



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33965	Field Blank	8/14/2018	8/15/2018	< 0.400
AB33960	Potawatomi Inn's Beach	8/14/2018	8/15/2018	0.420
AB33961	Pokagon S P	8/14/2018	8/15/2018	< 0.400
AB33962	Chain O'Lakes S P	8/14/2018	8/15/2018	< 0.400
AB33963	Kunkel Beach @ Quabache S P	8/14/2018	8/15/2018	< 0.400
AB33964	Chain O'Lakes (Field Duplicate)	8/14/2018	8/15/2018	0.418
AB33966	Lost Bridge West S R A	8/13/2018	8/15/2018	< 0.400
AB33967	Potato Creek S P	8/13/2018	8/15/2018	< 0.400
AB33968	Mississinewa Lake Miami S R A	8/13/2018	8/15/2018	< 0.400
AB33969	Dog Park Lake	8/14/2018	8/15/2018	< 0.400
AB33963LD	Kunkel Beach (Lab Duplicate)	8/14/2018	8/15/2018	0.416
20180815LB	Lab Blank	8/14/2018	8/15/2018	< 0.400



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/15/2018 7:39:24 PM						
Std1	Microcystins ADDA	2.051 Abs	0.0363 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.209 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.997 Abs	0.0706 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.793 Abs	0.2463 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.567 Abs	0.5369 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.728 Abs	0.3183 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.208 Abs	1.3312 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.511 Abs	0.6287 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.975 Abs	2.2669 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.040 Abs	1.9539 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.660 Abs	4.9011 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.656 Abs	4.9544 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.383 Abs	0.7432 ng/mL			E02
Normal Control	Microcystins ADDA	1.374 Abs	0.7591 ng/mL			F02
AB33965	Microcystins ADDA	2.146 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G02
AB33965	Microcystins ADDA	2.155 Abs [2.1505] {0.3 CV}	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H02
AB33960	Microcystins ADDA	1.636 Abs	0.3889 ng/mL		0.1500 - 5.0000	A03
AB33960	Microcystins ADDA	1.737 Abs [1.6865] {4.2 CV}	0.2850 ng/mL [0.3349] {21.8 C		0.1500 - 5.0000	B03
AB33961	Microcystins ADDA	1.800 Abs	0.2280 ng/mL		0.1500 - 5.0000	C03
AB33961	Microcystins ADDA	1.743 Abs [1.7715] {2.3 CV}	0.2794 ng/mL [0.2531] {14.3 C		0.1500 - 5.0000	D03
AB33962	Microcystins ADDA	1.822 Abs	0.2093 ng/mL		0.1500 - 5.0000	E03
AB33962	Microcystins ADDA	1.844 Abs [1.8330] {0.8 CV}	0.1912 ng/mL [0.2001] {6.4 CV}		0.1500 - 5.0000	F03
AB33963	Microcystins ADDA	1.961 Abs	0.1038 ng/mL	LOW	0.1500 - 5.0000	G03
AB33963	Microcystins ADDA	2.063 Abs [2.0120] {3.6 CV}	0.0386 ng/mL [0.0700] {64.8 C	Low [Low]	0.1500 - 5.0000	H03
AB33964	Microcystins ADDA	1.782 Abs	0.2437 ng/mL		0.1500 - 5.0000	A04
AB33964	Microcystins ADDA	1.740 Abs [1.7610] {1.7 CV}	0.2822 ng/mL [0.2627] {10.4 C		0.1500 - 5.0000	B04
AB33966	Microcystins ADDA	1.886 Abs	0.1581 ng/mL		0.1500 - 5.0000	C04
AB33966	Microcystins ADDA	1.792 Abs [1.8390] {3.6 CV}	0.2349 ng/mL [0.1952] {27.6 C		0.1500 - 5.0000	D04
AB33967	Microcystins ADDA	1.742 Abs	0.2803 ng/mL		0.1500 - 5.0000	E04
AB33967	Microcystins ADDA	1.940 Abs [1.8410] {7.6 CV}	0.1185 ng/mL [0.1936] {57.4 C	LOW	0.1500 - 5.0000	F04
AB33968	Microcystins ADDA	1.785 Abs	0.2411 ng/mL		0.1500 - 5.0000	G04
AB33968	Microcystins ADDA	2.049 Abs [1.9170] {9.7 CV}	0.0470 ng/mL [0.1350] {95.3 C	Low [Low]	0.1500 - 5.0000	H04
AB33969	Microcystins ADDA	1.912 Abs	0.1387 ng/mL	LOW	0.1500 - 5.0000	A05
AB33969	Microcystins ADDA	1.846 Abs [1.8790] {2.5 CV}	0.1895 ng/mL [0.1635] {21.9 C		0.1500 - 5.0000	B05
AB33963LD	Microcystins ADDA	1.729 Abs	0.2927 ng/mL		0.1500 - 5.0000	C05
AB33963LD	Microcystins ADDA	2.065 Abs [1.8970] {12.5 CV}	0.0374 ng/mL [0.1498] {109.4 C	Low [Low]	0.1500 - 5.0000	D05
20180815LB	Microcystins ADDA	1.963 Abs	0.1025 ng/mL	LOW	0.1500 - 5.0000	E05
20180815LB	Microcystins ADDA	1.961 Abs [1.9620] {0.1 CV}	0.1038 ng/mL [0.1031] {0.9 CV}	Low [Low]	0.1500 - 5.0000	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

8/15/2018

Date



Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL
Assay Mode: 4-Parameter Logistic Weight by:None # 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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/15/2018 3:35:30 PM			
Std1	1.597 Abs	< 0.000 ng/mL	A01
Std1	1.457 Abs	0.098 ng/mL	B01
Std2	1.368 Abs	0.225 ng/mL	C01
Std2	1.460 Abs	0.093 ng/mL	D01
Std3	1.254 Abs	0.408 ng/mL	E01
Std3	1.276 Abs	0.370 ng/mL	F01
Std4	1.038 Abs	0.859 ng/mL	G01
Std4	0.925 Abs	1.185 ng/mL	H01
Std5	0.672 Abs	2.391 ng/mL	A02
Std5	0.643 Abs	2.606 ng/mL	B02
Std6	0.468 Abs	4.727 ng/mL	C02
Std6	0.440 Abs	> 5.000 ng/mL	D02
8/15/2018 3:35:30 PM			
Normal Control	1.082 Abs	0.752 ng/mL	F02
Normal Control	1.106 Abs	0.698 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.527	0.099	6.48				
Std2	1.414	0.065	4.60	0.159	0.093	58.70	6.00
Std3	1.265	0.016	1.23	0.389	0.027	6.91	-2.75
Std4	0.982	0.080	8.14	1.022	0.231	22.56	2.20
Std5	0.658	0.021	3.12	2.498	0.152	6.08	-0.08
Std6	0.454	0.020	4.36				-100.00
Normal Control	1.094	0.017	1.55	0.725	0.038	5.27	

