Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB18326	Field Blank	7/7/2014	7/9/2014	< 0.150
AB18327	Fairfax SRA	7/7/2014	7/9/2014	< 0.150
AB18328	Paynetown SRA	7/7/2014	7/9/2014	< 0.150
AB18329	Starve Hollow SRA	7/7/2014	7/9/2014	< 0.150
AB18330	Deam Lake SRA	7/7/2014	7/9/2014	< 0.150
AB18331	Hardy Lake SRA	7/7/2014	7/9/2014	< 0.150
AB18327LD	Fairfax SRA (Lab Duplicate)	7/7/2014	7/9/2014	< 0.150
20140707LB	Lab Blank	7/7/2014	7/9/2014	< 0.150
AB18325	Raccoon Lake (Field Duplicate)	7/8/2014	7/9/2014	< 0.150
AB18332	Raccoon Lake SRA	7/8/2014	7/9/2014	< 0.150
AB18333	Whitewater Memorial SP	7/8/2014	7/9/2014	< 0.150
AB18334	Quakertown SRA	7/8/2014	7/9/2014	< 0.150
AB18335	Mounds SRA	7/8/2014	7/9/2014	< 0.150

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:

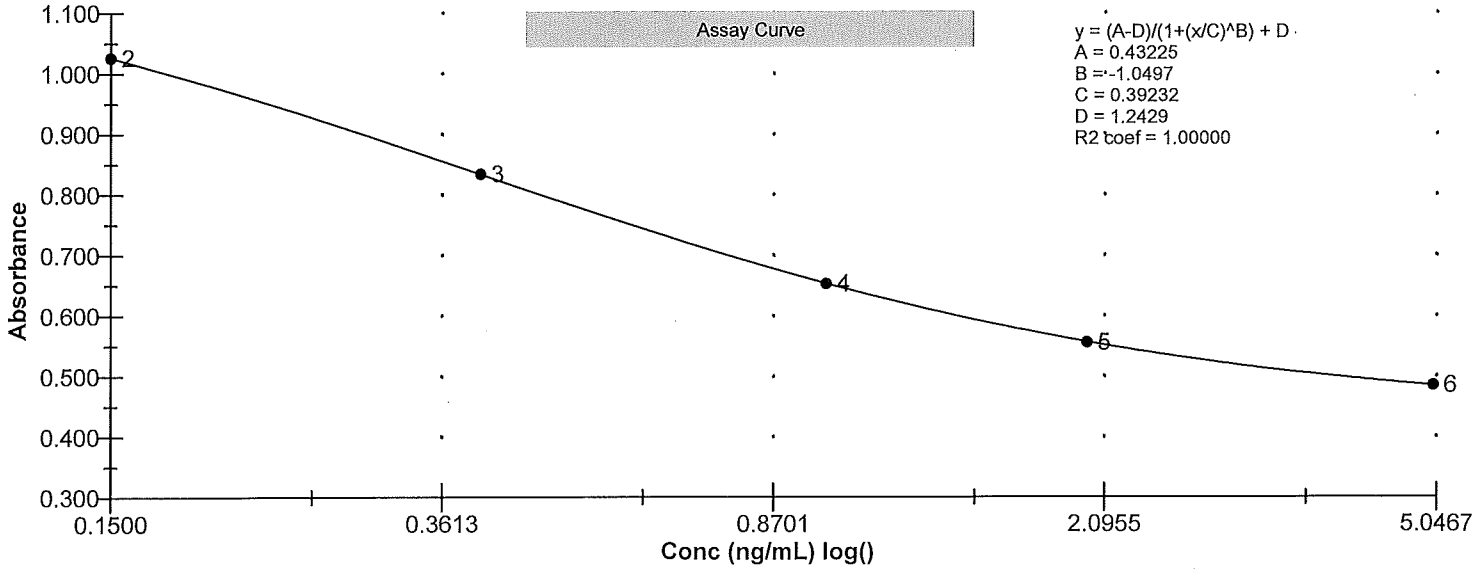
Controls:
Normal Control
Standards:
Std1, Concentration = 0.0000, Minimum number to use: 2
Std2, Concentration = 0.1500, Minimum number to use: 2
Std3, Concentration = 0.4000, Minimum number to use: 2
Std4, Concentration = 1.0000, Minimum number to use: 2
Std5, Concentration = 2.0000, Minimum number 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
7/9/2014 11:12:35 AM			
Std1	1.242 Abs	0.0006 ng/mL	A01
Std1	1.245 Abs	< 0.0000 ng/mL	B01
Std2	1.004 Abs	0.1708 ng/mL	C01
Std2	1.049 Abs	0.1303 ng/mL	D01
Std3	0.803 Abs	0.4615 ng/mL	E01
Std3	0.865 Abs	0.3447 ng/mL	F01
Std4	0.627 Abs	1.1750 ng/mL	G01
Std4	0.680 Abs	0.8575 ng/mL	H01
Std5	0.561 Abs	1.9200 ng/mL	A02
Std5	0.551 Abs	2.1050 ng/mL	B02
Std6	0.478 Abs	> 5.0000 ng/mL	C02
Std6	0.492 Abs	4.3700 ng/mL	D02
7/9/2014 11:12:35 AM			
Normal Control	0.813 Abs	0.4405 ng/mL	F02
Normal Control	0.724 Abs	0.6790 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.243	0.002	0.17				
Std2	1.026	0.032	3.10	0.151	0.029	19.02	0.67
Std3	0.834	0.044	5.26	0.403	0.083	20.49	0.75
Std4	0.653	0.037	5.73	1.016	0.225	22.09	1.60
Std5	0.556	0.007	1.27	2.013	0.131	6.50	0.65
Std6	0.485	0.010	2.04				-100.00
Normal Control	0.768	0.063	8.19	0.560	0.169	30.13	

Assay Curve



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			7/9/2014 11:12:35 AM			
Std1	Microcystins ADDA	1.242 Abs	0.0006 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.245 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.004 Abs	0.1708 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.049 Abs	0.1303 ng/mL		0.1500	D01
Std3	Microcystins ADDA	0.803 Abs	0.4615 ng/mL		0.4000	E01
Std3	Microcystins ADDA	0.865 Abs	0.3447 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.627 Abs	1.1750 ng/mL		1.0000	G01
Std4	Microcystins ADDA	0.680 Abs	0.8575 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.561 Abs	1.9200 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.551 Abs	2.1050 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.478 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.492 Abs	4.3700 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.724 Abs	0.6790 ng/mL			E02
AB18326	Microcystins ADDA	1.332 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G02
AB18326	Microcystins ADDA	1.482 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H02
AB18327	Microcystins ADDA	1.040 Abs	0.1380 ng/mL	LOW	0.1500 - 5.0000	A03
AB18327	Microcystins ADDA	1.169 Abs	0.0439 ng/mL	LOW	0.1500 - 5.0000	B03
AB18328	Microcystins ADDA	1.680 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C03
AB18328	Microcystins ADDA	1.765 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	D03
AB18329	Microcystins ADDA	1.857 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E03
AB18329	Microcystins ADDA	1.806 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F03
AB18330	Microcystins ADDA	1.879 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G03
AB18330	Microcystins ADDA	1.946 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H03
AB18331	Microcystins ADDA	1.394 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A04
AB18331	Microcystins ADDA	1.196 Abs	0.0275 ng/mL	LOW	0.1500 - 5.0000	B04
AB18327LD	Microcystins ADDA	1.534 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C04
AB18327LD	Microcystins ADDA	1.564 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	D04
20140707LB	Microcystins ADDA	1.615 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E04
20140707LB	Microcystins ADDA	1.564 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F04
AB18325	Microcystins ADDA	1.640 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G04
AB18332	Microcystins ADDA	1.707 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A05
AB18332	Microcystins ADDA	1.617 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B05
AB18333	Microcystins ADDA	1.695 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C05
AB18333	Microcystins ADDA	1.562 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	D05
AB18334	Microcystins ADDA	1.653 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E05
AB18334	Microcystins ADDA	1.532 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F05
AB18335	Microcystins ADDA	1.389 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G05

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

Betty Ratcliff 7/10/14

Laboratory Analyst Signature

Secondary Analyst Signature

Signature