



Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB26286	Raccoon Lake (Field Duplicate)	7/12/2016	7/12/2016	< 0.15
AB26286LD	Raccoon Lake (Lab Duplicate)	7/12/2016	7/12/2016	0.263
AB26287	Field Blank	7/12/2016	7/12/2016	< 0.15
AB26288	Hardy Lake SRA	7/11/2016	7/12/2016	< 0.15
AB26289	Mounds SRA	7/11/2016	7/12/2016	< 0.15
AB26290	Quakertown SRA	7/11/2016	7/12/2016	0.433
AB26291	Raccoon Lake SRA	7/12/2016	7/12/2016	0.618
20160712LB	Lab Blank	7/12/2016	7/12/2016	< 0.15



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/12/2016 3:55:12 PM						
Std1	Anatoxin a ELISA (2 rep)	1.776 Abs	< 0.000 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.645 Abs	0.088 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.543 Abs	0.224 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.669 Abs	0.057 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.309 Abs	0.607 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.512 Abs	0.268 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	1.140 Abs	0.986 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	1.155 Abs	0.947 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.746 Abs	2.705 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.788 Abs	2.418 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.584 Abs	4.385 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.514 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.364 Abs	0.602 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.328 Abs	0.666 ng/mL			F02
AB26286	Anatoxin a ELISA (2 rep)	1.636 Abs	0.149 ng/mL	LOW	0.150 - 5.000	G02
AB26286	Anatoxin a ELISA (2 rep)	1.752 Abs [1.6940] {4.8 CV}	< 0.000 ng/mL [0.023]	Out(LR) [Low]	0.150 - 5.000	H02
AB26286LD	Anatoxin a ELISA (2 rep)	1.555 Abs	0.287 ng/mL		0.150 - 5.000	A03
AB26286LD	Anatoxin a ELISA (2 rep)	1.584 Abs [1.5695] {1.3 CV}	0.239 ng/mL [0.263] {12.9 CV}		0.150 - 5.000	B03
AB26287	Anatoxin a ELISA (2 rep)	1.665 Abs	0.094 ng/mL	LOW	0.150 - 5.000	C03
AB26287	Anatoxin a ELISA (2 rep)	1.815 Abs [1.7400] {6.1 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	D03
AB26288	Anatoxin a ELISA (2 rep)	1.876 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E03
AB26288	Anatoxin a ELISA (2 rep)	1.825 Abs [1.8505] {1.9 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	F03
AB26289	Anatoxin a ELISA (2 rep)	1.723 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB26289	Anatoxin a ELISA (2 rep)	1.752 Abs [1.7375] {1.2 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H03
AB26290	Anatoxin a ELISA (2 rep)	1.463 Abs	0.435 ng/mL		0.150 - 5.000	A04
AB26290	Anatoxin a ELISA (2 rep)	1.466 Abs [1.4645] {0.1 CV}	0.431 ng/mL [0.433] {0.7 CV}		0.150 - 5.000	B04
AB26291	Anatoxin a ELISA (2 rep)	1.335 Abs	0.654 ng/mL		0.150 - 5.000	C04
AB26291	Anatoxin a ELISA (2 rep)	1.375 Abs [1.3550] {2.1 CV}	0.583 ng/mL [0.618] {8.1 CV}		0.150 - 5.000	D04
20160712LB	Anatoxin a ELISA (2 rep)	1.658 Abs	0.108 ng/mL	LOW	0.150 - 5.000	E04
20160712LB	Anatoxin a ELISA (2 rep)	1.680 Abs [1.6690] {0.9 CV}	0.060 ng/mL [0.085] {40.4 CV}	Low [Low]	0.150 - 5.000	F04
Pond20160711	Anatoxin a ELISA (2 rep)	0.833 Abs	2.088 ng/mL		0.150 - 5.000	G04
Pond20160711	Anatoxin a ELISA (2 rep)	0.978 Abs [0.9055] {11.3 CV}	1.501 ng/mL [1.764] {23.1 CV}		0.150 - 5.000	H04

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

7/13/2016

Date



Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL
 Assay Mode: 4-Parameter Logistic # of decimals: 3
 Normal: 0.150 - 5.000 Assay Description: ELISA

Controls:
 Normal Control

Standards:
 Std1, Concentration = 0.000, Minimum number to use: 2
 Std2, Concentration = 0.150, Minimum number to use: 2
 Std3, Concentration = 0.400, Minimum number to use: 2
 Std4, Concentration = 1.000, Minimum number to use: 2
 Std5, Concentration = 2.500, Minimum number to use: 2
 Std6, Concentration = 5.000, 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
7/12/2016 3:55:12 PM			
Std1	1.776 Abs	< 0.000 ng/mL	A01
Std1	1.645 Abs	0.132 ng/mL	B01
Std2	1.543 Abs	0.306 ng/mL	C01
Std2	1.669 Abs	0.085 ng/mL	D01
Std3	1.512 Abs	0.356 ng/mL	F01
Std4	1.140 Abs	1.051 ng/mL	G01
Std4	1.155 Abs	1.016 ng/mL	H01
Std5	0.746 Abs	2.599 ng/mL	A02
Std5	0.788 Abs	2.330 ng/mL	B02
Std6	0.584 Abs	4.350 ng/mL	C02
Std6	0.514 Abs	> 5.000 ng/mL	D02
7/12/2016 3:55:12 PM			
Normal Control	1.328 Abs	0.666 ng/mL	F02
Normal Control	1.364 Abs	0.602 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.711	0.093	5.42				
Std2	1.606	0.089	5.55	0.196	0.156	79.93	30.67
Std3	1.512			0.356			-11.00
Std4	1.148	0.011	0.92	1.033	0.025	2.39	3.30
Std5	0.767	0.030	3.87	2.464	0.190	7.72	-1.44
Std6	0.549	0.049	9.02				-100.00
Normal Control	1.346	0.025	1.89	0.634	0.045	7.14	

