



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB25971	Raccoon Lake SRA	6/13/2016	6/14/2016	< 0.15
AB25972	Quakertown SRA	6/13/2016	6/14/2016	< 0.15
AB25969	Raccoon Lake SRA (Field Duplicate)	6/13/2016	6/14/2016	< 0.15
AB25970	Field Blank	6/13/2016	6/14/2016	< 0.15
AB25972LD	Quakertown SRA (Lab Duplicate)	6/13/2016	6/14/2016	0.176
20160613LB	Lab Blank	6/13/2016	6/14/2016	< 0.15



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/14/2016 1:50:50 PM						
Std1	Microcystins ADDA	2.747 Abs	0.0071 ng/mL		0.0000	A01
Std1	Microcystins ADDA	2.796 Abs	< 0.0000 ng/mL		0.0000	B01
Std2	Microcystins ADDA	2.452 Abs	0.1313 ng/mL		0.1500	C01
Std2	Microcystins ADDA	2.385 Abs	0.1697 ng/mL		0.1500	D01
Std3	Microcystins ADDA	2.024 Abs	0.4581 ng/mL		0.4000	E01
Std3	Microcystins ADDA	2.235 Abs	0.2709 ng/mL		0.4000	F01
Std4	Microcystins ADDA	1.535 Abs	1.2565 ng/mL		1.0000	G01
Std4	Microcystins ADDA	1.537 Abs	1.2515 ng/mL		1.0000	H01
Std5	Microcystins ADDA	1.384 Abs	1.7070 ng/mL		2.0000	A02
Std5	Microcystins ADDA	1.435 Abs	1.5375 ng/mL		2.0000	B02
Std6	Microcystins ADDA	0.987 Abs	4.3350 ng/mL		5.0000	C02
Normal Control	Microcystins ADDA	1.819 Abs	0.6927 ng/mL			E02
Normal Control	Microcystins ADDA	1.847 Abs	0.6541 ng/mL			F02
AB25971	Microcystins ADDA	2.521 Abs	0.1026 ng/mL	LOW	0.1500 - 5.0000	G02
AB25971	Microcystins ADDA	2.611 Abs [2.5660] {2.5 C	0.0613 ng/mL [0.0813] {35.6 C	Low [Low]	0.1500 - 5.0000	H02
AB25972	Microcystins ADDA	2.436 Abs	0.1464 ng/mL	LOW	0.1500 - 5.0000	A03
AB25972	Microcystins ADDA	2.429 Abs [2.4325] {0.2 C	0.1502 ng/mL [0.1483] {1.8 CV	[Low]	0.1500 - 5.0000	B03
AB25969	Microcystins ADDA	2.576 Abs	0.0768 ng/mL	LOW	0.1500 - 5.0000	C03
AB25969	Microcystins ADDA	2.485 Abs [2.5305] {2.5 C	0.1205 ng/mL [0.0980] {31.3 C	Low [Low]	0.1500 - 5.0000	D03
AB25970	Microcystins ADDA	2.814 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	E03
AB25970	Microcystins ADDA	2.937 Abs [2.8755] {3.0 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	F03
AB25972LD	Microcystins ADDA	2.338 Abs	0.2035 ng/mL		0.1500 - 5.0000	G03
AB25972LD	Microcystins ADDA	2.431 Abs [2.3845] {2.8 C	0.1491 ng/mL [0.1755] {21.8 C	LOW	0.1500 - 5.0000	H03
20160613LB	Microcystins ADDA	2.844 Abs	< 0.0000 ng/mL	Out(LR)	0.1500 - 5.0000	A04
20160613LB	Microcystins ADDA	2.812 Abs [2.8280] {0.8 C	< 0.0000 ng/mL [< 0.0000]	Out(LR) [Out(LR)]	0.1500 - 5.0000	B04

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

6/14/2016

Date



Assay Calibration Report

Assay Information

Assay Name: Microcystins ADDA Units: ng/mL
Assay Mode: 4-Parameter Logistic # of decimals: 4
Normal: 0.1500 - 5.0000 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
6/14/2016 1:50:50 PM			
Std1	2.747 Abs	0.0084 ng/mL	A01
Std1	2.796 Abs	< 0.0000 ng/mL	B01
Std2	2.452 Abs	0.1377 ng/mL	C01
Std2	2.385 Abs	0.1752 ng/mL	D01
Std3	2.024 Abs	0.4502 ng/mL	E01
Std3	2.235 Abs	0.2723 ng/mL	F01
Std4	1.535 Abs	1.2380 ng/mL	G01
Std4	1.537 Abs	1.2330 ng/mL	H01
Std5	1.384 Abs	1.7220 ng/mL	A02
Std5	1.435 Abs	1.5355 ng/mL	B02
Std6	0.987 Abs	> 5.0000 ng/mL	C02
6/14/2016 1:50:50 PM			
Normal Control	1.847 Abs	0.6541 ng/mL	F02
Normal Control	1.819 Abs	0.6927 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.772	0.035	1.25				
Std2	2.418	0.047	1.96	0.156	0.027	16.95	4.00
Std3	2.129	0.149	7.01	0.361	0.126	34.82	-9.75
Std4	1.536	0.001	0.09	1.236	0.004	0.29	23.60
Std5	1.409	0.036	2.56	1.629	0.132	8.10	-18.55
Std6	0.987						-100.00
Normal Control	1.833	0.020	1.08	0.673	0.027	4.05	

