SWP Water Quality Summary

February 18, 2003

Automated Station Data

Automated sampling stations provide real time data by continuously measuring water quality conditions in the Aqueduct.

Water Quality Parameter 1/14/03 to 02/18/03		NBA at Barker Slough PP KG000000	Harvey O. Banks Pumping Plant KA000331	Check 13 at O'Neill Forebay Outlet KA007089	Check 29 Near Highway 119 KA024454	MWD Pipeline at Castaic Lake CA000000	Devil Canyon Power Plant KA041288
Turbidity (NTU)	average	47	15	7	4	1	2
	maximum	80	24	9	6	1.2	2
	minimum	37	5	3	2	1	1
Conductivity	average	367	289	423	NA	543	552
(microSiemens/cm)	maximum	484	394	475	NA	547	573
	minimum	190	230	340	NA	540	529
Calculated TDS (mg/l)	average	216	163	242	NA	324	316
	maximum	282	223	371	NA	327	328
	minimum	115	130	196	NA	323	303

Grab Sample Data of Special Interest

Laboratory analyses of water quality constituents, including inorganic compounds, are conducted from monthly water quality samples collected throughout the SWP.

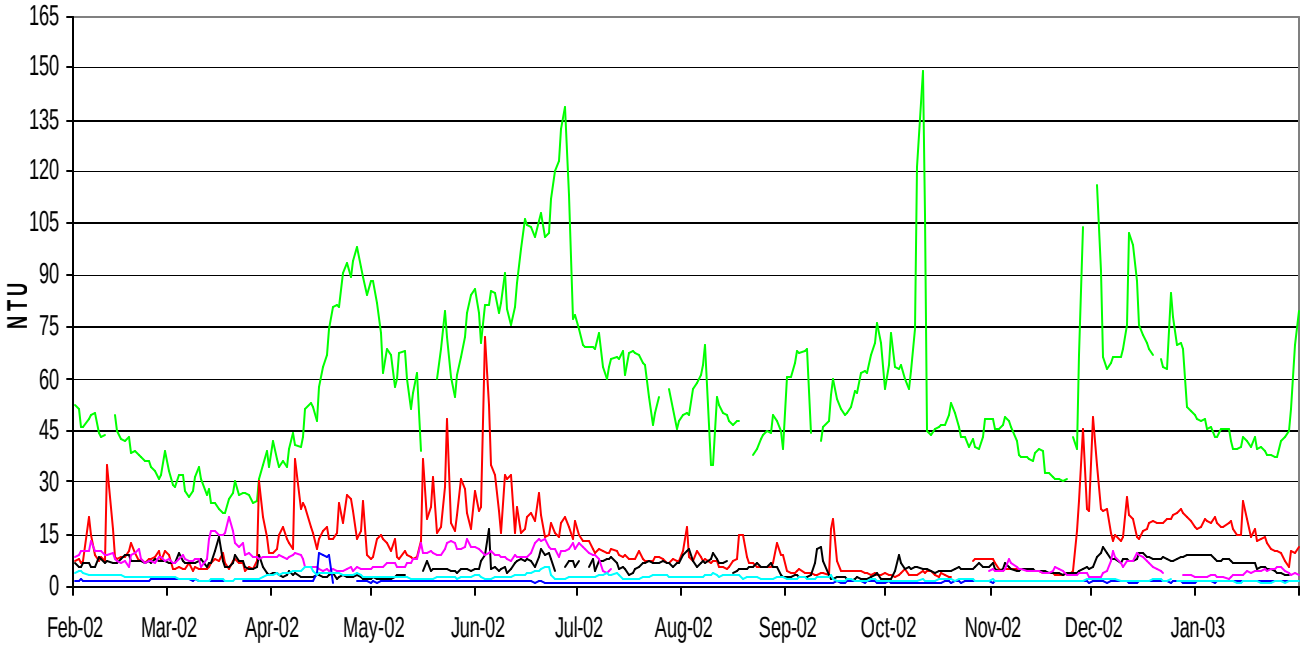
Water Quality Parameter January 2003 [1]	units	objectives	Barker Slough Pumping Plant	Harvey O. Banks Pumping Plant	Check 13 at O'Neill Forebay Outlet	Check 29 Near Highway 119	Devil Canyon Power Plant
Bromide	mg/l	0.05 [3]	0.02	0.11	0.18	0.23	0.35
Hardness	mg/l	180/110 [5]	58	84	108	111	113
Total Alkalinity	mg/l as $caco_3$	none	70	67	80	91	81
Total Organic Carbon [2]	mg/l	3.0 [3]	12.8	4.7	5.0	1.9	2.4
Total Dissolved Solids	mg/l	440/220 [5] /150 [4]	128	185	300	306	349

[1] latest analyses available n/a = not available [2] Total Organic Carbon analyzed by wet oxidation method

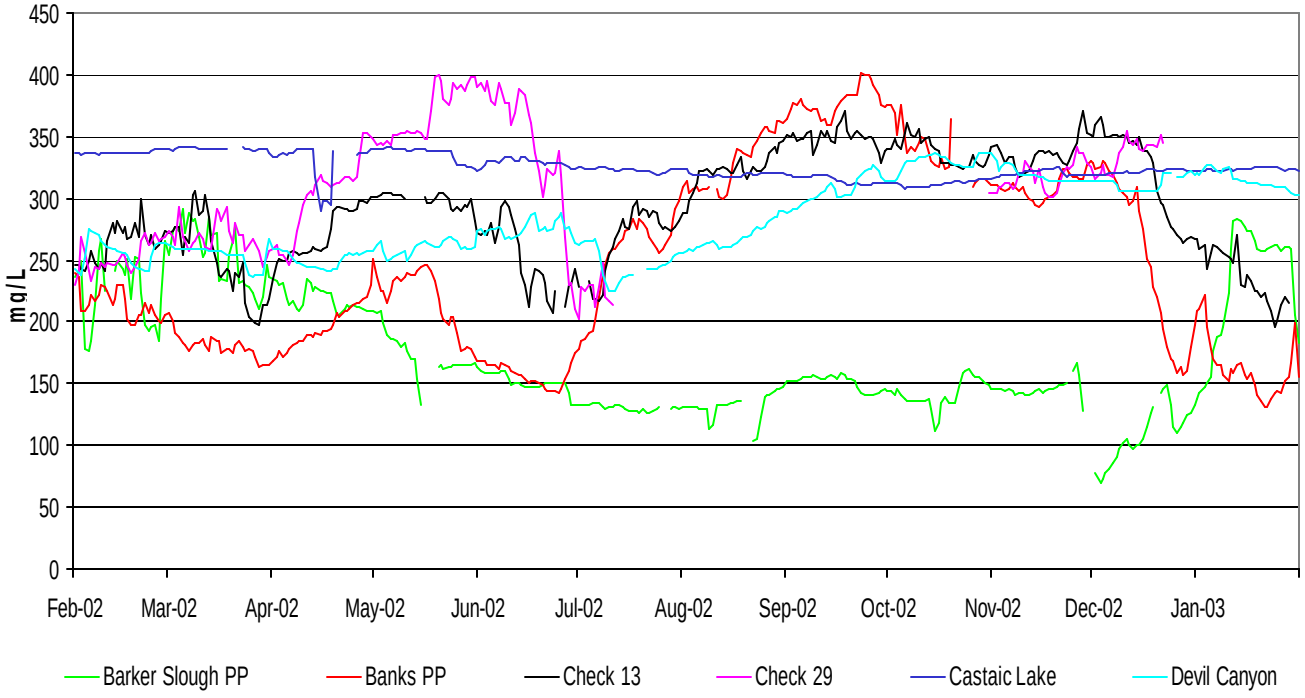
[3] CALFED/CUWA [4] CUWA Proposed [5] Article 19 (monthly/ten year averages)

For more information refer to: http://wwwomwq.water.ca.gov and http://wwwdpla.ca.gov/supply/sampling/mwq/main.htm

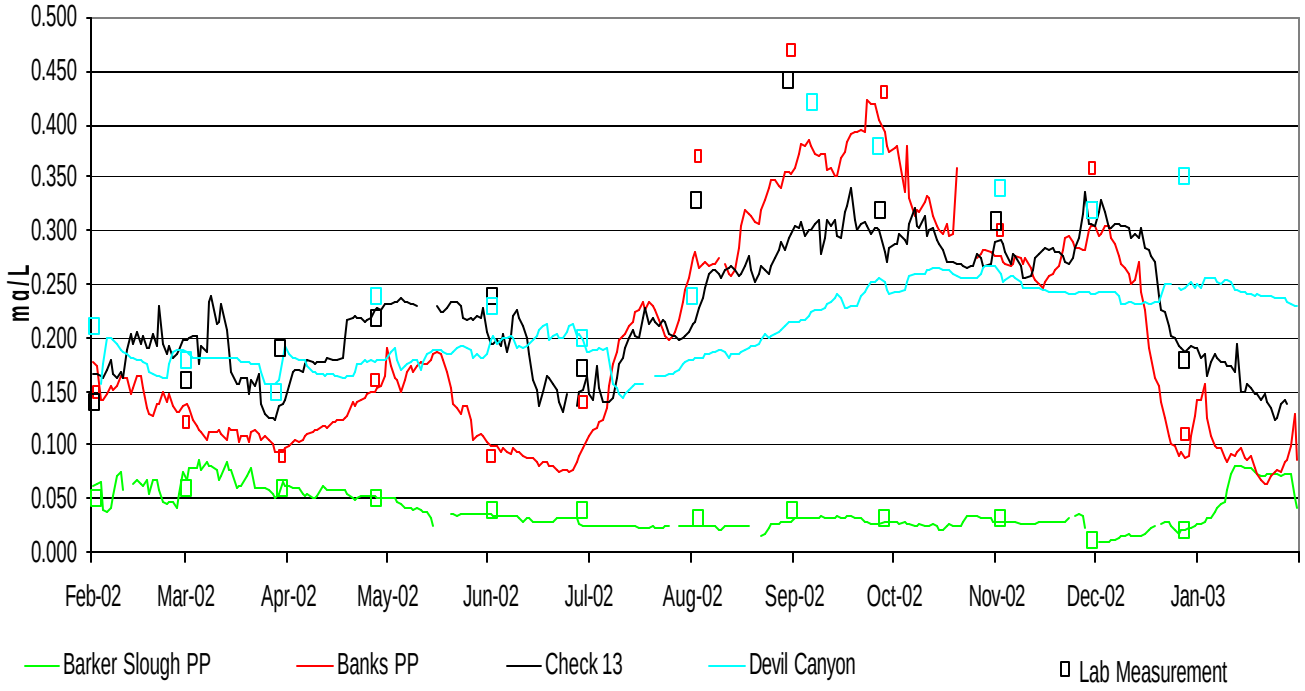
Turbidity



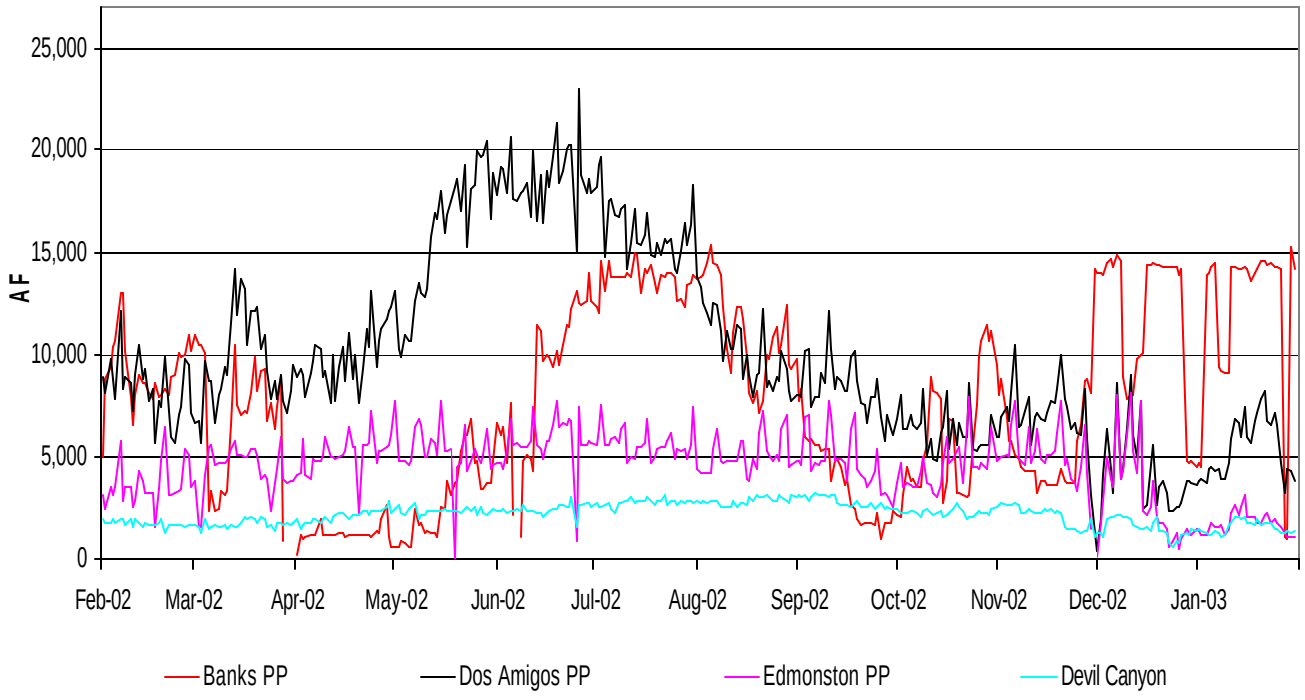
TDS (calculated)

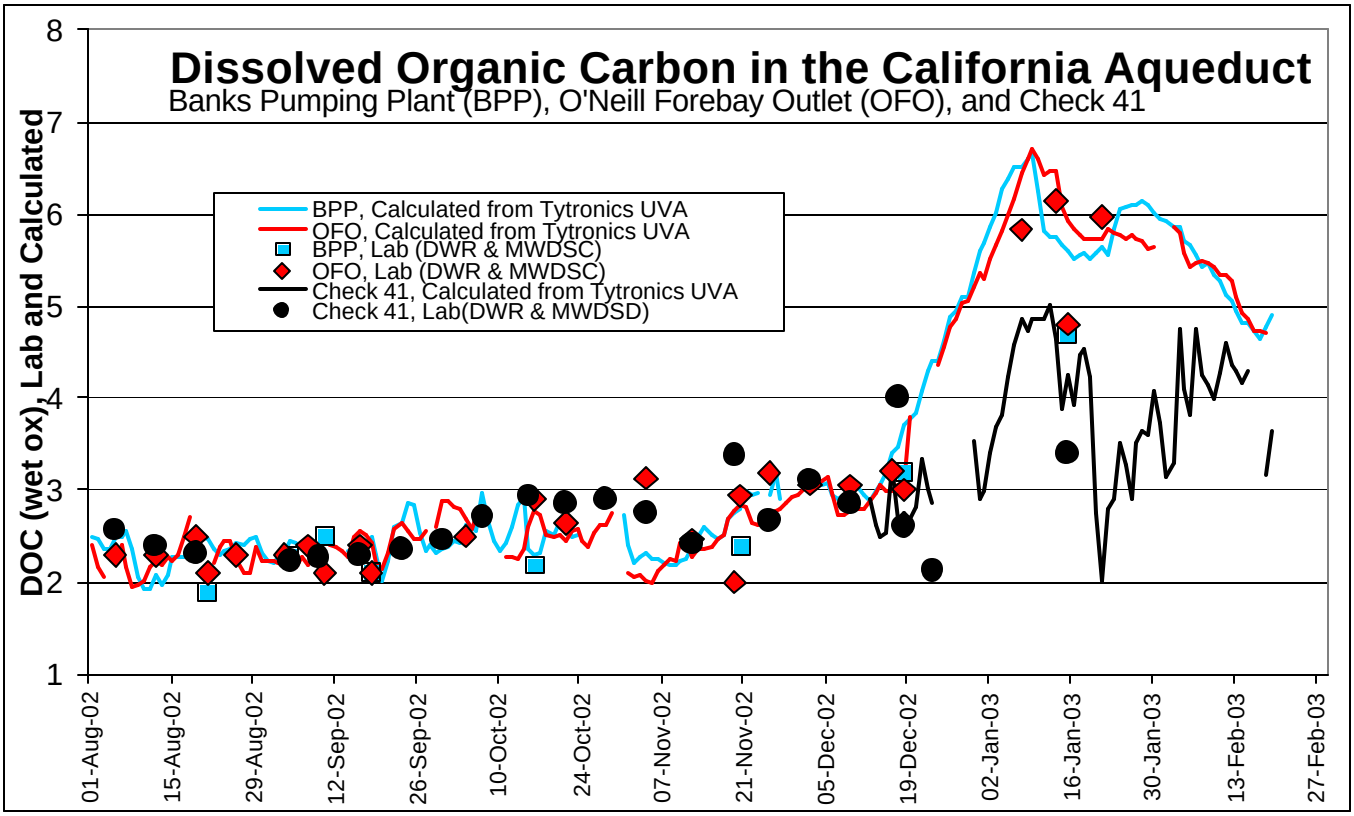


Bromide (calculated)



Daily Quantity



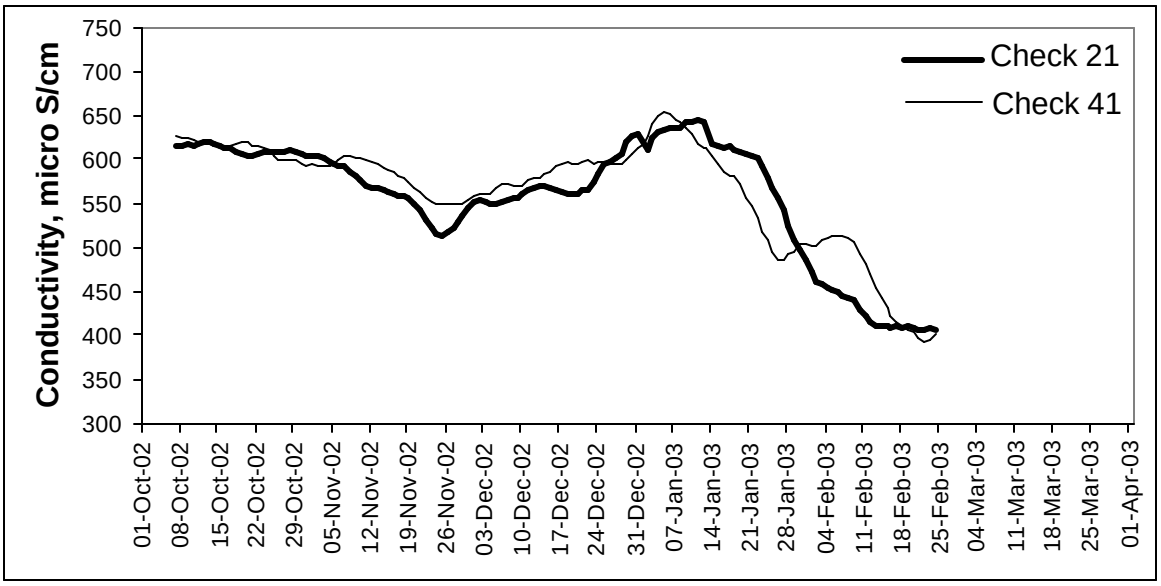

Dissolved Organic Carbon in the California Aqueduct
Banks Pumping Plant (BPP), O'Neill Forebay Outlet (OFO), and Check 41
DOC (wet ox), Lab and Calculated
BPP, Calculated from Tytronics UVA
OFO, Calculated from Tytronics UVA
BPP, Lab (DWR & MWDSC)
OFO, Lab (DWR & MWDSC)
Check 41, Calculated from Tytronics UVA
Check 41, Lab(DWR & MWDSD)
8
7
6
5
4
3
2
1
01-Aug-02
15-Aug-02
29-Aug-02
12-Sep-02
26-Sep-02
10-Oct-02
24-Oct-02
07-Nov-02
21-Nov-02
05-Dec-02
19-Dec-02
02-Jan-03
16-Jan-03
30-Jan-03
13-Feb-03
27-Feb-03

California Aqueduct Non-Project Pump-in Summary

February 2003

California Aqueduct Water Quality, Pump-in Water Quality, and Monthly Volumes (January)

mg/L	Check 21	CVC	KWB	Check 29	% of Check 29 Flow a/	Arvin Edison	Check 41	% of Check 41 Flow a/	Total Pump-in
Volume (af)	63,578	1,238	10,718	53,182	22.5	5,795	57,494	10.1	17,751
Arsenic	0.002	0.003	0.002	0.002		0.002	0.002		
Bromide	0.34	0.17	0.20	0.23		0.10	0.32		
Chromium VI	<0.0002	0.002	0.001	0.001		0.002	NA		
DOC (wet ox)	4.3	0.5	0.6 b/	1.8		1.5 b/	3.4		
EC (?S/cm)	623	437	430	508		389	561		
Nitrate	7.2	9.1	11.9	8.8		6.3	6.6		
Sulfate	59	54	47	46		26	49		
TDS	374	263	280	305		235	350		

a/ Pump-ins/(Check 29 or Check 41 Flow)100
b/ TOC

Seven Day Moving Average Conductivity in the California Aqueduct at Checks 21and 41