



## Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33731	Fairfax SRA	7/23/2018	7/25/2018	< 0.400
AB33732	Hardy Lake SRA	7/23/2018	7/25/2018	0.657
AB33733	Paynetown SRA	7/23/2018	7/25/2018	< 0.400
AB33734	Quakertown SRA	7/24/2018	7/25/2018	< 0.400
AB33735	Raccoon Lake SRA	7/23/2018	7/25/2018	< 0.400
AB33736	Starve Hollow SRA	7/23/2018	7/25/2018	< 0.400
AB33737	Whitewater Memorial SP	7/24/2018	7/25/2018	< 0.400
AB33738	Raccoon Lake (Field Duplicate)	7/23/2018	7/25/2018	< 0.400
AB33739	Field Blank	7/23/2018	7/25/2018	< 0.400
AB33740	Dog Park Lake	7/23/2018	7/25/2018	< 0.400
AB33755	Deam Lake SRA	7/24/2018	7/25/2018	< 0.400
AB33731LD	Fairfax (Lab Duplicate)	7/23/2018	7/25/2018	< 0.400
20180724LB	Lab Blank	7/24/2018	7/25/2018	< 0.400



# Test Report

## Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/25/2018 8:04:50 PM						
Std1	Anatoxin a ELISA (2 rep)	1.488 Abs	< 0.000 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.251 Abs	0.372 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.347 Abs	0.127 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.353 Abs	0.109 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.219 Abs	0.450 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.272 Abs	0.321 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	1.006 Abs	1.021 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.992 Abs	1.065 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.746 Abs	2.143 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.668 Abs	2.715 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.541 Abs	4.310 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.465 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.045 Abs	0.862 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.093 Abs	0.722 ng/mL			F02
AB33731	Anatoxin a ELISA (2 rep)	1.353 Abs	0.190 ng/mL		0.150 - 5.000	G02
AB33731	Anatoxin a ELISA (2 rep)	1.580 Abs [1.4665] {10.9	< 0.000 ng/mL [0.019]	Out(LR) [Low]	0.150 - 5.000	H02
AB33732	Anatoxin a ELISA (2 rep)	1.116 Abs	0.726 ng/mL		0.150 - 5.000	A03
AB33732	Anatoxin a ELISA (2 rep)	1.165 Abs [1.1405] {3.0 C	0.592 ng/mL [0.657] {14.4 CV}		0.150 - 5.000	B03
AB33733	Anatoxin a ELISA (2 rep)	1.426 Abs	0.074 ng/mL	LOW	0.150 - 5.000	C03
AB33733	Anatoxin a ELISA (2 rep)	1.343 Abs [1.3845] {4.2 C	0.208 ng/mL [0.138] {67.2 CV}	[Low]	0.150 - 5.000	D03
AB33734	Anatoxin a ELISA (2 rep)	1.218 Abs	0.462 ng/mL		0.150 - 5.000	E03
AB33734	Anatoxin a ELISA (2 rep)	1.357 Abs [1.2875] {7.6 C	0.183 ng/mL [0.312] {61.2 CV}		0.150 - 5.000	F03
AB33735	Anatoxin a ELISA (2 rep)	1.161 Abs	0.602 ng/mL		0.150 - 5.000	G03
AB33735	Anatoxin a ELISA (2 rep)	1.339 Abs [1.2500] {10.1	0.214 ng/mL [0.390] {67.2 CV}		0.150 - 5.000	H03
AB33736	Anatoxin a ELISA (2 rep)	1.313 Abs	0.239 ng/mL		0.150 - 5.000	A04
AB33736	Anatoxin a ELISA (2 rep)	1.329 Abs [1.3210] {0.9 C	0.211 ng/mL [0.225] {8.8 CV}		0.150 - 5.000	B04
AB33737	Anatoxin a ELISA (2 rep)	1.282 Abs	0.323 ng/mL		0.150 - 5.000	C04
AB33737	Anatoxin a ELISA (2 rep)	1.378 Abs [1.3300] {5.1 C	0.147 ng/mL [0.231] {53.0 CV}	LOW	0.150 - 5.000	D04
AB33738	Anatoxin a ELISA (2 rep)	1.341 Abs	0.211 ng/mL		0.150 - 5.000	E04
AB33738	Anatoxin a ELISA (2 rep)	1.356 Abs [1.3485] {0.8 C	0.185 ng/mL [0.198] {9.3 CV}		0.150 - 5.000	F04
AB33739	Anatoxin a ELISA (2 rep)	1.367 Abs	0.166 ng/mL		0.150 - 5.000	G04
AB33739	Anatoxin a ELISA (2 rep)	1.241 Abs [1.3040] {6.8 C	0.410 ng/mL [0.279] {59.9 CV}		0.150 - 5.000	H04
AB33740	Anatoxin a ELISA (2 rep)	1.393 Abs	0.123 ng/mL	LOW	0.150 - 5.000	A05
AB33740	Anatoxin a ELISA (2 rep)	1.403 Abs [1.3980] {0.5 C	0.108 ng/mL [0.115] {9.2 CV}	Low [Low]	0.150 - 5.000	B05
AB33755	Anatoxin a ELISA (2 rep)	1.399 Abs	0.114 ng/mL	LOW	0.150 - 5.000	C05
AB33755	Anatoxin a ELISA (2 rep)	1.392 Abs [1.3955] {0.4 C	0.125 ng/mL [0.120] {6.5 CV}	Low [Low]	0.150 - 5.000	D05
AB33731LD	Anatoxin a ELISA (2 rep)	1.359 Abs	0.179 ng/mL		0.150 - 5.000	E05
AB33731LD	Anatoxin a ELISA (2 rep)	1.509 Abs [1.4340] {7.4 C	< 0.000 ng/mL [0.062]	Out(LR) [Low]	0.150 - 5.000	F05
20180724LB	Anatoxin a ELISA (2 rep)	1.509 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G05
20180724LB	Anatoxin a ELISA (2 rep)	1.518 Abs [1.5135] {0.4 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	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

*7/26/18*

Date



# Assay Calibration Report

## Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL  
 Assay Mode: 4-Parameter Logistic Weight # of decimals: 3  
 Normal: by none 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

## Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
7/25/2018 8:04:50 PM			
Std1	1.488 Abs	< 0.000 ng/mL	A01
Std2	1.347 Abs	0.182 ng/mL	C01
Std2	1.353 Abs	0.173 ng/mL	D01
Std3	1.219 Abs	0.418 ng/mL	E01
Std3	1.272 Abs	0.312 ng/mL	F01
Std4	1.006 Abs	0.987 ng/mL	G01
Std4	0.992 Abs	1.036 ng/mL	H01
Std5	0.746 Abs	2.247 ng/mL	A02
Std5	0.668 Abs	2.860 ng/mL	B02
Std6	0.541 Abs	4.333 ng/mL	C02
Std6	0.465 Abs	> 5.000 ng/mL	D02
7/25/2018 8:04:50 PM			
Normal Control	1.093 Abs	0.722 ng/mL	F02
Normal Control	1.045 Abs	0.862 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.488						
Std2	1.350	0.004	0.31	0.177	0.006	3.59	18.00
Std3	1.245	0.037	3.01	0.365	0.075	20.54	-8.75
Std4	0.999	0.010	0.99	1.012	0.035	3.43	1.20
Std5	0.707	0.055	7.80	2.553	0.433	16.97	2.12
Std6	0.503	0.054	10.68				-100.00
Normal Control	1.069	0.034	3.18	0.792	0.099	12.50	

