



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33649	Paynetown SRA	7/9/2018	7/10/2018	< 0.400
AB33650	Fairfax SRA	7/9/2018	7/10/2018	< 0.400
AB33651	Starve Hollow SRA	7/9/2018	7/10/2018	< 0.400
AB33652	Raccoon Lake SRA	7/9/2018	7/10/2018	< 0.400
AB33653	Starve Hollow (Field Duplicate)	7/9/2018	7/10/2018	< 0.400
AB33654	Field Blank	7/9/2018	7/10/2018	< 0.400
AB33642	Whitewater Memorial SP	7/9/2018	7/10/2018	0.462
AB33643	Mounds SRA	7/9/2018	7/10/2018	< 0.400
AB33643LD	Mounds (Lab Duplicate)	7/9/2018	7/10/2018	< 0.400
AB33645	Hardy Lake SRA	7/9/2018	7/10/2018	0.418
AB33648	Field Blank	7/9/2018	7/10/2018	< 0.400
AB33655	Quakertown SRA	7/9/2018	7/10/2018	< 0.400
AB33656	Deam Lake SRA	7/9/2018	7/10/2018	< 0.400
AB33669	Dog Park Lake	7/9/2018	7/10/2018	< 0.400
20180710LB	Lab Blank	7/10/2018	7/10/2018	< 0.400



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/10/2018 3:47:12 PM						
Std1	Anatoxin a ELISA (2 rep)	1.423 Abs	0.021 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.492 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.325 Abs	0.126 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.291 Abs	0.174 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.181 Abs	0.364 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.118 Abs	0.501 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.949 Abs	0.998 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.995 Abs	0.841 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.644 Abs	2.728 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.663 Abs	2.569 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.471 Abs	4.776 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.457 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.149 Abs	0.486 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.070 Abs	0.676 ng/mL			F02
AB33649	Anatoxin a ELISA (2 rep)	1.564 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G02
AB33649	Anatoxin a ELISA (2 rep)	1.686 Abs [1.6250] {5.3 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H02
AB33650	Anatoxin a ELISA (2 rep)	1.409 Abs	0.021 ng/mL	LOW	0.150 - 5.000	A03
AB33650	Anatoxin a ELISA (2 rep)	1.240 Abs [1.3245] {9.0 CV}	0.330 ng/mL [0.165] {124.5 CV}		0.150 - 5.000	B03
AB33651	Anatoxin a ELISA (2 rep)	1.339 Abs	0.140 ng/mL	LOW	0.150 - 5.000	C03
AB33651	Anatoxin a ELISA (2 rep)	1.463 Abs [1.4010] {6.3 CV}	< 0.000 ng/mL [0.034]	Out(LR) [Low]	0.150 - 5.000	D03
AB33652	Anatoxin a ELISA (2 rep)	1.286 Abs	0.238 ng/mL		0.150 - 5.000	E03
AB33652	Anatoxin a ELISA (2 rep)	1.438 Abs [1.3620] {7.9 CV}	< 0.000 ng/mL [0.099]	Out(LR) [Low]	0.150 - 5.000	F03
AB33653	Anatoxin a ELISA (2 rep)	1.478 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB33653	Anatoxin a ELISA (2 rep)	1.572 Abs [1.5250] {4.4 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H03
AB33654	Anatoxin a ELISA (2 rep)	1.132 Abs	0.577 ng/mL		0.150 - 5.000	A04
AB33654	Anatoxin a ELISA (2 rep)	1.334 Abs [1.2330] {11.6 CV}	0.149 ng/mL [0.344] {83.4 CV}	LOW	0.150 - 5.000	B04
AB33642	Anatoxin a ELISA (2 rep)	1.032 Abs	0.857 ng/mL		0.150 - 5.000	C04
AB33642	Anatoxin a ELISA (2 rep)	1.327 Abs [1.1795] {17.7 CV}	0.161 ng/mL [0.462] {96.7 CV}		0.150 - 5.000	D04
AB33643	Anatoxin a ELISA (2 rep)	1.399 Abs	0.037 ng/mL	LOW	0.150 - 5.000	E04
AB33643	Anatoxin a ELISA (2 rep)	1.274 Abs [1.3365] {6.6 CV}	0.261 ng/mL [0.144] {106.3 CV}	[Low]	0.150 - 5.000	F04
AB33643LD	Anatoxin a ELISA (2 rep)	1.377 Abs	0.074 ng/mL	LOW	0.150 - 5.000	G04
AB33643LD	Anatoxin a ELISA (2 rep)	1.474 Abs [1.4255] {4.8 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H04
AB33645	Anatoxin a ELISA (2 rep)	1.330 Abs	0.155 ng/mL		0.150 - 5.000	A05
AB33645	Anatoxin a ELISA (2 rep)	1.068 Abs [1.1990] {15.5 CV}	0.749 ng/mL [0.418] {92.9 CV}		0.150 - 5.000	B05
AB33648	Anatoxin a ELISA (2 rep)	1.506 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	C05
AB33648	Anatoxin a ELISA (2 rep)	1.139 Abs [1.3225] {19.6 CV}	0.560 ng/mL [0.169]		0.150 - 5.000	D05
AB33655	Anatoxin a ELISA (2 rep)	1.386 Abs	0.058 ng/mL	LOW	0.150 - 5.000	E05
AB33655	Anatoxin a ELISA (2 rep)	1.383 Abs [1.3845] {0.2 CV}	0.064 ng/mL [0.060] {7.0 CV}	Low [Low]	0.150 - 5.000	F05
AB33656	Anatoxin a ELISA (2 rep)	1.387 Abs	0.057 ng/mL	LOW	0.150 - 5.000	G05
AB33656	Anatoxin a ELISA (2 rep)	1.377 Abs [1.3820] {0.5 CV}	0.074 ng/mL [0.065] {18.4 CV}	Low [Low]	0.150 - 5.000	H05
AB33669	Anatoxin a ELISA (2 rep)	1.369 Abs	0.087 ng/mL	LOW	0.150 - 5.000	A06
AB33669	Anatoxin a ELISA (2 rep)	1.226 Abs [1.2975] {7.8 CV}	0.359 ng/mL [0.216] {86.2 CV}		0.150 - 5.000	B06
20180710LB	Anatoxin a ELISA (2 rep)	1.326 Abs	0.163 ng/mL		0.150 - 5.000	C06
20180710LB	Anatoxin a ELISA (2 rep)	1.207 Abs [1.2685] {6.6 CV}	0.400 ng/mL [0.276] {59.5 CV}		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

7/12/18

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: 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
7/10/2018 3:47:12 PM			
Std1	1.423 Abs	< 0.000 ng/mL	A01
Std2	1.325 Abs	0.150 ng/mL	C01
Std3	1.181 Abs	0.417 ng/mL	E01
Std4	0.949 Abs	1.035 ng/mL	G01
Std4	0.995 Abs	0.887 ng/mL	H01
Std5	0.644 Abs	2.654 ng/mL	A02
Std5	0.663 Abs	2.501 ng/mL	B02
Std6	0.471 Abs	4.794 ng/mL	C02
Std6	0.457 Abs	> 5.000 ng/mL	D02
7/10/2018 3:47:12 PM			
Normal Control	1.070 Abs	0.676 ng/mL	F02
Normal Control	1.149 Abs	0.486 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.423						
Std2	1.325			0.150			-0.00
Std3	1.181			0.417			4.25
Std4	0.972	0.033	3.35	0.961	0.105	10.89	-3.90
Std5	0.653	0.013	2.06	2.577	0.108	4.20	3.08
Std6	0.464	0.010	2.13				-100.00
Normal Control	1.110	0.056	5.03	0.581	0.134	23.12	

