



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC46122	Cecil M. Harden Lake - Raccoon Lake SRA Beach	8/4/2025	8/6/2025	< 0.40
AC46123	Cagles Mill Lake - Lieber SRA Beach	8/4/2025	8/6/2025	< 0.40
AC46124	Monroe Lake - Fairfax SRA Beach	8/4/2025	8/6/2025	< 0.40
AC46125	Monroe Lake - Paynetown SRA Beach	8/4/2025	8/6/2025	< 0.40
AC46126	Starve Hollow SRA - Starve Hollow Lake Beach	8/4/2025	8/6/2025	< 0.40
AC46127	Whitewater Memorial SP - Whitewater Lake Beach	8/5/2025	8/6/2025	< 0.40
AC46128	Brookville Lake - Quakertown SRA Beach	8/5/2025	8/6/2025	< 0.40
AC46129	Brookville Lake - Mounds SRA Beach	8/5/2025	8/6/2025	< 0.40
AC46130	Hardy Lake SRA - Hardy Lake SRA Beach	8/5/2025	8/6/2025	< 0.40
AC46131	Deam Lake SRA - Deam Lake Beach	8/5/2025	8/6/2025	< 0.40
AC46132	Brookville Lake - Mounds SRA Beach (Field Duplicate)	8/5/2025	8/6/2025	< 0.40
AC46133	Field Blank	8/5/2025	8/6/2025	< 0.40
AC46134	Ft. Ben Harrison SP Dog Lake	8/4/2025	8/6/2025	< 0.40
AC46147	Mississinewa Lake - Miami SRA Beach	8/4/2025	8/6/2025	< 0.40

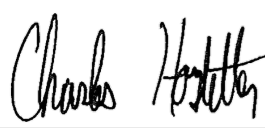
Test Report (by Request)

Test Information

Request: 8/6/2025 12:53:44 PM
Date: 8/6/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
ATX Std 0	ANATOXIN	1.732 Abs	0.000 µg/L	R^2=0.99934, 101.1		0.000	Kit:25065
ATX Std 0	ANATOXIN	1.693 Abs [1.7125] {1.6 C	0.007 µg/L [0.004]	R^2=0.99934, 98.83		0.000	Kit:25065
ATX Std 1	ANATOXIN	1.437 Abs	0.118 µg/L	R^2=0.99934, 83.88		0.150	Kit:25065
ATX Std 1	ANATOXIN	1.340 Abs [1.3885] {4.9 C	0.175 µg/L [0.147]	R^2=0.99934, 78.22		0.150	Kit:25065
ATX Std 2	ANATOXIN	1.072 Abs	0.397 µg/L	R^2=0.99934, 62.58		0.400	Kit:25065
ATX Std 2	ANATOXIN	1.056 Abs [1.0640] {1.1 C	0.415 µg/L [0.406]	R^2=0.99934, 61.64		0.400	Kit:25065
ATX Std 3	ANATOXIN	0.709 Abs	1.008 µg/L	R^2=0.99934, 41.38		1.000	Kit:25065
ATX Std 3	ANATOXIN	0.691 Abs [0.7000] {1.8 C	1.057 µg/L [1.033]	R^2=0.99934, 40.33		1.000	Kit:25065
ATX Std 4	ANATOXIN	0.437 Abs	2.221 µg/L	R^2=0.99934, 25.51		2.500	Kit:25065
ATX Std 4	ANATOXIN	0.419 Abs [0.4280] {3.0 C	2.362 µg/L [2.292]	R^2=0.99934, 24.46		2.500	Kit:25065
ATX Std 5	ANATOXIN	0.237 Abs	> 5.000 µg/L	13.835 %Abs		5.000	Kit:25065
ATX Std 5	ANATOXIN	0.220 Abs [0.2285] {5.3 C	> 5.000 µg/L	12.843 %Abs		5.000	Kit:25065
ATX Control	ANATOXIN	0.851 Abs	0.702 µg/L	49.679 %Abs			Kit:25065
ATX Control	ANATOXIN	0.833 Abs [0.8420] {1.5 C	0.734 µg/L [0.718]	48.628 %Abs [49.1			Kit:25065

Note

Signature 

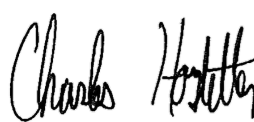
Test Report (by Request)

Test Information

Request: 8/6/2025 12:55:20 PM
Date: 8/6/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	ANATOXIN	1.393 Abs	0.142 µg/L	Low, 81.319 %Abs		0.150 - 5.000	Kit:25065(
LRB	ANATOXIN	1.487 Abs [1.4400] {4.6 C	0.092 µg/L [0.117]	Low, 86.807 %Abs		0.150 - 5.000	Kit:25065(
LFB (ANA)	ANATOXIN	0.882 Abs	0.649 µg/L	51.489 %Abs		0.150 - 5.000	Kit:25065(
LFB (ANA)	ANATOXIN	0.834 Abs [0.8580] {4.0 C	0.732 µg/L [0.691]	48.687 %Abs [50.0		0.150 - 5.000	Kit:25065(
AC46122	ANATOXIN	1.444 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46122	ANATOXIN	1.422 Abs [1.4330] {1.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46122MS	ANATOXIN	0.756 Abs	0.893 µg/L	44.133 %Abs		0.150 - 5.000	Kit:25065(
AC46122MS	ANATOXIN	0.750 Abs [0.7530] {0.6 C	0.907 µg/L [0.900]	43.783 %Abs [43.9		0.150 - 5.000	Kit:25065(
AC46122MSD	ANATOXIN	0.699 Abs	1.035 µg/L	40.806 %Abs		0.150 - 5.000	Kit:25065(
AC46122MSD	ANATOXIN	0.723 Abs [0.7110] {2.4 C	0.972 µg/L [1.004]	42.207 %Abs [41.5		0.150 - 5.000	Kit:25065(
AC46123	ANATOXIN	1.544 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46123	ANATOXIN	1.518 Abs [1.5310] {1.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46124	ANATOXIN	1.461 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46124	ANATOXIN	1.424 Abs [1.4425] {1.8 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46125	ANATOXIN	1.434 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46125	ANATOXIN	1.421 Abs [1.4275] {0.6 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46126	ANATOXIN	1.370 Abs	0.172 µg/L	79.977 %Abs	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46126	ANATOXIN	1.443 Abs [1.4065] {3.7 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46127	ANATOXIN	1.496 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46127	ANATOXIN	1.483 Abs [1.4895] {0.6 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46128	ANATOXIN	1.534 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46128	ANATOXIN	1.562 Abs [1.5480] {1.3 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46129	ANATOXIN	1.497 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46129	ANATOXIN	1.517 Abs [1.5070] {0.9 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46130	ANATOXIN	1.283 Abs	0.234 µg/L	74.898 %Abs	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46130	ANATOXIN	1.255 Abs [1.2690] {1.6 C	0.257 µg/L [0.246]	73.263 %Abs [74.0	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46131	ANATOXIN	1.616 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46131	ANATOXIN	1.616 Abs [1.6160] {0.0 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46132	ANATOXIN	1.575 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46132	ANATOXIN	1.580 Abs [1.5775] {0.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46133	ANATOXIN	1.596 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46133	ANATOXIN	1.608 Abs [1.6020] {0.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46134	ANATOXIN	1.587 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46134	ANATOXIN	1.548 Abs [1.5675] {1.8 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46147	ANATOXIN	1.603 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(
AC46147	ANATOXIN	1.559 Abs [1.5810] {2.0 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:25065(

Note

Signature 

Assay Information

Assay Name: ANATOXIN
Version: 2
Temperature: Room Temperature
Last Modified By: Security disabled
Units: µg/L
Assay Description: PN 520060
Assay Substances: Controls:

Assay Mode: 4-Parameter Logistic Weight by:None
Well Type: Flat bottom
Last Modified On: 7/25/2019 3:49:23 PM
Normal: 0.150 - 5.000
of decimals: 3
Kit Lot Number: Kit:2506505967

ATX Control
Standards:
ATX Std 0, Concentration = 0.000, Minimum number to use: 2
ATX Std 1, Concentration = 0.150, Minimum number to use: 2
ATX Std 2, Concentration = 0.400, Minimum number to use: 2
ATX Std 3, Concentration = 1.000, Minimum number to use: 2
ATX Std 4, Concentration = 2.500, Minimum number to use: 2
ATX Std 5, Concentration = 5.000, 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
8/6/2025 12:53:44 PM				
ATX Std 0	1.732 Abs	0.000 µg/L	R ² =0.99934, 101.109 %Abs	RK1:23->A01@2
ATX Std 0	1.693 Abs [1.7125] {1.6 CV}	0.007 µg/L [0.004] {141.4 CV}	R ² =0.99934, 98.832 %Abs	RK1:23->B01@2
ATX Std 1	1.437 Abs	0.118 µg/L	R ² =0.99934, 83.888 %Abs	RK1:24->C01@2
ATX Std 1	1.340 Abs [1.3885] {4.9 CV}	0.175 µg/L [0.147] {27.5 CV}	R ² =0.99934, 78.225 %Abs	RK1:24->D01@2
ATX Std 2	1.072 Abs	0.397 µg/L	R ² =0.99934, 62.580 %Abs	RK1:25->E01@2
ATX Std 2	1.056 Abs [1.0640] {1.1 CV}	0.415 µg/L [0.406] {3.1 CV}	R ² =0.99934, 61.646 %Abs	RK1:25->F01@3
ATX Std 3	0.709 Abs	1.008 µg/L	R ² =0.99934, 41.389 %Abs	RK1:26->G01@3
ATX Std 3	0.691 Abs [0.7000] {1.8 CV}	1.057 µg/L [1.033] {3.4 CV}	R ² =0.99934, 40.339 %Abs	RK1:26->H01@3
ATX Std 4	0.437 Abs	2.221 µg/L	R ² =0.99934, 25.511 %Abs	RK1:27->A02@2
ATX Std 4	0.419 Abs [0.4280] {3.0 CV}	2.362 µg/L [2.292] {4.4 CV}	R ² =0.99934, 24.460 %Abs	RK1:27->B02@2
ATX Std 5	0.237 Abs	> 5.000 µg/L	13.835 %Abs	RK1:28->C02@2
ATX Std 5	0.220 Abs [0.2285] {5.3 CV}	> 5.000 µg/L	12.843 %Abs	RK1:28->D02@2

8/6/2025 12:53:44 PM				
ATX Control	0.851 Abs	0.702 µg/L	49.679 %Abs	RK1:29->E02@2
ATX Control	0.833 Abs [0.8420] {1.5 CV}	0.734 µg/L [0.718] {3.2 CV}	48.628 %Abs [49.154 %Abs]	RK1:29->F02@3

Statistic				
ATX Std 0 [MEAN]	1.7125	0.0035		
ATX Std 0 [SD]	0.0276	0.0049		
ATX Std 0 [%CV]	1.6103	141.4214		
ATX Std 1 [MEAN]	1.3885	0.1465		
ATX Std 1 [SD]	0.0686	0.0403		
ATX Std 1 [%CV]	4.9398	27.5120		
ATX Std 1 [%DIFF]		-2.3333		
ATX Std 2 [MEAN]	1.0640	0.4060		
ATX Std 2 [SD]	0.0113	0.0127		
ATX Std 2 [%CV]	1.0633	3.1350		
ATX Std 2 [%DIFF]		1.5000		
ATX Std 3 [MEAN]	0.7000	1.0325		
ATX Std 3 [SD]	0.0127	0.0346		
ATX Std 3 [%CV]	1.8183	3.3558		
ATX Std 3 [%DIFF]		3.2500		
ATX Std 4 [MEAN]	0.4280	2.2915		
ATX Std 4 [SD]	0.0127	0.0997		
ATX Std 4 [%CV]	2.9738	4.3510		
ATX Std 4 [%DIFF]		-8.3400		
ATX Std 5 [MEAN]	0.2285			
ATX Std 5 [SD]	0.0120			
ATX Std 5 [%CV]	5.2608			

Name	Absorbance	Concentration	Interpretation	Position	
ATX Control [MEAN]	0.8420	0.7180			
ATX Control [SD]	0.0127	0.0226			
ATX Control [%CV]	1.5116	3.1515			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.7156
B = 0.93101
C = 0.67797
D = 0.013406
R2 coef = 0.99934
50% = 0.692

