



## Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33078	Whitewater Memorial SP	6/11/2018	6/14/2018	< 0.400
AB33079	Quakertown SP	6/11/2018	6/14/2018	< 0.400
AB33080	Mounds SRA	6/11/2018	6/14/2018	< 0.400
AB33081	Hardy Lake SRA	6/11/2018	6/14/2018	< 0.400
AB33082	Deam Lake SRA	6/11/2018	6/14/2018	< 0.400
AB33076	Whitewater Memorial SP	6/11/2018	6/14/2018	< 0.400
AB33077	Field Blank	6/11/2018	6/14/2018	< 0.400
AB33070	Raccoon Lake SRA	6/11/2018	6/14/2018	< 0.400
AB33072	Paynetown SRA	6/11/2018	6/14/2018	< 0.400
AB33073	Fairfax SRA	6/11/2018	6/14/2018	< 0.400
AB33071	Starve Hollow SRA	6/11/2018	6/14/2018	< 0.400
AB33075	Field Blank	6/11/2018	6/14/2018	< 0.400
AB33347	Dog Park Lake	6/11/2018	6/14/2018	< 0.400
AB33073LD	Fairfax (Lab Duplicate)	6/11/2018	6/14/2018	< 0.400
20180611LB	Lab Blank	6/11/2018	6/14/2018	< 0.400



# Test Report

## Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/14/2018 2:34:38 PM						
Std1	Anatoxin a ELISA (2 rep)	1.404 Abs	0.005 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.439 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.212 Abs	0.219 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.250 Abs	0.169 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.092 Abs	0.404 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.162 Abs	0.290 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.820 Abs	1.080 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.866 Abs	0.930 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.515 Abs	2.984 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.577 Abs	2.390 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.420 Abs	4.362 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.381 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	0.974 Abs	0.642 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	0.933 Abs	0.742 ng/mL			F02
AB33078	Anatoxin a ELISA (2 rep)	1.340 Abs	0.073 ng/mL	LOW	0.150 - 5.000	G02
AB33078	Anatoxin a ELISA (2 rep)	1.324 Abs [1.3320] {0.8 C	0.091 ng/mL [0.081] {15.5 CV}	Low [Low]	0.150 - 5.000	H02
AB33079	Anatoxin a ELISA (2 rep)	1.343 Abs	0.069 ng/mL	LOW	0.150 - 5.000	A03
AB33079	Anatoxin a ELISA (2 rep)	1.410 Abs [1.3765] {3.4 C	0.000 ng/mL [0.033] {141.4 CV}	Low [Low]	0.150 - 5.000	B03
AB33080	Anatoxin a ELISA (2 rep)	1.368 Abs	0.042 ng/mL	LOW	0.150 - 5.000	C03
AB33080	Anatoxin a ELISA (2 rep)	1.414 Abs [1.3910] {2.3 C	< 0.000 ng/mL [0.019]	Out(LR) [Low]	0.150 - 5.000	D03
AB33081	Anatoxin a ELISA (2 rep)	1.262 Abs	0.169 ng/mL		0.150 - 5.000	E03
AB33081	Anatoxin a ELISA (2 rep)	1.347 Abs [1.3045] {4.6 C	0.085 ng/mL [0.114] {62.9 CV}	Low [Low]	0.150 - 5.000	F03
AB33082	Anatoxin a ELISA (2 rep)	1.411 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB33082	Anatoxin a ELISA (2 rep)	1.437 Abs [1.4240] {1.3 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H03
AB33076	Anatoxin a ELISA (2 rep)	1.360 Abs	0.051 ng/mL	LOW	0.150 - 5.000	A04
AB33076	Anatoxin a ELISA (2 rep)	1.349 Abs [1.3545] {0.6 C	0.063 ng/mL [0.056] {14.9 CV}	Low [Low]	0.150 - 5.000	B04
AB33077	Anatoxin a ELISA (2 rep)	1.311 Abs	0.107 ng/mL	LOW	0.150 - 5.000	C04
AB33077	Anatoxin a ELISA (2 rep)	1.305 Abs [1.3080] {0.3 C	0.114 ng/mL [0.110] {4.5 CV}	Low [Low]	0.150 - 5.000	D04
AB33070	Anatoxin a ELISA (2 rep)	1.383 Abs	0.026 ng/mL	LOW	0.150 - 5.000	E04
AB33070	Anatoxin a ELISA (2 rep)	1.344 Abs [1.3635] {2.0 C	0.068 ng/mL [0.046] {63.2 CV}	Low [Low]	0.150 - 5.000	F04
AB33072	Anatoxin a ELISA (2 rep)	1.382 Abs	0.027 ng/mL	LOW	0.150 - 5.000	G04
AB33072	Anatoxin a ELISA (2 rep)	1.442 Abs [1.4120] {3.0 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H04
AB33073	Anatoxin a ELISA (2 rep)	1.329 Abs	0.086 ng/mL	LOW	0.150 - 5.000	A05
AB33073	Anatoxin a ELISA (2 rep)	1.276 Abs [1.3025] {2.9 C	0.151 ng/mL [0.117] {38.8 CV}	[Low]	0.150 - 5.000	B05
AB33071	Anatoxin a ELISA (2 rep)	1.264 Abs	0.167 ng/mL		0.150 - 5.000	C05
AB33071	Anatoxin a ELISA (2 rep)	1.310 Abs [1.2870] {2.5 C	0.108 ng/mL [0.136] {30.3 CV}	Low [Low]	0.150 - 5.000	D05
AB33075	Anatoxin a ELISA (2 rep)	1.242 Abs	0.197 ng/mL		0.150 - 5.000	E05
AB33075	Anatoxin a ELISA (2 rep)	1.283 Abs [1.2625] {2.3 C	0.142 ng/mL [0.168] {22.9 CV}	LOW	0.150 - 5.000	F05
AB33347	Anatoxin a ELISA (2 rep)	1.271 Abs	0.157 ng/mL		0.150 - 5.000	G05
AB33347	Anatoxin a ELISA (2 rep)	1.276 Abs [1.2735] {0.3 C	0.151 ng/mL [0.154] {2.8 CV}		0.150 - 5.000	H05
AB33073LD	Anatoxin a ELISA (2 rep)	1.223 Abs	0.224 ng/mL		0.150 - 5.000	A06
AB33073LD	Anatoxin a ELISA (2 rep)	1.293 Abs [1.2280] {0.6 C	0.210 ng/mL [0.217] {4.6 CV}		0.150 - 5.000	B06
20180611LB	Anatoxin a ELISA (2 rep)	1.250 Abs	0.186 ng/mL		0.150 - 5.000	C06
20180611LB	Anatoxin a ELISA (2 rep)	1.289 Abs [1.2695] {2.2 C	0.134 ng/mL [0.160] {23.0 CV}	LOW	0.150 - 5.000	D06

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

*6/14/18*

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 5.000 Assay Description: IDISA

## 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
6/14/2018 2:34:38 PM			
Std1	1.404 Abs	0.005 ng/mL	A01
Std1	1.439 Abs	< 0.000 ng/mL	B01
Std2	1.212 Abs	0.219 ng/mL	C01
Std2	1.250 Abs	0.169 ng/mL	D01
Std3	1.092 Abs	0.404 ng/mL	E01
Std3	1.162 Abs	0.290 ng/mL	F01
Std4	0.820 Abs	1.080 ng/mL	G01
Std4	0.866 Abs	0.930 ng/mL	H01
Std5	0.515 Abs	2.984 ng/mL	A02
Std5	0.577 Abs	2.390 ng/mL	B02
Std6	0.420 Abs	4.362 ng/mL	C02
Std6	0.381 Abs	> 5.000 ng/mL	D02
6/14/2018 2:34:38 PM			
Normal Control	0.933 Abs	0.742 ng/mL	F02
Normal Control	0.974 Abs	0.642 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.421	0.025	1.74				
Std2	1.231	0.027	2.18	0.194	0.035	18.22	29.33
Std3	1.127	0.049	4.39	0.347	0.081	23.23	-13.25
Std4	0.843	0.033	3.86	1.005	0.106	10.55	0.50
Std5	0.546	0.044	8.03	2.687	0.420	15.63	7.48
Std6	0.400	0.028	6.89				-100.00
Normal Control	0.954	0.029	3.04	0.692	0.071	10.22	

