	P/P	30 - 160
2227432	2,4,5-T	73.1	68.7	P/P	30 - 160
2227432	Acetaminophen	92.5	104	P/P	30 - 160
2227432	Acetamiprid	87.6	92.6	P/P	30 - 160
2227432	Afidopyropen	78.4	73.5	P/P	30 - 160
2227432	Benzovindiflupyr	70.1	73.0	P/P	30 - 160
2227432	Carbamazepine	85.1	91.6	P/P	30 - 160
2227432	Clothianidin	96.3	102	P/P	30 - 160
2227432	Dinotefuran	119	126	P/P	30 - 160
2227432	Diuron	39.7	38.3	P/P	30 - 160
2227432	Fenuron	72.8	63.4	P/P	30 - 160
2227432	Fluridone	79.6	78.2	P/P	30 - 160
2227432	Hydrocodone	98.0	101	P/P	30 - 160
2227432	Ibuprofen	63.4	67.5	P/P	30 - 160
2227432	Imazapyr	60.2	62.0	P/P	30 - 160
2227432	Imidacloprid	152	150	P/P	30 - 160
2227432	Linuron	72.8	71.5	P/P	30 - 160
2227432	Mandestrobin	83.8	86.9	P/P	30 - 160
2227432	MCPP	91.9	88.5	P/P	30 - 160
2227432	Naproxen	71.4	57.7	P/P	30 - 160
2227432	Primidone	94.5	89.4	P/P	30 - 160
2227432	Pyraclostrobin	82.0	77.9	P/P	30 - 160
2227432	Thiamethoxam	133	141	P/P	30 - 160
2227432	Tolfenpyrad	58.5	58.0	P/P	30 - 160
2227432	Triclopyr	83.1	76.9	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P394312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2227562	Acesulfame K	131	147	P/P	40 - 150
2227562	AMPA	110	120	P/P	40 - 150
2227562	Endothall	129	103	P/P	40 - 150
2227562	Glufosinate	96.3	106	P/P	40 - 150
2227562	Glyphosate	54.7	61.0	P/P	40 - 140
2227562	Sucralose	127	129	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P394255

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2227432	2,4-D	0.711	Spike	P	0 - 30
2227432	2,4,5-T	6.15	Spike	P	0 - 30
2227432	Acetaminophen	12.1	Spike	P	0 - 30
2227432	Acetamiprid	5.54	Spike	P	0 - 30
2227432	Afidopyropen	6.53	Spike	P	0 - 30
2227432	Bentazon	5.93	Spike	P	0 - 30
2227432	Benzovindiflupyr	4.08	Spike	P	0 - 30
2227432	Carbamazepine	7.35	Spike	P	0 - 30
2227432	Clothianidin	5.34	Spike	P	0 - 30
2227432	Dinotefuran	6.11	Spike	P	0 - 30
2227432	Diuron	3.27	Spike	P	0 - 30
2227432	Fenuron	13.8	Spike	P	0 - 30
2227432	Fluridone	1.20	Spike	P	0 - 30
2227432	Hydrocodone	3.20	Spike	P	0 - 30
2227432	Ibuprofen	6.31	Spike	P	0 - 30
2227432	Imazapyr	1.49	Spike	P	0 - 30
2227432	Imidacloprid	1.07	Spike	P	0 - 30
2227432	Linuron	1.71	Spike	P	0 - 30
2227432	Mandestrobin	3.64	Spike	P	0 - 30
2227432	MCPP	3.74	Spike	P	0 - 30
2227432	Naproxen	21.3	Spike	P	0 - 30
2227432	Primidone	5.58	Spike	P	0 - 30
2227432	Pyraclostrobin	5.10	Spike	P	0 - 30
2227432	Thiamethoxam	5.73	Spike	P	0 - 30
2227432	Tolfenpyrad	0.950	Spike	P	0 - 30
2227432	Triclopyr	7.75	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P394312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2227562	Acesulfame K	11.4	Spike	P	0 - 30
2227562	AMPA	9.24	Spike	P	0 - 30
2227562	Endothall	23.0	Spike	P	0 - 30
2227562	Glufosinate	9.82	Spike	P	0 - 30
2227562	Glyphosate	10.8	Spike	P	0 - 30
2227562	Sucralose	1.64	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2228165
Field Sample ID: G3NW0453

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	82.0	P	30 - 160
EPA 8321B	Diuron-d6	72.0	P	30 - 160
EPA 8321B	Endothall-d6	84.2	P	40 - 160
EPA 8321B	Endothall-d6	84.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	82.3	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	82.3	P	40 - 160
EPA 8321B	Ibuprofen-d3	68.2	P	30 - 160
EPA 8321B	Primidone-d5	97.4	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160
EPA 8321B	Sucralose-d6	117	P	30 - 160

Lab Sample ID: 2228166
Field Sample ID: G3NW0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.8	P	30 - 160
EPA 8321B	Diuron-d6	72.8	P	30 - 160
EPA 8321B	Endothall-d6	104	P	40 - 160
EPA 8321B	Endothall-d6	104	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	99.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	99.7	P	40 - 160
EPA 8321B	Ibuprofen-d3	76.5	P	30 - 160
EPA 8321B	Primidone-d5	113	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A103843
Included Lab Sample IDs: 2228165, 2228166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	79.7	74.2	P/P	60 - 160
AMPA	96.5	96.8	P/P	60 - 160
Endothall	110	158	P/P	60 - 160
Glufosinate	116	90.2	P/P	60 - 160
Glyphosate	132	128	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A103873
Included Lab Sample IDs: 2228165, 2228166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	91.0	P/P	50 - 150
2,4,5-T	83.5	83.4	P/P	50 - 150
Acetaminophen	98.7	99.0	P/P	60 - 160
Acetamiprid	108	107	P/P	50 - 150
Afidopyropen	106	99.6	P/P	50 - 150
Bentazon	113	107	P/P	50 - 160
Benzovindiflupyr	100	94.9	P/P	50 - 160
Carbamazepine	114	107	P/P	60 - 150
Clothianidin	102	99.7	P/P	60 - 150
Dinotefuran	99.5	108	P/P	50 - 150
Diuron	84.7	84.4	P/P	60 - 160
Fenuron	99.1	97.0	P/P	60 - 150
Fluridone	124	107	P/P	60 - 160
Hydrocodone	103	105	P/P	60 - 150
Ibuprofen	82.9	80.3	P/P	50 - 160
Imazapyr	103	83.5	P/P	50 - 160
Imidacloprid	102	99.7	P/P	60 - 150
Linuron	116	108	P/P	60 - 150
Mandestrobin	109	107	P/P	50 - 150
MCPP	106	105	P/P	50 - 150
Naproxen	83.7	85.6	P/P	50 - 160
Primidone	94.2	110	P/P	60 - 150
Pyraclostrobin	111	107	P/P	60 - 150
Thiamethoxam	103	97.4	P/P	50 - 150
Tolfenpyrad	120	113	P/P	60 - 150
Triclopyr	103	92.7	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A103914
Included Lab Sample IDs: 2228165, 2228166

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	118	117	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		
					LCS	SMP	MS
EPA 8321B	2,4-D	129	83.5	84.2			0.711
	2,4,5-T	106	73.1	68.7			6.15
	Acesulfame K	105	131	147			11.4
	Acetaminophen	138	92.5	104			12.1
	Acetamiprid	90.7	87.6	92.6			5.54
	Afidopyropen	72.0	78.4	73.5			6.53
	AMPA	99.0	110	120			9.24
	Bentazon	88.6					5.93
	Benzovindiflupyr	96.6	70.1	73.0			4.08
	Carbamazepine	124	85.1	91.6			7.35
	Clothianidin	125	96.3	102			5.34
	Dinotefuran	109	119	126			6.11
	Diuron	73.9	39.7	38.3			3.27
	Endothall	96.7	129	103			23.0
	Fenuron	110	72.8	63.4			13.8
	Fluridone	101	79.6	78.2			1.20
	Glufosinate	105	96.3	106			9.82
	Glyphosate	70.8	54.7	61.0			10.8
	Hydrocodone	110	98.0	101			3.20
	Ibuprofen	77.9	63.4	67.5			6.31
	Imazapyr	115	60.2	62.0			1.49
	Imidacloprid	133	152	150			1.07
	Linuron	97.6	72.8	71.5			1.71
	Mandestrobin	102	83.8	86.9			3.64
	MCPP	129	91.9	88.5			3.74
	Naproxen	77.1	71.4	57.7			21.3
	Primidone	130	94.5	89.4			5.58
	Pyraclostrobin	92.7	82.0	77.9			5.10
	Sucralose	118	127	129			1.64
	Thiamethoxam	122	133	141			5.73
	Tolfenpyrad	63.3	58.5	58.0			0.950
	Triclopyr	111	83.1	76.9			7.75

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2228165, 2228166
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2228165, 2228166

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/01/2021	03/01/2021 16:30	Rebecca Ware	03/01/2021 23:50	Rebecca Ware	2228165
	03/01/2021	03/01/2021 16:30	Rebecca Ware	03/02/2021 00:03	Rebecca Ware	2228166
	03/01/2021	03/01/2021 16:30	Rebecca Ware	03/05/2021 00:09	Rebecca Ware	2228165
	03/01/2021	03/01/2021 16:30	Rebecca Ware	03/05/2021 00:20	Rebecca Ware	2228166
	03/01/2021	03/02/2021 09:00	Hoor Shaik	03/03/2021 10:12	Juyoung Kim	2228165
	03/01/2021	03/02/2021 09:00	Hoor Shaik	03/03/2021 10:47	Juyoung Kim	2228166