Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB29671	Fairfax SRA	7/10/2017	7/12/2017	< 0.40
AB29672	Paynetown SRA	7/10/2017	7/12/2017	< 0.40
AB29673	Starve Hollow SRA	7/10/2017	7/12/2017	< 0.40
AB29674	Deam Lake SRA	7/10/2017	7/12/2017	< 0.40
AB29675	Hardy Lake SRA	7/10/2017	7/12/2017	< 0.40
AB29669	Deam Lake (Field Duplicate)	7/10/2017	7/12/2017	< 0.40
AB29670	Field Blank	7/10/2017	7/12/2017	< 0.40
AB29671LD	Fairfax SRA (Lab Duplicate)	7/10/2017	7/12/2017	< 0.40
AB29676	Whitewater Memorial SP	7/11/2017	7/12/2017	< 0.40
AB29677	Quakertown SRA	7/11/2017	7/12/2017	< 0.40
AB29678	Mounds SRA	7/11/2017	7/12/2017	< 0.40
AB29679	Raccoon Lake SRA	7/11/2017	7/12/2017	< 0.40
20170711LB	Lab Blank	7/11/2017	7/12/2017	< 0.40

Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep)
Assay Mode: 4-Parameter Logistic
Normal: 0.150 - 5.000
Units: ng/mL
# of decimals: 3
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
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Std1	1.448 Abs	< 0.000 ng/mL	A01
Std2	1.150 Abs	0.179 ng/mL	D01
Std3	1.022 Abs	0.428 ng/mL	E01
Std3	1.116 Abs	0.232 ng/mL	F01
Std4	0.813 Abs	1.244 ng/mL	G01
Std4	0.881 Abs	0.905 ng/mL	H01
Std5	0.652 Abs	2.464 ng/mL	A02
Std5	0.630 Abs	2.690 ng/mL	B02
Std6	0.476 Abs	4.889 ng/mL	C02
Std6	0.474 Abs	4.925 ng/mL	D02
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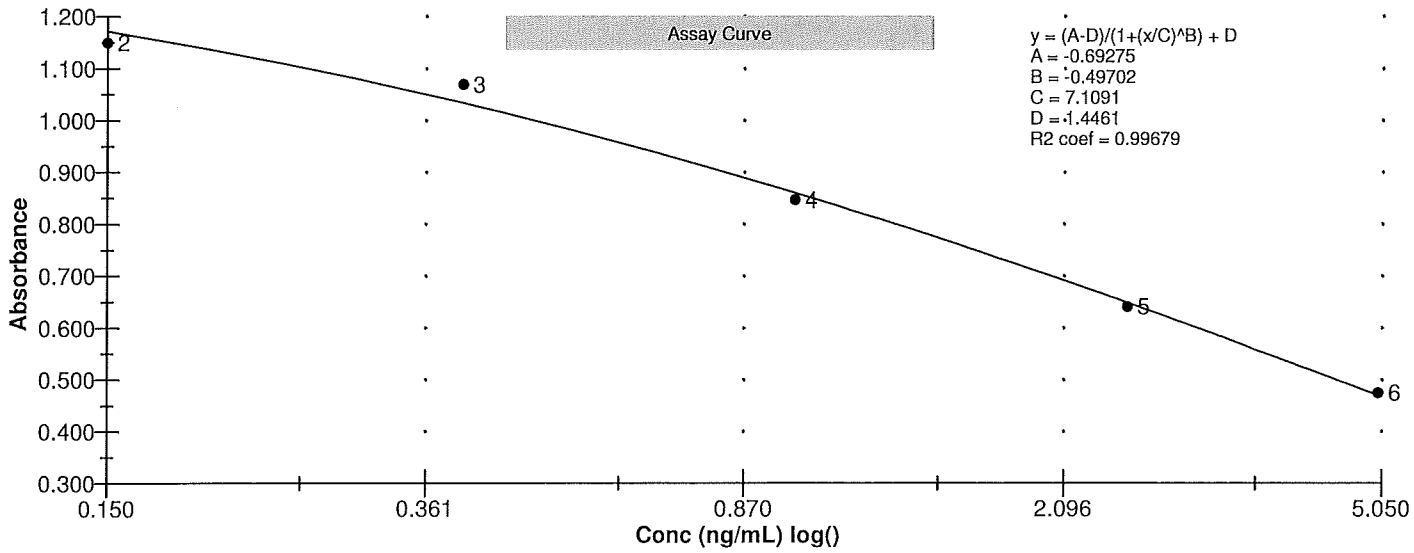
Normal Control	0.991 Abs	0.512 ng/mL	F02
Normal Control	0.931 Abs	0.706 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.448						
Std2	1.150			0.179			19.33
Std3	1.069	0.066	6.22	0.330	0.139	42.00	-17.50
Std4	0.847	0.048	5.68	1.074	0.240	22.31	7.40
Std5	0.641	0.016	2.43	2.577	0.160	6.20	3.08
Std6	0.475	0.001	0.30	4.907	0.025	0.52	-1.86
Normal Control	0.961	0.042	4.41	0.609	0.137	22.53	



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Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			7/12/2017 4:39:43 PM			
Std1	Anatoxin a ELISA (2 rep)	1.448 Abs	< 0.000 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.195 Abs	0.098 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.117 Abs	0.219 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.150 Abs	0.162 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.022 Abs	0.430 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.116 Abs	0.221 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.813 Abs	1.242 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.881 Abs	0.911 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.652 Abs	2.427 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.630 Abs	2.650 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.476 Abs	4.915 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.474 Abs	4.955 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	0.931 Abs	0.706 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	0.991 Abs	0.512 ng/mL			F02
AB29671	Anatoxin a ELISA (2 rep)	1.302 Abs	0.040 ng/mL	LOW	0.150 - 5.000	G02
AB29671	Anatoxin a ELISA (2 rep)	1.379 Abs [1.3405] {4.1 C	0.008 ng/mL [0.021] {94.3 CV}	Low [Low]	0.150 - 5.000	H02
AB29672	Anatoxin a ELISA (2 rep)	1.215 Abs	0.112 ng/mL	LOW	0.150 - 5.000	A03
AB29672	Anatoxin a ELISA (2 rep)	1.118 Abs [1.1665] {5.9 C	0.252 ng/mL [0.173] {54.4 CV}		0.150 - 5.000	B03
AB29673	Anatoxin a ELISA (2 rep)	1.149 Abs	0.199 ng/mL		0.150 - 5.000	C03
AB29673	Anatoxin a ELISA (2 rep)	1.217 Abs [1.1830] {4.1 C	0.110 ng/mL [0.151] {40.7 CV}	LOW	0.150 - 5.000	D03
AB29674	Anatoxin a ELISA (2 rep)	1.324 Abs	0.027 ng/mL	LOW	0.150 - 5.000	E03
AB29674	Anatoxin a ELISA (2 rep)	1.362 Abs [1.3430] {2.0 C	0.012 ng/mL [0.020] {54.4 CV}	Low [Low]	0.150 - 5.000	F03
AB29675	Anatoxin a ELISA (2 rep)	1.174 Abs	0.162 ng/mL		0.150 - 5.000	G03
AB29675	Anatoxin a ELISA (2 rep)	1.384 Abs [1.2790] {11.6	0.007 ng/mL [0.055] {129.7 CV	Low [Low]	0.150 - 5.000	H03
AB29669	Anatoxin a ELISA (2 rep)	1.220 Abs	0.107 ng/mL	LOW	0.150 - 5.000	A04
AB29669	Anatoxin a ELISA (2 rep)	1.278 Abs [1.2490] {3.3 C	0.055 ng/mL [0.078] {45.4 CV}	Low [Low]	0.150 - 5.000	B04
AB29670	Anatoxin a ELISA (2 rep)	1.087 Abs	0.312 ng/mL		0.150 - 5.000	C04
AB29670	Anatoxin a ELISA (2 rep)	1.076 Abs [1.0815] {0.7 C	0.337 ng/mL [0.323] {5.4 CV}		0.150 - 5.000	D04
AB29671LD	Anatoxin a ELISA (2 rep)	1.093 Abs	0.300 ng/mL		0.150 - 5.000	E04
AB29671LD	Anatoxin a ELISA (2 rep)	1.364 Abs [1.2285] {15.6	0.012 ng/mL [0.098] {130.5 CV	Low [Low]	0.150 - 5.000	F04
AB29676	Anatoxin a ELISA (2 rep)	1.041 Abs	0.420 ng/mL		0.150 - 5.000	G04
AB29676	Anatoxin a ELISA (2 rep)	1.206 Abs [1.1235] {10.4	0.122 ng/mL [0.242] {77.8 CV}	LOW	0.150 - 5.000	H04
AB29677	Anatoxin a ELISA (2 rep)	1.404 Abs	0.003 ng/mL	LOW	0.150 - 5.000	A05
AB29677	Anatoxin a ELISA (2 rep)	1.471 Abs [1.4375] {3.3 C	< 0.000 ng/mL [0.000]	Out(LR) [Low]	0.150 - 5.000	B05
AB29678	Anatoxin a ELISA (2 rep)	1.420 Abs	0.001 ng/mL	LOW	0.150 - 5.000	C05
AB29678	Anatoxin a ELISA (2 rep)	1.261 Abs [1.3405] {8.4 C	0.068 ng/mL [0.021] {137.3 CV	Low [Low]	0.150 - 5.000	D05
AB29914	Anatoxin a ELISA (2 rep)	1.209 Abs	0.119 ng/mL	LOW	0.150 - 5.000	E05
AB29914	Anatoxin a ELISA (2 rep)	1.219 Abs [1.2140] {0.6 C	0.108 ng/mL [0.113] {6.9 CV}	Low [Low]	0.150 - 5.000	F05
AB29679	Anatoxin a ELISA (2 rep)	1.263 Abs	0.067 ng/mL	LOW	0.150 - 5.000	G05
AB29679	Anatoxin a ELISA (2 rep)	1.271 Abs [1.2670] {0.4 C	0.060 ng/mL [0.064] {7.8 CV}	Low [Low]	0.150 - 5.000	H05
20170711LB	Anatoxin a ELISA (2 rep)	1.283 Abs	0.052 ng/mL	LOW	0.150 - 5.000	A06
20170711LB	Anatoxin a ELISA (2 rep)	1.134 Abs [1.2085] {8.7 C	0.223 ng/mL [0.119] {87.9 CV}	[Low]	0.150 - 5.000	B06

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

7/13/2017

Date