



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC44191	Cecil M. Harden Lake - Raccoon Lake SRA Beach	5/12/2025	5/15/2025	< 0.050
AC44192	Cagles Mill Lake - Lieber SRA Beach	5/12/2025	5/15/2025	< 0.050
AC44193	Monroe Lake - Fairfax SRA Beach	5/12/2025	5/15/2025	< 0.050
AC44194	Monroe Lake - Paynetown SRA Beach	5/12/2025	5/15/2025	< 0.050
AC44195	Starve Hollow SRA - Starve Hollow Lake Beach	5/12/2025	5/15/2025	< 0.050
AC44196	Whitewater Memorial SP - Whitewater Lake Beach	5/13/2025	5/15/2025	< 0.050
AC44197	Brookville Lake - Quakertown SRA Beach	5/13/2025	5/15/2025	< 0.050
AC44198	Brookville Lake - Mounds SRA Beach	5/13/2025	5/15/2025	< 0.050
AC44199	Hardy Lake SRA - Hardy Lake SRA Beach	5/13/2025	5/15/2025	< 0.050
AC44200	Deam Lake SRA - Deam Lake Beach	5/13/2025	5/15/2025	< 0.050
AC44201	Cecil M. Harden Lake - Raccoon Lake SRA Beach (Field Duplicate)	5/12/2025	5/15/2025	< 0.050
AC44202	Field Blank	5/12/2025	5/15/2025	< 0.050
AC44203	Ft. Ben Harrison SP Dog Lake	5/12/2025	5/15/2025	< 0.050

Test Report (by Request)

Test Information

Request: 5/15/2025 1:56:42 PM
Date: 5/15/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
STX Std 0	SAXITOXIN	1.256 Abs	0.001 µg/L	R^2=0.99998, 99.6%		0.000	Kit:250650
STX Std 0	SAXITOXIN	1.265 Abs [1.2605] {0.5 C	0.000 µg/L [0.001]	R^2=0.99998, 100.3%		0.000	Kit:250650
STX Std 1	SAXITOXIN	1.080 Abs	0.020 µg/L	R^2=0.99998, 85.6%		0.020	Kit:250650
STX Std 1	SAXITOXIN	1.071 Abs [1.0755] {0.6 C	0.020 µg/L [0.020]	R^2=0.99998, 84.9%		0.020	Kit:250650
STX Std 2	SAXITOXIN	0.824 Abs	0.048 µg/L	R^2=0.99998, 65.3%		0.050	Kit:250650
STX Std 2	SAXITOXIN	0.799 Abs [0.8115] {2.2 C	0.052 µg/L [0.050]	R^2=0.99998, 63.3%		0.050	Kit:250650
STX Std 3	SAXITOXIN	0.562 Abs	0.098 µg/L	R^2=0.99998, 44.5%		0.100	Kit:250650
STX Std 3	SAXITOXIN	0.544 Abs [0.5530] {2.3 C	0.103 µg/L [0.101]	R^2=0.99998, 43.1%		0.100	Kit:250650
STX Std 4	SAXITOXIN	0.350 Abs	0.196 µg/L	R^2=0.99998, 27.7%		0.200	Kit:250650
STX Std 4	SAXITOXIN	0.346 Abs [0.3480] {0.8 C	0.199 µg/L [0.198]	R^2=0.99998, 27.4%		0.200	Kit:250650
STX Std 5	SAXITOXIN	0.222 Abs	0.392 µg/L	R^2=0.99998, 17.6%		0.400	Kit:250650
STX Std 5	SAXITOXIN	0.213 Abs [0.2175] {2.9 C	> 0.400 µg/L [0.39]	16.891 %Abs		0.400	Kit:250650
STX Control (0.060-0.090)	SAXITOXIN	0.712 Abs	0.066 µg/L	56.463 %Abs			Kit:250650
STX Control (0.060-0.090)	SAXITOXIN	0.699 Abs [0.7055] {1.3 C	0.068 µg/L [0.067]	55.432 %Abs [55.9			Kit:250650

Note

Signature

Charles Hostetter

Charles Hostetter 5/15/2025

Test Report (by Request)

Test Information

Request: 5/15/2025 1:57:54 PM
Date: 5/15/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	SAXITOXIN	1.253 Abs	0.002 µg/L	Low, 99.366 %Abs		0.020 - 0.400	Kit:25065(
LRB	SAXITOXIN	1.253 Abs [1.2530] {0.0 C	0.002 µg/L [0.002]	Low, 99.366 %Abs		0.020 - 0.400	Kit:25065(
LFB (SAX)	SAXITOXIN	0.559 Abs	0.099 µg/L	44.330 %Abs		0.020 - 0.400	Kit:25065(
LFB (SAX)	SAXITOXIN	0.559 Abs [0.5590] {0.0 C	0.099 µg/L [0.099]	44.330 %Abs [44.3		0.020 - 0.400	Kit:25065(
AC44191	SAXITOXIN	1.222 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44191	SAXITOXIN	1.224 Abs [1.2230] {0.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44192	SAXITOXIN	1.234 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44192	SAXITOXIN	1.212 Abs [1.2230] {1.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44193	SAXITOXIN	1.262 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44193	SAXITOXIN	1.263 Abs [1.2625] {0.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44194	SAXITOXIN	1.243 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44194	SAXITOXIN	1.234 Abs [1.2385] {0.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44195	SAXITOXIN	1.234 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44195	SAXITOXIN	1.225 Abs [1.2295] {0.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44196	SAXITOXIN	1.226 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44196	SAXITOXIN	1.208 Abs [1.2170] {1.0 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44196MS	SAXITOXIN	0.564 Abs	0.098 µg/L	44.726 %Abs		0.020 - 0.400	Kit:25065(
AC44196MS	SAXITOXIN	0.534 Abs [0.5490] {3.9 C	0.106 µg/L [0.102]	42.347 %Abs [43.5		0.020 - 0.400	Kit:25065(
AC44196MSD	SAXITOXIN	0.563 Abs	0.098 µg/L	44.647 %Abs		0.020 - 0.400	Kit:25065(
AC44196MSD	SAXITOXIN	0.555 Abs [0.5590] {1.0 C	0.100 µg/L [0.099]	44.013 %Abs [44.3		0.020 - 0.400	Kit:25065(
AC44197	SAXITOXIN	1.239 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44197	SAXITOXIN	1.216 Abs [1.2275] {1.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44198	SAXITOXIN	1.193 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44198	SAXITOXIN	1.205 Abs [1.1990] {0.7 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44199	SAXITOXIN	1.244 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44199	SAXITOXIN	1.244 Abs [1.2440] {0.0 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44200	SAXITOXIN	1.267 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44200	SAXITOXIN	1.251 Abs [1.2590] {0.9 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44201	SAXITOXIN	1.237 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44201	SAXITOXIN	1.234 Abs [1.2355] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44202	SAXITOXIN	1.260 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44202	SAXITOXIN	1.267 Abs [1.2635] {0.4 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44203	SAXITOXIN	1.203 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC44203	SAXITOXIN	1.183 Abs [1.1930] {1.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(

Note



Signature

Assay Information

Assay Name: SAXITOXIN
Version: 2
Temperature: Room Temperature
Last Modified By: Security disabled
Units: µg/L
Assay Description: PN. 52255B
Assay Substances: Controls:

Assay Mode: 4-Parameter Logistic Weight by:None
Well Type: Flat bottom
Last Modified On: 7/25/2019 3:55:28 PM
Normal: 0.020 - 0.400
of decimals: 3
Kit Lot Number: Kit:2506505967

STX Control (0.060-0.090)
Standards:
STX Std 0, Concentration = 0.000, Minimum number to use: 2
STX Std 1, Concentration = 0.020, Minimum number to use: 2
STX Std 2, Concentration = 0.050, Minimum number to use: 2
STX Std 3, Concentration = 0.100, Minimum number to use: 2
STX Std 4, Concentration = 0.200, Minimum number to use: 2
STX Std 5, Concentration = 0.400, Minimum number to use: 2
Curve valid interval: 1 days 0 hours
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration

Current Calibration Status: "

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Name	Absorbance	Concentration	Interpretation	Position	
5/15/2025 1:56:42 PM					
STX Std 0	1.256 Abs	0.001 µg/L	R^2=0.99998, 99.603 %Abs	RK1:30->A07@2	
STX Std 0	1.265 Abs [1.2605] {0.5 CV}	0.000 µg/L [0.001] {141.4 CV}	R^2=0.99998, 100.317 %Abs	RK1:30->B07@2	
STX Std 1	1.080 Abs	0.020 µg/L	R^2=0.99998, 85.646 %Abs	RK1:31->C07@2	
STX Std 1	1.071 Abs [1.0755] {0.6 CV}	0.020 µg/L [0.020] {0.0 CV}	R^2=0.99998, 84.933 %Abs	RK1:31->D07@2	
STX Std 2	0.824 Abs	0.048 µg/L	R^2=0.99998, 65.345 %Abs	RK1:32->E07@2	
STX Std 2	0.799 Abs [0.8115] {2.2 CV}	0.052 µg/L [0.050] {5.7 CV}	R^2=0.99998, 63.362 %Abs	RK1:32->F07@3	
STX Std 3	0.562 Abs	0.098 µg/L	R^2=0.99998, 44.568 %Abs	RK1:33->G07@3	
STX Std 3	0.544 Abs [0.5530] {2.3 CV}	0.103 µg/L [0.101] {3.5 CV}	R^2=0.99998, 43.140 %Abs	RK1:33->H07@3	
STX Std 4	0.350 Abs	0.196 µg/L	R^2=0.99998, 27.756 %Abs	RK1:34->A08@2	
STX Std 4	0.346 Abs [0.3480] {0.8 CV}	0.199 µg/L [0.198] {1.1 CV}	R^2=0.99998, 27.439 %Abs	RK1:34->B08@2	
STX Std 5	0.222 Abs	0.392 µg/L	R^2=0.99998, 17.605 %Abs	RK1:35->C08@2	
STX Std 5	0.213 Abs [0.2175] {2.9 CV}	> 0.400 µg/L [0.392]	16.891 %Abs	RK1:35->D08@2	

5/15/2025 1:56:42 PM					
STX Control (0.060-0.090)	0.712 Abs	0.066 µg/L	56.463 %Abs	RK1:36->E08@2	
STX Control (0.060-0.090)	0.699 Abs [0.7055] {1.3 CV}	0.068 µg/L [0.067] {2.1 CV}	55.432 %Abs [55.948 %Abs]	RK1:36->F08@3	

Statistic					
STX Std 0 [MEAN]	1.2605	0.0005			
STX Std 0 [SD]	0.0064	0.0007			
STX Std 0 [%CV]	0.5049	141.4214			
STX Std 1 [MEAN]	1.0755	0.0200			
STX Std 1 [SD]	0.0064	0.0000			
STX Std 1 [%CV]	0.5917	0.0000			
STX Std 1 [%DIFF]		0.0000			
STX Std 2 [MEAN]	0.8115	0.0500			
STX Std 2 [SD]	0.0177	0.0028			
STX Std 2 [%CV]	2.1784	5.6569			
STX Std 2 [%DIFF]		-0.0000			
STX Std 3 [MEAN]	0.5530	0.1005			
STX Std 3 [SD]	0.0127	0.0035			
STX Std 3 [%CV]	2.3016	3.5179			
STX Std 3 [%DIFF]		0.5000			
STX Std 4 [MEAN]	0.3480	0.1975			
STX Std 4 [SD]	0.0028	0.0021			
STX Std 4 [%CV]	0.8128	1.0741			
STX Std 4 [%DIFF]		-1.2500			
STX Std 5 [MEAN]	0.2175				
STX Std 5 [SD]	0.0064				
STX Std 5 [%CV]	2.9260				

Name	Absorbance	Concentration	Interpretation	Position	
STX Control (0.060-0.090) [MEAN]	0.7055	0.0670			
STX Control (0.060-0.090) [SD]	0.0092	0.0014			
STX Control (0.060-0.090) [%CV]	1.3030	2.1108			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.2613
B = 1.3124
C = 0.069900
D = 0.11400
R2 coef = 0.99998
50% = 0.081

