

**GreenWater Laboratories**

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## Contact:

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## Utah Division of Water Quality

## MICROCYSTIN RESULTS

Tested on: 10/10/2014  
 Method: Enzyme-Linked ImmunoSorbent Assay (ELISA)  
 Analyte: Microcystins  
 Analyzed by: Amanda Foss

Sample ID/ Date Collected	Initial Conc. Factor	Dilution Ratio	Assay Value, ug/L	Final Dilution Factor	Avg. LFB Recovery(%)	Avg. LFM Recovery(%)	Final Concentration (ug/L)	Average (ug/L)
Utah Lake-Lindon Boat Harbor 10/8/2014	1x	1:10	0.16	1	112%	—	0.16	<b>0.18</b>
	1x	1:10	0.19	1			0.19	
Utah Lake-Provo State Park Harbor 10/8/2014	1x	1:10	0.29	1	112%	—	0.29	<b>0.30</b>
	1x	1:10	0.31	1			0.31	
Utah Lake-Outlet to Jordan River 10/8/2014	1x	1:10	0.18	1	112%	—	0.18	<b>0.21</b>
	1x	1:10	0.23	1			0.23	
Jordan River-4994790-Jordan R at Utah L Outlet U121 XING 10/8/2014	1x	1:10	0.19	1	112%	—	0.19	<b>0.19</b>
	1x	1:10	0.18	1			0.18	
Jordan River-4994720-Jordan R at Narrows-Pump Station 10/8/2014	1x	1:10	0.13	1	112%	—	<0.15	<b>0.20</b>
	1x	1:10	0.27	1			0.27	

LOD/LOQ = 0.15 µg/L  
 LFB = 1.0 µg/L MCLR  
 LFM = 1.0 µg/L MCLR

Submitted by:

Amanda Foss, M.S.  
 10/10/2014

Date:

Submitted to:

Carl Adams  
 Utah Division of Water Quality  
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**CYLINDROSPERMOPSIN RESULTS**

**Tested on:** 10/10/2014  
**Method:** Enzyme-Linked ImmunoSorbent Assay (ELISA)  
**Analyte:** Cylindrospermopsin  
**Analyzed by:** Amanda Foss

Sample ID/ Date Collected	Initial Conc. Factor	Dilution Ratio	Assay Value, ug/L	Final Dilution Factor	Avg. LFB Recovery(%)	Avg. LFM Recovery(%)	Final Concentration (ug/L)	Average (ug/L)
Utah Lake-Lindon Boat Harbor 10/8/2014	1x	none	0.22	1	94%	—	0.22	<b>0.22</b>
	1x	none	0.22	1			0.22	
Utah Lake-Provo State Park Harbor 10/8/2014	1x	none	0.00	1	94%	97%	<0.10	<b>ND</b>
	1x	none	0.00	1			<0.10	
Utah Lake-Outlet to Jordan River 10/8/2014	1x	none	0.02	1	94%	—	<0.10	<b>ND</b>
	1x	none	0.02	1			<0.10	
Jordan River-4994790-Jordan R at Utah L Outlet U121 XING 10/8/2014	1x	none	0.05	1	94%	—	<0.10	<b>ND</b>
	1x	none	0.06	1			<0.10	
Jordan River-4994720-Jordan R at Narrows-Pump Station 10/8/2014	1x	none	0.00	1	94%	93%	<0.10	<b>ND</b>
	1x	none	0.00	1			<0.10	

ND = Not detected above LOD/LOQ  
 LOD/LOQ = 0.10 µg/L  
 LFB = 1.0 µg/L CYN  
 LFM = 1.0 µg/L CYN

Submitted by:

*Amanda Foss*

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**Utah Division of Water Quality****SAXITOXIN RESULTS**

**Tested on:** 10/10/2014  
**Method:** Enzyme-Linked ImmunoSorbent Assay (ELISA)  
**Analyte:** Saxitoxins  
**Analyzed by:** Amanda Foss

Sample ID/ Date Collected	Initial Conc. Factor	Dilution Ratio	Assay Value, ug/L	Final Dilution Factor	Avg. LFB Recovery(%)	Avg. LFM Recovery(%)	Final Concentration (ug/L)	Average (ug/L)
Utah Lake-Lindon Boat Harbor 10/8/2014	1x 1x	none none	0.01 0.00	1 1	100%	—	<0.05 <0.05	ND
Utah Lake-Provo State Park Harbor 10/8/2014	1x 1x	none none	0.02 0.01	1 1	100%	—	<0.05 <0.05	ND
Utah Lake-Outlet to Jordan River 10/8/2014	1x 1x	none none	0.01 0.02	1 1	100%	100%	<0.05 <0.05	ND
Jordan River-4994790-Jordan R at Utah L Outlet U121 XING 10/8/2014	1x 1x	none none	0.02 0.02	1 1	100%	—	<0.05 <0.05	ND
Jordan River-4994720-Jordan R at Narrows-Pump Station 10/8/2014	1x 1x	none none	0.00 0.00	1 1	100%	90%	<0.05 <0.05	ND

ND = Not detected above LOD/LOQ  
 LOD/LOQ = 0.05 µg/L  
 LFB = 0.2 µg/L STX  
 LFM = 0.2 µg/L STX

Submitted by:

Amanda Foss, M.S.  
 10/10/2014

Date:

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