# Anatoxin-A Receptor-Binding Assay Summary Report

**Office of Water Quality - Watershed Assessment and Planning Branch**

| Sample # | Location | Date Collected | Date Analyzed | Conc. (ppb) |
|---|---|---|---|---|
| AB21816 | Lincoln SP | 6/14/2015 | 6/17/2015 | <10 |
| AB21817 | Ferdinand SF | 6/15/2015 | 6/17/2015 | <10 |
| AB21811 | Mississinewa Lake Miami SRA | 6/15/2015 | 6/17/2015 | <10 |
| AB21812 | Potato Creek SP | 6/15/2015 | 6/17/2015 | <10 |
| AB21809 | Potato Creek (Field Duplicate) | 6/15/2015 | 6/17/2015 | <10 |
| AB21810 | Field Blank | 6/15/2015 | 6/17/2015 | <10 |
| AB21813 | Pokagon SP | 6/16/2015 | 6/17/2015 | <10 |
| AB21814 | Chain O'Lakes SP | 6/16/2015 | 6/17/2015 | <10 |
| AB21815 | Lost Bridge West SRA | 6/16/2015 | 6/17/2015 | <10 |
| AB21813LD | Pokagon (Lab Duplicate) | 6/16/2015 | 6/17/2015 | <10 |
| 20150616LB | Lab Blank | 6/16/2015 | 6/17/2015 | <10 |

# Test Report

**Test Information**

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Reference | Position |
|---|---|---|---|---|---|---|
| | | | 6/17/2015 2:21:59 PM | | | |
| Std1 | ANATOXIN-A 1X | 2.065 Abs | < 0.000 ng/mL | | 0.000 | A01 |
| Std1 | ANATOXIN-A 1X | 1.905 Abs | 0.175 ng/mL | | 0.000 | B01 |
| Std1 | ANATOXIN-A 1X | 1.892 Abs | 0.258 ng/mL | | 0.000 | C01 |
| Std2 | ANATOXIN-A 1X | 1.644 Abs | 4.000 ng/mL | | 10.000 | E01 |
| Std2 | ANATOXIN-A 1X | 1.485 Abs | 9.235 ng/mL | | 10.000 | F01 |
| Std3 | ANATOXIN-A 1X | 1.179 Abs | 33.250 ng/mL | | 35.000 | G01 |
| Std3 | ANATOXIN-A 1X | 1.185 Abs | 32.455 ng/mL | | 35.000 | H01 |
| Std4 | ANATOXIN-A 1X | 0.830 Abs | 156.900 ng/mL | | 125.000 | B02 |
| Std4 | ANATOXIN-A 1X | 0.850 Abs | 141.000 ng/mL | | 125.000 | C02 |
| Std5 | ANATOXIN-A 1X | 0.644 Abs | > 500.000 ng/mL | | 500.000 | E02 |
| Std5 | ANATOXIN-A 1X | 0.693 Abs | 374.000 ng/mL | | 500.000 | F02 |
| Std5 | ANATOXIN-A 1X | 0.691 Abs | 379.500 ng/mL | | 500.000 | G02 |
| AB21816 | ANATOXIN-A 1X | 2.132 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | H02 |
| AB21816 | ANATOXIN-A 1X | 2.339 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | A03 |
| AB21816 | ANATOXIN-A 1X | 2.342 Abs [2.2710] {5.3 C | < 0.000 ng/mL [< 0.000] {74.0 C | Out(LR) [Out(LR)] | 10.000 - 500.000 | B03 |
| AB21817 | ANATOXIN-A 1X | 2.343 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | C03 |
| AB21817 | ANATOXIN-A 1X | 2.301 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | D03 |
| AB21817 | ANATOXIN-A 1X | 2.270 Abs [2.3047] {1.6 C | < 0.000 ng/mL [< 0.000] {74.0 C | Out(LR) [Out(LR)] | 10.000 - 500.000 | E03 |
| AB21811 | ANATOXIN-A 1X | 2.447 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | F03 |
| AB21811 | ANATOXIN-A 1X | 2.612 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | G03 |
| AB21811 | ANATOXIN-A 1X | 2.390 Abs [2.4830] {4.6 C | < 0.000 ng/mL [< 0.000] {74.0 C | Out(LR) [Out(LR)] | 10.000 - 500.000 | H03 |
| AB21812 | ANATOXIN-A 1X | 2.032 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | A04 |
| AB21812 | ANATOXIN-A 1X | 1.667 Abs | 6.610 ng/mL | LOW | 10.000 - 500.000 | B04 |
| AB21812 | ANATOXIN-A 1X | 1.814 Abs [1.8377] {10.0 | 2.745 ng/mL [2.215] {58.4 CV} | Low [Low] | 10.000 - 500.000 | C04 |
| AB21809 | ANATOXIN-A 1X | 1.757 Abs | 4.115 ng/mL | LOW | 10.000 - 500.000 | D04 |
| AB21809 | ANATOXIN-A 1X | 1.814 Abs | 2.745 ng/mL | LOW | 10.000 - 500.000 | E04 |
| AB21809 | ANATOXIN-A 1X | 1.643 Abs [1.7380] {5.0 C | 7.360 ng/mL [4.605] {50.0 CV} | Low [Low] | 10.000 - 500.000 | F04 |
| AB21810 | ANATOXIN-A 1X | 1.762 Abs | 3.985 ng/mL | LOW | 10.000 - 500.000 | G04 |
| AB21810 | ANATOXIN-A 1X | 1.813 Abs | 2.765 ng/mL | LOW | 10.000 - 500.000 | H04 |
| AB21810 | ANATOXIN-A 1X | 1.840 Abs [1.8050] {2.2 C | 2.165 ng/mL [2.950] {31.2 CV} | Low [Low] | 10.000 - 500.000 | A05 |
| AB21813 | ANATOXIN-A 1X | 1.918 Abs | 0.610 ng/mL | LOW | 10.000 - 500.000 | B05 |
| AB21813 | ANATOXIN-A 1X | 1.538 Abs | 11.110 ng/mL | | 10.000 - 500.000 | C05 |
| AB21813 | ANATOXIN-A 1X | 1.799 Abs [1.7517] {11.1 | 3.090 ng/mL [4.250] {111.2 CV | Low [Low] | 10.000 - 500.000 | D05 |
| AB21814 | ANATOXIN-A 1X | 1.848 Abs | 1.995 ng/mL | LOW | 10.000 - 500.000 | E05 |
| AB21814 | ANATOXIN-A 1X | 1.631 Abs | 7.750 ng/mL | LOW | 10.000 - 500.000 | F05 |
| AB21814 | ANATOXIN-A 1X | 1.724 Abs [1.7343] {6.3 C | 4.980 ng/mL [4.700] {58.6 CV} | Low [Low] | 10.000 - 500.000 | G05 |
| AB21815 | ANATOXIN-A 1X | 2.111 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | H05 |
| AB21815 | ANATOXIN-A 1X | 2.036 Abs | < 0.000 ng/mL | Out(LR) | 10.000 - 500.000 | A06 |
| AB21815 | ANATOXIN-A 1X | 1.966 Abs [2.0377] {3.6 C | < 0.000 ng/mL [< 0.000] {58.6 C | Out(LR) [Out(LR)] | 10.000 - 500.000 | B06 |
| AB21813LD | ANATOXIN-A 1X | 1.848 Abs | 1.995 ng/mL | LOW | 10.000 - 500.000 | C06 |
| AB21813LD | ANATOXIN-A 1X | 1.659 Abs | 6.855 ng/mL | LOW | 10.000 - 500.000 | D06 |
| AB21813LD | ANATOXIN-A 1X | 1.663 Abs [1.7233] {6.3 C | 6.735 ng/mL [4.995] {53.4 CV} | Low [Low] | 10.000 - 500.000 | E06 |
| 20150616LB | ANATOXIN-A 1X | 1.886 Abs | 1.220 ng/mL | LOW | 10.000 - 500.000 | F06 |
| 20150616LB | ANATOXIN-A 1X | 1.814 Abs | 2.745 ng/mL | LOW | 10.000 - 500.000 | G06 |
| 20150616LB | ANATOXIN-A 1X | 1.885 Abs [1.8617] {2.2 C | 1.240 ng/mL [1.710] {50.4 CV} | Low [Low] | 10.000 - 500.000 | H06 |

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

6/17/15
Date

# Assay Calibration Report

## Assay Information

Assay Name: ANATOXIN-A 1X
Assay Mode: 4-Parameter Logistic
Normal: 10.000 - 500.000

Units: ng/mL
# of decimals: 3
Assay Description:

Standards:
Std1, Concentration = 0.000, Minimum number to use: 3
Std2, Concentration = 10.000, Minimum number to use: 3
Std3, Concentration = 35.000, Minimum number to use: 3
Std4, Concentration = 125.000, Minimum number to use: 3
Std5, Concentration = 500.000, Minimum number to use: 3
Curve valid interval: 7 days 0 hours
Axis Mode: Y = Abs, X = Log(Conc)

## Assay Calibration and Statistics

| Name | Absorbance | Concentration | Position |
|---|---|---|---|
| 6/17/2015 2:21:59 PM | | | |
| Std1 | 2.065 Abs | < 0.000 ng/mL | A01 |
| Std1 | 1.905 Abs | 0.854 ng/mL | B01 |
| Std1 | 1.892 Abs | 1.100 ng/mL | C01 |
| Std2 | 1.644 Abs | 7.325 ng/mL | E01 |
| Std2 | 1.485 Abs | 13.365 ng/mL | F01 |
| Std3 | 1.179 Abs | 34.970 ng/mL | G01 |
| Std3 | 1.185 Abs | 34.320 ng/mL | H01 |
| Std4 | 0.830 Abs | 134.400 ng/mL | B02 |
| Std4 | 0.850 Abs | 120.950 ng/mL | C02 |
| Std5 | 0.644 Abs | > 500.000 ng/mL | E02 |
| Std5 | 0.693 Abs | 389.500 ng/mL | F02 |
| Std5 | 0.691 Abs | 399.000 ng/mL | G02 |

| Name | Mean Abs | SD Abs | CV Abs | Mean Conc | SD Conc | CV Conc | Diff Conc |
|---|---|---|---|---|---|---|---|
| Std1 | 1.954 | 0.096 | 4.93 | | | | |
| Std2 | 1.565 | 0.112 | 7.19 | 10.345 | 4.271 | 41.28 | 3.45 |
| Std3 | 1.182 | 0.004 | 0.36 | 34.645 | 0.460 | 1.33 | -1.01 |
| Std4 | 0.840 | 0.014 | 1.68 | 127.675 | 9.511 | 7.45 | 2.14 |
| Std5 | 0.676 | 0.028 | 4.10 | | | | -100.00 |