Water Quality at Selected Grab Sample* Locations

July 2015

						California Aqueduct					
Constituent	**Units**	**Detection Limit**	**Thermalito Afterbay at Outlet, TA001000**	**North Bay Aqueduct Barker Slough Pumping Plant, KG000000**	**Delta-Mendota Canal Upstream McCabe Road, DMC06716**	**Harvey Banks Delta Pumping Plant, KA000331**	**O'Neill Forebay Outlet (Check 13), KA007089**	**Kettleman City (Check 21), KA017226**	**Near Highway 119 (Check 29), KA024454**	**Tehachapi Afterbay (Check 41), KA030341**	**Devil Canyon 2nd Afterbay, KA041323**
Alkalinity	mg/L as $CaCO_3$	1	50	96	104	90	95	93	89	88	87
Antimony	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	0.001	<0.001	0.004	0.002	0.003	0.002	0.002	0.004	0.003	0.005
Beryllium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.1	<0.1	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2
Bromide	mg/L	0.01	<0.01	0.04	0.33	0.50	0.3	0.3	0.3	0.29	0.25
Calcium	mg/L	1	3	14	30	25	27	27	26	26	28
Chloride	mg/L	1	1	22	114	167	108	109	104	103	76
Chromium	mg/L	0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Copper	mg/L	0.001	<0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.001
Hardness	mg/L as $CaCO_3$	1	14	90	154	148	137	141	127	131	110
Iron	mg/L	0.005	0.008	0.026	<0.005	<0.005	0.006	<0.005	<0.005	0.008	<0.005
Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	1	13	19	20	17	18	15	16	10
Manganese	mg/L	0.005	<0.005	0.016	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrite + Nitrate	mg/L as N	0.01	<0.01	0.05	0.46	0.06	0.38	0.52	0.43	0.33	0.44
Organic Carbon, Dissolved	mg/L as C	0.5	NR	6.2	5.5	5.3	5.2	4.7	4.7[a]	4.9	3.2
Organic Carbon, Total	mg/L as C	0.5	NR	6.2	6	5.6	5.4	5	4.5[a]	6.4	3.3
Phosphate-Ortho	mg/L as P	0.01	<0.01	0.24	0.02	0.1	0.07	0.08	NR	0.03	<0.01
Phosphorus-Total	mg/L	0.01	0.01	0.37	0.06	0.14	0.1	0.11	0.1	1.04	0.02
Selenium	mg/L	0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/L	1	1	23	78	102	72	77	71	73	68
Specific Conductance	µS/cm	1	107	286	697	833	652	672	627	631	574
Sulfate	mg/L	1	3	14	59	49	52	64	54	56	70
Total Dissolved Solids	mg/L	1	65	159	385	460	360	373	348	353	317
Turbidity	N.T.U.	1	2	4	2	3	3	1	3	116[b]	1
Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/L = milligrams per liter µS/cm = microSiemens per centimeter N.T.U. = Nephelometric turbidity unit NR = No data recorded at this location.

*NOTE: A grab sample is a single sample chosen to represent conditions in a given matrix (usually natural water) at a specific location, depth, and time.

a The dissolved organic carbon concentration is the average of results for multiple samples collected during the month. This average value exceeded the single analytical result for total organic carbon.

b Analyte Reporting Limit raised to 5 N.T.U. due to high analyte level.