



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB34019	Field Blank	8/20/2018	8/23/2018	< 0.060
AB34012	Raccoon Lake SRA	8/20/2018	8/23/2018	< 0.060
AB34018	Raccoon Lake (Field Duplicate)	8/20/2018	8/23/2018	< 0.060
AB34014	Paynetown SRA	8/20/2018	8/23/2018	0.078
AB34013	Fairfax SRA	8/20/2018	8/23/2018	< 0.060
AB34015	Hardy Lake SRA	8/20/2018	8/23/2018	< 0.060
AB34010	Dog Park Lake	8/20/2018	8/23/2018	< 0.060
AB34017	Whitewater Memorial SP	8/21/2018	8/23/2018	< 0.060
AB34011	Quakertown SRA	8/21/2018	8/23/2018	< 0.060
AB34016	Mounds SRA	8/21/2018	8/23/2018	< 0.060
AB34016LD	Mounds (Lab Duplicate)	8/21/2018	8/23/2018	< 0.060
20180821LB	Lab Blank	8/21/2018	8/23/2018	< 0.060



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/23/2018 9:21:02 AM						
Std1	Saxitoxin (PSP) ELISA	1.216 Abs	0.002 ng/mL		0.000	A01
Std1	Saxitoxin (PSP) ELISA	1.238 Abs	< 0.000 ng/mL		0.000	B01
Std2	Saxitoxin (PSP) ELISA	1.052 Abs	0.021 ng/mL		0.020	C01
Std2	Saxitoxin (PSP) ELISA	1.057 Abs	0.020 ng/mL		0.020	D01
Std3	Saxitoxin (PSP) ELISA	0.790 Abs	0.053 ng/mL		0.050	E01
Std3	Saxitoxin (PSP) ELISA	0.834 Abs	0.046 ng/mL		0.050	F01
Std4	Saxitoxin (PSP) ELISA	0.549 Abs	0.105 ng/mL		0.100	G01
Std4	Saxitoxin (PSP) ELISA	0.578 Abs	0.096 ng/mL		0.100	H01
Std5	Saxitoxin (PSP) ELISA	0.359 Abs	0.216 ng/mL		0.200	A02
Std5	Saxitoxin (PSP) ELISA	0.382 Abs	0.193 ng/mL		0.200	B02
Std6	Saxitoxin (PSP) ELISA	0.274 Abs	0.384 ng/mL		0.400	C02
Std6	Saxitoxin (PSP) ELISA	0.273 Abs	0.388 ng/mL		0.400	D02
Normal Control	Saxitoxin (PSP) ELISA	0.696 Abs	0.068 ng/mL			E02
Normal Control	Saxitoxin (PSP) ELISA	0.697 Abs	0.068 ng/mL			F02
AB34019	Saxitoxin (PSP) ELISA	1.422 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	G02
AB34019	Saxitoxin (PSP) ELISA	1.418 Abs [1.4200] {0.2 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	H02
AB34012	Saxitoxin (PSP) ELISA	1.337 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	A03
AB34012	Saxitoxin (PSP) ELISA	1.420 Abs [1.3785] {4.3 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	B03
AB34018	Saxitoxin (PSP) ELISA	1.389 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	C03
AB34018	Saxitoxin (PSP) ELISA	1.397 Abs [1.3930] {0.4 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	D03
AB34014	Saxitoxin (PSP) ELISA	0.661 Abs	0.084 ng/mL		0.000 - 0.400	E03
AB34014	Saxitoxin (PSP) ELISA	0.709 Abs [0.6850] {5.0 CV}	0.073 ng/mL [0.078] {9.9 CV}		0.000 - 0.400	F03
AB34013	Saxitoxin (PSP) ELISA	0.851 Abs	0.048 ng/mL		0.000 - 0.400	G03
AB34013	Saxitoxin (PSP) ELISA	0.965 Abs [0.9080] {8.9 CV}	0.033 ng/mL [0.041] {26.2 CV}		0.000 - 0.400	H03
AB34015	Saxitoxin (PSP) ELISA	1.208 Abs	0.003 ng/mL		0.000 - 0.400	A04
AB34015	Saxitoxin (PSP) ELISA	1.093 Abs [1.1505] {7.1 CV}	0.019 ng/mL [0.011] {102.9 CV}		0.000 - 0.400	B04
AB34010	Saxitoxin (PSP) ELISA	1.161 Abs	0.010 ng/mL		0.000 - 0.400	C04
AB34010	Saxitoxin (PSP) ELISA	1.330 Abs [1.2455] {9.6 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	D04
AB34017	Saxitoxin (PSP) ELISA	1.387 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	E04
AB34017	Saxitoxin (PSP) ELISA	1.426 Abs [1.4065] {2.0 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	F04
AB34011	Saxitoxin (PSP) ELISA	1.406 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	G04
AB34011	Saxitoxin (PSP) ELISA	1.394 Abs [1.4000] {0.6 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	H04
AB34016	Saxitoxin (PSP) ELISA	1.325 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	A05
AB34016	Saxitoxin (PSP) ELISA	1.210 Abs [1.2675] {6.4 CV}	0.003 ng/mL [< 0.000]	[Out(LR)]	0.000 - 0.400	B05
AB34016LD	Saxitoxin (PSP) ELISA	1.234 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	C05
AB34016LD	Saxitoxin (PSP) ELISA	1.348 Abs [1.2910] {6.2 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	D05
20180821LB	Saxitoxin (PSP) ELISA	1.280 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	E05
20180821LB	Saxitoxin (PSP) ELISA	1.404 Abs [1.3420] {6.5 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.000 - 0.400	F05

The data in this report is preliminary without a quality control report. This data is not warranted for accuracy or other purposes.

Laboratory Analyst Signature

8/23/2018

Date



Assay Calibration Report

Assay Information

Assay Name: Saxitoxin (PSP) ELISA
Assay Mode: 4-Parameter Logistic Weight by:None
Normal: 0.000 - 0.400
Linear: 0.000 - 0.400

Units: ng/mL
of decimals: 3
Assay Description: 1X

Controls:
Normal Control
Standards:
Std1, Concentration = 0.000, Minimum number to use: 2
Std2, Concentration = 0.020, Minimum number to use: 2
Std3, Concentration = 0.050, Minimum number to use: 2
Std4, Concentration = 0.100, Minimum number to use: 2
Std5, Concentration = 0.200, Minimum number to use: 2
Std6, Concentration = 0.400, Minimum number to use: 2
Curve valid interval: 7 days 0 hours

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/23/2018 9:21:02 AM			
Std1	1.216 Abs	0.002 ng/mL	A01
Std1	1.238 Abs	< 0.000 ng/mL	B01
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Std2	1.057 Abs	0.020 ng/mL	D01
Std3	0.790 Abs	0.053 ng/mL	E01
Std3	0.834 Abs	0.046 ng/mL	F01
Std4	0.549 Abs	0.105 ng/mL	G01
Std4	0.578 Abs	0.096 ng/mL	H01
Std5	0.359 Abs	0.216 ng/mL	A02
Std5	0.382 Abs	0.193 ng/mL	B02
Std6	0.274 Abs	0.384 ng/mL	C02
Std6	0.273 Abs	0.388 ng/mL	D02
8/23/2018 9:21:02 AM			
Normal Control	0.697 Abs	0.068 ng/mL	F02
Normal Control	0.696 Abs	0.068 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.227	0.016	1.27				
Std2	1.055	0.004	0.34	0.021	0.001	3.45	5.00
Std3	0.812	0.031	3.83	0.049	0.005	10.00	-2.00
Std4	0.564	0.021	3.64	0.101	0.006	6.33	1.00
Std5	0.370	0.016	4.39	0.205	0.016	7.95	2.50
Std6	0.273	0.001	0.26	0.386	0.003	0.73	-3.50
Normal Control	0.697	0.001	0.10	0.068	0.000	0.00	

