Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB30320	Paynetown SRA	8/21/2017	8/23/2017	< 0.30
AB30321	Starve Hollow SRA	8/21/2017	8/23/2017	< 0.30
AB30322	Hardy Lake SRA	8/21/2017	8/23/2017	< 0.30
AB30323	Whitewater Memorial SP	8/22/2017	8/23/2017	< 0.30
AB30324	Quakertown SRA	8/22/2017	8/23/2017	< 0.30
AB30325	Mounds SRA	8/22/2017	8/23/2017	< 0.30
AB30326	Raccoon Lake SRA	8/22/2017	8/23/2017	< 0.30
AB30327	Quakertown (Field Duplicate)	8/22/2017	8/23/2017	< 0.30
AB30328	Field Blank	8/22/2017	8/23/2017	< 0.30
AB30320LD	Paynetown (Lab Duplicate)	8/21/2017	8/23/2017	< 0.30
20170821LB	Lab Blank	8/21/2017	8/23/2017	< 0.30

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:

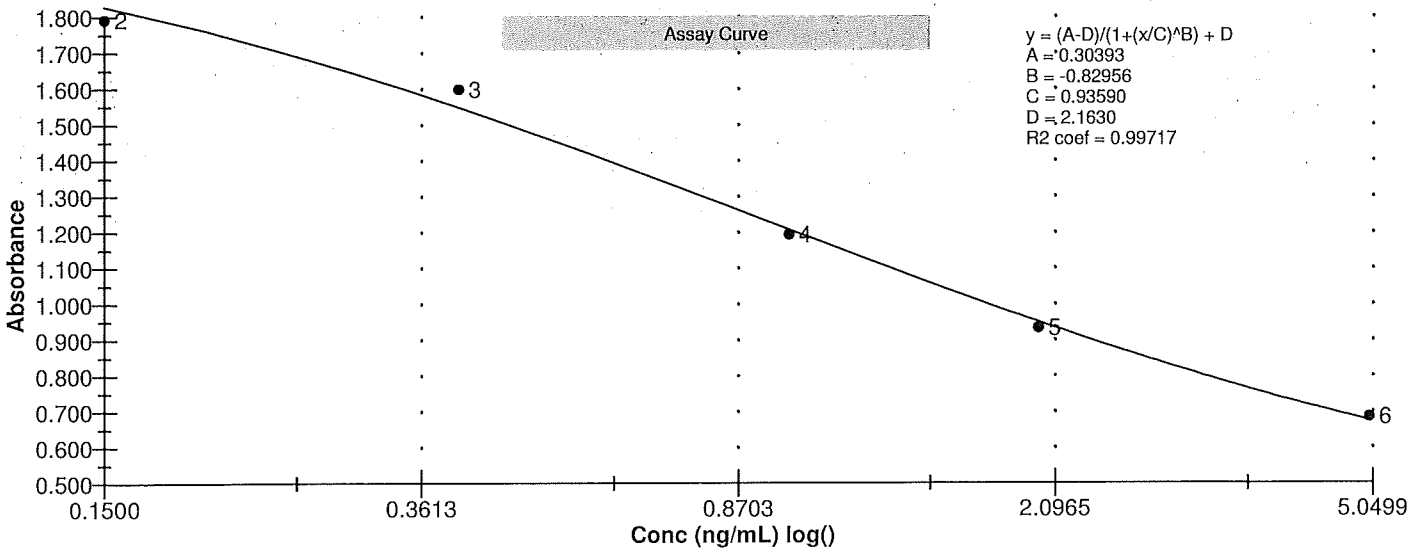
Controls:
Normal Control
Standards:
Std1, Concentration = 0.0000, Minimum number to use: 2
Std2, Concentration = 0.1500, Minimum number to use: 2
Std3, Concentration = 0.4000, Minimum number to use: 2
Std4, Concentration = 1.0000, Minimum number to use: 2
Std5, Concentration = 2.0000, Minimum number 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
8/23/2017 6:30:30 PM			
Std1	2.186 Abs	< 0.0000 ng/mL	A01
Std1	2.153 Abs	0.0018 ng/mL	B01
Std2	1.762 Abs	0.1975 ng/mL	C01
Std2	1.825 Abs	0.1526 ng/mL	D01
Std3	1.564 Abs	0.3820 ng/mL	E01
Std3	1.632 Abs	0.3100 ng/mL	F01
Std4	1.211 Abs	0.9920 ng/mL	G01
Std4	1.178 Abs	1.0810 ng/mL	H01
Std5	0.921 Abs	2.1750 ng/mL	A02
Std5	0.944 Abs	2.0350 ng/mL	B02
Std6	0.687 Abs	4.7595 ng/mL	C02
Std6	0.683 Abs	4.8350 ng/mL	D02
8/23/2017 6:30:30 PM			
Normal Control	1.364 Abs	0.6655 ng/mL	F02
Normal Control	1.391 Abs	0.6195 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.170	0.023	1.08				
Std2	1.793	0.045	2.48	0.175	0.032	18.14	16.67
Std3	1.598	0.048	3.01	0.346	0.051	14.71	-13.50
Std4	1.194	0.023	1.95	1.036	0.063	6.07	3.60
Std5	0.933	0.016	1.74	2.105	0.099	4.70	5.25
Std6	0.685	0.003	0.41	4.797	0.053	1.11	-4.06
Normal Control	1.378	0.019	1.39	0.642	0.033	5.06	

Assay Curve



IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/23/2017 6:30:30 PM			
Std1	Microcystins ADDA	2.186 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.153 Abs	0.0018 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.762 Abs	0.1975 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.825 Abs	0.1526 ng/mL		0.1500	D01
Std3	Microcystins ADDA	1.564 Abs	0.3820 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.632 Abs	0.3100 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.211 Abs	0.9920 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.178 Abs	1.0810 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.921 Abs	2.1750 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.944 Abs	2.0350 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.687 Abs	4.7595 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.683 Abs	4.8350 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	1.391 Abs	0.6195 ng/mL			E02
Normal Control	Microcystins ADDA	1.364 Abs	0.6655 ng/mL			F02
AB30320	Microcystins ADDA	2.044 Abs	0.0369 ng/mL	**LOW**	0.1500 - 5.0000	G02
AB30320	Microcystins ADDA	2.075 Abs [2.0595] {1.1 C	0.0251 ng/mL [0.0309] {26.9 C'	Low [Low]	0.1500 - 5.0000	H02
AB30321	Microcystins ADDA	2.139 Abs	0.0050 ng/mL	**LOW**	0.1500 - 5.0000	A03
AB30321	Microcystins ADDA	2.133 Abs [2.1360] {0.2 C	0.0066 ng/mL [0.0058] {19.5 C'	Low [Low]	0.1500 - 5.0000	B03
AB30322	Microcystins ADDA	1.899 Abs	0.1071 ng/mL	**LOW**	0.1500 - 5.0000	C03
AB30322	Microcystins ADDA	1.965 Abs [1.9320] {2.4 C	0.0720 ng/mL [0.0889] {27.7 C'	Low [Low]	0.1500 - 5.0000	D03
AB30323	Microcystins ADDA	2.160 Abs	0.0004 ng/mL	**LOW**	0.1500 - 5.0000	E03
AB30323	Microcystins ADDA	2.071 Abs [2.1155] {3.0 C	0.0266 ng/mL [0.0116] {137.2 C	Low [Low]	0.1500 - 5.0000	F03
AB30324	Microcystins ADDA	2.031 Abs	0.0422 ng/mL	**LOW**	0.1500 - 5.0000	G03
AB30324	Microcystins ADDA	2.009 Abs [2.0200] {0.8 C	0.0516 ng/mL [0.0468] {14.2 C'	Low [Low]	0.1500 - 5.0000	H03
AB30325	Microcystins ADDA	1.940 Abs	0.0847 ng/mL	**LOW**	0.1500 - 5.0000	A04
AB30325	Microcystins ADDA	2.002 Abs [1.9710] {2.2 C	0.0547 ng/mL [0.0692] {30.4 C'	Low [Low]	0.1500 - 5.0000	B04
AB30326	Microcystins ADDA	1.842 Abs	0.1416 ng/mL	**LOW**	0.1500 - 5.0000	C04
AB30326	Microcystins ADDA	1.886 Abs [1.8640] {1.7 C	0.1146 ng/mL [0.1277] {14.9 C'	Low [Low]	0.1500 - 5.0000	D04
AB30327	Microcystins ADDA	2.000 Abs	0.0556 ng/mL	**LOW**	0.1500 - 5.0000	E04
AB30327	Microcystins ADDA	1.981 Abs [1.9905] {0.7 C	0.0644 ng/mL [0.0599] {10.4 C'	Low [Low]	0.1500 - 5.0000	F04
AB30328	Microcystins ADDA	2.118 Abs	0.0109 ng/mL	**LOW**	0.1500 - 5.0000	G04
AB30328	Microcystins ADDA	2.247 Abs [2.1825] {4.2 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	H04
AB30329	Microcystins ADDA	2.168 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A05
AB30329	Microcystins ADDA	2.091 Abs [2.1295] {2.6 C	0.0195 ng/mL [0.0076]	Low [Low]	0.1500 - 5.0000	B05
AB30320LD	Microcystins ADDA	1.990 Abs	0.0602 ng/mL	**LOW**	0.1500 - 5.0000	C05
AB30320LD	Microcystins ADDA	1.928 Abs [1.9590] {2.2 C	0.0910 ng/mL [0.0750] {28.8 C'	Low [Low]	0.1500 - 5.0000	D05
20170821LB	Microcystins ADDA	2.157 Abs	0.0010 ng/mL	**LOW**	0.1500 - 5.0000	E05
20170821LB	Microcystins ADDA	2.221 Abs [2.1890] {2.1 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	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.

Laboratory Analyst Signature

8/24/17
Date