Water Quality at Selected Grab Sample* Locations

September 2014

						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	48	92	80	74	76	87	82	92	86
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	0.003	0.003	0.004	0.005	0.005	0.007	0.005	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	0.1	0.2	0.1	0.2	0.3	0.2	0.3	0.2
Bromide	mg/L	0.01	<0.01	0.03	0.36	0.37	0.36	0.38	0.28	0.34	0.3
Calcium	mg/L	0.1	9	15	20	16	18	23	28	28	27
Chloride	mg/L	1	1	15	117	114	117	120	80	101	84
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	0.001	0.001	0.001	0.001	0.001	0.001
Hardness	mg/L as $CaCO_3$	1	40	84	114	99	59	126	96	122	108
Iron	mg/L	0.005	0.005	0.006	0.005	0.008	0.007	<0.005	<0.005	<0.005	<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	0.1	4	12	15	14	4	17	7	13	10
Manganese	mg/L	0.005	<0.005	0.017	<0.005	0.016	0.005	0.006	<0.005	<0.005	<0.005
Nitrite + Nitrate	mg/L as N	0.01	0.02	0.06	0.17	0.02	0.03	<0.01	0.92	0.43	0.32
Organic Carbon, Dissolved	mg/L as C	0.5	NR	4.9[a]	4	3.6	4.3	4.5	2.7[b]	3.8	3.4
Organic Carbon, Total	mg/L as C	0.5	NR	4.7	4.3	3.8	4.7	4.7	2.5	3.8	3.8
Phosphate-Ortho	mg/L as P	0.01	<0.01	0.15	0.11	0.13	0.15	0.11	NR	0.02	0.01
Phosphorus-Total	mg/L	0.01	0.01	0.19	0.15	0.15	0.17	0.13	0.04	0.04	0.01
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	4	18	69	68	70	87	67	81	68
Specific Conductance	µS/cm	1	101	252	619	566	600	703	731	678	587
Sulfate	mg/L	1	2	12	38	24	31	73	59	84	67
Total Dissolved Solids	mg/L	1	60	163	352	315	335	402	326	385	331
Turbidity	N.T.U.	1	1	9	11	1	2	3	2	<1	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.

[a] Re-analysis confirmed that the dissolved organic carbon concentration was greater than the total organic carbon concentration.

[b] The dissolved organic carbon concentration is the average of multiple values that exceeded the single total organic carbon concentration.

*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.