



## Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22192*	Potato Creek SP	7/13/2015	7/15/2015	2.950
AB22193	Pokagon SP	7/14/2015	7/15/2015	< 0.150
AB22194	Chain O'Lakes SP	7/14/2015	7/15/2015	0.380
AB22195	Lost Bridge West SRA	7/14/2015	7/15/2015	< 0.150
AB22189	Pokagon SP (Field Duplicate)	7/14/2015	7/15/2015	< 0.150
AB22190	Field Blank	7/14/2015	7/15/2015	< 0.150
AB22196	Lincoln SP	7/12/2015	7/15/2015	< 0.150
AB22197	Ferdinand SF	7/13/2015	7/15/2015	< 0.150
AB22507*	Hardy Lake	7/14/2015	7/15/2015	5.160
AB22507LD*	Hardy Lake (Lab Duplicate)	7/14/2015	7/15/2015	4.440
20150714LB	Lab Blank	7/14/2015	7/15/2015	< 0.150

\* Samples AB22192, AB22507, and AB22507LD results were above the 5.0 ppb upper limit. The samples were diluted 3X and re-run on 7/15/15 in triplicate. The mean results were 2.95, 5.16, and 4.44 ppb respectively and the Standard Deviations were 0.29, 0.78, and 0.79.



# 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

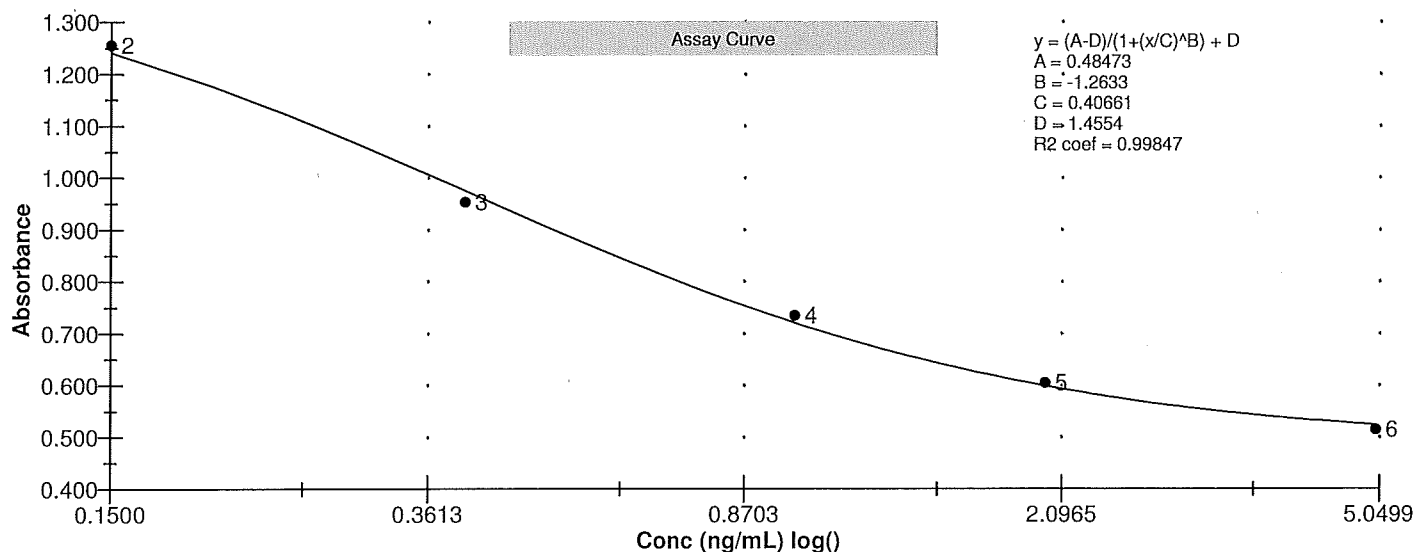
## Standards:

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
7/15/2015 11:47:48 AM			
Std1	1.464 Abs	< 0.0000 ng/mL	A01
Std1	1.439 Abs	0.0163 ng/mL	B01
Std2	1.212 Abs	0.1710 ng/mL	C01
Std2	1.299 Abs	0.1102 ng/mL	D01
Std3	0.921 Abs	0.4775 ng/mL	E01
Std3	0.985 Abs	0.3872 ng/mL	F01
Std4	0.714 Abs	1.0300 ng/mL	G01
Std4	0.757 Abs	0.8570 ng/mL	H01
Std5	0.576 Abs	2.4450 ng/mL	A02
Std5	0.634 Abs	1.5690 ng/mL	B02
Std6	0.498 Abs	> 5.0000 ng/mL	C02
Std6	0.531 Abs	4.3500 ng/mL	D02
7/15/2015 11:47:48 AM			
Normal Control	0.850 Abs	0.6065 ng/mL	F02
Normal Control	0.861 Abs	0.5840 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.451	0.018	1.22				
Std2	1.256	0.062	4.90	0.141	0.043	30.58	-6.00
Std3	0.953	0.045	4.75	0.432	0.064	14.77	8.00
Std4	0.735	0.030	4.13	0.943	0.122	12.97	-5.70
Std5	0.605	0.041	6.78	2.007	0.619	30.86	0.35
Std6	0.515	0.023	4.54				-100.00
Normal Control	0.855	0.008	0.91	0.595	0.016	2.67	





# Test Report

## Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/15/2015 11:47:48 AM						
Std1	Microcystins ADDA	1.464 Abs	< 0.0000 ng/mL		0.0000	A01
Std1	Microcystins ADDA	1.439 Abs	0.0163 ng/mL		0.0000	B01
Std2	Microcystins ADDA	1.212 Abs	0.1710 ng/mL		0.1500	C01
Std2	Microcystins ADDA	1.299 Abs	0.1102 ng/mL		0.1500	D01
Std3	Microcystins ADDA	0.921 Abs	0.4775 ng/mL		0.4000	E01
Std3	Microcystins ADDA	0.985 Abs	0.3872 ng/mL		0.4000	F01
Std4	Microcystins ADDA	0.714 Abs	1.0300 ng/mL		1.0000	G01
Std4	Microcystins ADDA	0.757 Abs	0.8570 ng/mL		1.0000	H01
Std5	Microcystins ADDA	0.576 Abs	2.4450 ng/mL		2.0000	A02
Std5	Microcystins ADDA	0.634 Abs	1.5690 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.498 Abs	> 5.0000 ng/mL		5.0000	C02
Std6	Microcystins ADDA	0.531 Abs	4.3500 ng/mL		5.0000	D02
Normal Control	Microcystins ADDA	0.861 Abs	0.5840 ng/mL			E02
Normal Control	Microcystins ADDA	0.850 Abs	0.6065 ng/mL			F02
AB22192	Microcystins ADDA	0.498 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G02
AB22192	Microcystins ADDA	0.512 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H02
AB22193	Microcystins ADDA	1.394 Abs	0.0481 ng/mL	LOW	0.1500 - 5.0000	A03
AB22193	Microcystins ADDA	1.393 Abs	0.0488 ng/mL	LOW	0.1500 - 5.0000	B03
AB22194	Microcystins ADDA	0.959 Abs	0.4215 ng/mL		0.1500 - 5.0000	C03
AB22194	Microcystins ADDA	1.029 Abs	0.3351 ng/mL		0.1500 - 5.0000	D03
AB22195	Microcystins ADDA	1.603 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E03
AB22195	Microcystins ADDA	1.432 Abs	0.0217 ng/mL	LOW	0.1500 - 5.0000	F03
AB22189	Microcystins ADDA	1.344 Abs	0.0807 ng/mL	LOW	0.1500 - 5.0000	G03
AB22189	Microcystins ADDA	1.460 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H03
AB22190	Microcystins ADDA	1.465 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A04
AB22190	Microcystins ADDA	1.449 Abs	0.0077 ng/mL	LOW	0.1500 - 5.0000	B04
AB22196	Microcystins ADDA	1.492 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C04
AB22196	Microcystins ADDA	1.408 Abs	0.0388 ng/mL	LOW	0.1500 - 5.0000	D04
AB22197	Microcystins ADDA	1.554 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E04
AB22197	Microcystins ADDA	1.508 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	F04
AB22507	Microcystins ADDA	0.483 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	G04
AB22507	Microcystins ADDA	0.488 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	H04
AB22507LD	Microcystins ADDA	0.414 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A05
AB22507LD	Microcystins ADDA	0.470 Abs	> 5.0000 ng/mL	Out(LR)	0.1500 - 5.0000	B05
20150714LB	Microcystins ADDA	1.538 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	C05
20150714LB	Microcystins ADDA	1.622 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	D05

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

7/15/15  
Date



## Test Report

### Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/15/2015 4:19:28 PM						
Std1	Microcystin ADDA 3X	1.432 Abs	0.081 ng/mL		0.000	A01
Std1	Microcystin ADDA 3X	1.503 Abs	< 0.000 ng/mL		0.000	B01
Std2	Microcystin ADDA 3X	1.215 Abs	0.510 ng/mL		0.600	C01
Std2	Microcystin ADDA 3X	1.204 Abs	0.535 ng/mL		0.600	D01
Std3	Microcystin ADDA 3X	0.927 Abs	1.484 ng/mL		1.200	E01
Std3	Microcystin ADDA 3X	0.950 Abs	1.371 ng/mL		1.200	F01
Std4	Microcystin ADDA 3X	0.735 Abs	3.048 ng/mL		3.000	G01
Std4	Microcystin ADDA 3X	0.808 Abs	2.271 ng/mL		3.000	H01
Std5	Microcystin ADDA 3X	0.590 Abs	6.795 ng/mL		6.000	A02
Std5	Microcystin ADDA 3X	0.624 Abs	5.380 ng/mL		6.000	B02
Std6	Microcystin ADDA 3X	0.491 Abs	> 15.000 ng/mL		15.000	C02
Std6	Microcystin ADDA 3X	0.524 Abs	13.260 ng/mL		15.000	D02
Normal Control	Microcystin ADDA 3X	0.793 Abs	2.441 ng/mL			E02
Normal Control	Microcystin ADDA 3X	0.844 Abs	2.017 ng/mL			F02
AB22192	Microcystin ADDA 3X	0.758 Abs	2.802 ng/mL		0.450 - 15.000	G02
AB22192	Microcystin ADDA 3X	0.793 Abs	2.441 ng/mL		0.450 - 15.000	H02
AB22192(2)	Microcystin ADDA 3X	0.740 Abs	3.016 ng/mL		0.450 - 15.000	A03
AB22192(2)	Microcystin ADDA 3X	0.736 Abs	3.068 ng/mL		0.450 - 15.000	B03
AB22192(3)	Microcystin ADDA 3X	0.728 Abs	3.174 ng/mL		0.450 - 15.000	C03
AB22192(3)	Microcystin ADDA 3X	0.726 Abs	3.201 ng/mL		0.450 - 15.000	D03
AB22507	Microcystin ADDA 3X	0.664 Abs	4.265 ng/mL		0.450 - 15.000	E03
AB22507	Microcystin ADDA 3X	0.627 Abs	5.198 ng/mL		0.450 - 15.000	F03
AB22507(2)	Microcystin ADDA 3X	0.606 Abs	5.892 ng/mL		0.450 - 15.000	G03
AB22507(2)	Microcystin ADDA 3X	0.599 Abs	6.159 ng/mL		0.450 - 15.000	H03
AB22507(3)	Microcystin ADDA 3X	0.630 Abs	5.109 ng/mL		0.450 - 15.000	A04
AB22507(3)	Microcystin ADDA 3X	0.661 Abs	4.329 ng/mL		0.450 - 15.000	B04
AB22507LD	Microcystin ADDA 3X	0.675 Abs	4.040 ng/mL		0.450 - 15.000	C04
AB22507LD	Microcystin ADDA 3X	0.659 Abs	4.374 ng/mL		0.450 - 15.000	D04
AB22507LD(2)	Microcystin ADDA 3X	0.631 Abs	5.081 ng/mL		0.450 - 15.000	E04
AB22507LD(2)	Microcystin ADDA 3X	0.690 Abs	3.760 ng/mL		0.450 - 15.000	F04
AB22507LD(3)	Microcystin ADDA 3X	0.612 Abs	5.677 ng/mL		0.450 - 15.000	G04
AB22507LD(3)	Microcystin ADDA 3X	0.694 Abs	3.690 ng/mL		0.450 - 15.000	H04

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