Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB25977	Fairfax SRA	6/28/2016	6/29/2016	< 0.15
AB25978	Paynetown SRA	6/28/2016	6/29/2016	< 0.15
AB25979	Hardy Lake SRA	6/28/2016	6/29/2016	0.57
AB25980	Raccoon Lake SRA	6/27/2016	6/29/2016	< 0.15
AB25981	Whitewater Memorial SP	6/27/2016	6/29/2016	< 0.15
AB25982	Quakertown SRA	6/27/2016	6/29/2016	< 0.15
AB25983	Mounds SRA	6/27/2016	6/29/2016	< 0.15
AB25983LD	Mounds SRA (Lab Duplicate)	6/27/2016	6/29/2016	0.19
AB25984	Starve Hollow SRA	6/28/2016	6/29/2016	< 0.15
AB25985	Deam Lake SRA	6/28/2016	6/29/2016	< 0.15
AB25986	Field Blank	6/27/2016	6/29/2016	< 0.15
AB25987	Whitewater (Field Duplicate)	6/27/2016	6/29/2016	< 0.15
20160629LB	Lab Blank	6/27/2016	6/29/2016	< 0.15

Assay Calibration Report

Assay Information

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

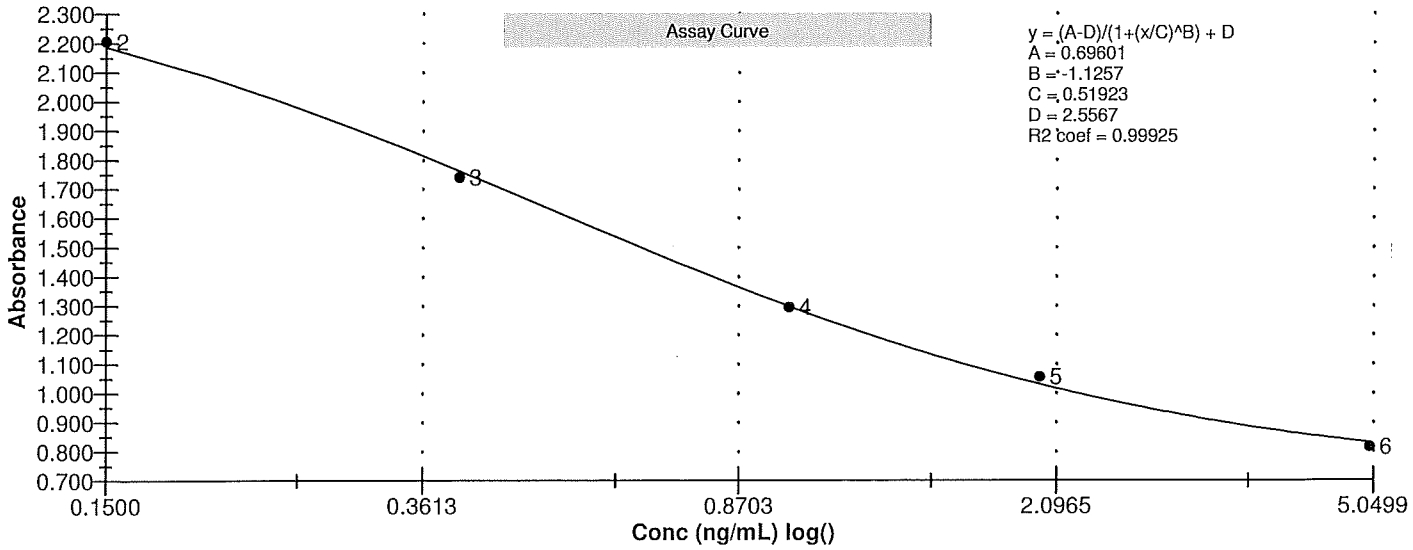
Units: ng/mL
# of decimals: 4
Assay Description:

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
6/29/2016 1:19:25 PM			
Std1	2.566 Abs	< 0.0000 ng/mL	A01
Std1	2.536 Abs	0.0097 ng/mL	B01
Std2	2.247 Abs	0.1241 ng/mL	C01
Std2	2.166 Abs	0.1600 ng/mL	D01
Std3	1.741 Abs	0.4166 ng/mL	F01
Std4	1.286 Abs	1.0265 ng/mL	G01
Std4	1.304 Abs	0.9870 ng/mL	H01
Std5	1.040 Abs	1.9400 ng/mL	A02
Std5	1.071 Abs	1.7645 ng/mL	B02
Std6	0.800 Abs	> 5.0000 ng/mL	C02
Std6	0.832 Abs	4.9600 ng/mL	D02
6/29/2016 1:19:25 PM			
Normal Control	1.573 Abs	0.5750 ng/mL	F02
Normal Control	1.571 Abs	0.5771 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.551	0.021	0.83				
Std2	2.207	0.057	2.60	0.142	0.025	17.87	-5.33
Std3	1.741			0.417			4.25
Std4	1.295	0.013	0.98	1.007	0.028	2.77	0.70
Std5	1.056	0.022	2.08	1.852	0.124	6.70	-7.40
Std6	0.816	0.023	2.77				-100.00
Normal Control	1.572	0.001	0.09	0.576	0.001	0.26	



IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			6/29/2016 1:19:25 PM			
Std1	Microcystins ADDA	2.566 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.536 Abs	0.0102 ng/mL		0.0000	B01
Std2	Microcystins ADDA	2.247 Abs	0.1208 ng/mL		0.1500	C01
Std2	Microcystins ADDA	2.166 Abs	0.1556 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.684 Abs	0.4531 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.741 Abs	0.4058 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.286 Abs	1.0070 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.304 Abs	0.9675 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.040 Abs	1.9235 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.071 Abs	1.7450 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.800 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.832 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.571 Abs	0.5771 ng/mL			E02
Normal Control	Microcystins ADDA	1.573 Abs	0.5750 ng/mL			F02
AB25977	Microcystins ADDA	2.484 Abs	0.0302 ng/mL	LOW	0.1500 - 5.0000	G02
AB25977	Microcystins ADDA	2.508 Abs [2.4960] {0.7 C	0.0209 ng/mL [0.0256] {25.7 C	Low [Low]	0.1500 - 5.0000	H02
AB25978	Microcystins ADDA	2.563 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A03
AB25978	Microcystins ADDA	2.466 Abs [2.5145] {2.7 C	0.0371 ng/mL [0.0183]	Low [Low]	0.1500 - 5.0000	B03
AB25979	Microcystins ADDA	1.634 Abs	0.5117 ng/mL		0.1500 - 5.0000	C03
AB25979	Microcystins ADDA	1.515 Abs [1.5745] {5.3 C	0.6430 ng/mL [0.5733] {16.1 C		0.1500 - 5.0000	D03
AB25980	Microcystins ADDA	2.386 Abs	0.0677 ng/mL	LOW	0.1500 - 5.0000	E03
AB25980	Microcystins ADDA	2.432 Abs [2.4090] {1.4 C	0.0501 ng/mL [0.0589] {21.1 C	Low [Low]	0.1500 - 5.0000	F03
AB25981	Microcystins ADDA	2.466 Abs	0.0371 ng/mL	LOW	0.1500 - 5.0000	G03
AB25981	Microcystins ADDA	2.530 Abs [2.4980] {1.8 C	0.0121 ng/mL [0.0248] {71.9 C	Low [Low]	0.1500 - 5.0000	H03
AB25982	Microcystins ADDA	2.314 Abs	0.0962 ng/mL	LOW	0.1500 - 5.0000	A04
AB25982	Microcystins ADDA	2.331 Abs [2.3225] {0.5 C	0.0894 ng/mL [0.0928] {5.2 CV	Low [Low]	0.1500 - 5.0000	B04
AB25983	Microcystins ADDA	2.310 Abs	0.0979 ng/mL	LOW	0.1500 - 5.0000	C04
AB25983	Microcystins ADDA	2.110 Abs [2.2100] {6.4 C	0.1866 ng/mL [0.1402] {44.1 C	[Low]	0.1500 - 5.0000	D04
AB25983LD	Microcystins ADDA	2.054 Abs	0.2148 ng/mL		0.1500 - 5.0000	E04
AB25983LD	Microcystins ADDA	2.147 Abs [2.1005] {3.1 C	0.1689 ng/mL [0.1912] {16.9 C		0.1500 - 5.0000	F04
AB25984	Microcystins ADDA	2.595 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G04
AB25984	Microcystins ADDA	2.525 Abs [2.5600] {1.9 C	0.0142 ng/mL [< 0.0000]	Low [Out(LR)]	0.1500 - 5.0000	H04
AB25985	Microcystins ADDA	2.333 Abs	0.0886 ng/mL	LOW	0.1500 - 5.0000	A05
AB25985	Microcystins ADDA	2.431 Abs [2.3820] {2.9 C	0.0505 ng/mL [0.0693] {38.7 C	Low [Low]	0.1500 - 5.0000	B05
AB25986	Microcystins ADDA	2.598 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C05
AB25986	Microcystins ADDA	2.543 Abs [2.5705] {1.5 C	0.0066 ng/mL [< 0.0000]	Low [Out(LR)]	0.1500 - 5.0000	D05
AB25987	Microcystins ADDA	2.468 Abs	0.0363 ng/mL	LOW	0.1500 - 5.0000	E05
AB25987	Microcystins ADDA	2.455 Abs [2.4615] {0.4 C	0.0413 ng/mL [0.0388] {9.1 CV	Low [Low]	0.1500 - 5.0000	F05
20160627LB	Microcystins ADDA	2.664 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G05
20160627LB	Microcystins ADDA	2.600 Abs [2.6320] {1.7 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H05

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

6/29/16

Date