



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

| Sample # | Location | Date Collected | Date Analyzed | Conc. (ppb) |
|-------------|--------------------------------|----------------|---------------|-------------|
| AB29645 | Pokagon SP | 6/19/2017 | 6/21/2017 | < 0.30 |
| AB29646 | Southern Basin Inn's Beach | 6/19/2017 | 6/21/2017 | < 0.30 |
| AB29647 | Chain O'Lakes SP | 6/19/2017 | 6/21/2017 | < 0.30 |
| AB29648 | Lost Bridge West SRA | 6/19/2017 | 6/21/2017 | < 0.30 |
| AB29649 | Mississinewa Lake Miami SRA | 6/20/2017 | 6/21/2017 | < 0.30 |
| AB29650 | Potato Creek SP | 6/20/2017 | 6/21/2017 | 0.37 |
| AB29643 | Mississinewa (Field Duplicate) | 6/20/2017 | 6/21/2017 | 0.49 |
| AB29644 | Field Blank | 6/20/2017 | 6/21/2017 | < 0.30 |
| AB29645LD | Pokagon (Lab Duplicate) | 6/19/2017 | 6/21/2017 | < 0.30 |
| 2017M0619LB | Lab Blank | 6/19/2017 | 6/21/2017 | < 0.30 |



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

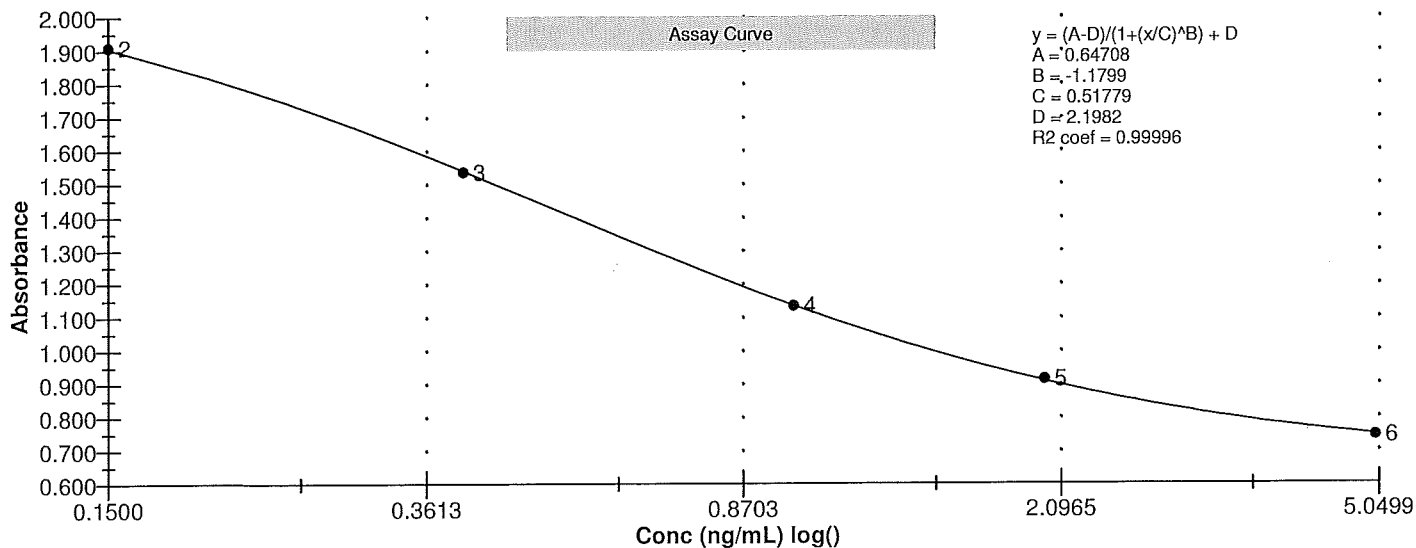
Curve valid interval: 7 days 0 hours

Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

| Name | Absorbance | Concentration | Position |
|----------------------|------------|----------------|----------|
| 6/21/2017 1:53:07 PM | | | |
| Std1 | 2.126 Abs | 0.0401 ng/mL | A01 |
| Std1 | 2.268 Abs | < 0.0000 ng/mL | B01 |
| Std2 | 1.910 Abs | 0.1480 ng/mL | D01 |
| Std3 | 1.481 Abs | 0.4556 ng/mL | E01 |
| Std3 | 1.590 Abs | 0.3571 ng/mL | F01 |
| Std4 | 1.129 Abs | 1.0175 ng/mL | G01 |
| Std4 | 1.140 Abs | 0.9895 ng/mL | H01 |
| Std5 | 0.933 Abs | 1.8270 ng/mL | A02 |
| Std5 | 0.896 Abs | 2.1050 ng/mL | B02 |
| Std6 | 0.737 Abs | > 5.0000 ng/mL | C02 |
| Std6 | 0.751 Abs | 4.8250 ng/mL | D02 |
| 6/21/2017 1:53:07 PM | | | |
| Normal Control | 1.397 Abs | 0.5476 ng/mL | F02 |
| Normal Control | 1.345 Abs | 0.6140 ng/mL | E02 |

| Name | Mean Abs | SD Abs | CV Abs | Mean Conc | SD Conc | CV Conc | Diff Conc |
|----------------|----------|--------|--------|-----------|---------|---------|-----------|
| Std1 | 2.197 | 0.100 | 4.57 | | | | |
| Std2 | 1.910 | | | 0.148 | | | -1.33 |
| Std3 | 1.536 | 0.077 | 5.02 | 0.406 | 0.070 | 17.14 | 1.50 |
| Std4 | 1.135 | 0.008 | 0.69 | 1.003 | 0.020 | 1.97 | 0.30 |
| Std5 | 0.914 | 0.026 | 2.86 | 1.966 | 0.197 | 10.00 | -1.70 |
| Std6 | 0.744 | 0.010 | 1.33 | | | | -100.00 |
| Normal Control | 1.371 | 0.037 | 2.68 | 0.581 | 0.047 | 8.08 | |





Test Report

Test Information

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Reference | Position |
|----------------------|-------------------|---------------------------|-------------------------------|-------------------|-----------------|----------|
| 6/21/2017 1:53:07 PM | | | | | | |
| Std1 | Microcystins ADDA | 2.126 Abs | 0.0376 ng/mL | | 0.0000 | A01 |
| Std1 | Microcystins ADDA | 2.268 Abs | < 0.0000 ng/mL | | 0.0000 | B01 |
| Std2 | Microcystins ADDA | 1.888 Abs | 0.1556 ng/mL | | 0.1500 | C01 |
| Std2 | Microcystins ADDA | 1.910 Abs | 0.1438 ng/mL | | 0.1500 | D01 |
| Std3 | Microcystins ADDA | 1.481 Abs | 0.4525 ng/mL | | 0.4000 | E01 |
| Std3 | Microcystins ADDA | 1.590 Abs | 0.3531 ng/mL | | 0.4000 | F01 |
| Std4 | Microcystins ADDA | 1.129 Abs | 1.0215 ng/mL | | 1.0000 | G01 |
| Std4 | Microcystins ADDA | 1.140 Abs | 0.9935 ng/mL | | 1.0000 | H01 |
| Std5 | Microcystins ADDA | 0.933 Abs | 1.8395 ng/mL | | 2.0000 | A02 |
| Std5 | Microcystins ADDA | 0.896 Abs | 2.1190 ng/mL | | 2.0000 | B02 |
| Std6 | Microcystins ADDA | 0.737 Abs | > 5.0000 ng/mL | | 5.0000 | C02 |
| Std6 | Microcystins ADDA | 0.751 Abs | 4.7700 ng/mL | | 5.0000 | D02 |
| Normal Control | Microcystins ADDA | 1.345 Abs | 0.6140 ng/mL | | | E02 |
| Normal Control | Microcystins ADDA | 1.397 Abs | 0.5476 ng/mL | | | F02 |
| AB29645 | Microcystins ADDA | 2.190 Abs | 0.0061 ng/mL | LOW | 0.1500 - 5.0000 | G02 |
| AB29645 | Microcystins ADDA | 2.231 Abs [2.2105] {1.3 C | < 0.0000 ng/mL [< 0.0000] | Out(LR) [Out(LR)] | 0.1500 - 5.0000 | H02 |
| AB29646 | Microcystins ADDA | 2.075 Abs | 0.0649 ng/mL | LOW | 0.1500 - 5.0000 | A03 |
| AB29646 | Microcystins ADDA | 2.209 Abs [2.1420] {4.4 C | < 0.0000 ng/mL [0.0321] | Out(LR) [Low] | 0.1500 - 5.0000 | B03 |
| AB29647 | Microcystins ADDA | 2.266 Abs | < 0.0000 ng/mL | Out(LR) | 0.1500 - 5.0000 | C03 |
| AB29647 | Microcystins ADDA | 2.267 Abs [2.2665] {0.0 C | < 0.0000 ng/mL [< 0.0000] | Out(LR) [Out(LR)] | 0.1500 - 5.0000 | D03 |
| AB29648 | Microcystins ADDA | 2.259 Abs | < 0.0000 ng/mL | Out(LR) | 0.1500 - 5.0000 | E03 |
| AB29648 | Microcystins ADDA | 2.320 Abs [2.2895] {1.9 C | < 0.0000 ng/mL [< 0.0000] | Out(LR) [Out(LR)] | 0.1500 - 5.0000 | F03 |
| AB29649 | Microcystins ADDA | 1.740 Abs | 0.2478 ng/mL | | 0.1500 - 5.0000 | G03 |
| AB29649 | Microcystins ADDA | 1.643 Abs [1.6915] {4.1 C | 0.3155 ng/mL [0.2805] {17.0 C | | 0.1500 - 5.0000 | H03 |
| AB29650 | Microcystins ADDA | 1.543 Abs | 0.3971 ng/mL | | 0.1500 - 5.0000 | A04 |
| AB29650 | Microcystins ADDA | 1.605 Abs [1.5740] {2.8 C | 0.3450 ng/mL [0.3703] {9.9 CV | | 0.1500 - 5.0000 | B04 |
| AB29643 | Microcystins ADDA | 1.475 Abs | 0.4617 ng/mL | | 0.1500 - 5.0000 | C04 |
| AB29643 | Microcystins ADDA | 1.416 Abs [1.4455] {2.9 C | 0.5253 ng/mL [0.4925] {9.1 CV | | 0.1500 - 5.0000 | D04 |
| AB29644 | Microcystins ADDA | 2.224 Abs | < 0.0000 ng/mL | Out(LR) | 0.1500 - 5.0000 | E04 |
| AB29644 | Microcystins ADDA | 2.207 Abs [2.2155] {0.5 C | < 0.0000 ng/mL [< 0.0000] | Out(LR) [Out(LR)] | 0.1500 - 5.0000 | F04 |
| AB29645LD | Microcystins ADDA | 2.204 Abs | < 0.0000 ng/mL | Out(LR) | 0.1500 - 5.0000 | G04 |
| AB29645LD | Microcystins ADDA | 2.105 Abs [2.1545] {3.2 C | 0.0503 ng/mL [0.0258] | Low [Low] | 0.1500 - 5.0000 | H04 |
| 20170619LB | Microcystins ADDA | 2.302 Abs | < 0.0000 ng/mL | Out(LR) | 0.1500 - 5.0000 | A05 |
| 20170619LB | Microcystins ADDA | 2.314 Abs [2.3080] {0.4 C | < 0.0000 ng/mL [< 0.0000] | Out(LR) [Out(LR)] | 0.1500 - 5.0000 | B05 |
| Check Sample A | Microcystins ADDA | 2.326 Abs | < 0.0000 ng/mL | Out(LR) | 0.1500 - 5.0000 | C05 |
| Check Sample A | Microcystins ADDA | 2.382 Abs [2.3540] {1.7 C | < 0.0000 ng/mL [< 0.0000] | Out(LR) [Out(LR)] | 0.1500 - 5.0000 | D05 |
| Check Sample B | Microcystins ADDA | 1.002 Abs | 1.4500 ng/mL | | 0.1500 - 5.0000 | E05 |
| Check Sample B | Microcystins ADDA | 1.042 Abs [1.0220] {2.8 C | 1.2870 ng/mL [1.3645] {8.4 CV | | 0.1500 - 5.0000 | F05 |
| Check Sample C | Microcystins ADDA | 0.688 Abs | > 5.0000 ng/mL | Out(LR) | 0.1500 - 5.0000 | G05 |
| Check Sample C | Microcystins ADDA | 0.750 Abs [0.7190] {6.1 C | 4.8650 ng/mL [> 5.0000] | [Out(LR)] | 0.1500 - 5.0000 | H05 |

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

Date