



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB34019	Field Blank	8/20/2018	8/22/2018	< 0.400
AB34012	Raccoon Lake SRA	8/20/2018	8/22/2018	< 0.400
AB34018	Raccoon Lake (Field Duplicate)	8/20/2018	8/22/2018	< 0.400
AB34014	Paynetown SRA	8/20/2018	8/22/2018	< 0.400
AB34013	Fairfax SRA	8/20/2018	8/22/2018	< 0.400
AB34015	Hardy Lake SRA	8/20/2018	8/22/2018	< 0.400
AB34010	Dog Park Lake	8/20/2018	8/22/2018	< 0.400
AB34017	Whitewater Memorial SP	8/21/2018	8/22/2018	< 0.400
AB34011	Quakertown SRA	8/21/2018	8/22/2018	< 0.400
AB34016	Mounds SRA	8/21/2018	8/22/2018	< 0.400
AB34016LD	Mounds (Lab Duplicate)	8/21/2018	8/22/2018	< 0.400
20180821LB	Lab Blank	8/21/2018	8/22/2018	< 0.400



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/22/2018 12:34:48 PM						
Std1	Anatoxin a ELISA (2 rep)	1.568 Abs	0.003 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.576 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.383 Abs	0.147 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.402 Abs	0.129 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.133 Abs	0.475 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.194 Abs	0.377 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.851 Abs	1.195 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.976 Abs	0.807 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.642 Abs	2.351 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.613 Abs	2.604 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.455 Abs	4.938 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.445 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.015 Abs	0.712 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.047 Abs	0.641 ng/mL			F02
AB34019	Anatoxin a ELISA (2 rep)	1.443 Abs	0.101 ng/mL	LOW	0.150 - 5.000	G02
AB34019	Anatoxin a ELISA (2 rep)	1.496 Abs [1.4695] {2.6 CV}	0.055 ng/mL [0.077] {41.7 CV}	Low [Low]	0.150 - 5.000	H02
AB34012	Anatoxin a ELISA (2 rep)	1.282 Abs	0.284 ng/mL		0.150 - 5.000	A03
AB34012	Anatoxin a ELISA (2 rep)	1.241 Abs [1.2615] {2.3 CV}	0.342 ng/mL [0.312] {13.1 CV}		0.150 - 5.000	B03
AB34018	Anatoxin a ELISA (2 rep)	1.281 Abs	0.285 ng/mL		0.150 - 5.000	C03
AB34018	Anatoxin a ELISA (2 rep)	1.379 Abs [1.3300] {5.2 CV}	0.166 ng/mL [0.222] {37.3 CV}		0.150 - 5.000	D03
AB34014	Anatoxin a ELISA (2 rep)	1.374 Abs	0.172 ng/mL		0.150 - 5.000	E03
AB34014	Anatoxin a ELISA (2 rep)	1.389 Abs [1.3815] {0.8 CV}	0.155 ng/mL [0.164] {7.4 CV}		0.150 - 5.000	F03
AB34013	Anatoxin a ELISA (2 rep)	1.496 Abs	0.055 ng/mL	LOW	0.150 - 5.000	G03
AB34013	Anatoxin a ELISA (2 rep)	0.968 Abs [1.2320] {30.3 CV}	0.911 ng/mL [0.355] {125.3 CV}		0.150 - 5.000	H03
AB34015	Anatoxin a ELISA (2 rep)	1.130 Abs	0.529 ng/mL		0.150 - 5.000	A04
AB34015	Anatoxin a ELISA (2 rep)	1.302 Abs [1.2160] {10.0 CV}	0.257 ng/mL [0.380] {48.9 CV}		0.150 - 5.000	B04
AB34010	Anatoxin a ELISA (2 rep)	1.442 Abs	0.102 ng/mL	LOW	0.150 - 5.000	C04
AB34010	Anatoxin a ELISA (2 rep)	1.324 Abs [1.3830] {6.0 CV}	0.230 ng/mL [0.162] {54.5 CV}		0.150 - 5.000	D04
AB34017	Anatoxin a ELISA (2 rep)	1.253 Abs	0.324 ng/mL		0.150 - 5.000	E04
AB34017	Anatoxin a ELISA (2 rep)	1.307 Abs [1.2800] {3.0 CV}	0.251 ng/mL [0.287] {18.0 CV}		0.150 - 5.000	F04
AB34011	Anatoxin a ELISA (2 rep)	1.270 Abs	0.300 ng/mL		0.150 - 5.000	G04
AB34011	Anatoxin a ELISA (2 rep)	1.153 Abs [1.2115] {6.8 CV}	0.486 ng/mL [0.387] {33.5 CV}		0.150 - 5.000	H04
AB34016	Anatoxin a ELISA (2 rep)	1.211 Abs	0.387 ng/mL		0.150 - 5.000	A05
AB34016	Anatoxin a ELISA (2 rep)	1.221 Abs [1.2160] {0.6 CV}	0.372 ng/mL [0.380] {2.8 CV}		0.150 - 5.000	B05
AB34016LD	Anatoxin a ELISA (2 rep)	1.340 Abs	0.210 ng/mL		0.150 - 5.000	C05
AB34016LD	Anatoxin a ELISA (2 rep)	1.222 Abs [1.2810] {6.5 CV}	0.371 ng/mL [0.285] {39.2 CV}		0.150 - 5.000	D05
20180821LB	Anatoxin a ELISA (2 rep)	1.167 Abs	0.461 ng/mL		0.150 - 5.000	E05
20180821LB	Anatoxin a ELISA (2 rep)	1.354 Abs [1.2605] {10.5 CV}	0.194 ng/mL [0.313] {57.6 CV}		0.150 - 5.000	F05

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

8/22/2018

Date



Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL
Assay Mode: 4-Parameter Logistic Weight by:None # 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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/22/2018 12:34:48 PM			
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Std6	0.445 Abs	> 5.000 ng/mL	D02
8/22/2018 12:34:48 PM			
Normal Control	1.047 Abs	0.641 ng/mL	F02
Normal Control	1.015 Abs	0.712 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.572	0.006	0.36				
Std2	1.392	0.013	0.96	0.138	0.013	9.22	-8.00
Std3	1.164	0.043	3.71	0.426	0.069	16.27	6.50
Std4	0.914	0.088	9.68	1.001	0.274	27.41	0.10
Std5	0.627	0.021	3.27	2.477	0.179	7.22	-0.92
Std6	0.450	0.007	1.57				-100.00
Normal Control	1.031	0.023	2.19	0.676	0.050	7.42	

