Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB26462	Paynetown (Field Duplicate)	8/8/2016	8/10/2016	0.15
AB26463	Field Blank	8/8/2016	8/10/2016	< 0.15
AB26464	Paynetown SRA	8/8/2016	8/10/2016	< 0.15
AB26465	Raccoon Lake SRA	8/8/2016	8/10/2016	< 0.15
AB26466	Whitewater Memorial SP	8/9/2016	8/10/2016	< 0.15
AB26466LD	Whitewater (Lab Duplicate)	8/9/2016	8/10/2016	< 0.15
AB26467	Quakertown SRA	8/9/2016	8/10/2016	0.23
AB26468	Mounds SRA	8/9/2016	8/10/2016	0.26
AB26469	Hardy Lake SRA	8/9/2016	8/10/2016	< 0.15
20160808LB	Lab Blank	8/8/2016	8/10/2016	< 0.15

IDEM

Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA
Assay Mode: 4-Parameter Logistic
Normal: 0.1500 - 5.0000

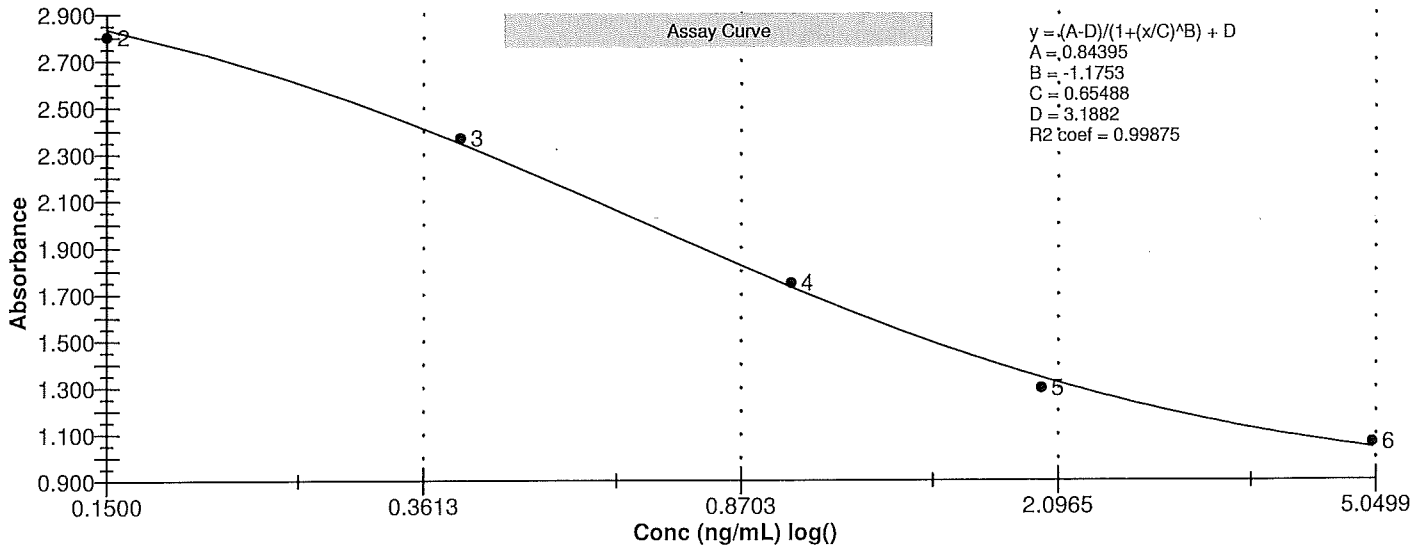
Units: ng/mL
# of decimals: 4
Assay Description:

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
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/10/2016 2:04:20 PM			
Std1	3.178 Abs	0.0064 ng/mL	A01
Std1	3.222 Abs	< 0.0000 ng/mL	B01
Std2	2.769 Abs	0.1790 ng/mL	C01
Std2	2.841 Abs	0.1478 ng/mL	D01
Std3	2.316 Abs	0.4195 ng/mL	E01
Std3	2.424 Abs	0.3530 ng/mL	F01
Std4	1.733 Abs	0.9960 ng/mL	G01
Std4	1.764 Abs	0.9496 ng/mL	H01
Std5	1.330 Abs	2.0500 ng/mL	A02
Std5	1.263 Abs	2.3970 ng/mL	B02
Std6	1.073 Abs	4.3400 ng/mL	C02
Std6	1.053 Abs	4.7300 ng/mL	D02
8/10/2016 2:04:20 PM			
Normal Control	1.814 Abs	0.8806 ng/mL	F02
Normal Control	1.822 Abs	0.8702 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	3.200	0.031	0.97				
Std2	2.805	0.051	1.82	0.163	0.022	13.50	8.67
Std3	2.370	0.076	3.22	0.386	0.047	12.17	-3.50
Std4	1.749	0.022	1.25	0.973	0.033	3.37	-2.70
Std5	1.296	0.047	3.65	2.224	0.245	11.04	11.20
Std6	1.063	0.014	1.33	4.535	0.276	6.08	-9.30
Normal Control	1.818	0.006	0.31	0.875	0.007	0.84	



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Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/10/2016 2:04:20 PM			
Std1	Microcystins ADDA	3.178 Abs	0.0064 ng/mL	Out(A)	0.0000	A01
Std1	Microcystins ADDA	3.222 Abs	< 0.0000 ng/mL	Out(A)	0.0000	B01
Std2	Microcystins ADDA	2.769 Abs	0.1790 ng/mL		0.1500	C01
Std2	Microcystins ADDA	2.841 Abs	0.1478 ng/mL		0.1500	D01
Std3	Microcystins ADDA	2.316 Abs	0.4195 ng/mL		0.4000	E01
Std3	Microcystins ADDA	2.424 Abs	0.3530 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.733 Abs	0.9960 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.764 Abs	0.9496 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.330 Abs	2.0500 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.263 Abs	2.3970 ng/mL		2.0000	B02
Std6	Microcystins ADDA	1.073 Abs	4.3400 ng/mL		5.0000	C02
Std6	Microcystins ADDA	1.053 Abs	4.7300 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.822 Abs	0.8702 ng/mL			E02
Normal Control	Microcystins ADDA	1.814 Abs	0.8806 ng/mL			F02
AB26462	Microcystins ADDA	2.927 Abs	0.1119 ng/mL	**LOW**	0.1500 - 5.0000	G02
AB26462	Microcystins ADDA	2.734 Abs [2.8305] {4.8 C	0.1946 ng/mL [0.1523] {38.2 C		0.1500 - 5.0000	H02
AB26463	Microcystins ADDA	3.233 Abs	< 0.0000 ng/mL	Out(A,LR)	0.1500 - 5.0000	A03
AB26463	Microcystins ADDA	3.071 Abs [3.1520] {3.6 C	0.0535 ng/mL [0.0191]	**LOW, OUT(A) [LOW]**	0.1500 - 5.0000	B03
AB26464	Microcystins ADDA	3.161 Abs	0.0149 ng/mL	**LOW, OUT(A)**	0.1500 - 5.0000	C03
AB26464	Microcystins ADDA	2.902 Abs [3.0315] {6.0 C	0.1222 ng/mL [0.0695] {110.7 C	Low [Low]	0.1500 - 5.0000	D03
AB26465	Microcystins ADDA	2.724 Abs	0.1992 ng/mL		0.1500 - 5.0000	E03
AB26465	Microcystins ADDA	3.147 Abs [2.9355] {10.2	0.0214 ng/mL [0.1084] {114.0 C	**LOW, OUT(A) [LOW]**	0.1500 - 5.0000	F03
AB26466	Microcystins ADDA	3.187 Abs	0.0010 ng/mL	**LOW, OUT(A)**	0.1500 - 5.0000	G03
AB26466	Microcystins ADDA	2.929 Abs [3.0580] {6.0 C	0.1111 ng/mL [0.0587] {138.9 C	Low [Low]	0.1500 - 5.0000	H03
AB26466LD	Microcystins ADDA	3.083 Abs	0.0485 ng/mL	**LOW, OUT(A)**	0.1500 - 5.0000	A04
AB26466LD	Microcystins ADDA	2.973 Abs [3.0280] {2.6 C	0.0931 ng/mL [0.0709] {44.5 C	Low [Low]	0.1500 - 5.0000	B04
AB26467	Microcystins ADDA	2.675 Abs	0.2218 ng/mL		0.1500 - 5.0000	C04
AB26467	Microcystins ADDA	2.652 Abs [2.6635] {0.6 C	0.2328 ng/mL [0.2273] {3.4 CV		0.1500 - 5.0000	D04
AB26468	Microcystins ADDA	2.567 Abs	0.2749 ng/mL		0.1500 - 5.0000	E04
AB26468	Microcystins ADDA	2.643 Abs [2.6050] {2.1 C	0.2371 ng/mL [0.2557] {10.4 C		0.1500 - 5.0000	F04
AB26469	Microcystins ADDA	2.839 Abs	0.1487 ng/mL	**LOW**	0.1500 - 5.0000	G04
AB26469	Microcystins ADDA	2.861 Abs [2.8500] {0.5 C	0.1393 ng/mL [0.1440] {4.6 CV	Low [Low]	0.1500 - 5.0000	H04
20160808LB	Microcystins ADDA	3.139 Abs	0.0249 ng/mL	**LOW, OUT(A)**	0.1500 - 5.0000	A05
20160808LB	Microcystins ADDA	3.104 Abs [3.1215] {0.8 C	0.0399 ng/mL [0.0325] {32.7 C	**LOW, OUT(A) [LOW]**	0.1500 - 5.0000	B05

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

Laboratory Analyst Signature

8/10/16

Date