Water Quality at Selected Grab Sample* Locations

December 2015

Constituent	Units	Detection Limit	Thermalito Afterbay at Outlet, TA001000	North Bay Aqueduct Barker Slough Pumping Plant, KG000000[a]	Delta-Mendota Canal Upstream McCabe Road, DMC06716	California Aqueduct: Harvey Banks Delta Pumping Plant, KA000331	California Aqueduct: O'Neill Forebay Outlet (Check 13), KA007089	California Aqueduct: Kettleman City (Check 21), KA017226	California Aqueduct: Near Highway 119 (Check 29), KA024454	California Aqueduct: Tehachapi Afterbay (Check 41), KA030341	California Aqueduct: Devil Canyon 2nd Afterbay, KA041323
Alkalinity	mg/L as $CaCO_3$	1	50	NR	101	84	94	82	76	84	81
Antimony	mg/L	0.001	<0.001	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	0.001	<0.001	NR	0.002	0.002	0.003	0.002	0.006	0.006	0.006
Beryllium	mg/L	0.001	<0.001	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.1	<0.1	NR	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/L	0.01	<0.01	NR	0.32	0.47	0.39	0.45	0.37	0.33	0.32
Calcium	mg/L	1	10	NR	31	22	27	22	28	29	30
Chloride	mg/L	1	1	NR	109	144	126	141	115	107	95
Chromium	mg/L	0.001	<0.001	NR	0.001	<0.001	<0.001	<0.001	0.002	0.002	0.001
Copper	mg/L	0.001	<0.001	NR	0.001	0.002	0.001	0.001	0.001	0.001	0.003
Hardness	mg/L as $CaCO_3$	1	45	NR	150	125	140	127	116	123	113
Iron	mg/L	0.005	0.01	NR	0.006	0.009	<0.005	<0.005	0.009	0.009	0.007
Lead	mg/L	0.001	<0.001	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	5	NR	18	17	18	18	11	12	10
Manganese	mg/L	0.005	<0.005	NR	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.011
Nitrite + Nitrate	mg/L as N	0.01	0.02	NR	0.65	0.06	0.11	0.26	0.65	0.56	0.56
Organic Carbon, Dissolved	mg/L as C	0.5	NR	NR	3.4[b]	3.4	4.4[b]	3.6	3.45[c]	3.2	3.4[b]
Organic Carbon, Total	mg/L as C	0.5	NR	NR	3.2[b]	3.7	4.2[b]	3.7	3.4[c]	3.4	3.2[b]
Phosphate-Ortho	mg/L as P	0.01	<0.01	NR	0.03	0.02	0.05	0.03	NR	0.03	0.02
Phosphorus-Total	mg/L	0.01	<0.01	NR	0.11	0.06	0.12	0.1	0.09	0.08	0.05
Selenium	mg/L	0.001	<0.001	NR	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/L	1	5	NR	78	89	82	87	85	82	83
Specific Conductance	µS/cm	1	108	NR	688	694	696	703	653	658	645
Sulfate	mg/L	1	3	NR	68	41	49	39	61	68	82
Total Dissolved Solids	mg/L	1	63	NR	381.5	390	385	390	365	372	363
Turbidity	N.T.U.	1	2.2	NR	1.96	2	3	2	4	3	2
Zinc	mg/L	0.005	<0.005	NR	<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] Barker Slough Pumping Plant was not accessible for sampling this month

[b] DOC > TOC, confirmed on re-analysis.

[c] 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.