



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB32882	Southern Basin (Field Duplicate)	5/21/2018	5/22/2018	< 0.30
AB32884	Southern Basin Inn's Beach	5/21/2018	5/22/2018	< 0.30
AB32885	Pokagon SP	5/21/2018	5/22/2018	< 0.30
AB32886	Chain O' Lakes SP	5/21/2018	5/22/2018	< 0.30
AB32887	Kunkel Beach @ Ouabache SP	5/21/2018	5/22/2018	< 0.30
AB32888	Potato Creek SP	5/21/2018	5/22/2018	< 0.30
AB32889	Field Blank	5/21/2018	5/22/2018	< 0.30
AB32890	Potato Creek SP	5/21/2018	5/22/2018	< 0.30
AB32891	Lost Bridge West SPA	5/21/2018	5/22/2018	< 0.30
AB32892	Mississinewa Lake Miami SRA	5/21/2018	5/22/2018	< 0.30
AB32887LD	Kunkel Beach (Lab Duplicate)	5/21/2018	5/22/2018	< 0.30
20180521LB	Lab Blank	5/21/2018	5/22/2018	< 0.30



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
5/22/2018 3:51:15 PM						
Std1	Microcystins ADDA	1.851 Abs	0.0162 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.917 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.573 Abs	0.1559 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.629 Abs	0.1235 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.208 Abs	0.4691 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.266 Abs	0.4024 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.972 Abs	0.8767 ng/mL		1.0000	G01
Std4	Microcystins ADDA	0.937 Abs	0.9673 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.680 Abs	2.3369 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.733 Abs	1.8778 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.560 Abs	4.5825 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.536 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.052 Abs	0.7059 ng/mL			E02
Normal Control	Microcystins ADDA	1.131 Abs	0.5736 ng/mL			F02
AB32882	Microcystins ADDA	1.716 Abs	0.0780 ng/mL	LOW	0.1500 - 5.0000	G02
AB32882	Microcystins ADDA	1.809 Abs [1.7625] {3.7 C	0.0346 ng/mL [0.0557] {54.5 C	Low [Low]	0.1500 - 5.0000	H02
AB32884	Microcystins ADDA	1.729 Abs	0.0717 ng/mL	LOW	0.1500 - 5.0000	A03
AB32884	Microcystins ADDA	1.831 Abs [1.7800] {4.1 C	0.0249 ng/mL [0.0477] {68.5 C	Low [Low]	0.1500 - 5.0000	B03
AB32885	Microcystins ADDA	1.819 Abs	0.0302 ng/mL	LOW	0.1500 - 5.0000	C03
AB32885	Microcystins ADDA	1.796 Abs [1.8075] {0.9 C	0.0404 ng/mL [0.0353] {20.4 C	Low [Low]	0.1500 - 5.0000	D03
AB32886	Microcystins ADDA	1.742 Abs	0.0654 ng/mL	LOW	0.1500 - 5.0000	E03
AB32886	Microcystins ADDA	1.759 Abs [1.7505] {0.7 C	0.0574 ng/mL [0.0614] {9.2 CV	Low [Low]	0.1500 - 5.0000	F03
AB32887	Microcystins ADDA	1.767 Abs	0.0536 ng/mL	LOW	0.1500 - 5.0000	G03
AB32887	Microcystins ADDA	1.808 Abs [1.7875] {1.6 C	0.0350 ng/mL [0.0442] {29.7 C	Low [Low]	0.1500 - 5.0000	H03
AB32888	Microcystins ADDA	1.557 Abs	0.1657 ng/mL		0.1500 - 5.0000	A04
AB32888	Microcystins ADDA	1.557 Abs [1.5570] {0.0 C	0.1657 ng/mL [0.1657] {0.0 CV		0.1500 - 5.0000	B04
AB32889	Microcystins ADDA	1.846 Abs	0.0184 ng/mL	LOW	0.1500 - 5.0000	C04
AB32889	Microcystins ADDA	1.737 Abs [1.7915] {4.3 C	0.0678 ng/mL [0.0424] {81.0 C	Low [Low]	0.1500 - 5.0000	D04
AB32890	Microcystins ADDA	1.645 Abs	0.1147 ng/mL	LOW	0.1500 - 5.0000	E04
AB32890	Microcystins ADDA	1.642 Abs [1.6435] {0.1 C	0.1163 ng/mL [0.1155] {1.0 CV	Low [Low]	0.1500 - 5.0000	F04
AB32891	Microcystins ADDA	1.814 Abs	0.0324 ng/mL	LOW	0.1500 - 5.0000	G04
AB32891	Microcystins ADDA	1.822 Abs [1.8180] {0.3 C	0.0289 ng/mL [0.0306] {8.1 CV	Low [Low]	0.1500 - 5.0000	H04
AB32892	Microcystins ADDA	1.605 Abs	0.1370 ng/mL	LOW	0.1500 - 5.0000	A05
AB32892	Microcystins ADDA	1.711 Abs [1.6580] {4.5 C	0.0805 ng/mL [0.1077] {36.7 C	Low [Low]	0.1500 - 5.0000	B05
AB32887LD	Microcystins ADDA	1.786 Abs	0.0449 ng/mL	LOW	0.1500 - 5.0000	C05
AB32887LD	Microcystins ADDA	1.862 Abs [1.8240] {2.9 C	0.0115 ng/mL [0.0280] {83.7 C	Low [Low]	0.1500 - 5.0000	D05
20180521LB	Microcystins ADDA	1.815 Abs	0.0319 ng/mL	LOW	0.1500 - 5.0000	E05
20180521LB	Microcystins ADDA	1.845 Abs [1.8300] {1.2 C	0.0188 ng/mL [0.0253] {36.5 C	Low [Low]	0.1500 - 5.0000	F05
Check Sample ^{AB} A	Microcystins ADDA	0.784 Abs	1.5582 ng/mL		0.1500 - 5.0000	G05
Check Sample ^{AB} B	Microcystins ADDA	0.797 Abs [0.7905] {1.2 C	1.4901 ng/mL [1.5236] {3.2 CV		0.1500 - 5.0000	H05
Check Sample ^{BC} B	Microcystins ADDA	0.458 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A06
Check Sample ^{BC} C	Microcystins ADDA	0.496 Abs [0.4770] {5.6 C	> 5.0000 ng/mL [> 5.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	B06
Check Sample ^{CA} C	Microcystins ADDA	1.833 Abs	0.0240 ng/mL	LOW	0.1500 - 5.0000	C06
Check Sample ^{CA} A	Microcystins ADDA	1.762 Abs [1.7975] {2.8 C	0.0560 ng/mL [0.0397] {56.6 C	Low [Low]	0.1500 - 5.0000	D06

5/22/18
BR

The data in this report is preliminary without a quality control report. This data is not warranted for accuracy or other purposes.

Betty Ratchley

Laboratory Analyst Signature

5/23/18

Date



Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA Units: ng/mL
Assay Mode: 4-Parameter Logistic Weight # of decimals: 4
Normal: by 500e 5.0000 Assay Description:

Controls:

Normal Control

Standards:

Std1, Concentration = 0.0000, Minimum number to use: 2
Std2, Concentration = 0.1500, Minimum number to use: 2
Std3, Concentration = 0.4000, Minimum number to use: 2
Std4, Concentration = 1.0000, Minimum number to use: 2
Std5, Concentration = 2.0000, Minimum number to use: 2
Std6, Concentration = 5.0000, Minimum number to use: 2
Curve valid interval: 7 days 0 hours

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
5/22/2018 3:51:15 PM			
Std1	1.851 Abs	0.0162 ng/mL	A01
Std1	1.917 Abs	< 0.0000 ng/mL	B01
Std2	1.573 Abs	0.1559 ng/mL	C01
Std2	1.629 Abs	0.1235 ng/mL	D01
Std3	1.208 Abs	0.4691 ng/mL	E01
Std3	1.266 Abs	0.4024 ng/mL	F01
Std4	0.972 Abs	0.8767 ng/mL	G01
Std4	0.937 Abs	0.9673 ng/mL	H01
Std5	0.680 Abs	2.3369 ng/mL	A02
Std5	0.733 Abs	1.8778 ng/mL	B02
Std6	0.560 Abs	4.5825 ng/mL	C02
Std6	0.536 Abs	> 5.0000 ng/mL	D02
5/22/2018 3:51:15 PM			
Normal Control	1.131 Abs	0.5736 ng/mL	F02
Normal Control	1.052 Abs	0.7059 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.884	0.047	2.48				
Std2	1.601	0.040	2.47	0.140	0.023	16.40	-6.67
Std3	1.237	0.041	3.32	0.436	0.047	10.82	9.00
Std4	0.954	0.025	2.59	0.922	0.064	6.95	-7.80
Std5	0.706	0.037	5.30	2.107	0.325	15.40	5.35
Std6	0.548	0.017	3.10				-100.00
Normal Control	1.092	0.056	5.12	0.640	0.094	14.62	

