

Date	Southern Field Division - West Branch																								
	Pyramid Lake PY001 (1m) Angeles Tunnel Inlet		Pyramid Lake PY001 (surface) Angeles Tunnel Inlet		Pyramid Lake Emigrant Landing Swim Beach (surface)		Pyramid Lake Vaquero Swim Beach (surface)		Castaic Lake CA002 (1m) Castaic Outlet		Castaic Lake CA002 (surface) Castaic Outlet		Castaic Lake Boat Launch (surface)		Castaic Lagoon Swim Beach (surface)										
	MC	CYN	STX	ANT	MC	CYN	STX	ANT	MC	CYN	STX	ANT	MC	CYN	STX	ANT	MC	CYN	STX	ANT	MC	CYN	STX	ANT	
04/25/17	npt	npt	npt	npt									ND	ND	0.05	ND									
05/22/17													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
05/23/17													ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
05/24/17	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND	ND	ND									
05/30/17													ND	nr	nr	nr	0.27	nr	nr	nr	nr	nr	nr	nr	
06/06/17																0.18	nr	nr	0.18	nr	nr	nr	nr	nr	
06/07/17																									
06/13/17	0.59	nr	nr	nr	0.64	nr	nr	nr	ND	npt	npt	npt	0.30	npt	npt	npt	0.18	nr	nr	nr	0.23	npt	npt	0.21	nr
06/19/17																	0.57	nr	nr	nr	0.43	nr	nr	0.41	npt
06/20/17	2.64	npt	npt	npt	3.93	npt	npt	npt	ND	ND	ND	ND	1.03	npt	npt	npt									
06/26/17																0.73	npt	npt	npt	0.74	npt	npt	0.65	npt	
06/27/17	1.68	npt	npt	npt	1.87	nr	nr	nr	nr	nr	nr	nr	1.17	npt	npt	npt									
07/05/17																0.41	npt	npt	npt	0.37	npt	npt	0.29	nr	
07/06/17	1.58	nr	nr	nr	2.01	nr	nr	nr	npt	npt	npt	npt	1.14	npt	npt	npt									
07/10/17																0.16	npt	npt	npt	0.66	nr	nr	0.31	npt	
07/11/17	0.76	nr	nr	nr	0.69	npt	npt	npt	0.56	npt	npt	npt	1.13	npt	npt	npt									
07/17/17																ND	npt	npt	npt	ND	npt	npt	ND	nr	
07/18/17	0.47	npt	npt	npt	0.54	nr	nr	nr	1.08	npt	npt	npt	1.06	npt	npt	npt									
07/24/17																ND	npt	npt	npt	ND	npt	npt	ND	npt	
07/25/17	0.47	npt	npt	npt	0.21	npt	npt	npt	0.51	npt	npt	npt	0.63	npt	npt	npt									
07/31/17																npt	npt	npt	npt	ND	npt	npt	npt	npt	
08/01/17	2.25	npt	npt	npt	1.46	npt	npt	npt	0.87	nr	nr	nr	2.61	npt	npt	npt									
08/07/17																npt	ND	ND	ND	npt	ND	ND	ND	npt	
08/09/17	1.14	ND	ND	ND	0.92	npt	npt	npt	2.71	nr	nr	nr	1.01	npt	npt	npt									
08/14/17																nr	nr	nr	nr	nr	nr	nr	npt		
08/15/17	0.82	npt	npt	npt	0.83	npt	npt	npt	0.58	npt	npt	npt	0.91	npt	npt	npt									
08/21/17																npt	nr	nr	nr	npt	nr	npt	npt	npt	
08/22/17	1.00	npt	npt	npt	1.18	npt	npt	npt	2.30	nr	nr	nr	0.52	npt	npt	npt									
08/28/17																npt	npt	npt	npt	npt	npt	npt	nr		
08/29/17	0.73	npt	npt	npt	0.80	nr	nr	nr	0.39	npt	npt	npt	1.84	npt	npt	npt									
09/05/17	0.97	nr	nr	nr	0.69	nr	nr	nr	1.47	nr	nr	nr	0.70	nr	nr	nr	npt	npt	npt	npt	npt	npt	npt	npt	
09/11/17																npt	npt	npt	npt	npt	npt	npt	npt	npt	
09/12/17	1.24	nr	nr	nr	2.27	nr	nr	nr	1.45	nr	nr	nr	2.13	nr	nr	nr									
09/19/17	0.29	nr	nr	nr	0.16	nr	nr	nr	0.60	npt	npt	npt	ND	npt	npt	npt									
09/25/17																ND	ND	ND	ND						
09/26/17	ND	npt	npt	npt	ND	npt	npt	npt	ND	npt	npt	npt	npt	npt	npt	npt									
10/03/17	ND*	npt	npt	npt	npt	npt	npt	npt	ND*	npt	npt	npt	npt	npt	npt	npt									
10/10/17	npt	npt	npt	npt	npt	npt	npt	npt	ND	npt	npt	npt	ND	npt	npt	npt									
10/16/17																nr	npt	npt	nr						
10/17/17	npt	npt	npt	npt	npt	npt	npt	npt	ND	npt	npt	npt	npt	npt	npt	npt									
10/23/17																nr	npt	npt	nr						
10/24/17	npt	npt	npt	npt																					

Units = ug/L

Toxins – Microcystins (MC), cylindrospermopsin (CYN), saxitoxin (STX), anatoxin-A (ANT)

ND = Not detected above the LOD;

"npt" = No potential toxin producers observed by microscopy and ELISA analysis not conducted

"nr" = potential toxin producers present but toxin analysis not recommended by the lab due to low abundance or previous toxin analyses

LOD = 0.05 µg/L (ANT & STX), 0.1 µg/L CYN, 0.15 µg/L MC

** Indicates LC/MS conducted to determine concentration of microcystin variants (see MC-variant worksheet)

GreenWater Laboratories

Sample Preparation

Water Sample Ultrasonication

Samples were received and inverted for 60 seconds to mix. A subset was removed prior to dismemberment for algal identification purposes. The remaining sample was sonicated to release toxins and prepared for analyses.

Quality Control

Lab Fortified Sample Matrix/Lab Fortified Sample Matrix Duplicate and SUR/IS QC samples prepared for analyses pre-extraction

Potentially Toxigenic (PTOX) Cyanobacteria Screen

One mL aliquots of the samples were prepared using Sedgewick Rafter cells. Each sample was scanned at 100X for the presence of potentially toxigenic (PTOX) cyanobacteria using a Nikon Eclipse TS100 Inverted Microscope equipped with phase contrast optics. Higher magnification was used as necessary for identification and micrographs.

Analytical Techniques

Enzyme-Linked Immunosorbent Assay (ELISA)

MCs/NODs

A microcystins/nodularins Adda ELISA (Abraxis) was utilized for the quantitative and sensitive congener-independent detection of MCs/NODs (US EPA Method 546 & Ohio EPA DES 701.0). The current method reporting limit is 0.15 ng/mL (ppb) based on kit sensitivity, dilution factors and initial demonstration of capability.

STX

A saxitoxin specific ELISA (Abraxis PN 52255B) was utilized for the detection and quantification of saxitoxin and related analogs (paralytic shellfish toxins – PSTs). The current method reporting limit is 0.05 ng/mL (ppb) based on kit sensitivity and dilution factors. Based on manufacture instructions, the STX ELISA is less cross-reactive to other PSTs and will likely underestimate total PSTs/Saxitoxins. Reported cross-reactivities are as follows: NEO (1.3%), dcSTX (29%), GTX2/3 (23%), GTX5 (23%), dcGTX2/3 (1.4%), dcNEO (0.6%) & GTX1/4 (<0.2%).

Liquid chromatography mass spectrometry/mass spectrometry (LC-MS/MS)

ANTX-a (Method 545)

The [M+H]⁺ ion for ANTX-A (166 m/z) was fragmented and the product ions (91, 131 & 149 m/z) were monitored. The quantification ion, 91 m/z, was extracted and responses compared to the internal standard L-phenylalanine-d5 (171 to 125 m/z).

CYN (Method 545)

The [M+H]⁺ ion for CYN (416 m/z) was fragmented and the product ions (194, 274, 336 m/z) were monitored. The quantification ion, 274 m/z, was extracted and responses compared to the internal standard uracil-d4 (115 to 98 m/z).

PTOX species, detectable toxin levels and variant concentration determined by LC/MS and external standard.

Toxins – Anatoxin-a (ANT) cylindrospermopsin (CYN), microcystin (MC), saxitoxin (STX)

Date	Station (drop list)	Sample depth	Toxin (Drop list)	Conc. (ug/L)	PTOX Species (Drop list)	(Drop list)	(Drop list)	Congener concentration determined by LC/MS	Notes
4/18/2017	NBA Barker SI PP	10-15 ft approx	MC	ND	<i>Planktothrix</i>	<i>Pseudanabaena</i>			
4/18/2017	NBA Barker SI PP	10-15 ft approx	ANTX-A	ND	<i>Planktothrix</i>	<i>Pseudanabaena</i>			
4/25/2017	Lake Del Valle	1m	CYN	ND	<i>Aphanizomenon klebahnii/flos-aquae</i>				
4/25/2017	Lake Del Valle	1m	STX	ND	<i>Aphanizomenon klebahnii/flos-aquae</i>				
4/25/2017	Lake Del Valle	1m	ANTX-A	ND	<i>Aphanizomenon klebahnii/flos-aquae</i>				
4/24/2017	Dyer Res	1m	MC	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Pseudanabaena</i>		
4/24/2017	Dyer Res	1m	STX	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Pseudanabaena</i>		
4/24/2017	Dyer Res	1m	CYN	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Pseudanabaena</i>		
4/24/2017	Dyer Res	1m	ANTX-A	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Pseudanabaena</i>		
4/25/2017	Perris	1m	MC-CYN-STX-ANTX	ND	<i>Aphanizomenon klebahnii/flos-aquae</i>	<i>Woronichinia naegeliana</i>			
4/25/2017	Castaic	1m	ANTX-A	ND	<i>Dolichospermum</i>				
4/25/2017	Castaic	1m	MC	ND	<i>Dolichospermum</i>				
4/25/2017	Castaic	1m	STX	0.05	<i>Dolichospermum</i>				
4/25/2017	Castaic	1m	CYN	ND	<i>Dolichospermum</i>				
5/16/2017	NBA Barker SI PP	10-15 ft approx	MC	0.29	<i>Dolichospermum</i>	<i>Pseudanabaena</i>			
5/16/2017	NBA Barker SI PP	10-15 ft approx	STX	ND	<i>Dolichospermum</i>	<i>Pseudanabaena</i>			
5/16/2017	NBA Barker SI PP	10-15 ft approx	ANTX-A	ND	<i>Dolichospermum</i>	<i>Pseudanabaena</i>			
5/16/2017	NBA Barker SI PP	10-15 ft approx	CYN	ND	<i>Dolichospermum</i>	<i>Pseudanabaena</i>			
5/22/2017	Lake Del Valle	1m	MC-CYN-STX-ANTX	ND	<i>Dolichospermum</i>				
5/22/2017	Dyer Res	1m	nr		<i>Dolichospermum</i>				
5/23/2017	SLR Basalt Boat Launch	surface	MC	1.09	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Microcystis</i>	<i>Pseudanabaena</i>	
5/23/2017	SLR Basalt Boat Launch	surface	CYN	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Microcystis</i>	<i>Pseudanabaena</i>	
5/23/2017	SLR Basalt Boat Launch	surface	STX	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Microcystis</i>	<i>Pseudanabaena</i>	
5/23/2017	SLR Basalt Boat Launch	surface	ANTX-A	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Microcystis</i>	<i>Pseudanabaena</i>	
5/22/2017	Castaic Lake Boat Launch	surface	MC	0.15	<i>Dolichospermum</i>	<i>Aphanocapsa</i>	<i>Microcystis</i>		
5/22/2017	Castaic Lake Boat Launch	surface	CYN	ND	<i>Dolichospermum</i>				Analytical result is estimated.
5/22/2017	Castaic Lake Boat Launch	surface	STX	ND	<i>Dolichospermum</i>	<i>Aphanocapsa</i>	<i>Microcystis</i>		Values Achieved were outside calibration range. Analyte was positively identified; the associated numerical value is estimated.
5/22/2017	Castaic Lake Boat Launch	surface	ANTX-A	ND	<i>Dolichospermum</i>	<i>Aphanocapsa</i>	<i>Microcystis</i>		
5/22/2017	Castaic Outlet	1m	MC-CYN-STX-ANTX	ND	<i>Aphanocapsa</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>		
5/22/2017	Castaic Outlet	surface	MC-CYN-STX-ANTX	ND	<i>Dolichospermum</i>				
5/22/2017	Castaic Lagoon Swim Beach	surface	MC-CYN-STX-ANTX	ND	<i>Dolichospermum</i>	<i>Microcystis</i>	<i>Aphanocapsa</i>	<i>Aphanizomenon</i>	
5/24/2017	Pyramid-Angeles Tunnel Inlet	1m	MC-CYN-STX-ANTX	ND	<i>Aphanizomenon</i>	<i>Dolichospermum</i>			
5/24/2017	Pyramid-Angeles Tunnel Inlet	surface	MC-CYN-STX-ANTX	ND	<i>Dolichospermum</i>	<i>Gloetrichia echinulata</i>			
5/23/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC-CYN-STX-ANTX	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>			
5/24/2017	Pyramid-Vaquero Swim Beach	surface	MC-CYN-STX-ANTX	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>	<i>Gloetrichia echinulata</i>		
5/22/2017	Perris Outlet	1m	MC	0.16	<i>Aphanocapsa</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>		
5/22/2017	Perris Outlet	1m	CYN	ND	<i>Aphanocapsa</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>		
5/22/2017	Perris Outlet	1m	STX	ND	<i>Aphanocapsa</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>		
5/22/2017	Perris Outlet	1m	ANTX-A	ND	<i>Aphanocapsa</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>		
5/22/2017	Perris Outlet	surface	MC	0.22	<i>Aphanizomenon</i>	<i>Aphanocapsa</i>	<i>Dolichospermum</i>	<i>Microcystis</i>	<i>Woronichinia naegeliana</i>
5/22/2017	Perris Outlet	surface	CYN	ND	<i>Aphanizomenon</i>	<i>Aphanocapsa</i>	<i>Dolichospermum</i>	<i>Microcystis</i>	<i>Woronichinia naegeliana</i>
5/22/2017	Perris Outlet	surface	STX	ND	<i>Aphanizomenon</i>	<i>Aphanocapsa</i>	<i>Dolichospermum</i>	<i>Microcystis</i>	<i>Woronichinia naegeliana</i>
5/22/2017	Perris Outlet	surface	ANTX-A	ND	<i>Aphanizomenon</i>	<i>Aphanocapsa</i>	<i>Dolichospermum</i>	<i>Microcystis</i>	<i>Woronichinia naegeliana</i>
5/22/2017	Perris Outlet	surface	MC	0.18	<i>Dolichospermum</i>	<i>Aphanocapsa</i>	<i>Microcystis</i>		
5/22/2017	Lake Perris Swim Beach	surface	CYN	ND	<i>Dolichospermum</i>	<i>Aphanocapsa</i>	<i>Microcystis</i>		
5/22/2017	Lake Perris Swim Beach	surface	STX	ND	<i>Dolichospermum</i>	<i>Aphanocapsa</i>	<i>Microcystis</i>		
5/22/2017	Lake Perris Swim Beach	surface	ANTX-A	ND	<i>Dolichospermum</i>	<i>Aphanocapsa</i>	<i>Microcystis</i>		
5/22/2017	Lake Perris near Dam	surface	MC-CYN-STX-ANTX	ND	<i>Aphanizomenon</i>	<i>Dolichospermum</i>			
5/22/2017	Lake Oroville Swim Beach	surface	MC-CYN-STX-ANTX	ND	<i>Aphanizomenon</i>	<i>Dolichospermum</i>			
5/22/2017	Thermalito Forebay Swim Beach	surface	MC-CYN-STX-ANTX	ND	<i>Anabaena</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>		
5/22/2017	Thermalito Afterbay Swim Beach	surface	MC-CYN-STX-ANTX	ND	<i>Anabaena</i>	<i>Phormidium</i>	<i>Dolichospermum</i>	<i>Oscillatoria</i>	<i>Aphanizomenon</i>
5/30/2017	SLR Basalt Boat Launch	surface	MC	0.46	<i>Aphanizomenon</i>	<i>Dolichospermum</i>	<i>Microcystis</i>		
5/30/2017	O'Neill Forebay North Beach	surface	nr		<i>Aphanizomenon</i>				
5/30/2017	Lake Oroville Swim Beach	surface	MC-CYN-STX-ANTX	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>			
5/30/2017	Thermalito Forebay Swim Beach	surface	nr		<i>Dolichospermum</i>	<i>Aphanizomenon</i>			
5/30/2017	Thermalito Afterbay Swim Beach	surface	nr		<i>Aphanizomenon</i>				
5/30/2017	Castaic Outlet	surface	MC	ND	<i>Aphanocapsa</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>	<i>Microcystis</i>	
5/30/2017	Castaic Lake Boat Launch	surface	MC	0.27	<i>Aphanocapsa</i>	<i>Microcystis</i>	<i>Aphanizomenon</i>	<i>Dolichospermum</i>	
5/30/2017	Castaic Lagoon Swim Beach	surface	nr		<i>Aphanizomenon</i>	<i>Dolichospermum</i>			
5/30/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	ND	<i>Dolichospermum</i>	<i>Aphanizomenon</i>		<i>Microcystis</i>	
5/30/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	ND	<i>Microcystis</i>	<i>Dolichospermum</i>			
5/30/2017	Pyramid-Vaquero Swim Beach	surface	MC	ND	<i>Microcystis</i>				

5/30/2017	Perris Outlet	surface	MC	0.15	Aphanocapsa	Dolichospermum		Analytical result is estimated. Values achieved were outside calibration range.
5/30/2017	Lake Perris Swim Beach	surface	MC	0.15	Dolichospermum	Aphanocapsa	<i>Aphanizomenon</i>	
5/30/2017	Lake Perris Swim Beach	surface	CYN	ND	Dolichospermum	Aphanocapsa	<i>Aphanizomenon</i>	
5/30/2017	Lake Perris Swim Beach	surface	ANTX-A	ND	Dolichospermum	Aphanocapsa	<i>Aphanizomenon</i>	
5/30/2017	Lake Perris Swim Beach	surface	STX	ND	Dolichospermum	Aphanocapsa	<i>Aphanizomenon</i>	
5/31/2017	Silverwood Outlet	surface		nr	Aphanizomenon	Aphanocapsa	<i>Aphanizomenon</i>	
6/5/2017	SLR Basalt Boat Launch	surface	MC	3.10	Aphanizomenon	Dolichospermum	<i>Microcystis</i>	
6/5/2017	Thermalito Forebay Swim Beach	surface	MC-CYN-STX-ANTX	ND	Nostocalean filament	Dolichospermum	<i>Woronichinia naegeliana</i>	
6/6/2017	Perris Outlet	1m	MC	0.15	Aphanocapsa	Dolichospermum	<i>Aphanizomenon</i>	
6/6/2017	Perris Outlet	surface	MC	ND	Dolichospermum	Aphanocapsa	<i>Microcystis</i>	Analytical result is estimated. Values achieved were outside calibration range.
6/6/2017	Lake Perris Swim Beach	surface	MC	0.15	Dolichospermum	Aphanocapsa	<i>Woronichinia naegeliana</i>	Analytical result is estimated. Values achieved were outside calibration range.
6/7/2017	Silverwood Outlet	1m	MC	nr	Aphanizomenon	Aphanocapsa		Analytical result is estimated. Values achieved were outside calibration range.
6/7/2017	Silverwood Outlet	surface		nr	Aphanizomenon	Cyanophyte filaments		Analytical result is estimated. Values achieved were outside calibration range.
6/7/2017	Silverwood-Sawpit Swim Beach	surface		nr	Aphanizomenon			Analytical result is estimated. Values achieved were outside calibration range.
6/7/2017	Silverwood-Cleghorn	surface		nr	Aphanizomenon			Analytical result is estimated. Values achieved were outside calibration range.
6/6/2017	Castaic Outlet	surface	MC	0.18	Aphanocapsa	Dolichospermum	<i>Aphanizomenon</i>	
6/6/2017	Castaic Lake Boat Launch	surface	MC	0.18	Aphanocapsa	Microcystis	<i>Dolichospermum</i>	
6/6/2017	Castaic Lagoon Swim Beach	surface		nr	Aphanizomenon	Dolichospermum	<i>Aphanizomenon</i>	
6/7/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.23	Microcystis			
6/7/2017	Pyramid-Vaquero Swim Beach	surface	MC	0.30	Microcystis			
6/12/2017	Thermalito Forebay Swim Beach	surface		nr	Dolichospermum	<i>Gloetrichia echinulata</i>		
6/12/2017	Thermalito Afterbay Swim Beach	surface		nr	Anabaena	Oscillatoria	<i>Nostocalean filament</i>	
6/12/2017	Clifton Court FB	10-15 ft approx	MC-CYN-STX-ANTX	ND	Dolichospermum	Oscillatoria		
6/12/2017	Dyer Res	1m	MC-CYN-STX-ANTX	ND	Dolichospermum	Oscillatoria		
6/12/2017	Banks	10-15 ft approx	MC	ND	Dolichospermum	Aphanizomenon	<i>Microcystis</i>	
6/12/2017	Banks	10-15 ft approx	CYN	ND	Dolichospermum			
6/12/2017	Banks	10-15 ft approx	ANTX-A	ND	Dolichospermum			
6/12/2017	SLR Pacheco PP	170-230 ft approx		nr	Aphanizomenon	Cyanophyte filaments		
6/12/2017	O'Neill Forebay North Beach	surface	MC-CYN-STX-ANTX	ND	Dolichospermum			
6/12/2017	SLR Basalt Boat Launch	surface	MC	1.18	Aphanizomenon	Microcystis	<i>Dolichospermum</i>	
6/12/2017	SLR Gianelli	5-10 ft approx	MC-CYN-STX-ANTX	ND	Dolichospermum		<i>Cyanophyte filaments</i>	
6/13/2017	Castaic Lagoon Swim Beach			nr	Aphanizomenon			
6/13/2017	Castaic Outlet	1m	MC	0.18	Aphanocapsa	Microcystis	<i>Aphanizomenon</i>	
6/13/2017	Castaic Outlet	surface	MC	0.23	Aphanocapsa	Microcystis	<i>Dolichospermum</i>	
6/13/2017	Castaic Lake Boat Launch	surface	MC	0.21	Aphanocapsa	Microcystis		
6/13/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	0.59	Microcystis	<i>Aphanizomenon</i>	<i>Dolichospermum</i>	
6/13/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.64	Microcystis	<i>Gloetrichia echinulata</i>	<i>Aphanizomenon</i>	
6/13/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	ND	Gloetrichia echinulata			
6/13/2017	Pyramid-Vaquero Swim Beach	surface	MC	0.19	Microcystis	<i>Gloetrichia echinulata</i>		
6/13/2017	Perris Outlet	1m	MC	0.15*	Aphanocapsa	Microcystis	<i>Aphanizomenon</i>	
6/13/2017	Perris Outlet	surface	MC	0.17	Aphanizomenon			Analytical result is estimated. Values achieved were outside calibration range.
6/13/2017	Lake Perris Swim Beach	surface	MC	0.16	Microcystis	<i>Woronichinia naegeliana</i>	<i>Aphanizomenon</i>	
6/14/2017	Silverwood Outlet	surface	MC	ND	Phormidium			
6/14/2017	Silverwood Outlet	surface	ANTX-A	ND	Phormidium	<i>Aphanizomenon</i>		
6/14/2017	Silverwood-Cleghorn	surface	MC-CYN-STX-ANTX	ND	Dolichospermum			
6/14/2017	Silverwood-Sawpit Swim Beach	surface		nr	Aphanizomenon	Cyanophyte filaments		
6/19/2017	SLR Basalt Boat Launch	surface	MC	1.63	Microcystis	<i>Woronichinia naegeliana</i>	<i>Aphanizomenon</i>	
6/20/2017	Thermalito Forebay Swim Beach	surface		nr	Dolichospermum		<i>Dolichospermum</i>	
6/19/2017	Antelope Lake near spillway	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Aphanizomenon	<i>Cyanophyte filaments</i>	
6/19/2017	Perris Outlet	surface	MC	0.19	Dolichospermum			
6/19/2017	Lake Perris Swim Beach	surface	MC	0.18*	Aphanizomenon	Dolichospermum		
6/20/2017	Silverwood Outlet	surface		nr	Aphanizomenon			
6/20/2017	Silverwood-Sawpit Swim Beach	surface		nr	Aphanizomenon			
6/20/2017	NBA Barker SI PP	10-15 ft approx	MC-CYN-STX-ANTX	ND	Aphanizomenon	Cuspidothrix	<i>Dolichospermum</i>	
6/19/2017	Castaic Lake Boat Launch	surface	MC	0.41	Aphanocapsa	Microcystis		
6/19/2017	Castaic Lagoon Swim Beach	surface	MC-CYN-STX-ANTX	ND	Aphanizomenon	Microcystis	<i>Dolichospermum</i>	
6/20/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	2.64	Microcystis	<i>Gloetrichia echinulata</i>		
6/20/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	3.93	Microcystis	<i>Gloetrichia echinulata</i>		
6/20/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Aphanizomenon		
6/20/2017	Pyramid-Vaquero Swim Beach	surface	MC	1.03	Microcystis	<i>Gloetrichia echinulata</i>		
6/19/2017	Castaic Outlet	1m	MC	0.57	Aphanocapsa	Microcystis	<i>Aphanizomenon</i>	
6/19/2017	Castaic Outlet	surface	MC	0.43	Aphanocapsa	Microcystis	<i>Aphanizomenon</i>	
6/26/2017	Check 13	15 ft approx	MC-CYN-STX-ANTX	ND	Dolichospermum			
6/26/2017	SLR Basalt Boat Launch	surface	MC	25.80	Microcystis	Aphanizomenon	Dolichospermum	
								<i>Woronichinia naegeliana</i>

6/26/2017	SLR Pacheco PP	170-230 ft approx		nr	Aphanizomenon	Cyanophyte filaments	
6/26/2017	SLR Gianelli	5-10 ft approx		nr	Dolichospermum		
6/26/2017	Lake Del Valle	1m		nr	Dolichospermum	Aphanizomenon	
6/26/2017	Castaic Outlet	1m	MC	0.73	Microcystis		
6/26/2017	Castaic Outlet	surface	MC	0.74	Microcystis		
6/26/2017	Castaic Lake Boat Launch	surface	MC	0.65	Microcystis		
6/27/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	1.68	Microcystis	Gloetrichia echinulata	
6/27/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	1.87	Microcystis	Aphanizomenon	
6/27/2017	Pyramid-Vaquero Swim Beach	surface	MC	1.17	Microcystis	Gloetrichia echinulata	
6/26/2017	Castaic Lagoon Swim Beach	surface		nr	Dolichospermum		
6/27/2017	Pyramid-Emigrant Landing Swim Beach	surface		nr	Dolichospermum		
6/26/2017	Perris Outlet	1m	MC	ND	none observed		
6/26/2017	Perris Outlet	surface	MC	ND	Dolichospermum		
6/26/2017	Lake Perris Swim Beach	surface	MC	ND	Microcystis		
6/27/2017	Silverwood Outlet	surface		nr	Aphanizomenon		
6/27/2017	Silverwood-Sawpit Swim Beach	surface		nr	Aphanizomenon		
6/26/2017	Clifton Court FB	10-15 ft approx	MC-CYN-STX-ANTX	ND	Cuspidothrix	Aphanizomenon	Planktothrix
6/26/2017	Dyer Res	1m	MC-CYN-STX-ANTX	ND*	Dolichospermum		
6/26/2017	Lake Oroville near Dam	surface	MC-CYN-STX-ANTX	ND	Dolichospermum		
6/28/2017	Antelope Lake near spillway	surface		nr	Dolichospermum		
7/5/2017	O'Neill Forebay North Beach	surface	MC	ND	Microcystis		
7/5/2017	SLR Basalt Boat Launch	surface	MC	30.50	Microcystis	Woronichinia naegeliana	Dolichospermum
7/3/2017	Perris Outlet	surface	MC	ND	Dolichospermum	Woronichinia naegeliana	
7/3/2017	Lake Perris Swim Beach	surface	MC	ND	Dolichospermum	Woronichinia naegeliana	Aphanizomenon
7/5/2017	Silverwood-Sawpit Swim Beach	surface	MC	1.55	Microcystis	Aphanizomenon	
7/5/2017	Castaic Outlet	1m	MC	0.41	Microcystis		
7/5/2017	Castaic Outlet	surface	MC	0.37	Microcystis		
7/5/2017	Castaic Lake Boat Launch	surface	MC	0.29	Microcystis	Dolichospermum	
7/5/2017	Castaic Lagoon Swim Beach	surface	MC	ND	Dolichospermum	Aphanizomenon	
7/6/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	1.58	Gloetrichia echinulata	Microcystis	
7/6/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	2.01	Gloetrichia echinulata	Microcystis	Aphanizomenon
7/6/2017	Pyramid-Vaquero Swim Beach	surface	MC	1.14	Gloetrichia echinulata	Microcystis	
7/10/2017	O'Neill Forebay North Beach	surface	MC-CYN-STX-ANTX	ND	Microcystis	Planktothrix	Aphanizomenon
7/10/2017	Check 13	15 ft approx	MC-CYN-STX-ANTX	ND	Dolichospermum	Phormidium	
7/10/2017	SLR Basalt Boat Launch	surface	MC	32.40	Microcystis		
7/10/2017	SLR Basalt Boat Launch	surface	CYN-STX-ANTX	ND	Microcystis	Woronichinia naegeliana	Dolichospermum
7/10/2017	SLR Gianelli	5-10 ft approx	MC-CYN-STX-ANTX	ND	Dolichospermum	Woronichinia naegeliana	Dolichospermum
7/10/2017	Thermalito Afterbay Swim Beach	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Planktothrix	Nostocalean filament
7/11/2017	Clifton Court FB	10-15 ft approx	MC	ND	Planktothrix	Cuspidothrix	Aphanizomenon
7/11/2017	Clifton Court FB	10-15 ft approx	ANTX-A	ND	Planktothrix	Cuspidothrix	Arthrosira
7/11/2017	Banks	10-15 ft approx	MC	ND	Geitlerinema	Phormidium/Microcoleus	Microcysts
7/11/2017	Banks	10-15 ft approx	ANTX-A	ND	Geitlerinema	Phormidium/Microcoleus	Dolichospermum
7/11/2017	Dyer Res	1m	MC	ND	Microcystis		
7/10/2017	Perris Outlet	1m	MC-CYN-STX-ANTX	ND	Dolichospermum	Woronichinia naegeliana	
7/10/2017	Perris Outlet	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Microcystis	
7/10/2017	Lake Perris Swim Beach	surface	MC-CYN-STX-ANTX	ND	Dolichospermum		Woronichinia naegeliana
7/11/2017	Silverwood Outlet	1m	MC	0.27	Microcystis		
7/11/2017	Silverwood Outlet	surface	MC	0.17	Microcystis		
7/11/2017	Silverwood-Sawpit Swim Beach	surface	MC	6.10	Microcystis	Aphanizomenon	
7/11/2017	Silverwood-Cleghorn	surface	MC	1.02	Microcystis		
7/10/2017	Castaic Outlet	1m	MC	0.16	Microcystis		
7/10/2017	Castaic Outlet	surface	MC	0.66	Microcystis	Dolichospermum	Aphanizomenon
7/10/2017	Castaic Lake Boat Launch	surface	MC	0.31	Microcystis		
7/10/2017	Castaic Lagoon Swim Beach	surface	MC	ND	Dolichospermum		
7/11/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	0.76	Gloetrichia echinulata	Microcystis	
7/11/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.69	Gloetrichia echinulata	Gloetrichia echinulata	Aphanizomenon
7/11/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	0.56	Gloetrichia echinulata	Microcystis	
7/11/2017	Pyramid-Vaquero Swim Beach	surface	MC	1.13	Gloetrichia echinulata	Microcystis	
7/17/2017	Perris Outlet	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Woronichinia naegeliana	Limnraphis
7/17/2017	Lake Perris Swim Beach	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Microcystis	Limnraphis
7/18/2017	Silverwood Outlet	surface	MC	1.50	Microcystis	Aphanizomenon	
7/18/2017	Silverwood-Sawpit Swim Beach	surface	MC	7.03	Microcystis		
7/18/2017	Silverwood-Cleghorn	surface	MC	8.36	Microcystis		
7/17/2017	Castaic Outlet	1m	MC	ND	Microcystis		
7/17/2017	Castaic Outlet	surface	MC	ND	Microcystis		
7/17/2017	Castaic Lake Boat Launch	surface	MC	ND	Microcystis	Dolichospermum	
7/18/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	0.47	Gloetrichia echinulata	Microcystis	
7/18/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.54	Gloetrichia echinulata	Microcystis	Aphanizomenon
7/18/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	1.08	Gloetrichia echinulata	Microcystis	
7/18/2017	Pyramid-Vaquero Swim Beach	surface	MC	1.06	Gloetrichia echinulata	Microcystis	
7/17/2017	Castaic Lagoon Swim Beach	surface		nr	Dolichospermum		
7/17/2017	Thermalito Afterbay Swim Beach	surface		nr	Dolichospermum		

Analytical result is estimated.
Values achieved were outside calibration range.

8/9/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	1.14	Microcysts	Dolichospermum				
8/9/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	2.71	Microcysts	Aphanizomenon klebahni/flos-aquae				
8/9/2017	Pyramid-Vaquero Swim Beach	surface	MC	1.01	Gloetrichia echinulata	Microcysts				
8/9/2017	Pyramid-Angeles Tunnel Inlet	1m	CYN-STX-ANTX	ND	Microcysts	Dolichospermum				
8/14/2017	Thermalito Forebay Swim Beach	surface		nr	Cyanophyte filaments					
8/14/2017	O'Neill Forebay North Beach	surface	MC	ND	Microcysts					
8/14/2017	SLR Basalt Boat Launch	surface	MC	28.1	Microcysts	Aphanizomenon	Woronichinia naegeliana	Dolichospermum		
8/15/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.83	Microcysts					
8/15/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	0.82	Microcysts	Gloetrichia echinulata				
8/15/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	0.58	Microcysts	Gloetrichia echinulata				
8/15/2017	Pyramid-Vaquero Swim Beach	surface	MC	0.91	Microcysts					
8/14/2017	Castaic Outlet	surface		nr	Nostocalean filament(s)					Nostocalean filaments resembled Aphanizomenon
8/14/2017	Castaic Outlet	1m		nr	Nostocalean filament(s)					Nostocalean filaments resembled Aphanizomenon
8/14/2017	Perris Outlet	surface		nr	Nostocalean filament(s)	Aphanizomenon gracile	Dolichospermum			Nostocalean filaments shared morphological characteristics with Sphaerospermopsis aphanizomenoides
8/14/2017	Lake Perris Swim Beach	surface	MC	ND	Nostocalean filament(s)	Aphanizomenon	Dolichospermum	Woronichinia naegeliana		Nostocalean filaments shared morphological characteristics with Sphaerospermopsis aphanizomenoides
8/15/2017	Silverwood-Cleghorn	surface	MC	ND	Microcysts					
8/15/2017	NBA Barker SI PP	10-15 ft approx	MC-CYN-STX-ANTX	ND	Aphanizomenon	Dolichospermum				
8/21/2017	Lake Del Valle	1m	MC-CYN-STX-ANTX	ND	Aphanizomenon	Nostocalean filament(s)				Nostocalean filament resembled Dolichospermum
8/21/2017	Banks	10-15 ft approx	MC-CYN-STX-ANTX	ND	Microcysts	Dolichospermum				
8/21/2017	Dyer Res	1m	MC	ND	Microcysts	Dolichospermum				
8/21/2017	Clifton Court FB	10-15 ft approx		nr	Aphanizomenon	Planktothrix				
8/22/2017	O'Neill Forebay North Beach	surface	MC	ND	Microcysts					
8/22/2017	SLR Basalt Boat Launch	surface	MC	14.4	Microcysts					
8/22/2017	SLR Gianelli	5-10 ft approx	MC-CYN-STX-ANTX	ND	Dolichospermum					
8/21/2017	Castaic Outlet	surface		nr	Nostocalean filament(s)					Nostocalean filaments resembled Aphanizomenon
8/21/2017	Castaic Outlet	1m		nr	Nostocalean filament(s)					Nostocalean filaments resembled Aphanizomenon
8/21/2017	Castaic Lagoon Swim Beach	surface	CYN-STX-ANTX	ND	Aphanizomenon					
8/22/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	1.18	Microcysts					
8/22/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	1.00	Microcysts					
8/22/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	2.30	Microcysts	Aphanizomenon flos-aquae	Gloetrichia echinulata			
8/22/2017	Pyramid-Vaquero Swim Beach	surface	MC	0.52	Microcysts	Gloetrichia echinulata				
8/21/2017	Perris Outlet	1m	MC-CYN-STX-ANTX	ND	Nostocalean filament(s)	Aphanizomenon	Woronichinia naegeliana	Dolichospermum		Nostocalean filaments shared morphological characteristics with Sphaerospermopsis and Aphanizomenon.
8/21/2017	Perris Outlet	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Nostocalean filament(s)	Aphanizomenon	Woronichinia naegeliana		Nostocalean filaments shared morphological characteristics with Sphaerospermopsis and Aphanizomenon.
8/21/2017	Lake Perris Swim Beach	surface		nr	Nostocalean filament(s)	Aphanizomenon	Woronichinia naegeliana			Nostocalean filaments shared morphological characteristics with Sphaerospermopsis aphanizomenoides
8/22/2017	Silverwood Outlet	1m		nr	Planktothrix	Aphanizomenon				
8/22/2017	Silverwood Outlet	surface		nr	Dolichospermum					
8/22/2017	Silverwood-Sawpit Swim Beach	surface	MC	ND	Microcysts					
8/22/2017	Silverwood-Cleghorn	surface	MC	0.50	Microcysts					
8/22/2017	Silverwood Lake Willows Swim Beach	surface	MC	ND	Microcysts					
8/21/2017	Thermalito Forebay Swim Beach	surface		nr	Cyanophyte filament(s)	Aphanizomenon				
8/22/2017	Lake Oroville near Dam	surface	MC-CYN-STX-ANTX	ND	Dolichospermum					
8/28/2017	O'Neill Forebay North Beach	surface	MC	ND	Microcysts					
8/28/2017	SLR Basalt Boat Launch	surface	MC	48.0	Microcysts	Woronichinia naegeliana	Aphanizomenon			
8/28/2017	Castaic Lagoon Swim Beach	surface		nr	Nostocalean filament(s)					
8/29/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	0.73	Microcysts					
8/29/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.80	Microcysts	Dolichospermum				
8/29/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	0.39	Microcysts					
8/29/2017	Pyramid-Vaquero Swim Beach	surface	MC	1.84	Microcysts					
8/28/2017	Perris Outlet	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Woronichinia naegeliana				
8/28/2017	Lake Perris Swim Beach	surface	MC-CYN-STX-ANTX	ND	Dolichospermum	Woronichinia naegeliana				
8/29/2017	Silverwood Outlet	surface	MC	ND	Microcysts					
8/29/2017	Silverwood-Cleghorn	surface	MC	ND	Microcysts					
8/29/2017	Silverwood Lake Willows Swim Beach	surface	MC	ND	Microcysts					
9/5/2017	SLR Basalt Boat Launch	surface	MC	8.49	Microcysts					

9/5/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.69	Microcystis	Dolichospermum	Aphanizomenon	
9/5/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	0.97	Microcystis	Dolichospermum	Aphanizomenon	
9/5/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	1.47	Microcystis	Dolichospermum	Aphanizomenon	
9/5/2017	Pyramid-Vaquero Swim Beach	surface	MC	0.70	Microcystis	Dolichospermum	Dolichospermum	
9/6/2017	Silverwood Outlet	1m	MC	ND	Microcystis	Dolichospermum		
9/6/2017	Silverwood Outlet	surface	MC	ND	Microcystis	Dolichospermum		
9/6/2017	Silverwood-Sawpit Swim Beach	surface	MC	ND	Microcystis	Dolichospermum		
9/6/2017	Silverwood-Cleghorn	surface	MC	ND	Microcystis	Dolichospermum	Aphanizomenon	
9/12/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	2.27	Microcystis	Dolichospermum	Aphanizomenon	
9/12/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	1.24	Microcystis	Dolichospermum	Aphanizomenon	
9/12/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	1.45	Microcystis	Dolichospermum	Aphanizomenon	
9/12/2017	Pyramid-Vaquero Swim Beach	surface	MC	2.13	Microcystis	Dolichospermum		
9/12/2017	SLR Basalt Boat Launch	surface	MC	11.1	Microcystis	Dolichospermum		2 species of Dolichospermum present
9/12/2017	Perris Outlet	1m	CYN	0.15	Dolichospermum	Aphanizomenon	Dolichospermum	2 species of Dolichospermum present
9/12/2017	Perris Outlet	1m	MC-ANTX-STX	ND	Dolichospermum	Aphanizomenon	Dolichospermum	
9/13/2017	Silverwood Outlet	1m	MC	ND	Microcystis			
9/18/2017	Clifton Court FB	10-15 ft approx	MC	ND	Microcystis	Aphanizomenon		Analytical result is estimated.
9/18/2017	Dyer Res	1m	MC	0.15*	Microcystis			Values achieved were outside calibration range.
9/18/2017	SLR Basalt Boat Launch	surface	MC	5.61	Microcystis	Aphanizomenon klebahnii/flos-aquae		
9/18/2017	Perris Outlet	1m	CYN	0.08	Dolichospermum	Nostocalean filament(s)		Nostocalean filament resembled Aphanizomenon/Sphaerosperm opsis sp.
9/19/2017	Silverwood Outlet	1m		nr	Oscillatorialean filament(s)			Oscillatorialean filament resembled Limnothrix sp.
9/19/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	0.16	Microcystis	Dolichospermum		
9/19/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	0.29	Microcystis	Dolichospermum		
9/19/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	0.60	Microcystis			
9/19/2017	Pyramid-Vaquero Swim Beach	surface	MC	ND	none observed			
9/20/2017	NBA Barker SI PP	10-15 ft approx	MC-CYN-STX-ANTX	ND	Cuspidothrix	Pseudanabaena	Nostocalean filament(s)	Nostocalean filament shared morphological characteristics with Sphaerospermopsis and Aphanizomenon
9/25/2017	SLR Basalt Boat Launch	surface	MC	18.1	Microcystis	Aphanizomenon klebahnii/flos-aquae		
9/25/2017	SLR Gianelli	5-10 ft approx		nr	Aphanizomenon			
9/25/2017	Lake Del Valle	1m	MC	ND	Anabaenopsis			
9/25/2017	Clifton Court FB	10-15 ft approx	MC	ND	Microcystis			
9/25/2017	Banks	10-15 ft approx	MC	ND	Microcystis			
9/25/2017	Dyer Res	1m	MC	ND	Microcystis			
9/25/2017	Perris Outlet	1m	CYN	0.12	Dolichospermum			
9/25/2017	Castaic Outlet	1m	MC-CYN-STX-ANTX	ND	Pseudanabaena	Cylindrospermopsis	cf. Chrysosporum	
9/26/2017	Pyramid-Angeles Tunnel Inlet	surface	MC	ND	none observed			
9/26/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	ND	Microcystis	Woronichinia naegeliana		
9/26/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	ND	none observed			
10/2/2017	SLR Pacheco PP	170-230 ft approx	MC	0.31	Microcystis			
10/2/2017	Check 13	15 ft approx		nr	Aphanizomenon			
10/2/2017	SLR Basalt Boat Launch	surface	MC	9.53	Microcystis	Aphanizomenon klebahnii/flos-aquae		
10/2/2017	SLR Gianelli	5-10 ft approx		nr	Aphanizomenon			
10/3/2017	Pyramid-Angeles Tunnel Inlet	1m	MC	ND*	Microcystis			The reported result is estimated because the sample exceeded temperature threshold when received.
10/3/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	ND*	Microcystis			The reported result is estimated because the sample exceeded temperature threshold when received.
10/9/2017	Banks	10-15 ft approx	MC	ND	Microcystis			
10/9/2017	Dyer Res	1m		nr	Phormidium			
10/9/2017	SLR Basalt Boat Launch	surface	MC	3.65	Microcystis	Planktothrix	Aphanizomenon	
10/9/2017	SLR Basalt Boat Launch	surface	ANTX-A	ND	Microcystis	Planktothrix	Aphanizomenon	
10/11/2017	Silverwood Outlet	1m	MC	ND	Microcystis			
10/10/2017	Pyramid-Vaquero Swim Beach	surface	MC	ND	Microcystis			
10/10/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	ND	Microcystis			
10/17/2017	NBA Barker SI PP	10-15 ft approx		nr	Aphanizomenon klebahnii/flos-aquae			
10/17/2017	SLR Basalt Boat Launch	surface	MC	12.5*	Microcystis	Aphanizomenon klebahnii/flos-aquae	Dolichospermum	The reported result is estimated because the sample exceeded temperature threshold when received.
10/17/2017	Pyramid-Emigrant Landing Swim Beach	surface	MC	ND	Microcystis			
10/16/2017	Castaic Outlet	1m		nr	Pseudanabaena			

10/23/2017	Castaic Outlet	1m surface	MC	nr	Pseudanabaena Microcystis	Aphanizomenon	Dolichospermum	
10/23/2017	SLR Basalt Boat Launch	10-15 ft approx	MC	2.24	Microcystis			
10/23/2017	Clifton Court FB		MC	ND	Microcystis			
10/23/2017	Dyer Res	1m	nr		Aphanizomenon			
10/23/2017	Lake Oroville near Dam	surface	MC-CYN-STX-ANTX	ND*	Aphanizomenon klebahnii/flos-aquae	Dolichospermum		The reported result is estimated because the sample exceeded temperature threshold when received.
10/24/2017	Perris Outlet	1m	CYN	0.09	Pseudanabaena	Nostocalean filament(s)		Nostocalean filaments resembled <i>Aphanizomenon/Sphaerosperm opsis</i> sp.
10/24/2017	Perris Outlet	1m	ANTX-A	ND	Pseudanabaena	Nostocalean filament(s)		Nostocalean filaments resembled <i>Aphanizomenon/Sphaerosperm opsis</i> sp.
10/24/2017	Perris Outlet	1m	STX	ND	Pseudanabaena	Nostocalean filament(s)		Nostocalean filaments resembled <i>Aphanizomenon/Sphaerosperm opsis</i> sp.
10/31/2017	Perris Outlet	1m	CYN	0.09	Pseudanabaena	Nostocalean filament(s)	Sphaerospermopsis aphanizomenoides	Nostocalean filaments resembled <i>Aphanizomenon/Sphaerosperm opsis</i> sp.
10/30/2017	SLR Basalt Boat Launch	surface	MC	1.23	Microcystis			
11/6/2017	SLR Basalt Boat Launch	surface	MC	0.28	Microcystis			
11/7/2017	Perris Outlet	1m	CYN	0.13	Pseudanabaena	Aphanizomenon		
11/14/2017	Perris Outlet	1m	CYN	0.06	Pseudanabaena			
11/13/2017	SLR Basalt Boat Launch	surface	MC	0.22	Microcystis			
11/20/2017	SLR Basalt Boat Launch	surface	MC	0.30	Microcystis			
11/27/2017	SLR Basalt Boat Launch	surface	MC	0.21	Microcystis			
11/28/2017	Perris Outlet	1m	CYN	ND	Pseudanabaena			
12/4/2017	SLR Basalt Boat Launch	surface	MC	0.19	Microcystis			
12/12/2017	SLR Basalt Boat Launch	surface	MC	ND*	Microcystis			Analytical result is estimated. Values achieved were outside calibration range.
12/11/2017	Perris Outlet	1m	CYN	0.08	Sphaerospermopsis aphanizomenoides	Aphanizomenon gracile	Pseudanabaena	Nostocalean filament(s) Nostocalean filaments shared morphological characteristics with both Sphaerospermopsis aphanizomenoides and Aphanizomenon gracile.
12/18/2017	SLR Basalt Boat Launch	surface	MC	ND	Microcystis			
12/18/2017	Perris Outlet	1m	CYN	0.07	Pseudanabaena			
1/2/2018	Perris Outlet	1m	CYN	0.07	none observed			
1/16/2018	Perris Outlet	1m	CYN	0.09	none observed			
2/12/2018	Perris Outlet	1m	CYN	ND	none observed			

Abraxis Microcystin Field Test Strip Results

Date	Location	Depth	Result (ppb)	Notes
5/22/2017	Perris Outlet	surface	nd	
5/22/2017	Castaic Outlet	surface	nd	
5/22/2017	Castaic Outlet	1 meter	nd	
5/22/2017	Castaic Lake Boat Launch	surface	nd	
5/22/2017	Castaic Lagoon Swim Beach	surface	nd	
5/22/2017	Thermalito Afterbay Swim Beach	surface	nd	
5/22/2017	Thermalito Forebay Swim Beach	surface	nd	
5/22/2017	Lake Oroville Swim Beach	surface	nd	
5/22/2017	Perris Outlet	surface	nd	
5/22/2017	Perris Outlet	1 meter	nd	
5/22/2017	Lake Perris Swim Beach	surface	nd	
5/23/2017	Silverwood Outlet	surface	nd	
5/23/2017	Silverwood-Cleghorn	surface	nd	
5/23/2017	Silverwood-Sawpit Swim Beach	surface	nd	
5/23/2017	Silverwood Outlet	1 meter	nd	
5/23/2017	O'Neill Forebay North Beach	surface	nd	
5/23/2017	SLR Basalt Boat Launch	surface	~5	
5/24/2017	Pyramid Emigrant WTP		nd	finished water
5/24/2017	Pyramid Vista Del Lago WTP		nd	finished water
5/24/2017	Pyramid-Vaquero Swim Beach	surface	nd	
5/24/2017	Pyramid-Emigrant Landing Swim Beach		nd	
5/24/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
5/24/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd	
5/30/2017	Perris Outlet	surface	nd	
5/30/2017	Lake Perris Swim Beach	surface	nd	
5/30/2017	O'Neill Forebay North Beach	surface	nd	
5/30/2017	SLR Basalt Boat Launch	surface	nd	
5/31/2017	Silverwood Outlet	surface	~2.5	
5/31/2017	Silverwood-Cleghorn	surface	nd	
5/31/2017	Silverwood-Sawpit Swim Beach	surface	nd	
5/31/2017	Pyramid-Vaquero Swim Beach	surface	nd	
5/31/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
5/31/2017	Pyramid-Emigrant Landing Swim Beach		nd	
5/31/2017	Castaic Lagoon Swim Beach	surface	nd	
5/31/2017	Castaic Lake Boat Launch	surface	nd	
5/31/2017	Castaic Outlet	surface	nd	
6/2/2017	Pyramid Vista Del Lago WTP		nd	finished water
6/2/2017	Pyramid Emigrant WTP		nd	finished water
6/5/2017	O'Neill Forebay North Beach	surface	nd	
6/5/2017	SLR Basalt Boat Launch	surface	nd	
6/5/2017	Thermalito Afterbay Swim Beach	surface	nd	
6/5/2017	Thermalito Forebay Swim Beach	surface	nd	
6/6/2017	Perris Outlet	surface	nd	
6/6/2017	Lake Perris Swim Beach	surface	nd	
6/6/2017	Castaic Lagoon Swim Beach	surface	nd	Finished water test strip may have been used
6/6/2017	Castaic Lake Boat Launch	surface	nd	Finished water test strip may have been used
6/6/2017	Castaic Outlet	surface	nd	Finished water test strip may have been used
6/7/2017	Silverwood Outlet	surface	nd	
6/7/2017	Silverwood-Cleghorn	surface	nd	
6/7/2017	Silverwood-Sawpit Swim Beach	surface	nd	
6/7/2017	Pyramid-Vaquero Swim Beach	surface	nd	Finished water test strip may have been used
6/7/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	Finished water test strip may have been used
6/7/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	Finished water test strip may have been used
6/8/2017	Pyramid Emigrant WTP		nd	finished water
6/10/2017	Pyramid Vista Del Lago WTP		nd	finished water
6/12/2017	O'Neill Forebay North Beach	surface	nd	
6/12/2017	SLR Basalt Boat Launch	surface	nd	
6/12/2017	Thermalito Afterbay Swim Beach	surface	nd	
6/12/2017	Thermalito Forebay Swim Beach	surface	nd	
6/13/2017	Perris Outlet	surface	nd	
6/13/2017	Lake Perris Swim Beach	surface	nd	
6/13/2017	Perris Outlet	1 meter	nd	
6/13/2017	Castaic Outlet	surface	nd	
6/13/2017	Castaic Outlet	1 meter	nd	
6/13/2017	Castaic Lake Boat Launch	surface	nd	
6/13/2017	Castaic Lagoon Swim Beach	surface	nd	
6/13/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	

6/13/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd
6/13/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd
6/13/2017	Pyramid-Vaquero Swim Beach	surface	nd
6/14/2017	Lake Perris Swim Beach	surface	nd
6/14/2017	Silverwood Outlet	surface	nd
6/14/2017	Silverwood-Cleghorn	surface	nd
6/14/2017	Silverwood-Sawpit Swim Beach	surface	nd
6/14/2017	Pyramid Vista Del Lago WTP	nd	finished water
6/16/2017	Pyramid Emigrant WTP	nd	finished water
6/18/2017	Perris Outlet	surface	nd
6/18/2017	Lake Perris Swim Beach	surface	nd
6/19/2017	Castaic Outlet	surface	nd
6/19/2017	Castaic Outlet	1 meter	nd
6/19/2017	Castaic Lake Boat Launch	surface	nd
6/19/2017	Castaic Lagoon Swim Beach	surface	nd
6/19/2017	O'Neill Forebay North Beach	surface	nd
6/19/2017	SLR Basalt Boat Launch	surface	~10
6/20/2017	Silverwood Outlet	surface	nd
6/20/2017	Silverwood-Cleghorn	surface	nd
6/20/2017	Silverwood-Sawpit Swim Beach	surface	nd
6/21/2017	San Luis WTP	nd	finished water
6/25/2017	Perris Outlet	surface	nd
6/25/2017	Lake Perris Swim Beach	surface	nd
6/26/2017	Silverwood Outlet	surface	nd
6/26/2017	Silverwood-Cleghorn	surface	nd
6/26/2017	Silverwood-Sawpit Swim Beach	surface	nd
6/26/2017	Castaic Outlet	surface	nd
6/26/2017	Castaic Outlet	1 meter	nd
6/26/2017	Castaic Lake Boat Launch	surface	nd
6/26/2017	Castaic Lagoon Swim Beach	surface	nd
6/26/2017	Pyramid Vista Del Lago WTP	nd	finished water
6/26/2017	O'Neill Forebay North Beach	surface	nd
6/26/2017	SLR Basalt Boat Launch	surface	~10
6/27/2017	San Luis WTP	nd	finished water
6/27/2017	Thermalito Afterbay Swim Beach	surface	nd
6/27/2017	Thermalito Forebay Swim Beach	surface	nd
6/27/2017	Lake Oroville near Dam	surface	nd
6/28/2017	Pyramid Emigrant WTP	nd	finished water
6/28/2017	Pyramid-Angeles Tunnel Inlet	surface	nd
6/28/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd
6/28/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd
6/28/2017	Pyramid-Vaquero Swim Beach	surface	nd
6/28/2017	Antelope Lake near spillway	surface	nd
7/2/2017	Perris Outlet	surface	nd
7/2/2017	Lake Perris Swim Beach	surface	nd
7/3/2017	Thermalito Afterbay Swim Beach	surface	nd
7/3/2017	Thermalito Forebay Swim Beach	surface	nd
7/4/2017	Silverwood Outlet	surface	nd
7/4/2017	Silverwood-Cleghorn	surface	nd
7/4/2017	Silverwood-Sawpit Swim Beach	surface	nd
7/5/2017	Castaic Outlet	surface	nd
7/5/2017	Castaic Outlet	1 meter	nd
7/5/2017	Castaic Lake Boat Launch	surface	nd
7/5/2017	Castaic Lagoon Swim Beach	surface	nd
7/5/2017	O'Neill Forebay North Beach	surface	nd
7/5/2017	SLR Basalt Boat Launch	surface	~10
7/6/2017	Pyramid-Angeles Tunnel Inlet	surface	nd
7/6/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd
7/6/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd
7/6/2017	Pyramid-Vaquero Swim Beach	surface	~10
7/6/2017	Pyramid Vista Del Lago WTP	nd	finished water
7/6/2017	Pyramid Emigrant WTP	nd	finished water
7/6/2017	San Luis WTP	nd	finished water
7/10/2017	Silverwood Outlet	surface	nd
7/10/2017	Silverwood-Cleghorn	surface	~5
7/10/2017	Silverwood-Sawpit Swim Beach	surface	nd
7/10/2017	Perris Outlet	surface	nd
7/10/2017	Lake Perris Swim Beach	surface	nd
7/10/2017	O'Neill Forebay North Beach	surface	nd

7/10/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
7/10/2017	Thermalito Afterbay Swim Beach	surface	nd	
7/10/2017	Thermalito Forebay Swim Beach	surface	nd	
7/11/2017	Pyramid Emigrant WTP		nd	finished water
7/11/2017	Pyramid Vista Del Lago WTP		nd	finished water
7/11/2017	Pyramid-Angeles Tunnel Inlet	surface	<2.5	
7/11/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd	
7/11/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
7/11/2017	Pyramid-Vaquero Swim Beach	surface	nd	
7/11/2017	Castaic Outlet	surface	nd	
7/11/2017	Castaic Outlet	1 meter	<2.5	
7/11/2017	Castaic Lake Boat Launch	surface	nd	
7/11/2017	Castaic Lagoon Swim Beach	surface	nd	
7/11/2017	San Luis WTP		nd	finished water
7/13/2017	SLR Basalt Boat Launch	surface	~15	sample diluted 1:1 with DI water prior to analysis
7/17/2017	Perris Outlet	surface	nd	
7/17/2017	Lake Perris Swim Beach	surface	nd	
7/17/2017	Castaic Outlet	surface	nd	
7/17/2017	Castaic Outlet	1 meter	nd	
7/17/2017	Castaic Lake Boat Launch	surface	<2.5	
7/17/2017	Castaic Lagoon Swim Beach	surface	nd	
7/17/2017	O'Neill Forebay North Beach	surface	nd	
7/17/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
7/17/2017	Thermalito Afterbay Swim Beach	surface	nd	
7/17/2017	Thermalito Forebay Swim Beach	surface	nd	
7/18/2017	Silverwood Outlet	surface	nd	
7/18/2017	Silverwood-Cleghorn	surface	~5*	*Test result is suspect- Issue with test strips falling apart
7/18/2017	Silverwood-Sawpit Swim Beach	surface	nd	
7/18/2017	Pyramid Emigrant WTP		nd	finished water
7/18/2017	Pyramid Vista Del Lago WTP		nd	finished water
7/18/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
7/18/2017	Pyramid-Angeles Tunnel Inlet	1 meter	<2.5	
7/18/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
7/18/2017	Pyramid-Vaquero Swim Beach	surface	nd	
7/19/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
7/19/2017	San Luis WTP		nd	finished water
7/24/2017	Perris Outlet	surface	nd	
7/24/2017	Lake Perris Swim Beach	surface	nd	
7/24/2017	Castaic Outlet	surface	nd	
7/24/2017	Castaic Outlet	1 meter	nd	
7/24/2017	Castaic Lake Boat Launch	surface	nd	
7/24/2017	Castaic Lagoon Swim Beach	surface	nd	
7/24/2017	O'Neill Forebay North Beach	surface	nd	
7/24/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
7/24/2017	Lake Oroville near Dam	surface	nd	
7/24/2017	Thermalito Afterbay Swim Beach	surface	nd	
7/24/2017	Thermalito Forebay Swim Beach	surface	nd	
7/25/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
7/25/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd	
7/25/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
7/25/2017	Pyramid-Vaquero Swim Beach	surface	<2.5	
7/25/2017	San Luis WTP		nd	finished water
7/27/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
7/31/2017	Perris Outlet	surface	nd	
7/31/2017	Lake Perris Swim Beach	surface	nd	
7/31/2017	Castaic Outlet	surface	nd	
7/31/2017	Castaic Outlet	1 meter	nd	
7/31/2017	Castaic Lake Boat Launch	surface	nd	
7/31/2017	Castaic Lagoon Swim Beach	surface	invalid result	Reader read edge of strip instead of test line.
7/31/2017	O'Neill Forebay North Beach	surface	nd	
7/31/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
7/31/2017	Thermalito Afterbay Swim Beach	surface	nd	
7/31/2017	Thermalito Forebay Swim Beach	surface	nd	
8/1/2017	Silverwood Outlet	surface	nd	
8/1/2017	Silverwood-Cleghorn	surface	nd	
8/1/2017	Silverwood-Sawpit Swim Beach	surface	nd	
8/1/2017	Silverwood Lake Willows Swim Beach	surface	nd	
8/1/2017	Pyramid-Angeles Tunnel Inlet	surface	~10	

8/1/2017	Pyramid-Angeles Tunnel Inlet	1 meter	<2.5	
8/1/2017	Pyramid-Vaquero Swim Beach	surface	nd	
8/1/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
8/2/2017	San Luis WTP		nd	finished water
8/3/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
8/7/2017	Thermalito Forebay Swim Beach	surface	nd	
8/7/2017	Thermalito Afterbay Swim Beach	surface	nd	
8/7/2017	Perris Outlet	surface	nd	
8/7/2017	Lake Perris Swim Beach	surface	nd	
8/7/2017	Castaic Outlet	surface	nd	
8/7/2017	Castaic Outlet	1 meter	nd	
8/7/2017	Castaic Lake Boat Launch	surface	nd	
8/7/2017	Castaic Lagoon Swim Beach	surface	nd	
8/7/2017	SLR Basalt Boat Launch	surface	~10	sample diluted 1:1 with DI water prior to analysis
8/7/2017	O'Neill Forebay North Beach	surface	nd	
8/8/2017	San Luis WTP		nd	finished water
8/8/2017	Silverwood Outlet	surface	nd	
8/8/2017	Silverwood-Cleghorn	surface	nd	
8/8/2017	Silverwood-Sawpit Swim Beach	surface	nd	
8/8/2017	Silverwood Lake Willows Swim Beach	surface	nd	
8/9/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
8/9/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd	
8/9/2017	Pyramid-Vaquero Swim Beach	surface	nd	
8/9/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
8/10/2016	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
8/14/2017	Thermalito Afterbay Swim Beach	surface	nd	
8/14/2017	Thermalito Forebay Swim Beach	surface	nd	
8/14/2017	Perris Outlet	surface	nd	
8/14/2017	Lake Perris Swim Beach	surface	nd	
8/15/2017	Silverwood Outlet	surface	nd	
8/15/2017	Silverwood-Cleghorn	surface	nd	
8/15/2017	Silverwood-Sawpit Swim Beach	surface	nd	
8/15/2017	Silverwood Lake Willows Swim Beach	surface	nd	
8/14/2017	Castaic Outlet	surface	nd	
8/14/2017	Castaic Outlet	1 meter	nd	
8/14/2017	Castaic Lake Boat Launch	surface	nd	
8/14/2017	Castaic Lagoon Swim Beach	surface	nd	
8/15/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
8/15/2017	Pyramid-Angeles Tunnel Inlet	1 meter	nd	
8/15/2017	Pyramid-Vaquero Swim Beach	surface	nd	
8/15/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
8/14/2017	SLR Basalt Boat Launch	surface	~15	sample diluted 1:1 with DI water prior to analysis
8/14/2017	O'Neill Forebay North Beach	surface	nd	
8/16/2017	San Luis WTP		nd	finished water
8/16/2017	SLR Basalt Boat Launch	surface	~15	sample diluted 1:1 with DI water prior to analysis
8/22/2017	Silverwood Outlet	surface	nd	
8/22/2017	Silverwood-Cleghorn	surface	nd	
8/22/2017	Silverwood-Sawpit Swim Beach	surface	nd	
8/22/2017	Silverwood Lake Willows Swim Beach	surface	nd	
8/21/2017	Perris Outlet	surface	nd	
8/21/2017	Lake Perris Swim Beach	surface	nd	
8/21/2017	Thermalito Afterbay Swim Beach	surface	nd	
8/21/2017	Thermalito Forebay Swim Beach	surface	nd	
8/23/2017	Lake Oroville near Dam	surface	nd	
8/22/2017	O'Neill Forebay North Beach	surface	nd	
8/22/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
8/25/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
8/25/2017	San Luis WTP		nd	finished water
8/28/2017	Thermalito Afterbay Swim Beach	surface	nd	
8/28/2017	Thermalito Forebay Swim Beach	surface	nd	
8/28/2017	Perris Outlet	surface	nd	
8/28/2017	Lake Perris Swim Beach	surface	nd	
8/28/2017	SLR Basalt Boat Launch	surface	~20	sample diluted 1:1 with DI water prior to analysis
8/28/2017	O'Neill Forebay North Beach	surface	nd	
8/30/2017	San Luis WTP		nd	finished water
8/29/2017	Pyramid Vista Del Lago WTP		nd	finished water
8/29/2017	Pyramid-Angeles Tunnel Inlet	surface	~2.5	
8/29/2017	Pyramid-Angeles Tunnel Inlet	1m	<2.5	
8/29/2017	Pyramid-Vaquero Swim Beach	surface	~2.5	

8/29/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
8/28/2017	Perris Outlet	surface	nd	
8/28/2017	Lake Perris Swim Beach	surface	nd	
8/29/2017	Silverwood Outlet	surface	invalid control	
8/29/2017	Silverwood-Cleghorn	surface	nd	
8/29/2017	Silverwood-Sawpit Swim Beach	surface	nd	
8/29/2017	Silverwood Lake Willows Swim Beach	surface	nd	
8/31/2017	SLR Basalt Boat Launch	surface	~15	sample diluted 1:1 with DI water prior to analysis
9/5/2017	SLR Basalt Boat Launch	surface	~15	sample diluted 1:1 with DI water prior to analysis
9/6/2017	Pyramid-Angeles Tunnel Inlet	surface	~5	
9/6/2017	Pyramid-Angeles Tunnel Inlet	1m	nd	
9/6/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
9/6/2017	Pyramid-Vaquero Swim Beach	surface	nd	
9/6/2017	Castaic Outlet	surface	nd	
9/6/2017	Castaic Outlet	1m	nd	
9/6/2017	Castaic Lake Boat Launch	surface	nd	
9/6/2017	Castaic Lagoon Swim Beach	surface	nd	
9/6/2017	Silverwood Outlet	surface	nd	
9/6/2017	Silverwood-Cleghorn	surface	nd	
9/6/2017	Silverwood-Sawpit Swim Beach	surface	nd	
9/6/2017	Silverwood Lake Willows Swim Beach	surface	nd	
9/7/2017	SLR Basalt Boat Launch	surface	~15	sample diluted 1:1 with DI water prior to analysis
9/7/2017	San Luis WTP		nd	finished water
9/12/2017	SLR Basalt Boat Launch	surface	~10	sample diluted 1:1 with DI water prior to analysis
9/12/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
9/12/2017	Pyramid-Angeles Tunnel Inlet	1m	nd	
9/12/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
9/12/2017	Pyramid-Vaquero Swim Beach	surface	~10	
9/18/2017	SLR Basalt Boat Launch	surface	~10	
9/19/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
9/19/2017	Pyramid-Angeles Tunnel Inlet	1m	~10	
9/19/2017	Pyramid-Emigrant Landing Swim Beach	surface	~10	
9/19/2017	Pyramid-Vaquero Swim Beach	surface	nd	
9/19/2017	Pyramid Vista Del Lago WTP		nd	finished water
9/20/2017	San Luis WTP		nd	finished water
9/25/2017	SLR Basalt Boat Launch	surface	~10	
9/28/2017	San Luis WTP		nd	finished water
10/2/2017	SLR Basalt Boat Launch	surface	~5	
10/3/2017	San Luis WTP		nd	finished water
10/4/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
10/4/2017	Pyramid-Angeles Tunnel Inlet	1m	nd	
10/4/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
10/4/2017	Pyramid-Vaquero Swim Beach	surface	nd	
10/4/2017	Pyramid Vista Del Lago WTP		nd	finished water
10/9/2017	SLR Basalt Boat Launch	surface	nd	
10/11/2017	San Luis WTP		nd	finished water
10/11/2017	Pyramid-Angeles Tunnel Inlet	surface	nd	
10/11/2017	Pyramid-Angeles Tunnel Inlet	1m	nd	
10/11/2017	Pyramid-Emigrant Landing Swim Beach	surface	nd	
10/11/2017	Pyramid-Vaquero Swim Beach	surface	nd	
10/16/2017	SLR Basalt Boat Launch	surface	~7.5	
10/18/2017	San Luis WTP		nd	finished water
10/23/2017	SLR Basalt Boat Launch		nd	
10/26/2017	San Luis WTP		nd	finished water
10/30/2017	SLR Basalt Boat Launch	surface	nd	
11/2/2017	San Luis WTP		nd	finished water
11/6/2017	SLR Basalt Boat Launch	surface	nd	
11/9/2017	San Luis WTP		nd	finished water
11/13/2017	SLR Basalt Boat Launch	surface	nd	
11/15/2017	San Luis WTP		nd	finished water
11/20/2017	SLR Basalt Boat Launch	surface	nd	
11/21/2017	San Luis WTP		nd	finished water
11/27/2017	SLR Basalt Boat Launch	surface	nd	
11/30/2017	San Luis WTP		nd	finished water
12/4/2017	SLR Basalt Boat Launch	surface	nd	
12/6/2017	San Luis WTP		nd	finished water
12/12/2017	SLR Basalt Boat Launch	surface	nd	
12/18/2017	SLR Basalt Boat Launch	surface	nd	

Name	Sample Location	Sample depth	Sample collection method
Clifton Court Forebay Inlet	Water Quality Station	Approx 10-15 ft (depends on Clifton Court Forebay elevation)	raw water tap
Dyer Reservoir Outlet	outlet	1 meter	grab sample
Banks Pumping Plant	Water Quality Station	Approx 10-15 ft (depends on CCF elevation)	raw water tap
Lake Del Valle	Boat ramp near dam	1 meter	grab sample
Barker Slough Pumping Plant	Water Quality Station	Approx 10-15 ft (depends on water depth)	raw water tap
Pacheco Pumping Plant	Water Quality Station	Approx 170-230 feet (depends on elevation of San Luis Res. and if SCVWD is drawing from upper or lower intake.)	raw water tap
O'Neill Forebay Outlet/Check 13	Water Quality Station	Approx 15 ft	raw water tap
Gianelli Pumping Plant	Water Quality Station	Approx 5-10 feet (depends on O'Neill Forebay elevation)	raw water tap
Pyramid Lake	PY001 Angeles Tunnel Inlet WQ Station	1 meter	
Castaic Lake	CA002 Castaic Lake Outlet tower Water Quality Station	1 meter	
Silverwood Lake	SI002 Silverwood Lake at San Bernardino Tunnel	1 meter	
Lake Perris	PE002 Lake Perris Outlet	1 meter	