



**United States Environmental Protection Agency  
Region 9 Laboratory**

1337 S. 46th Street Building 201  
Richmond, CA 94804

**Date:** 6/19/2019

**Subject:** Analytical Testing Results - Project R19W04  
WorkOrder: 1906015

**From:** Peter Husby, Director  
EPA Region 9 Laboratory  
EMD-3-1

**To:** Susan Keydel  
Watersheds Section  
WTR-3-2

Attached are the results from the analysis of samples from the **FY2019 Cyanotoxins for California Lakes Waters** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Audrey Johnson at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

**Analyses included in this report:**

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Microcystin by ELISA



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Phone:(510) 412-2300 Fax:(510) 412-2302

<b>Project Manager:</b> Susan Keydel	<b>Watersheds Section</b>	<b>WorkOrder:</b> 1906015
<b>Project Number:</b> R19W04	<b>75 Hawthorne Street</b>	<b>Reported:</b> 06/19/19 09:57
<b>Project:</b> FY2019 Cyanotoxins for California Lakes Waters	<b>San Francisco CA, 94105</b>	

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
South Newport Dr	1906015-01	Water	06/11/19 15:05	06/12/19 11:45
Clipper Dr 4601-4641	1906015-02	Water	06/11/19 15:35	06/12/19 11:45
Sand Pt Rd	1906015-03	Water	06/11/19 14:48	06/12/19 11:45
Newport Dr 2115-2199	1906015-04	Water	06/11/19 14:59	06/12/19 11:45
Newport Dr 1817-1871	1906015-05	Water	06/11/19 14:40	06/12/19 11:45
Fuel Pump	1906015-06	Water	06/11/19 13:40	06/12/19 11:45
Double Pt Wy	1906015-07	Water	06/11/19 14:30	06/12/19 11:45
Newport Dr 2015-2079	1906015-08	Water	06/11/19 14:55	06/12/19 11:45
Clipper Dr 4441-4461	1906015-09	Water	06/11/19 15:22	06/12/19 11:45
Marina Cir	1906015-10	Water	06/11/19 14:20	06/12/19 11:45
Yacht Harbor	1906015-11	Water	06/11/19 16:40	06/12/19 11:45
Boardwalk Grill	1906015-12	Water	06/11/19 13:05	06/12/19 11:45
Discovery Pt	1906015-13	Water	06/11/19 16:07	06/12/19 11:45
Seal Wy	1906015-14	Water	06/11/19 15:43	06/12/19 11:45
Cabrillo Pt 5115-5135	1906015-15	Water	06/11/19 14:05	06/12/19 11:45
Windward Pt	1906015-16	Water	06/11/19 15:18	06/12/19 11:45
790 Beaver Ln	1906015-17	Water	06/11/19 12:28	06/12/19 11:45



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**Sample Results**

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID:</b> 1906015-01									<b>Water - Sampled: 06/11/19 15:05</b>
<b>Sample ID:</b> South Newport Dr									<b>Microcystin by ELISA</b>
Microcystin		0.46		0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-02									<b>Water - Sampled: 06/11/19 15:35</b>
<b>Sample ID:</b> Clipper Dr 4601-4641									<b>Microcystin by ELISA</b>
Microcystin		0.42		0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-03									<b>Water - Sampled: 06/11/19 14:48</b>
<b>Sample ID:</b> Sand Pt Rd									<b>Microcystin by ELISA</b>
Microcystin		0.10	C1, J	0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-04									<b>Water - Sampled: 06/11/19 14:59</b>
<b>Sample ID:</b> Newport Dr 2115-2199									<b>Microcystin by ELISA</b>
Microcystin		0.11	C1, J	0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-05									<b>Water - Sampled: 06/11/19 14:40</b>
<b>Sample ID:</b> Newport Dr 1817-1871									<b>Microcystin by ELISA</b>
Microcystin		ND	U	0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-06									<b>Water - Sampled: 06/11/19 13:40</b>
<b>Sample ID:</b> Fuel Pump									<b>Microcystin by ELISA</b>
Microcystin		ND	U	0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-07									<b>Water - Sampled: 06/11/19 14:30</b>
<b>Sample ID:</b> Double Pt Wy									<b>Microcystin by ELISA</b>
Microcystin		0.11	C1, J	0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-08									<b>Water - Sampled: 06/11/19 14:55</b>
<b>Sample ID:</b> Newport Dr 2015-2079									<b>Microcystin by ELISA</b>
Microcystin		0.12	C1, J	0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-09									<b>Water - Sampled: 06/11/19 15:22</b>
<b>Sample ID:</b> Clipper Dr 4441-4461									<b>Microcystin by ELISA</b>
Microcystin		0.57		0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-10									<b>Water - Sampled: 06/11/19 14:20</b>
<b>Sample ID:</b> Marina Cir									<b>Microcystin by ELISA</b>
Microcystin		0.12	C1, J	0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-11									<b>Water - Sampled: 06/11/19 16:40</b>
<b>Sample ID:</b> Yacht Harbor									<b>Microcystin by ELISA</b>
Microcystin		0.64		0.15	ug/L	B19F044	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-12									<b>Water - Sampled: 06/11/19 13:05</b>
<b>Sample ID:</b> Boardwalk Grill									<b>Microcystin by ELISA</b>
Microcystin		0.43		0.15	ug/L	B19F046	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-13									<b>Water - Sampled: 06/11/19 16:07</b>
<b>Sample ID:</b> Discovery Pt									<b>Microcystin by ELISA</b>
Microcystin		ND	U	0.15	ug/L	B19F046	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-14									<b>Water - Sampled: 06/11/19 15:43</b>



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<b>Project:</b> FY2019 Cyanotoxins for California Lakes Waters	<b>San Francisco CA, 94105</b>	

**Sample Results**

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID:</b> 1906015-14									<b>Water - Sampled: 06/11/19 15:43</b>
<b>Sample ID:</b> Seal Wy									<b>Microcystin by ELISA</b>
Microcystin		0.22		0.15	ug/L	B19F046	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-15									<b>Water - Sampled: 06/11/19 14:05</b>
<b>Sample ID:</b> Cabrillo Pt 5115-5135									<b>Microcystin by ELISA</b>
Microcystin		ND	U	0.15	ug/L	B19F046	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-16									<b>Water - Sampled: 06/11/19 15:18</b>
<b>Sample ID:</b> Windward Pt									<b>Microcystin by ELISA</b>
Microcystin		0.14	C1, J	0.15	ug/L	B19F046	06/13/19	06/13/19	ELISA
<b>Lab ID:</b> 1906015-17									<b>Water - Sampled: 06/11/19 12:28</b>
<b>Sample ID:</b> 790 Beaver Ln									<b>Microcystin by ELISA</b>
Microcystin		ND	U	0.15	ug/L	B19F046	06/13/19	06/13/19	ELISA

**Quality Control**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B19F044 - - General Biology - Microcystin by ELISA</b>										
										<b>Prepared &amp; Analyzed: 06/13/19</b>
<b>Blank (B19F044-BLK1)</b>										<b>Microcystin by ELISA - Quality Control</b>
Microcystin	ND	U	0.15	ug/L						
<b>LCS (B19F044-BS1)</b>										
Microcystin	0.74			ug/L	0.750		99	60-140		
<b>Batch B19F046 - - General Biology - Microcystin by ELISA</b>										
										<b>Prepared &amp; Analyzed: 06/13/19</b>
<b>Blank (B19F046-BLK1)</b>										<b>Microcystin by ELISA - Quality Control</b>
Microcystin	ND	U	0.15	ug/L						
<b>LCS (B19F046-BS1)</b>										
Microcystin	0.58			ug/L	0.750		78	60-140		



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Waters

**Watersheds Section**

75 Hawthorne Street  
San Francisco CA, 94105

**WorkOrder:** 1906015

**Reported:** 06/19/19 09:57

**Qualifiers and Comments**

J The reported result for this analyte should be considered an estimated value.

C1 The reported concentration for this analyte is below the quantitation limit.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.