

Chemical Analysis Report

NW-DIST-2018-06-15-01

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

Event Description: **Perdido/Chico Run**
Request ID: **RQ-2018-06-11-31**
Customer: **NW-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 11-JUL-2018 10:50

A handwritten signature in black ink, appearing to read "Colin Wright", is written over a light blue rectangular background.

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 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: Bridge Creek (Tidal Portion)

Collection Date/Time: 06/14/2018 10:55

Field ID: G5NW0129

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001249	EPA 8321B	2,4-D	0.013		ug/L	P346885	
		Bentazon	8.0E-04	U	ug/L	P346885	
		MCP	0.0077	I	ug/L	P346885	
		Triclopyr**	0.0040	U	ug/L	P346885	
		Imidacloprid	0.045		ug/L	P346885	
		Diuron	0.0020	U	ug/L	P346885	
		Pyraclostrobin**	0.0020	U	ug/L	P346885	
		Primidone**	0.0040	U	ug/L	P346885	
		Linuron	0.0040	U	ug/L	P346885	
		Acetaminophen**	0.0080	U	ug/L	P346885	
		Fenuron	0.016	U	ug/L	P346885	
		Imazapyr**	0.0043	I	ug/L	P346885	
		Carbamazepine**	0.0013	I	ug/L	P346885	
		Fluridone**	4.3E-04	I	ug/L	P346885	
		Hydrocodone**	8.0E-04	U	ug/L	P346885	
		Sucralose**	0.23		ug/L	P347055	

Ref. Method and Comment:

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

Sample Location: Perdido Bay (upper segment) off Double Point Collection Date/Time: 06/14/2018 11:10

Field ID: G5NW0127

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001250	EPA 8321B	2,4-D	0.0063	I	ug/L	P346885	
		Bentazon	8.0E-04	U	ug/L	P346885	
		MCP	0.0020	U	ug/L	P346885	
		Triclopyr**	0.0040	U	ug/L	P346885	
		Imidacloprid	0.0061	I	ug/L	P346885	
		Diuron	0.0026	I	ug/L	P346885	
		Pyraclostrobin**	0.0020	U	ug/L	P346885	
		Primidone**	0.0040	U	ug/L	P346885	
		Linuron	0.0040	U	ug/L	P346885	
		Acetaminophen**	0.0080	U	ug/L	P346885	
		Fenuron	0.016	U	ug/L	P346885	
		Imazapyr**	0.014	I	ug/L	P346885	
		Carbamazepine**	0.0015	I	ug/L	P346885	
		Fluridone**	4.0E-04	U	ug/L	P346885	
		Hydrocodone**	8.0E-04	U	ug/L	P346885	
		Sucralose**	0.54		ug/L	P347055	

Ref. Method and Comment:

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

Sample Location: Perdido Bay (upper segment) NW of Millview Rd.

Collection Date/Time: 06/14/2018 12:00

Field ID: G5NW0022

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001251	EPA 8321B	2,4-D	0.0055	I	ug/L	P346981	
		Bentazon	8.0E-04	U	ug/L	P346981	
		MCP	0.0020	U	ug/L	P346981	
		Triclopyr**	0.0040	U	ug/L	P346981	
		Imidacloprid	0.0084		ug/L	P346981	
		Diuron	0.0026	I	ug/L	P346981	
		Pyraclostrobin**	0.0020	U	ug/L	P346981	
		Primidone**	0.0040	U	ug/L	P346981	
		Linuron	0.0040	U	ug/L	P346981	
		Acetaminophen**	0.0080	U	ug/L	P346981	
		Fenuron	0.016	U	ug/L	P346981	
		Imazapyr**	0.013	I	ug/L	P346981	
		Carbamazepine**	0.0012	I	ug/L	P346981	
		Fluridone**	4.0E-04	U	ug/L	P346981	
		Hydrocodone**	8.0E-04	U	ug/L	P346981	
		Sucralose**	0.24		ug/L	P347055	

Ref. Method and Comment:

EPA 8321B: Insufficient sample to perform matrix spikes.

Sample Location: Perdido Bay 500m SE of mouth Elevenmile

Collection Date/Time: 06/14/2018 12:10

Field ID: G5NW0128

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001252	EPA 8321B	2,4-D	0.0065	I	ug/L	P346981	
		Bentazon	8.0E-04	U	ug/L	P346981	
		MCP	0.0020	U	ug/L	P346981	
		Triclopyr**	0.0040	U	ug/L	P346981	
		Imidacloprid	0.012		ug/L	P346981	
		Diuron	0.0026	I	ug/L	P346981	
		Pyraclostrobin**	0.0020	U	ug/L	P346981	
		Primidone**	0.0067	I	ug/L	P346981	
		Linuron	0.0040	U	ug/L	P346981	
		Acetaminophen**	0.0080	U	ug/L	P346981	
		Fenuron	0.016	U	ug/L	P346981	
		Imazapyr**	0.051		ug/L	P346981	
		Carbamazepine**	0.0026		ug/L	P346981	
		Fluridone**	4.0E-04	U	ug/L	P346981	
		Hydrocodone**	8.0E-04	U	ug/L	P346981	
		Sucralose**	0.76		ug/L	P347055	

Ref. Method and Comment:

EPA 8321B: Insufficient sample to perform matrix spikes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P346885

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P346981

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P347055

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P346885

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	85.1		P	40 - 150
Acetaminophen	90.6		P	30 - 150
Bentazon	91.9		P	30 - 150
Carbamazepine	91.0		P	40 - 150
Diuron	82.8		P	40 - 150
Fenuron	95.8		P	40 - 150
Fluridone	83.9		P	40 - 150
Hydrocodone	95.2		P	40 - 150
Imazapyr	86.3		P	40 - 150
Imidacloprid	97.5		P	40 - 160
Linuron	68.8		P	40 - 150
MCPP	111		P	40 - 150
Primidone	88.4		P	40 - 150
Pyraclostrobin	81.1		P	40 - 150
Triclopyr	107		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P346981

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	76.0	87.4	P/P	40 - 150
Acetaminophen	93.2	95.3	P/P	30 - 150
Bentazon	83.3	88.9	P/P	30 - 150
Carbamazepine	90.2	93.1	P/P	40 - 150
Diuron	85.2	85.4	P/P	40 - 150
Fenuron	102	106	P/P	40 - 150
Fluridone	88.7	89.4	P/P	40 - 150
Hydrocodone	93.5	93.8	P/P	40 - 150
Imazapyr	87.9	90.6	P/P	40 - 150
Imidacloprid	98.6	101	P/P	40 - 160
Linuron	66.0	66.3	P/P	40 - 150
MCPP	101	107	P/P	40 - 150
Primidone	90.8	95.4	P/P	40 - 150
Pyraclostrobin	80.3	82.8	P/P	40 - 150
Triclopyr	95.0	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P347055

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	63.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P346885

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2000875	2,4-D	89.4	87.0	P/P	40 - 150
2000875	Acetaminophen	70.8	68.6	P/P	30 - 150
2000875	Bentazon	71.8	70.2	P/P	30 - 150
2000875	Carbamazepine	66.7	60.7	P/P	40 - 150
2000875	Diuron	58.9	51.8	P/P	40 - 150
2000875	Fenuron	66.9	60.8	P/P	40 - 150
2000875	Fluridone	82.1	72.0	P/P	40 - 150
2000875	Hydrocodone	74.9	69.0	P/P	40 - 150
2000875	Imidacloprid	142	126	P/P	40 - 160
2000875	Linuron	65.2	51.7	P/P	40 - 150
2000875	MCP	117	117	P/P	40 - 150
2000875	Primidone	74.3	67.4	P/P	40 - 150
2000875	Pyraclostrobin	77.1	76.0	P/P	40 - 150
2000875	Triclopyr	117	115	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P347055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2001001	Sucralose	72.3	82.7	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P346885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2000875	2,4-D	2.19	Spike	P	0 - 30
2000875	Acetaminophen	3.21	Spike	P	0 - 30
2000875	Bentazon	2.27	Spike	P	0 - 30
2000875	Carbamazepine	9.38	Spike	P	0 - 30
2000875	Diuron	11.3	Spike	P	0 - 30
2000875	Fenuron	9.52	Spike	P	0 - 30
2000875	Fluridone	12.9	Spike	P	0 - 30
2000875	Hydrocodone	8.22	Spike	P	0 - 30
2000875	Imazapyr	7.04	Spike	P	0 - 30
2000875	Imidacloprid	12.5	Spike	P	0 - 30
2000875	Linuron	23.1	Spike	P	0 - 30
2000875	MCP	0.0204	Spike	P	0 - 30
2000875	Primidone	9.81	Spike	P	0 - 30
2000875	Pyraclostrobin	1.35	Spike	P	0 - 30
2000875	Triclopyr	1.85	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P346981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	2,4-D	14.0	LCS	P	0 - 30
LFB	Acetaminophen	2.14	LCS	P	0 - 30
LFB	Bentazon	6.49	LCS	P	0 - 30
LFB	Carbamazepine	3.18	LCS	P	0 - 30
LFB	Diuron	0.178	LCS	P	0 - 30
LFB	Fenuron	3.12	LCS	P	0 - 30
LFB	Fluridone	0.762	LCS	P	0 - 30
LFB	Hydrocodone	0.316	LCS	P	0 - 30
LFB	Imazapyr	3.12	LCS	P	0 - 30
LFB	Imidacloprid	1.94	LCS	P	0 - 30
LFB	Linuron	0.344	LCS	P	0 - 30
LFB	MCP	5.82	LCS	P	0 - 30
LFB	Primidone	4.95	LCS	P	0 - 30
LFB	Pyraclostrobin	3.03	LCS	P	0 - 30
LFB	Triclopyr	5.70	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P347055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2001001	Sucralose	12.5	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 2001249

Field Sample ID: G5NW0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.5	P	30 - 160
EPA 8321B	Diuron-d6	60.3	P	30 - 160
EPA 8321B	Primidone-d5	83.6	P	30 - 160
EPA 8321B	Sucralose-d6	75.5	P	40 - 160

Lab Sample ID: 2001250

Field Sample ID: G5NW0127

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	71.4	P	30 - 160
EPA 8321B	Diuron-d6	64.2	P	30 - 160
EPA 8321B	Primidone-d5	79.5	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160

Lab Sample ID: 2001251

Field Sample ID: G5NW0022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	109	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.6	P	30 - 160
EPA 8321B	Diuron-d6	66.3	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	84.6	P	40 - 160

Lab Sample ID: 2001252

Field Sample ID: G5NW0128

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.2	P	30 - 160
EPA 8321B	Diuron-d6	66.1	P	30 - 160
EPA 8321B	Primidone-d5	93.8	P	30 - 160
EPA 8321B	Sucralose-d6	111	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A84665

Included Lab Sample IDs: 2001249, 2001250, 2001251, 2001252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	63.5	67.7	P/P	60 - 160
Sucralose	64.8	63.5	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A84988

Included Lab Sample IDs: 2001249, 2001250, 2001251, 2001252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	120	125	P/P	60 - 160
Acetaminophen	125	122	P/P	60 - 160
Carbamazepine	104	109	P/P	60 - 160
Carbamazepine	109	106	P/P	60 - 160
Diuron	110	116	P/P	60 - 150
Diuron	116	112	P/P	60 - 150
Fenuron	102	104	P/P	60 - 150
Fenuron	104	105	P/P	60 - 150
Fluridone	102	107	P/P	60 - 160
Fluridone	107	107	P/P	60 - 160
Hydrocodone	107	106	P/P	60 - 150
Hydrocodone	112	107	P/P	60 - 150
Imazapyr	91.2	93.7	P/P	50 - 150
Imazapyr	98.7	91.2	P/P	50 - 150
Imidacloprid	102	95.9	P/P	60 - 150
Imidacloprid	96.4	102	P/P	60 - 150
Linuron	105	98.9	P/P	60 - 150
Linuron	106	105	P/P	60 - 150
Primidone	93.7	87.7	P/P	60 - 150
Primidone	96.2	93.7	P/P	60 - 150
Pyraclostrobin	108	109	P/P	60 - 150
Pyraclostrobin	109	108	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A85000

Included Lab Sample IDs: 2001249, 2001250, 2001251, 2001252

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.7	96.8	P/P	50 - 150
2,4-D	96.8	103	P/P	50 - 150
Bentazon	105	117	P/P	50 - 160
Bentazon	88.7	105	P/P	50 - 160
MCP	103	105	P/P	50 - 150
MCP	81.6	103	P/P	50 - 150
Triclopyr	101	105	P/P	50 - 150
Triclopyr	83.3	101	P/P	50 - 150

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8321B	2,4-D	85.1		89.4	87.0			2.19
	2,4-D	76.0	87.4			14.0		
	Acetaminophen	90.6		70.8	68.6			3.21
	Acetaminophen	95.3	93.2			2.14		
	Bentazon	91.9		71.8	70.2			2.27
	Bentazon	83.3	88.9			6.49		
	Carbamazepine	91.0		66.7	60.7			9.38
	Carbamazepine	93.1	90.2			3.18		
	Diuron	82.8		58.9	51.8			11.3
	Diuron	85.2	85.4			0.178		
	Fenuron	95.8		66.9	60.8			9.52
	Fenuron	106	102			3.12		
	Fluridone	83.9		82.1	72.0			12.9
	Fluridone	88.7	89.4			0.762		
	Hydrocodone	95.2		74.9	69.0			8.22
	Hydrocodone	93.8	93.5			0.316		
	Imazapyr	86.3						7.04
	Imazapyr	87.9	90.6			3.12		
	Imidacloprid	97.5		142	126			12.5
	Imidacloprid	101	98.6			1.94		
	Linuron	68.8		65.2	51.7			23.1
	Linuron	66.0	66.3			0.344		
	MCP	111		117	117			0.0204
	MCP	101	107			5.82		
	Primidone	88.4		74.3	67.4			9.81
	Primidone	95.4	90.8			4.95		
	Pyraclostrobin	81.1		77.1	76.0			1.35
	Pyraclostrobin	80.3	82.8			3.03		
	Sucralose	63.0		72.3	82.7			12.5
	Triclopyr	107		117	115			1.85
	Triclopyr	95.0	101			5.70		

Reference Method Descriptions

Method / DoH Cert

EPA 8321B / E31780

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Associated Samples

2001249, 2001250, 2001251, 2001252

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	06/15/2018	06/18/2018 11:00	Juyoung Kim	06/19/2018 03:47	Mohammad Ghaffari	2001249
	06/15/2018	06/18/2018 11:00	Juyoung Kim	06/19/2018 04:25	Mohammad Ghaffari	2001250
	06/15/2018	06/18/2018 11:00	Juyoung Kim	06/19/2018 04:43	Mohammad Ghaffari	2001251
	06/15/2018	06/18/2018 11:00	Juyoung Kim	06/19/2018 05:02	Mohammad Ghaffari	2001252
	06/15/2018	06/19/2018 10:00	Hoor Shaik	07/01/2018 14:48	Juyoung Kim	2001249
	06/15/2018	06/19/2018 10:00	Hoor Shaik	07/01/2018 15:23	Juyoung Kim	2001250
	06/15/2018	06/19/2018 10:00	Hoor Shaik	07/01/2018 22:36	Juyoung Kim	2001249
	06/15/2018	06/19/2018 10:00	Hoor Shaik	07/01/2018 23:10	Juyoung Kim	2001250
	06/15/2018	06/21/2018 10:00	Hoor Shaik	07/01/2018 18:16	Juyoung Kim	2001251
	06/15/2018	06/21/2018 10:00	Hoor Shaik	07/01/2018 18:51	Juyoung Kim	2001252
	06/15/2018	06/21/2018 10:00	Hoor Shaik	07/02/2018 02:03	Juyoung Kim	2001251
	06/15/2018	06/21/2018 10:00	Hoor Shaik	07/02/2018 02:38	Juyoung Kim	2001252