Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22175	Potato Creek	6/30/2015	7/1/2015	2.94
AB22176	Potato Creek (Field Duplicate)	6/30/2015	7/1/2015	1.16
AB22177	Field Blank	6/30/2015	7/1/2015	< 0.150
20150629LB	Lab Blank	6/30/2015	7/1/2015	< 0.150
AB22175LD	Potato Creek (Lab Duplicate)	6/30/2015	7/1/2015	2.27

IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			7/1/2015 3:07:15 PM			
Std1	Microcystins ADDA	1.623 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.579 Abs	0.0053 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.300 Abs	0.1975 ng/mL		0.1500	C01
Std3	Microcystins ADDA	1.094 Abs	0.5201 ng/mL		0.4000	E01
Std4	Microcystins ADDA	0.933 Abs	0.9820 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.824 Abs	1.4950 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.540 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.553 Abs	4.8900 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.906 Abs	0.9200 ng/mL			E02
Normal Control	Microcystins ADDA	0.930 Abs	0.8355 ng/mL			F02
AB22175	Microcystins ADDA	0.608 Abs	3.3400 ng/mL		0.1500 - 5.0000	G02
AB22175	Microcystins ADDA	0.665 Abs	2.5440 ng/mL		0.1500 - 5.0000	H02
AB22176	Microcystins ADDA	0.879 Abs	1.0265 ng/mL		0.1500 - 5.0000	A03
AB22176	Microcystins ADDA	0.823 Abs	1.2885 ng/mL		0.1500 - 5.0000	B03
AB22177	Microcystins ADDA	1.477 Abs	0.0357 ng/mL	LOW	0.1500 - 5.0000	C03
AB22177	Microcystins ADDA	1.501 Abs	0.0257 ng/mL	LOW	0.1500 - 5.0000	D03
20150629LB	Microcystins ADDA	1.598 Abs	0.0001 ng/mL	LOW	0.1500 - 5.0000	E03
20150629LB	Microcystins ADDA	1.502 Abs	0.0253 ng/mL	LOW	0.1500 - 5.0000	F03
AB22175LD	Microcystins ADDA	0.694 Abs	2.2300 ng/mL		0.1500 - 5.0000	G03
AB22175LD	Microcystins ADDA	0.686 Abs	2.3100 ng/mL		0.1500 - 5.0000	H03
AB22166	Microcystins ADDA	1.412 Abs	0.0693 ng/mL	LOW	0.1500 - 5.0000	A04
AB22166	Microcystins ADDA	1.459 Abs	0.0440 ng/mL	LOW	0.1500 - 5.0000	B04
AB22167	Microcystins ADDA	1.404 Abs	0.0742 ng/mL	LOW	0.1500 - 5.0000	C04
AB22167	Microcystins ADDA	1.456 Abs	0.0455 ng/mL	LOW	0.1500 - 5.0000	D04
AB22168	Microcystins ADDA	1.402 Abs	0.0755 ng/mL	LOW	0.1500 - 5.0000	E04
AB22168	Microcystins ADDA	1.541 Abs	0.0120 ng/mL	LOW	0.1500 - 5.0000	F04
AB22169	Microcystins ADDA	1.496 Abs	0.0277 ng/mL	LOW	0.1500 - 5.0000	G04
AB22169	Microcystins ADDA	1.620 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H04
AB22170	Microcystins ADDA	0.800 Abs	1.4165 ng/mL		0.1500 - 5.0000	A05
AB22170	Microcystins ADDA	1.007 Abs	0.6110 ng/mL		0.1500 - 5.0000	B05
AB22171	Microcystins ADDA	1.489 Abs	0.0305 ng/mL	LOW	0.1500 - 5.0000	C05
AB22171	Microcystins ADDA	1.403 Abs	0.0748 ng/mL	LOW	0.1500 - 5.0000	D05
AB22172	Microcystins ADDA	1.437 Abs	0.0553 ng/mL	LOW	0.1500 - 5.0000	E05
AB22172	Microcystins ADDA	1.448 Abs	0.0495 ng/mL	LOW	0.1500 - 5.0000	F05
AB22173	Microcystins ADDA	1.427 Abs	0.0607 ng/mL	LOW	0.1500 - 5.0000	G05
AB22173	Microcystins ADDA	1.453 Abs	0.0470 ng/mL	LOW	0.1500 - 5.0000	H05
AB22164	Microcystins ADDA	1.221 Abs	0.2345 ng/mL		0.1500 - 5.0000	A06
AB22164	Microcystins ADDA	1.209 Abs	0.2491 ng/mL		0.1500 - 5.0000	B06
AB22165	Microcystins ADDA	1.303 Abs	0.1497 ng/mL	LOW	0.1500 - 5.0000	C06
AB22165	Microcystins ADDA	1.358 Abs	0.1051 ng/mL	LOW	0.1500 - 5.0000	D06
AB22174	Microcystins ADDA	1.412 Abs	0.0693 ng/mL	LOW	0.1500 - 5.0000	E06
AB22174	Microcystins ADDA	1.409 Abs	0.0711 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.

David Jordan
Laboratory Analyst Signature

7/1/2015
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
7/1/2015 3:07:15 PM			
Std1	1.623 Abs	< 0.0000 ng/mL	A01
Std1	1.579 Abs	0.0027 ng/mL	B01
Std2	1.300 Abs	0.1525 ng/mL	C01
Std3	1.094 Abs	0.4235 ng/mL	E01
Std4	0.933 Abs	0.8255 ng/mL	H01
Std5	0.672 Abs	2.4635 ng/mL	A02
Std6	0.540 Abs	4.7900 ng/mL	C02
Std6	0.553 Abs	4.4550 ng/mL	D02
7/1/2015 3:07:15 PM			
Normal Control	0.930 Abs	0.8355 ng/mL	F02
Normal Control	0.906 Abs	0.9200 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.601	0.031	1.94				
Std2	1.300			0.153			2.00
Std3	1.094			0.424			6.00
Std4	0.933			0.826			-17.40
Std5	0.672			2.464			23.20
Std6	0.546	0.009	1.68	4.622	0.237	5.12	-7.56
Normal Control	0.918	0.017	1.85	0.878	0.060	6.81