Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22616	Potato Creek (Field Duplicate)	7/27/2015	7/30/2015	0.19
AB22617	Field Blank	7/27/2015	7/30/2015	< 0.150
AB22618	Potato Creek	7/27/2015	7/30/2015	0.30
AB22618LD	Potato Creek (Lab Duplicate)	7/27/2015	7/30/2015	0.31
20150729LB	Lab Blank	7/27/2015	7/30/2015	< 0.150

IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/30/2015 10:41:57 AM						
Std1	Microcystins ADDA	1.517 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.491 Abs	0.0050 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.244 Abs	0.1486 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.229 Abs	0.1603 ng/mL		0.1500	D01
Std3	Microcystins ADDA	0.997 Abs	0.4241 ng/mL		0.4000	E01
Std3	Microcystins ADDA	1.060 Abs	0.3332 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.801 Abs	0.9000 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.660 Abs	1.7100 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.649 Abs	1.8145 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.507 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.501 Abs	> 5.0000 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.865 Abs	0.7765 ng/mL			E02
Normal Control	Microcystins ADDA	0.812 Abs	0.9650 ng/mL			F02
AB22605	Microcystins ADDA	1.605 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G02
AB22605	Microcystins ADDA	1.521 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H02
AB22606	Microcystins ADDA	1.467 Abs	0.0113 ng/mL	LOW	0.1500 - 5.0000	A03
AB22606	Microcystins ADDA	1.528 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B03
AB22607	Microcystins ADDA	1.436 Abs	0.0237 ng/mL	LOW	0.1500 - 5.0000	C03
AB22607	Microcystins ADDA	1.478 Abs	0.0074 ng/mL	LOW	0.1500 - 5.0000	D03
AB22608	Microcystins ADDA	1.483 Abs	0.0058 ng/mL	LOW	0.1500 - 5.0000	E03
AB22608	Microcystins ADDA	1.488 Abs	0.0042 ng/mL	LOW	0.1500 - 5.0000	F03
AB22609	Microcystins ADDA	1.060 Abs	0.3501 ng/mL		0.1500 - 5.0000	G03
AB22609	Microcystins ADDA	1.051 Abs	0.3640 ng/mL		0.1500 - 5.0000	H03
AB22610	Microcystins ADDA	1.459 Abs	0.0143 ng/mL	LOW	0.1500 - 5.0000	A04
AB22610	Microcystins ADDA	1.528 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B04
AB22611	Microcystins ADDA	1.309 Abs	0.0942 ng/mL	LOW	0.1500 - 5.0000	C04
AB22611	Microcystins ADDA	1.407 Abs	0.0371 ng/mL	LOW	0.1500 - 5.0000	D04
AB22612	Microcystins ADDA	1.482 Abs	0.0061 ng/mL	LOW	0.1500 - 5.0000	E04
AB22612	Microcystins ADDA	1.427 Abs	0.0277 ng/mL	LOW	0.1500 - 5.0000	F04
AB22613	Microcystins ADDA	1.430 Abs	0.0264 ng/mL	LOW	0.1500 - 5.0000	G04
AB22613	Microcystins ADDA	1.376 Abs	0.0532 ng/mL	LOW	0.1500 - 5.0000	H04
AB22614	Microcystins ADDA	1.363 Abs	0.0605 ng/mL	LOW	0.1500 - 5.0000	A05
AB22614	Microcystins ADDA	1.413 Abs	0.0342 ng/mL	LOW	0.1500 - 5.0000	B05
AB22615	Microcystins ADDA	1.411 Abs	0.0352 ng/mL	LOW	0.1500 - 5.0000	C05
AB22615	Microcystins ADDA	1.412 Abs	0.0347 ng/mL	LOW	0.1500 - 5.0000	D05
AB22616	Microcystins ADDA	1.236 Abs	0.1500 ng/mL		0.1500 - 5.0000	E05
AB22616	Microcystins ADDA	1.158 Abs	0.2251 ng/mL		0.1500 - 5.0000	F05
AB22617	Microcystins ADDA	1.443 Abs	0.0207 ng/mL	LOW	0.1500 - 5.0000	G05
AB22617	Microcystins ADDA	1.511 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H05
AB22618	Microcystins ADDA	1.098 Abs	0.2970 ng/mL		0.1500 - 5.0000	A06
AB22618	Microcystins ADDA	1.094 Abs	0.3022 ng/mL		0.1500 - 5.0000	B06
AB22618LD	Microcystins ADDA	1.026 Abs	0.4040 ng/mL		0.1500 - 5.0000	C06
AB22618LD	Microcystins ADDA	1.165 Abs	0.2176 ng/mL		0.1500 - 5.0000	D06
20150727LB	Microcystins ADDA	1.521 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E06
20150727LB	Microcystins ADDA	1.433 Abs	0.0250 ng/mL	LOW	0.1500 - 5.0000	F06

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

Betty Rutter

Laboratory Analyst Signature

7/30/15

Date

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
7/30/2015 10:41:57 AM			
Std1	1.517 Abs	< 0.0000 ng/mL	A01
Std1	1.491 Abs	0.0033 ng/mL	B01
Std2	1.244 Abs	0.1432 ng/mL	C01
Std2	1.229 Abs	0.1560 ng/mL	D01
Std3	0.997 Abs	0.4555 ng/mL	E01
Std3	1.060 Abs	0.3501 ng/mL	F01
Std4	0.801 Abs	1.0105 ng/mL	H01
Std5	0.660 Abs	1.9150 ng/mL	A02
Std5	0.649 Abs	2.0250 ng/mL	B02
Std6	0.507 Abs	4.9350 ng/mL	C02
Std6	0.501 Abs	> 5.0000 ng/mL	D02
7/30/2015 10:41:57 AM			
Normal Control	0.812 Abs	0.9650 ng/mL	F02
Normal Control	0.865 Abs	0.7765 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.504	0.018	1.22				
Std2	1.237	0.011	0.86	0.150	0.009	6.05	-0.00
Std3	1.028	0.045	4.33	0.403	0.075	18.50	0.75
Std4	0.801			1.010			1.00
Std5	0.655	0.008	1.19	1.970	0.078	3.95	-1.50
Std6	0.504	0.004	0.84				-100.00
Normal Control	0.839	0.037	4.47	0.871	0.133	15.31