SWP Water Quality Summary

September 18, 2001

Automated Station Data

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

Water Quality Parameter 8/6/01 to 9/18/01		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	76	12	6	9	0.6	3
	maximum	95	36	20	16	0.8	4
	minimum	60	6	2	5	0.5	2
Conductivity	average	242	+	570	516	511	445
(microSiemens/cm)	maximum	255	+	677	629	522	540
	minimum	228	+	464	422	497	382
Calculated TDS (mg/l)	average	145	+	325	298	306	257
	maximum	153	+	385	364	312	309
	minimum	137	+	265	244	297	223

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 August 2001 [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]	0.03	0.44	0.27	0.25	0.19
Hardness	mg/l	180/110 [5]	74	94	98	94	98
Total Alkalinity	mg/l as $caco_3$	none	81	70	76	74	82
Total Organic Carbon	mg/l	3.0 [3]	4.7	2.9	2.8 [2]	2.5 [2]	2.6 [2]
Total Dissolved Solids	mg/l	440/220 [5] /150 [4]	125	274	272	245	251

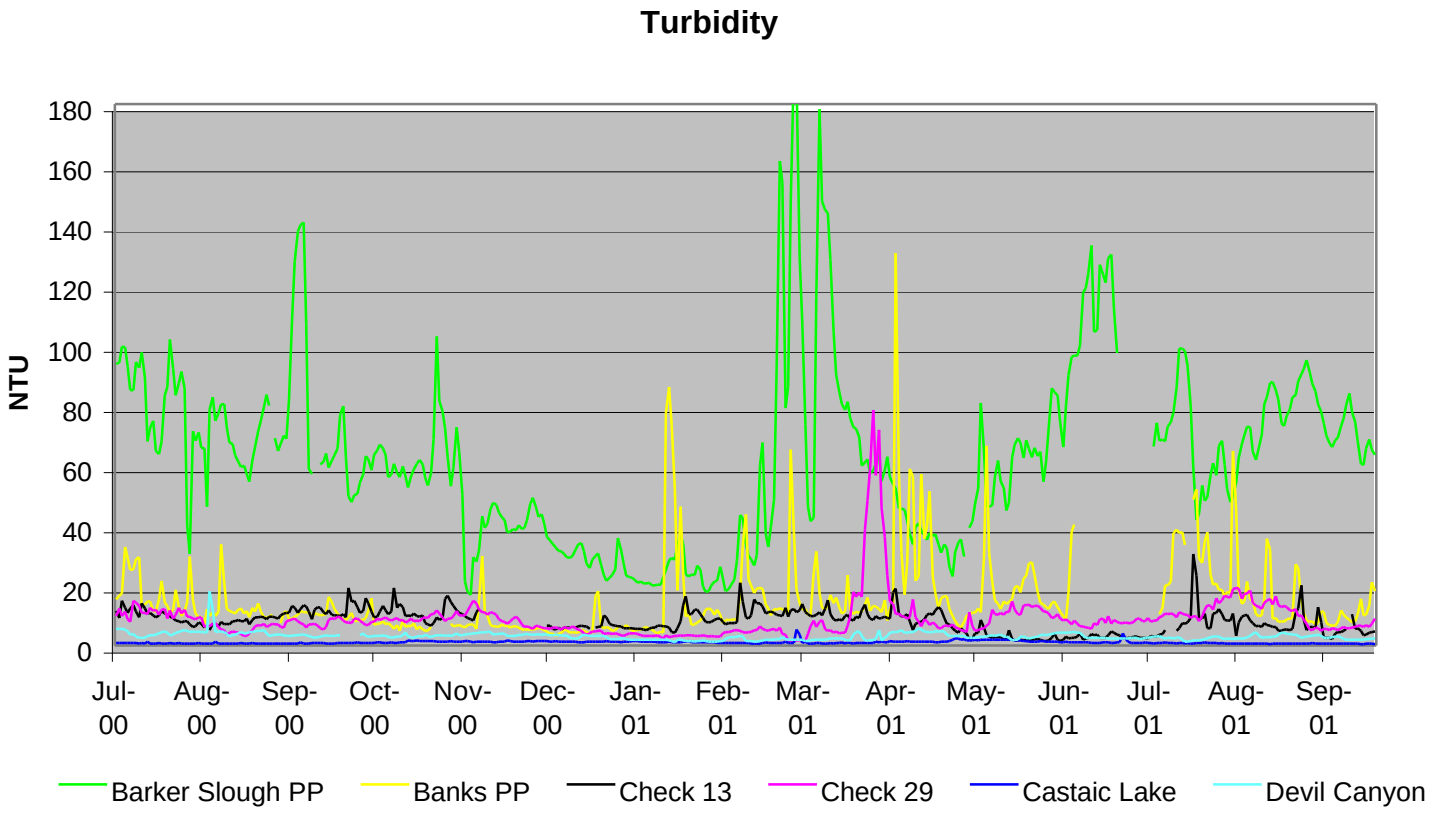
[1] latest analyses available n/a = not available [2] Total Organic Carbon analyzed by wet oxidation method

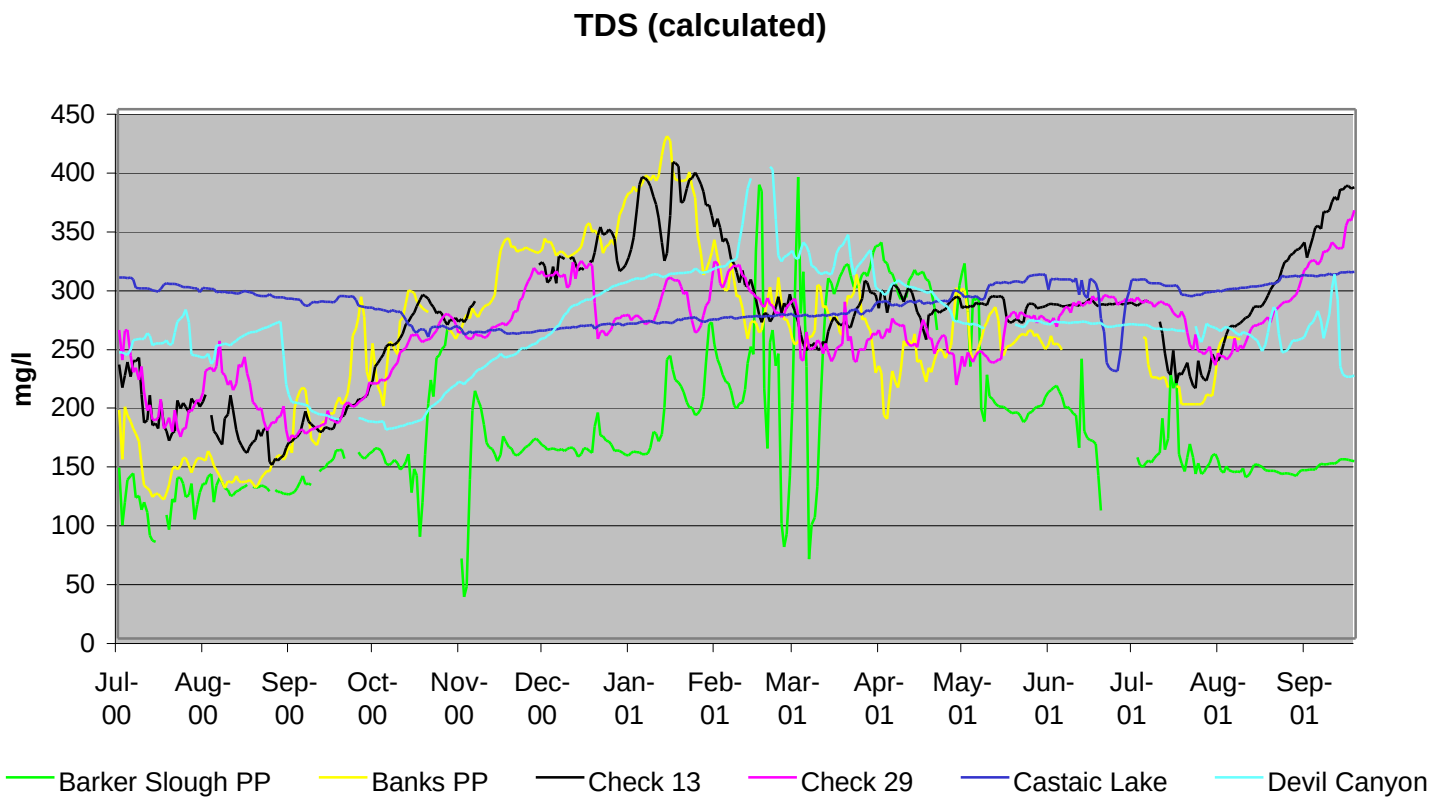
[3] CALFED/CUWA [4] CUWA Proposed [5] Article 19 (monthly/ten year averages)

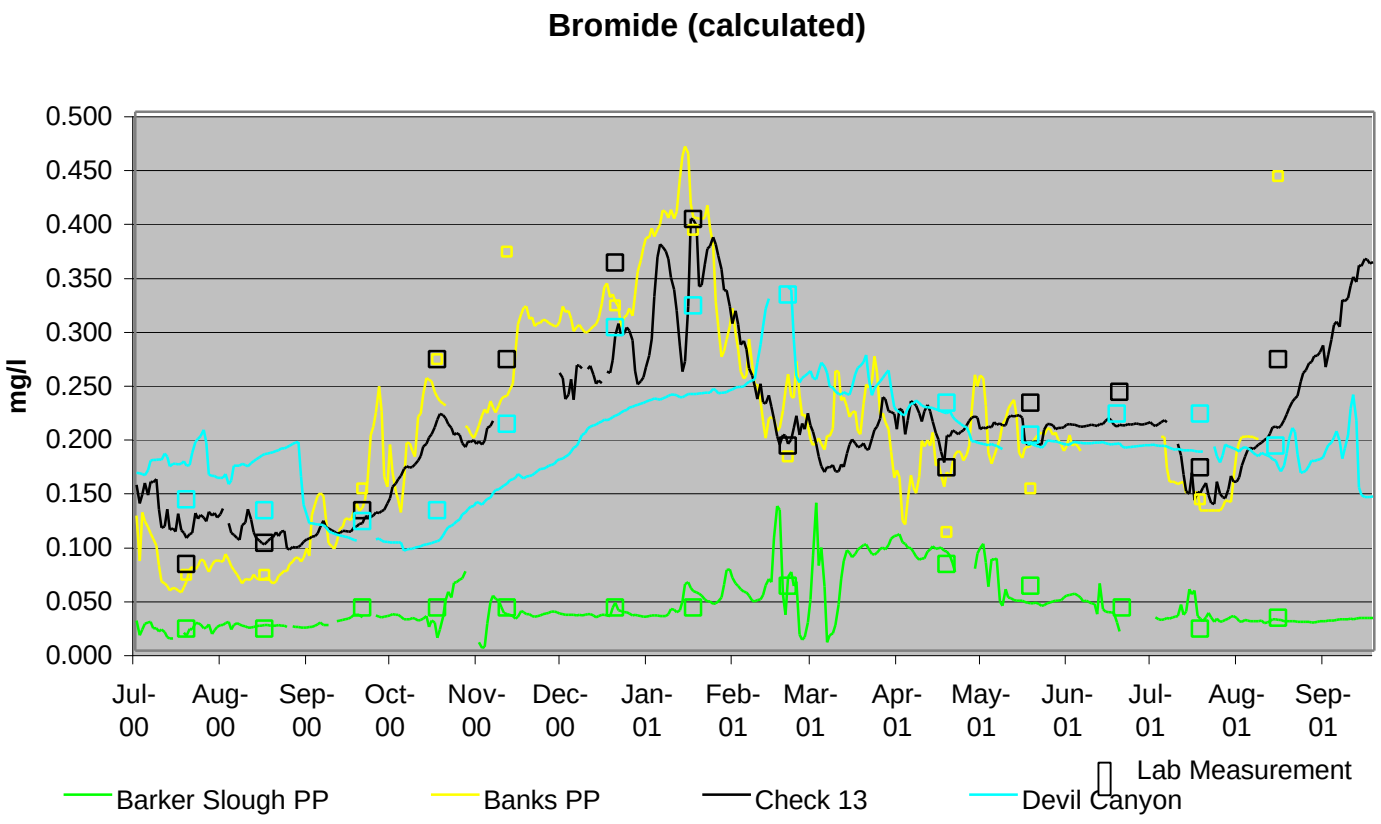
Water Quality Highlights

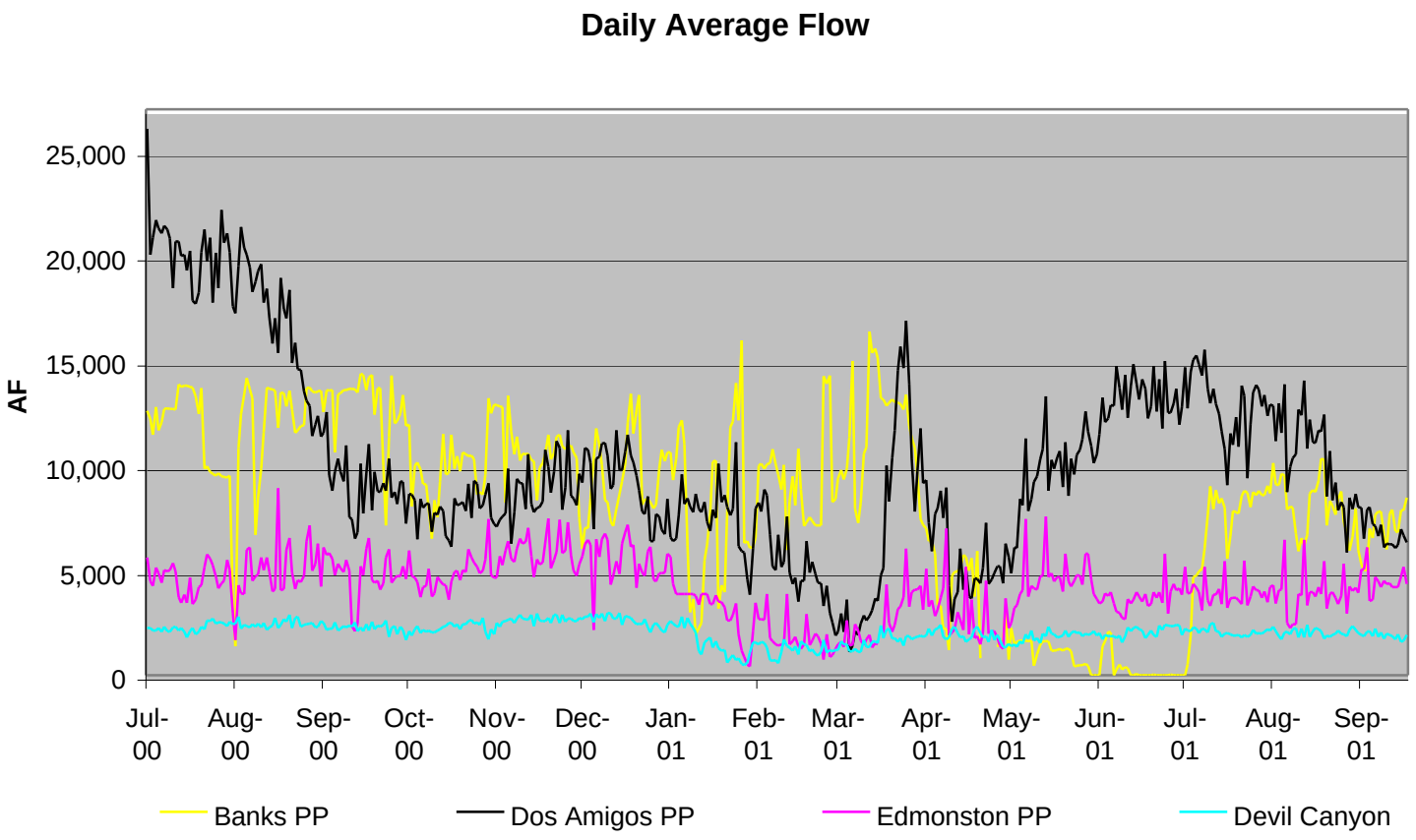
?? Kern water bank, Wheeler Ridge, and AVEK are pumping groundwater into the California Aqueduct.
\+ Bank EC meter has been inoperable since 8/8/01

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


Turbidity
NTU
180
160
140
120
100
80
60
40
20
0
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Barker Slough PP
Banks PP
Check 13
Check 29
Castaic Lake
Devil Canyon


TDS (calculated)
mg/l
450
400
350
300
250
200
150
100
50
0
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Barker Slough PP
Banks PP
Check 13
Check 29
Castaic Lake
Devil Canyon


Bromide (calculated)
mg/l
0.500
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Lab Measurement
Barker Slough PP
Banks PP
Check 13
Devil Canyon

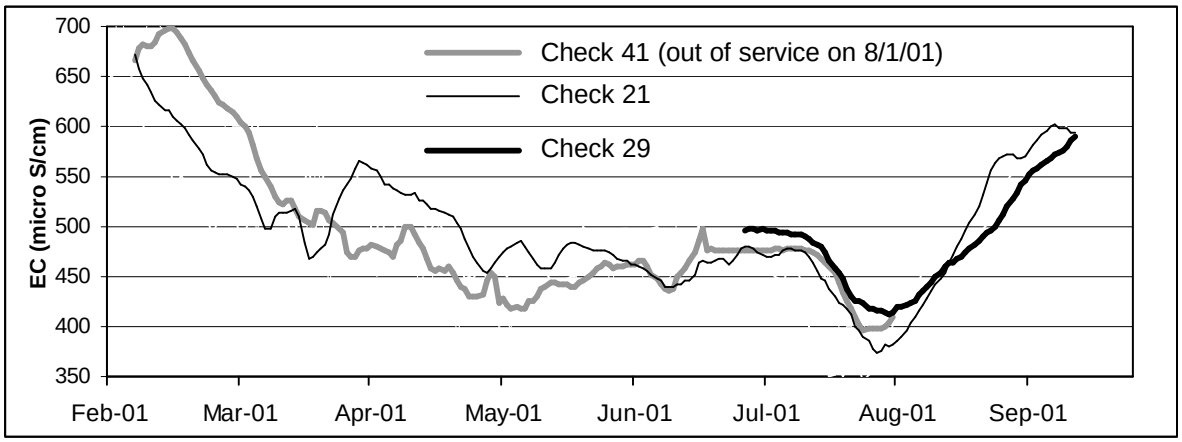

Daily Average Flow
AF
25,000
20,000
15,000
10,000
5,000
0
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Banks PP
Dos Amigos PP
Edmonston PP
Devil Canyon

California Aqueduct Non-Project Pump-in Summary

September 2001

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

mg/L	Check 21	KWB	Check 29	WRMWSD	Check 41	AVEK a/
Volume (af)	208,526	20,827	139,048	90	121,116	23
Arsenic	0.003	0.005	0.003	0.001	0.004	0.004 b/
Bromide	0.25	0.2	0.25	0.1	0.23	0.078
Chromium VI	<0.0002	0.0016	<0.0002	<0.0002	0.0012 c/	0.001
EC (?S/cm)	475	374	463	1390	456	750
Nitrate	1.4	7.1	1.9	1.3	1.9	2.3
Sulfate	29	39	30	585	31	166
TDS	257	210	245	1030	246	364 b/
DOC (wet ox)	2.5	1.6	2.1	0.2	2.5	0.4 d/

a/ Data for well at milepost 366 unless noted.
b/ Average of wells at mileposts 313 and 366.
c/ Contract Lab in Southern California. Reporting limit = 0.0010 mg/L.
d/ TOC

Seven Day Moving Average Conductivity in the California Aqueduct at Checks 21, 29, and 41