



Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB25988	Mississinewa Miami SRA	7/5/2016	7/7/2016	< 0.150
AB25989	Potato Creek SP	7/5/2016	7/7/2016	< 0.150
AB25990	Pokagon SP	7/6/2016	7/7/2016	< 0.150
AB25991	Chain O'Lakes SP	7/6/2016	7/7/2016	< 0.150
AB25992	Lincoln SP	7/5/2016	7/7/2016	< 0.150
AB25992LD	Lincoln (Lab Duplicate)	7/5/2016	7/7/2016	< 0.150
AB25993	Ferdinand SP	7/5/2016	7/7/2016	< 0.150
AB25994	Lost Bridge West SRA	7/6/2016	7/7/2016	0.213
AB25995	Field Blank	7/5/2016	7/7/2016	< 0.150
AB25996	Potato Creek (Field Duplicate)	7/5/2016	7/7/2016	< 0.150
AB25997	Southern Basin Inn's Beach	7/6/2016	7/7/2016	< 0.150
20160707LB	Lab Blank	7/6/2016	7/7/2016	< 0.150



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/7/2016 12:22:18 PM						
Std1	Anatoxin a ELISA (2 rep)	1.806 Abs	< 0.000 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.747 Abs	0.007 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.569 Abs	0.155 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.533 Abs	0.197 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.426 Abs	0.345 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.346 Abs	0.481 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	1.101 Abs	1.078 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	1.259 Abs	0.658 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.740 Abs	2.872 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.734 Abs	2.918 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.540 Abs	4.965 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.579 Abs	4.448 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.237 Abs	0.709 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.349 Abs	0.475 ng/mL			F02
AB25988	Anatoxin a ELISA (2 rep)	1.878 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G02
AB25988	Anatoxin a ELISA (2 rep)	2.011 Abs [1.9445] {4.8 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H02
AB25989	Anatoxin a ELISA (2 rep)	1.678 Abs	0.052 ng/mL	LOW	0.150 - 5.000	A03
AB25989	Anatoxin a ELISA (2 rep)	1.550 Abs [1.6140] {5.6 CV}	0.177 ng/mL [0.108] {77.2 CV}	[Low]	0.150 - 5.000	B03
AB25990	Anatoxin a ELISA (2 rep)	1.735 Abs	0.014 ng/mL	LOW	0.150 - 5.000	C03
AB25990	Anatoxin a ELISA (2 rep)	1.779 Abs [1.7570] {1.8 CV}	< 0.000 ng/mL [0.003]	Out(LR) [Low]	0.150 - 5.000	D03
AB25991	Anatoxin a ELISA (2 rep)	1.672 Abs	0.057 ng/mL	LOW	0.150 - 5.000	E03
AB25991	Anatoxin a ELISA (2 rep)	1.514 Abs [1.5930] {7.0 CV}	0.221 ng/mL [0.130] {83.4 CV}	[Low]	0.150 - 5.000	F03
AB25992	Anatoxin a ELISA (2 rep)	1.793 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB25992	Anatoxin a ELISA (2 rep)	1.731 Abs [1.7620] {2.5 CV}	0.016 ng/mL [0.001]	Low [Low]	0.150 - 5.000	H03
AB25992LD	Anatoxin a ELISA (2 rep)	1.604 Abs	0.118 ng/mL	LOW	0.150 - 5.000	A04
AB25992LD	Anatoxin a ELISA (2 rep)	1.694 Abs [1.6490] {3.9 CV}	0.040 ng/mL [0.076] {69.8 CV}	Low [Low]	0.150 - 5.000	B04
AB25993	Anatoxin a ELISA (2 rep)	1.684 Abs	0.047 ng/mL	LOW	0.150 - 5.000	C04
AB25993	Anatoxin a ELISA (2 rep)	1.691 Abs [1.6875] {0.3 CV}	0.042 ng/mL [0.045] {7.9 CV}	Low [Low]	0.150 - 5.000	D04
AB25994	Anatoxin a ELISA (2 rep)	1.464 Abs	0.288 ng/mL		0.150 - 5.000	E04
AB25994	Anatoxin a ELISA (2 rep)	1.576 Abs [1.5200] {5.2 CV}	0.147 ng/mL [0.213] {45.8 CV}	LOW	0.150 - 5.000	F04
AB25995	Anatoxin a ELISA (2 rep)	1.640 Abs	0.084 ng/mL	LOW	0.150 - 5.000	G04
AB25995	Anatoxin a ELISA (2 rep)	1.729 Abs [1.6845] {3.7 CV}	0.017 ng/mL [0.047] {93.8 CV}	Low [Low]	0.150 - 5.000	H04
AB25996	Anatoxin a ELISA (2 rep)	1.733 Abs	0.015 ng/mL	LOW	0.150 - 5.000	A05
AB25996	Anatoxin a ELISA (2 rep)	1.593 Abs [1.6630] {6.0 CV}	0.130 ng/mL [0.064] {112.2 CV}	Low [Low]	0.150 - 5.000	B05
AB25997	Anatoxin a ELISA (2 rep)	1.693 Abs	0.041 ng/mL	LOW	0.150 - 5.000	C05
AB25997	Anatoxin a ELISA (2 rep)	1.738 Abs [1.7155] {1.9 CV}	0.012 ng/mL [0.025] {77.4 CV}	Low [Low]	0.150 - 5.000	D05
20160706LB	Anatoxin a ELISA (2 rep)	1.662 Abs	0.065 ng/mL	LOW	0.150 - 5.000	E05
20160706LB	Anatoxin a ELISA (2 rep)	1.635 Abs [1.6485] {1.2 CV}	0.089 ng/mL [0.076] {22.0 CV}	Low [Low]	0.150 - 5.000	F05

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

7/7/2016

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
7/7/2016 12:22:18 PM			
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Normal Control	1.349 Abs	0.475 ng/mL	F02
Normal Control	1.237 Abs	0.709 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.776	0.042	2.35				
Std2	1.551	0.025	1.64	0.176	0.030	16.87	17.33
Std3	1.386	0.057	4.08	0.413	0.096	23.28	3.25
Std4	1.180	0.112	9.47	0.868	0.297	34.21	-13.20
Std5	0.737	0.004	0.58	2.895	0.033	1.12	15.80
Std6	0.559	0.028	4.93	4.707	0.366	7.77	-5.86
Normal Control	1.293	0.079	6.12	0.592	0.165	27.95	

