



## Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB21789	Farifax SRA	6/8/2015	6/9/2015	<10
AB21790	Paynetown SRA	6/8/2015	6/9/2015	<10
AB21791	Starve Hollow SRA	6/8/2015	6/9/2015	<10
AB21792	Deam Lake SRA	6/8/2015	6/9/2015	<10
AB21793	Hardy Lake SRA	6/8/2015	6/9/2015	<10
AB21794	Raccoon Lake SRA	6/9/2015	6/10/2015	<10
AB21795	Whitewater Memorial SP	6/9/2015	6/10/2015	<10
AB21796	Quakertown SRA	6/9/2015	6/10/2015	<10
AB21797	Mounds SRA	6/9/2015	6/10/2015	<10
AB21787	Whitewater Memorial (Field Duplicate)	6/9/2015	6/10/2015	<10
AB21788	Field Blank	6/9/2015	6/10/2015	<10
AB21794LD	Raccoon Lake SRA (Lab Duplicate)	6/9/2015	6/10/2015	<10
20150609LB	Lab Blank	6/9/2015	6/10/2015	<10



# 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:

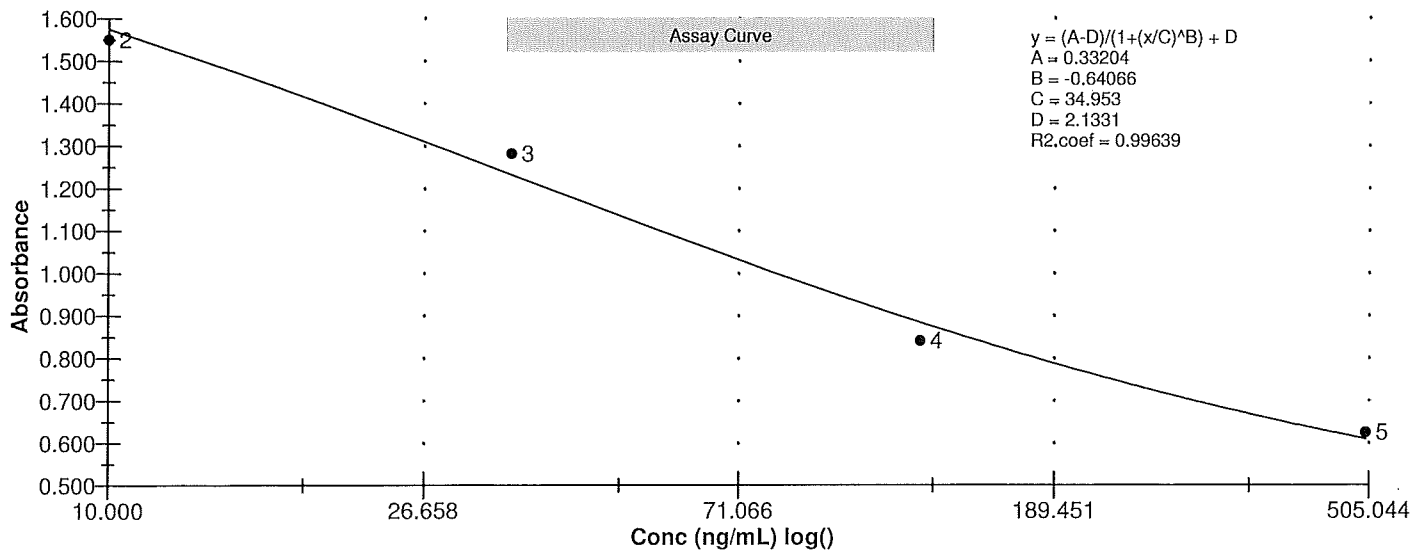
## Standards:

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
6/9/2015 2:42:51 PM			
Std1	2.104 Abs	0.058 ng/mL	A01
Std1	2.243 Abs	< 0.000 ng/mL	B01
Std1	2.062 Abs	0.240 ng/mL	C01
Std2	1.511 Abs	12.885 ng/mL	D01
Std2	1.587 Abs	9.535 ng/mL	E01
Std2	1.555 Abs	10.850 ng/mL	F01
Std3	1.317 Abs	26.055 ng/mL	H01
Std3	1.247 Abs	33.250 ng/mL	A02
Std4	0.830 Abs	156.950 ng/mL	C02
Std4	0.853 Abs	142.250 ng/mL	D02
Std5	0.593 Abs	> 500.000 ng/mL	E02
Std5	0.620 Abs	465.500 ng/mL	F02
Std5	0.658 Abs	369.000 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.136	0.095	4.43				
Std2	1.551	0.038	2.46	11.090	1.688	15.22	10.90
Std3	1.282	0.049	3.86	29.653	5.088	17.16	-15.28
Std4	0.841	0.016	1.93	149.600	10.394	6.95	19.68
Std5	0.624	0.033	5.24				-100.00





# Assay Calibration Report

## Assay Information

Assay Name: ANATOXIN-A 1X Units: ng/mL  
 Assay Mode: 4-Parameter Logistic # of decimals: 3  
 Normal: 10.000 - 500.000 Assay Description:

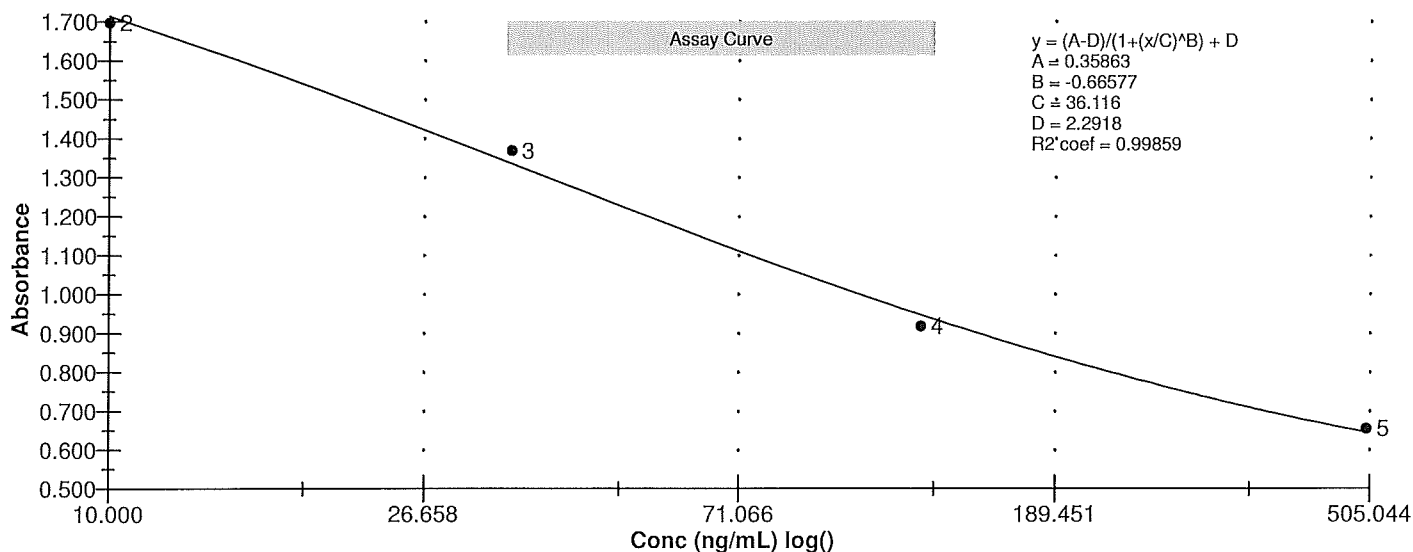
## Standards:

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
6/10/2015 2:20:51 PM			
Std1	2.293 Abs	< 0.000 ng/mL	A01
Std1	2.388 Abs	< 0.000 ng/mL	B01
Std1	2.202 Abs	0.387 ng/mL	C01
Std2	1.664 Abs	12.025 ng/mL	D01
Std2	1.707 Abs	10.300 ng/mL	E01
Std2	1.723 Abs	9.705 ng/mL	F01
Std3	1.375 Abs	30.925 ng/mL	G01
Std3	1.363 Abs	32.105 ng/mL	A02
Std4	0.902 Abs	148.000 ng/mL	B02
Std4	0.933 Abs	131.650 ng/mL	D02
Std5	0.657 Abs	465.000 ng/mL	E02
Std5	0.647 Abs	493.500 ng/mL	F02
Std5	0.660 Abs	456.500 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.294	0.093	4.05				
Std2	1.698	0.031	1.80	10.677	1.205	11.29	6.77
Std3	1.369	0.008	0.62	31.515	0.834	2.65	-9.96
Std4	0.918	0.022	2.39	139.825	11.561	8.27	11.86
Std5	0.655	0.007	1.04	471.667	19.380	4.11	-5.67





# Test Report

## Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/9/2015 2:42:51 PM						
Std1	ANATOXIN-A 1X	2.104 Abs	0.058 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	2.243 Abs	< 0.000 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	2.062 Abs	0.252 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.511 Abs	13.415 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.587 Abs	9.955 ng/mL		10.000	E01
Std2	ANATOXIN-A 1X	1.555 Abs	11.315 ng/mL		10.000	F01
Std3	ANATOXIN-A 1X	1.317 Abs	26.930 ng/mL		35.000	H01
Std3	ANATOXIN-A 1X	1.247 Abs	34.255 ng/mL		35.000	A02
Std4	ANATOXIN-A 1X	0.830 Abs	157.300 ng/mL		125.000	C02
Std4	ANATOXIN-A 1X	0.853 Abs	142.900 ng/mL		125.000	D02
Std5	ANATOXIN-A 1X	0.593 Abs	> 500.000 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.620 Abs	450.500 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.658 Abs	360.000 ng/mL		500.000	G02
AB21789	ANATOXIN-A 1X	2.200 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H02
AB21789	ANATOXIN-A 1X	2.021 Abs	0.507 ng/mL	LOW	10.000 - 500.000	A03
AB21789	ANATOXIN-A 1X	2.117 Abs [2.1127] {4.2 C	0.023 ng/mL [0.032] {129.1 CV	Low [Low]	10.000 - 500.000	B03
AB21790	ANATOXIN-A 1X	1.910 Abs	1.650 ng/mL	LOW	10.000 - 500.000	C03
AB21790	ANATOXIN-A 1X	2.100 Abs	0.070 ng/mL	LOW	10.000 - 500.000	D03
AB21790	ANATOXIN-A 1X	1.969 Abs [1.9930] {4.9 C	0.965 ng/mL [0.738] {88.5 CV}	Low [Low]	10.000 - 500.000	E03
AB21791	ANATOXIN-A 1X	1.922 Abs	1.495 ng/mL	LOW	10.000 - 500.000	F03
AB21791	ANATOXIN-A 1X	1.929 Abs	1.410 ng/mL	LOW	10.000 - 500.000	G03
AB21791	ANATOXIN-A 1X	1.995 Abs [1.9487] {2.1 C	0.720 ng/mL [1.180] {35.2 CV}	Low [Low]	10.000 - 500.000	H03
AB21792	ANATOXIN-A 1X	1.718 Abs	5.325 ng/mL	LOW	10.000 - 500.000	A04
AB21792	ANATOXIN-A 1X	1.863 Abs	2.330 ng/mL	LOW	10.000 - 500.000	B04
AB21792	ANATOXIN-A 1X	1.873 Abs [1.8180] {4.8 C	2.175 ng/mL [3.105] {54.2 CV}	Low [Low]	10.000 - 500.000	C04
AB21793	ANATOXIN-A 1X	1.829 Abs	2.905 ng/mL	LOW	10.000 - 500.000	D04
AB21793	ANATOXIN-A 1X	2.103 Abs	0.060 ng/mL	LOW	10.000 - 500.000	E04
AB21793	ANATOXIN-A 1X	1.984 Abs [1.9720] {7.0 C	0.820 ng/mL [0.935] {116.8 CV	Low [Low]	10.000 - 500.000	F04

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

*6/10/2015*

Date



## Test Report

### Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/10/2015 2:20:51 PM						
Std1	ANATOXIN-A 1X	2.293 Abs	< 0.000 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	2.388 Abs	< 0.000 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	2.202 Abs	0.365 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.664 Abs	13.680 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.707 Abs	11.665 ng/mL		10.000	E01
Std2	ANATOXIN-A 1X	1.723 Abs	10.975 ng/mL		10.000	F01
Std3	ANATOXIN-A 1X	1.375 Abs	35.630 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.363 Abs	37.000 ng/mL		35.000	A02
Std4	ANATOXIN-A 1X	0.902 Abs	162.150 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	0.933 Abs	145.400 ng/mL		125.000	D02
Std5	ANATOXIN-A 1X	0.657 Abs	440.500 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.647 Abs	462.950 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.660 Abs	434.500 ng/mL		500.000	G02
AB21794	ANATOXIN-A 1X	2.352 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H02
AB21794	ANATOXIN-A 1X	2.160 Abs	0.711 ng/mL	LOW	10.000 - 500.000	A03
AB21794	ANATOXIN-A 1X	1.886 Abs [2.1327] {11.0	4.935 ng/mL [0.965] {105.8 CV	Low [Low]	10.000 - 500.000	B03
AB21795	ANATOXIN-A 1X	2.171 Abs	0.618 ng/mL	LOW	10.000 - 500.000	C03
AB21795	ANATOXIN-A 1X	2.044 Abs	2.030 ng/mL	LOW	10.000 - 500.000	D03
AB21795	ANATOXIN-A 1X	2.073 Abs [2.0960] {3.2 C	1.640 ng/mL [1.360] {51.0 CV}	Low [Low]	10.000 - 500.000	E03
AB21796	ANATOXIN-A 1X	2.036 Abs	2.144 ng/mL	LOW	10.000 - 500.000	F03
AB21796	ANATOXIN-A 1X	1.952 Abs	3.545 ng/mL	LOW	10.000 - 500.000	G03
AB21796	ANATOXIN-A 1X	2.059 Abs [2.0157] {2.8 C	1.824 ng/mL [2.448] {36.6 CV}	Low [Low]	10.000 - 500.000	H03
AB21797	ANATOXIN-A 1X	1.841 Abs	6.040 ng/mL	LOW	10.000 - 500.000	A04
AB21797	ANATOXIN-A 1X	1.859 Abs	5.580 ng/mL	LOW	10.000 - 500.000	B04
AB21797	ANATOXIN-A 1X	1.987 Abs [1.8957] {4.2 C	2.915 ng/mL [4.710] {34.8 CV}	Low [Low]	10.000 - 500.000	C04
AB21787	ANATOXIN-A 1X	1.900 Abs	4.615 ng/mL	LOW	10.000 - 500.000	D04
AB21787	ANATOXIN-A 1X	1.962 Abs	3.360 ng/mL	LOW	10.000 - 500.000	E04
AB21787	ANATOXIN-A 1X	1.966 Abs [1.9427] {1.9 C	3.285 ng/mL [3.725] {19.9 CV}	Low [Low]	10.000 - 500.000	F04
AB21788	ANATOXIN-A 1X	2.118 Abs	1.115 ng/mL	LOW	10.000 - 500.000	G04
AB21788	ANATOXIN-A 1X	2.218 Abs	0.284 ng/mL	LOW	10.000 - 500.000	H04
AB21788	ANATOXIN-A 1X	2.205 Abs [2.1803] {2.5 C	0.366 ng/mL [0.544] {77.8 CV}	Low [Low]	10.000 - 500.000	A05
AB21794LD	ANATOXIN-A 1X	1.838 Abs	6.120 ng/mL	LOW	10.000 - 500.000	B05
AB21794LD	ANATOXIN-A 1X	1.887 Abs	4.910 ng/mL	LOW	10.000 - 500.000	C05
AB21794LD	ANATOXIN-A 1X	1.681 Abs [1.8020] {6.0 C	11.320 ng/mL [7.125] {45.7 CV	[Low]	10.000 - 500.000	D05
20150609LB	ANATOXIN-A 1X	1.830 Abs	6.335 ng/mL	LOW	10.000 - 500.000	E05
20150609LB	ANATOXIN-A 1X	1.942 Abs	3.740 ng/mL	LOW	10.000 - 500.000	F05
20150609LB	ANATOXIN-A 1X	2.049 Abs [1.9403] {5.6 C	1.959 ng/mL [3.774] {54.9 CV}	Low [Low]	10.000 - 500.000	G05

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*David Jordan*

Laboratory Analyst Signature

*6/10/2015*

Date