



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC45783	Cecil M. Harden Lake - Raccoon Lake SRA Beach	7/7/2025	7/10/2025	< 0.050
AC45784	Cagles Mill Lake - Lieber SRA Beach	7/7/2025	7/10/2025	< 0.050
AC45785	Monroe Lake - Fairfax SRA Beach	7/7/2025	7/10/2025	< 0.050
AC45786	Monroe Lake - Paynetown SRA Beach	7/7/2025	7/10/2025	< 0.050
AC45787	Starve Hollow SRA - Starve Hollow Lake Beach	7/7/2025	7/10/2025	0.083
AC45788	Whitewater Memorial SP - Whitewater Lake Beach	7/8/2025	7/10/2025	< 0.050
AC45789	Brookville Lake - Quakertown SRA Beach	7/8/2025	7/10/2025	< 0.050
AC45790	Brookville Lake - Mounds SRA Beach	7/8/2025	7/10/2025	< 0.050
AC45791	Hardy Lake SRA - Hardy Lake SRA Beach	7/8/2025	7/10/2025	< 0.050
AC45792	Deam Lake SRA - Deam Lake Beach	7/8/2025	7/10/2025	< 0.050
AC45793	Hardy Lake SRA - Hardy Lake SRA Beach (Field Duplicate)	7/8/2025	7/10/2025	< 0.050
AC45794	Field Blank	7/8/2025	7/10/2025	< 0.050
AC45795	Ft. Ben Harrison SP Dog Lake	7/7/2025	7/10/2025	< 0.050

Test Report (by Request)

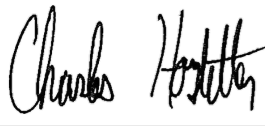
Test Information

Request: 7/10/2025 2:49:51 PM
Date: 7/10/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
STX Std 0	SAXITOXIN	1.629 Abs	0.002 µg/L	R^2=0.99986, 99.26		0.000	Kit:250650
STX Std 0	SAXITOXIN	1.652 Abs [1.6405] {1.0 C	0.000 µg/L [0.001]	R^2=0.99986, 100.6		0.000	Kit:250650
STX Std 1	SAXITOXIN	1.410 Abs	0.020 µg/L	R^2=0.99986, 85.92		0.020	Kit:250650
STX Std 1	SAXITOXIN	1.405 Abs [1.4075] {0.3 C	0.020 µg/L [0.020]	R^2=0.99986, 85.61		0.020	Kit:250650
STX Std 2	SAXITOXIN	1.081 Abs	0.049 µg/L	R^2=0.99986, 65.87		0.050	Kit:250650
STX Std 2	SAXITOXIN	1.063 Abs [1.0720] {1.2 C	0.051 µg/L [0.050]	R^2=0.99986, 64.77		0.050	Kit:250650
STX Std 3	SAXITOXIN	0.741 Abs	0.100 µg/L	R^2=0.99986, 45.15		0.100	Kit:250650
STX Std 3	SAXITOXIN	0.723 Abs [0.7320] {1.7 C	0.104 µg/L [0.102]	R^2=0.99986, 44.05		0.100	Kit:250650
STX Std 4	SAXITOXIN	0.472 Abs	0.192 µg/L	R^2=0.99986, 28.76		0.200	Kit:250650
STX Std 4	SAXITOXIN	0.463 Abs [0.4675] {1.4 C	0.197 µg/L [0.195]	R^2=0.99986, 28.21		0.200	Kit:250650
STX Std 5	SAXITOXIN	0.290 Abs	0.387 µg/L	R^2=0.99986, 17.67		0.400	Kit:250650
STX Std 5	SAXITOXIN	0.268 Abs [0.2790] {5.6 C	> 0.400 µg/L [0.38	16.332 %Abs		0.400	Kit:250650
STX Control (0.060-0.090)	SAXITOXIN	0.940 Abs	0.066 µg/L	57.282 %Abs			Kit:250650
STX Control (0.060-0.090)	SAXITOXIN	0.931 Abs [0.9355] {0.7 C	0.067 µg/L [0.067]	56.734 %Abs [57.0			Kit:250650

Note

* A - Abs > 3; IA - Initial Abs; DA - Delta Abs; SD - SD of Abs; LR - Linear Range; [...] - Mean result of duplicate tests
* Generated by software version (6.4.1.1171/1085/1.00/0.95) 7/10/2025 3:01:42 PM

Signature 

Charles Hostetter 7/10/2025

Test Information

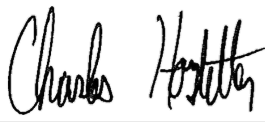
Request: 7/10/2025 2:51:07 PM

Date: 7/10/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	SAXITOXIN	1.653 Abs	0.000 µg/L	Low, 100.731 %Abs		0.020 - 0.400	Kit:25065(
LRB	SAXITOXIN	1.658 Abs [1.6555] {0.2 C	0.000 µg/L [0.000]	Low, 101.036 %Abs		0.020 - 0.400	Kit:25065(
LFB (SAX)	SAXITOXIN	0.764 Abs	0.095 µg/L	46.557 %Abs		0.020 - 0.400	Kit:25065(
LFB (SAX)	SAXITOXIN	0.728 Abs [0.7460] {3.4 C	0.103 µg/L [0.099]	44.363 %Abs [45.4		0.020 - 0.400	Kit:25065(
AC45783	SAXITOXIN	1.601 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45783	SAXITOXIN	1.636 Abs [1.6185] {1.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45784	SAXITOXIN	1.505 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45784	SAXITOXIN	1.513 Abs [1.5090] {0.4 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45785	SAXITOXIN	1.611 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45785	SAXITOXIN	1.631 Abs [1.6210] {0.9 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45786	SAXITOXIN	1.592 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45786	SAXITOXIN	1.583 Abs [1.5875] {0.4 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45787	SAXITOXIN	0.886 Abs	0.081 µg/L	53.991 %Abs	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45787	SAXITOXIN	0.871 Abs [0.8785] {1.2 C	0.084 µg/L [0.083]	53.077 %Abs [53.5	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45787MS	SAXITOXIN	0.514 Abs	0.170 µg/L	31.322 %Abs		0.020 - 0.400	Kit:25065(
AC45787MS	SAXITOXIN	0.520 Abs [0.5170] {0.8 C	0.167 µg/L [0.169]	31.688 %Abs [31.5		0.020 - 0.400	Kit:25065(
AC45787MSD	SAXITOXIN	0.520 Abs	0.167 µg/L	31.688 %Abs		0.020 - 0.400	Kit:25065(
AC45787MSD	SAXITOXIN	0.516 Abs [0.5180] {0.5 C	0.169 µg/L [0.168]	31.444 %Abs [31.5		0.020 - 0.400	Kit:25065(
AC45788	SAXITOXIN	1.573 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45788	SAXITOXIN	1.558 Abs [1.5655] {0.7 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45789	SAXITOXIN	1.510 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45789	SAXITOXIN	1.512 Abs [1.5110] {0.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45790	SAXITOXIN	1.494 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45790	SAXITOXIN	1.498 Abs [1.4960] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45791	SAXITOXIN	1.552 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45791	SAXITOXIN	1.558 Abs [1.5550] {0.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45792	SAXITOXIN	1.635 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45792	SAXITOXIN	1.631 Abs [1.6330] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45793	SAXITOXIN	1.537 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45793	SAXITOXIN	1.574 Abs [1.5555] {1.7 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45794	SAXITOXIN	1.665 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45794	SAXITOXIN	1.696 Abs [1.6805] {1.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45795	SAXITOXIN	1.547 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(
AC45795	SAXITOXIN	1.583 Abs [1.5650] {1.6 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.020 - 0.400	Kit:25065(

Note

Signature



* A - Abs > 3; IA - Initial Abs; DA - Delta Abs; SD - SD of Abs; LR - Linear Range; [...] - Mean result of duplicate tests

* Generated by software version (6.4.1.1171/1085/1.00/0.95) 7/10/2025 3:01:42 PM

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: "

"

Name	Absorbance	Concentration	Interpretation	Position	
7/10/2025 2:49:51 PM					
STX Std 0	1.629 Abs	0.002 µg/L	R ² =0.99986, 99.269 %Abs	RK1:30->A07@2	
STX Std 0	1.652 Abs [1.6405] {1.0 CV}	0.000 µg/L [0.001] {141.4 CV}	R ² =0.99986, 100.670 %Abs	RK1:30->B07@2	
STX Std 1	1.410 Abs	0.020 µg/L	R ² =0.99986, 85.923 %Abs	RK1:31->C07@2	
STX Std 1	1.405 Abs [1.4075] {0.3 CV}	0.020 µg/L [0.020] {0.0 CV}	R ² =0.99986, 85.619 %Abs	RK1:31->D07@2	
STX Std 2	1.081 Abs	0.049 µg/L	R ² =0.99986, 65.874 %Abs	RK1:32->E07@2	
STX Std 2	1.063 Abs [1.0720] {1.2 CV}	0.051 µg/L [0.050] {2.8 CV}	R ² =0.99986, 64.778 %Abs	RK1:32->F07@3	
STX Std 3	0.741 Abs	0.100 µg/L	R ² =0.99986, 45.155 %Abs	RK1:33->G07@3	
STX Std 3	0.723 Abs [0.7320] {1.7 CV}	0.104 µg/L [0.102] {2.8 CV}	R ² =0.99986, 44.059 %Abs	RK1:33->H07@3	
STX Std 4	0.472 Abs	0.192 µg/L	R ² =0.99986, 28.763 %Abs	RK1:34->A08@2	
STX Std 4	0.463 Abs [0.4675] {1.4 CV}	0.197 µg/L [0.195] {1.8 CV}	R ² =0.99986, 28.215 %Abs	RK1:34->B08@2	
STX Std 5	0.290 Abs	0.387 µg/L	R ² =0.99986, 17.672 %Abs	RK1:35->C08@2	
STX Std 5	0.268 Abs [0.2790] {5.6 CV}	> 0.400 µg/L [0.387]	16.332 %Abs	RK1:35->D08@2	

7/10/2025 2:49:51 PM					
STX Control (0.060-0.090)	0.940 Abs	0.066 µg/L	57.282 %Abs	RK1:36->E08@2	
STX Control (0.060-0.090)	0.931 Abs [0.9355] {0.7 CV}	0.067 µg/L [0.067] {1.1 CV}	56.734 %Abs [57.008 %Abs]	RK1:36->F08@3	

Statistic					
STX Std 0 [MEAN]	1.6405	0.0010			
STX Std 0 [SD]	0.0163	0.0014			
STX Std 0 [%CV]	0.9914	141.4214			
STX Std 1 [MEAN]	1.4075	0.0200			
STX Std 1 [SD]	0.0035	0.0000			
STX Std 1 [%CV]	0.2512	0.0000			
STX Std 1 [%DIFF]		0.0000			
STX Std 2 [MEAN]	1.0720	0.0500			
STX Std 2 [SD]	0.0127	0.0014			
STX Std 2 [%CV]	1.1873	2.8284			
STX Std 2 [%DIFF]		-0.0000			
STX Std 3 [MEAN]	0.7320	0.1020			
STX Std 3 [SD]	0.0127	0.0028			
STX Std 3 [%CV]	1.7388	2.7730			
STX Std 3 [%DIFF]		2.0000			
STX Std 4 [MEAN]	0.4675	0.1945			
STX Std 4 [SD]	0.0064	0.0035			
STX Std 4 [%CV]	1.3613	1.8178			
STX Std 4 [%DIFF]		-2.7500			
STX Std 5 [MEAN]	0.2790				
STX Std 5 [SD]	0.0156				
STX Std 5 [%CV]	5.5757				

Name	Absorbance	Concentration	Interpretation	Position	
STX Control (0.060-0.090) [MEAN]	0.9355	0.0665			
STX Control (0.060-0.090) [SD]	0.0064	0.0007			
STX Control (0.060-0.090) [%CV]	0.6803	1.0633			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.6423
B = 1.2906
C = 0.073649
D = 0.13101
R2 coef = 0.99986
50% = 0.084

