



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB32890	Potato Creek State Park	5/21/2018	5/22/2018	< 0.060
AB32891	Lost Bridge West SRA	5/21/2018	5/22/2018	< 0.060
AB32892	Mississinewa Lake Miami SRA	5/21/2018	5/22/2018	< 0.060
AB32888	Potato Creek (Field Duplicate)	5/21/2018	5/22/2018	< 0.060
AB32889	Field Blank	5/21/2018	5/22/2018	< 0.060
AB32884	Southern Basin Inn's Beach	5/21/2018	5/22/2018	< 0.060
AB32885	Pokagon State Park	5/21/2018	5/22/2018	< 0.060
AB32886	Chain O'Lakes State Park	5/21/2018	5/22/2018	< 0.060
AB32887	Kunkel Beach @ Quabache State Park	5/21/2018	5/22/2018	< 0.060
AB32882	Southern Basin Inn (Field Duplicate)	5/21/2018	5/22/2018	< 0.060
AB32883	Field Blank	5/21/2018	5/22/2018	< 0.060
AB32887LD	Kunkel Beach (Lab Duplicate)	5/21/2018	5/22/2018	< 0.060
20180521LB	Lab Blank	5/21/2018	5/22/2018	< 0.060



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
5/22/2018 2:18:42 PM						
Std1	Saxitoxin (PSP) ELISA	1.087 Abs	< 0.000 ng/mL		0.000	A01
Std1	Saxitoxin (PSP) ELISA	1.091 Abs	< 0.000 ng/mL		0.000	B01
Std2	Saxitoxin (PSP) ELISA	0.759 Abs	0.052 ng/mL		0.020	C01
Std2	Saxitoxin (PSP) ELISA	1.072 Abs	0.002 ng/mL		0.020	D01
Std3	Saxitoxin (PSP) ELISA	0.754 Abs	0.053 ng/mL		0.050	E01
Std3	Saxitoxin (PSP) ELISA	0.816 Abs	0.039 ng/mL		0.050	F01
Std4	Saxitoxin (PSP) ELISA	0.605 Abs	0.106 ng/mL		0.100	G01
Std4	Saxitoxin (PSP) ELISA	0.613 Abs	0.103 ng/mL		0.100	H01
Std5	Saxitoxin (PSP) ELISA	0.512 Abs	0.169 ng/mL		0.200	A02
Std5	Saxitoxin (PSP) ELISA	0.447 Abs	0.248 ng/mL		0.200	B02
Std6	Saxitoxin (PSP) ELISA	0.398 Abs	0.354 ng/mL		0.400	C02
Std6	Saxitoxin (PSP) ELISA	0.375 Abs	> 0.400 ng/mL		0.400	D02
Normal Control	Saxitoxin (PSP) ELISA	0.602 Abs	0.108 ng/mL			E02
Normal Control	Saxitoxin (PSP) ELISA	0.690 Abs	0.072 ng/mL			F02
AB32890	Saxitoxin (PSP) ELISA	1.034 Abs	0.007 ng/mL		0.000 - 0.400	G02
AB32890	Saxitoxin (PSP) ELISA	1.034 Abs [1.0340] {0.0 CV}	0.007 ng/mL [0.007] {0.0 CV}		0.000 - 0.400	H02
AB32891	Saxitoxin (PSP) ELISA	0.850 Abs	0.036 ng/mL		0.000 - 0.400	A03
AB32891	Saxitoxin (PSP) ELISA	0.698 Abs [0.7740] {13.9 CV}	0.076 ng/mL [0.053] {50.5 CV}		0.000 - 0.400	B03
AB32892	Saxitoxin (PSP) ELISA	0.879 Abs	0.031 ng/mL		0.000 - 0.400	C03
AB32892	Saxitoxin (PSP) ELISA	0.751 Abs [0.8150] {11.1 CV}	0.059 ng/mL [0.043] {44.0 CV}		0.000 - 0.400	D03
AB32888	Saxitoxin (PSP) ELISA	1.056 Abs	0.004 ng/mL		0.000 - 0.400	E03
AB32888	Saxitoxin (PSP) ELISA	1.051 Abs [1.0535] {0.3 CV}	0.004 ng/mL [0.004] {0.0 CV}		0.000 - 0.400	F03
AB32889	Saxitoxin (PSP) ELISA	1.031 Abs	0.007 ng/mL		0.000 - 0.400	G03
AB32889	Saxitoxin (PSP) ELISA	0.939 Abs [0.9850] {6.6 CV}	0.020 ng/mL [0.013] {68.1 CV}		0.000 - 0.400	H03
AB32884	Saxitoxin (PSP) ELISA	0.822 Abs	0.042 ng/mL		0.000 - 0.400	A04
AB32884	Saxitoxin (PSP) ELISA	0.870 Abs [0.8460] {4.0 CV}	0.032 ng/mL [0.036] {19.1 CV}		0.000 - 0.400	B04
AB32885	Saxitoxin (PSP) ELISA	1.028 Abs	0.008 ng/mL		0.000 - 0.400	C04
AB32885	Saxitoxin (PSP) ELISA	0.903 Abs [0.9655] {9.2 CV}	0.026 ng/mL [0.016] {74.9 CV}		0.000 - 0.400	D04
AB32886	Saxitoxin (PSP) ELISA	0.973 Abs	0.015 ng/mL		0.000 - 0.400	E04
AB32886	Saxitoxin (PSP) ELISA	0.880 Abs [0.9265] {7.1 CV}	0.030 ng/mL [0.022] {47.1 CV}		0.000 - 0.400	F04
AB32887	Saxitoxin (PSP) ELISA	0.949 Abs	0.019 ng/mL		0.000 - 0.400	G04
AB32887	Saxitoxin (PSP) ELISA	1.152 Abs [1.0505] {13.7 CV}	< 0.000 ng/mL [0.004]	Out(LR)	0.000 - 0.400	H04
AB32882	Saxitoxin (PSP) ELISA	0.898 Abs	0.026 ng/mL		0.000 - 0.400	A05
AB32882	Saxitoxin (PSP) ELISA	1.008 Abs [0.9530] {8.2 CV}	0.010 ng/mL [0.018] {62.9 CV}		0.000 - 0.400	B05
AB32883	Saxitoxin (PSP) ELISA	0.991 Abs	0.012 ng/mL		0.000 - 0.400	C05
AB32883	Saxitoxin (PSP) ELISA	0.895 Abs [0.9430] {7.2 CV}	0.027 ng/mL [0.020] {54.4 CV}		0.000 - 0.400	D05
AB32887LD	Saxitoxin (PSP) ELISA	0.911 Abs	0.024 ng/mL		0.000 - 0.400	E05
AB32887LD	Saxitoxin (PSP) ELISA	1.169 Abs [1.0400] {17.5 CV}	< 0.000 ng/mL [0.005]	Out(LR)	0.000 - 0.400	F05
20180521LB	Saxitoxin (PSP) ELISA	1.089 Abs	< 0.000 ng/mL	Out(LR)	0.000 - 0.400	G05
20180521LB	Saxitoxin (PSP) ELISA	0.896 Abs [0.9925] {13.8 CV}	0.027 ng/mL [0.012]		0.000 - 0.400	H05

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

David Jordan

Laboratory Analyst Signature

5/22/18

Date



Assay Calibration Report

Assay Information

Assay Name: Saxitoxin (PSP) ELISA Units: ng/mL
Assay Mode: 4-Parameter Logistic Weight # of decimals: 3
Normal: 0.000 - 0.400 Assay Description:
Linear: 0.000 - 0.400

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
5/22/2018 2:18:42 PM			
Std1	1.087 Abs	< 0.000 ng/mL	A01
Std1	1.091 Abs	< 0.000 ng/mL	B01
Std2	0.759 Abs	0.052 ng/mL	C01
Std2	1.072 Abs	0.002 ng/mL	D01
Std3	0.754 Abs	0.053 ng/mL	E01
Std3	0.816 Abs	0.039 ng/mL	F01
Std4	0.605 Abs	0.106 ng/mL	G01
Std4	0.613 Abs	0.103 ng/mL	H01
Std5	0.512 Abs	0.169 ng/mL	A02
Std5	0.447 Abs	0.248 ng/mL	B02
Std6	0.398 Abs	0.354 ng/mL	C02
Std6	0.375 Abs	> 0.400 ng/mL	D02
5/22/2018 2:18:42 PM			
Normal Control	0.690 Abs	0.072 ng/mL	F02
Normal Control	0.602 Abs	0.108 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.089	0.003	0.26				
Std2	0.916	0.221	24.18	0.027	0.035	130.95	35.00
Std3	0.785	0.044	5.58	0.046	0.010	21.52	-8.00
Std4	0.609	0.006	0.93	0.104	0.002	2.03	4.00
Std5	0.479	0.046	9.59	0.208	0.056	26.79	4.00
Std6	0.387	0.016	4.21				-100.00
Normal Control	0.646	0.062	9.63	0.090	0.025	28.28	

