



## Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB25977	Fairfax SRA	6/28/2016	6/30/2016	< 0.15
AB25978	Paynetown SRA	6/28/2016	6/30/2016	< 0.15
AB25979	Hardy Lake SRA	6/28/2016	6/30/2016	< 0.15
AB25780	Raccoon Lake SRA	6/27/2016	6/30/2016	< 0.15
AB25981	Whitewater Memorial SP	6/27/2016	6/30/2016	< 0.15
AB25982	Quakertown SRA	6/27/2016	6/30/2016	< 0.15
AB25983	Mounds SRA	6/27/2016	6/30/2016	< 0.15
AB25983LD	Mounds SRA (Field Duplicate)	6/27/2016	6/30/2016	< 0.15
AB25984	Starve Hollow	6/28/2016	6/30/2016	< 0.15
AB25985	Deam Lake SRA	6/28/2016	6/30/2016	< 0.15
AB25986	Field Blank	6/27/2016	6/30/2016	< 0.15
AB25987	Whitewater Memorial SP (Field Duplicate)	6/27/2016	6/30/2016	< 0.15
20160627LB	Lab Blank	6/27/2016	6/30/2016	< 0.15



# Test Report

## Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/30/2016 12:47:53 PM						
Std1	Anatoxin a ELISA (2 rep)	1.768 Abs	< 0.000 ng/mL		0.000	A01
Std2	Anatoxin a ELISA (2 rep)	1.503 Abs	0.041 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.376 Abs	0.175 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.188 Abs	0.548 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	1.151 Abs	0.649 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	1.072 Abs	0.900 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.706 Abs	2.908 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.765 Abs	2.465 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.540 Abs	4.492 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.463 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.234 Abs	0.444 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.120 Abs	0.748 ng/mL			F02
AB25977	Anatoxin a ELISA (2 rep)	1.702 Abs	0.002 ng/mL	LOW	0.150 - 5.000	G02
AB25977	Anatoxin a ELISA (2 rep)	1.842 Abs [1.7720] {5.6 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H02
AB25978	Anatoxin a ELISA (2 rep)	1.664 Abs	0.007 ng/mL	LOW	0.150 - 5.000	A03
AB25978	Anatoxin a ELISA (2 rep)	1.812 Abs [1.7380] {6.0 CV}	< 0.000 ng/mL [0.000]	Out(LR) [Low]	0.150 - 5.000	B03
AB25979	Anatoxin a ELISA (2 rep)	1.808 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	C03
AB25979	Anatoxin a ELISA (2 rep)	1.639 Abs [1.7235] {6.9 CV}	0.011 ng/mL [0.001]	Low [Low]	0.150 - 5.000	D03
AB25980	Anatoxin a ELISA (2 rep)	1.787 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E03
AB25980	Anatoxin a ELISA (2 rep)	1.731 Abs [1.7590] {2.3 CV}	0.000 ng/mL [0.000]	Low [Low]	0.150 - 5.000	F03
AB25981	Anatoxin a ELISA (2 rep)	1.935 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB25981	Anatoxin a ELISA (2 rep)	1.886 Abs [1.9105] {1.8 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H03
AB25982	Anatoxin a ELISA (2 rep)	1.653 Abs	0.008 ng/mL	LOW	0.150 - 5.000	A04
AB25982	Anatoxin a ELISA (2 rep)	1.661 Abs [1.6570] {0.3 CV}	0.007 ng/mL [0.008] {9.4 CV}	Low [Low]	0.150 - 5.000	B04
AB25983	Anatoxin a ELISA (2 rep)	1.603 Abs	0.021 ng/mL	LOW	0.150 - 5.000	C04
AB25983	Anatoxin a ELISA (2 rep)	1.527 Abs [1.5650] {3.4 CV}	0.056 ng/mL [0.036] {64.3 CV}	Low [Low]	0.150 - 5.000	D04
AB25983LD	Anatoxin a ELISA (2 rep)	1.677 Abs	0.005 ng/mL	LOW	0.150 - 5.000	E04
AB25983LD	Anatoxin a ELISA (2 rep)	1.698 Abs [1.6875] {0.9 CV}	0.002 ng/mL [0.003] {60.6 CV}	Low [Low]	0.150 - 5.000	F04
AB25984	Anatoxin a ELISA (2 rep)	1.688 Abs	0.003 ng/mL	LOW	0.150 - 5.000	G04
AB25984	Anatoxin a ELISA (2 rep)	1.632 Abs [1.6600] {2.4 CV}	0.013 ng/mL [0.007] {88.4 CV}	Low [Low]	0.150 - 5.000	H04
AB25985	Anatoxin a ELISA (2 rep)	1.604 Abs	0.021 ng/mL	LOW	0.150 - 5.000	A05
AB25985	Anatoxin a ELISA (2 rep)	1.671 Abs [1.6375] {2.9 CV}	0.006 ng/mL [0.012] {78.6 CV}	Low [Low]	0.150 - 5.000	B05
AB25986	Anatoxin a ELISA (2 rep)	1.688 Abs	0.003 ng/mL	LOW	0.150 - 5.000	C05
AB25986	Anatoxin a ELISA (2 rep)	1.678 Abs [1.6830] {0.4 CV}	0.005 ng/mL [0.004] {35.4 CV}	Low [Low]	0.150 - 5.000	D05
AB25987	Anatoxin a ELISA (2 rep)	1.571 Abs	0.033 ng/mL	LOW	0.150 - 5.000	E05
AB25987	Anatoxin a ELISA (2 rep)	1.668 Abs [1.6195] {4.2 CV}	0.006 ng/mL [0.016] {97.9 CV}	Low [Low]	0.150 - 5.000	F05
20160627LB	Anatoxin a ELISA (2 rep)	1.681 Abs	0.004 ng/mL	LOW	0.150 - 5.000	G05
20160627LB	Anatoxin a ELISA (2 rep)	1.724 Abs [1.7025] {1.8 CV}	0.001 ng/mL [0.002] {84.9 CV}	Low [Low]	0.150 - 5.000	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

*6/30/2016*

Date



# Assay Calibration Report

## Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL  
 Assay Mode: 4-Parameter Logistic # of decimals: 3  
 Normal: 0.150 - 5.000 Assay Description: ELISA

## Controls:

Normal Control

## Standards:

Std1, Concentration = 0.000, Minimum number to use: 2

Std2, Concentration = 0.150, Minimum number to use: 2

Std3, Concentration = 0.400, Minimum number to use: 2

Std4, Concentration = 1.000, Minimum number to use: 2

Std5, Concentration = 2.500, Minimum number to use: 2

Std6, Concentration = 5.000, Minimum number to use: 2

Curve valid interval: 7 days 0 hours

Axis Mode: Y = Abs, X = Log(Conc)

## Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
6/30/2016 12:47:53 PM			
Std1	1.768 Abs	0.000 ng/mL	A01
Std2	1.503 Abs	0.071 ng/mL	C01
Std2	1.376 Abs	0.196 ng/mL	D01
Std3	1.188 Abs	0.554 ng/mL	F01
Std4	1.151 Abs	0.655 ng/mL	G01
Std4	1.072 Abs	0.908 ng/mL	H01
Std5	0.706 Abs	2.953 ng/mL	A02
Std5	0.765 Abs	2.508 ng/mL	B02
Std6	0.540 Abs	4.497 ng/mL	C02
Std6	0.463 Abs	> 5.000 ng/mL	D02
6/30/2016 12:47:53 PM			
Normal Control	1.120 Abs	0.748 ng/mL	F02
Normal Control	1.234 Abs	0.444 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.768			0.000			
Std2	1.440	0.090	6.24	0.133	0.088	66.21	-11.33
Std3	1.188			0.554			38.50
Std4	1.112	0.056	5.03	0.781	0.179	22.89	-21.90
Std5	0.735	0.042	5.67	2.730	0.315	11.52	9.20
Std6	0.502	0.054	10.86				-100.00
Normal Control	1.177	0.081	6.85	0.596	0.215	36.07	

