Long-term and Water Year Type Average Salinity at the Sacramento River at Emmaton under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	2,129	1,673	1,199	739	497	302	313	476	768	1,197	1,709	2,218
CEQA Modified Flow Alternative	2,114	1,672	1,207	758	502	302	314	504	820	1,193	1,667	2,191
Difference	-14.4	-1.2	7.9	18.7	5.3	-0.3	1.3	27.8	51.8	-3.8	-42.0	-27.2
Percent Difference[3]	-0.7	-0.1	0.7	2.5	1.1	-0.1	0.4	5.8	6.7	-0.3	-2.5	-1.2
Water Year Types[1]												
Wet												
CEQA No Project Alternative	908	680	461	331	169	164	164	173	230	297	747	987
CEQA Modified Flow Alternative	908	681	461	353	170	164	164	173	230	291	717	977
Difference	0.4	0.4	0.0	22.2	1.1	0.0	0.0	0.0	0.2	-6.1	-30.3	-10.7
Percent Difference	0.0	0.1	0.0	6.7	0.6	0.0	0.0	0.0	0.1	-2.1	-4.1	-1.1
Above Normal												
CEQA No Project Alternative	3,183	2,131	999	183	170	164	167	172	235	381	1,035	1,724
CEQA Modified Flow Alternative	3,117	2,114	1,033	183	170	164	167	172	236	355	912	1,627
Difference	-66.0	-16.8	34.5	0.5	-0.1	0.0	0.0	0.0	0.2	-26.1	-123.1	-96.4
Percent Difference	-2.1	-0.8	3.4	0.3	0.0	0.0	0.0	0.0	0.1	-6.9	-11.9	-5.6
Below Normal												
CEQA No Project Alternative	2,483	2,223	1,884	390	180	167	179	178	228	521	1,292	2,732
CEQA Modified Flow Alternative	2,439	2,213	1,880	391	180	167	179	178	228	490	1,150	2,512
Difference	-44.0	-10.3	-3.8	1.1	0.1	0.5	0.6	0.1	0.1	-31.2	-141.5	-219.9
Percent Difference	-1.8	-0.5	-0.2	0.3	0.1	0.3	0.3	0.0	0.0	-6.0	-11.0	-8.1
Dry												
CEQA No Project Alternative	2,676	1,952	1,303	736	548	218	207	302	726	1,219	1,811	2,456
CEQA Modified Flow Alternative	2,662	1,950	1,303	750	555	214	206	329	769	1,181	1,751	2,441
Difference	-14.3	-1.4	0.6	13.8	6.8	-3.3	-0.8	27.4	43.7	-37.9	-60.8	-15.2
Percent Difference	-0.5	-0.1	0.0	1.9	1.2	-1.5	-0.4	9.1	6.0	-3.1	-3.4	-0.6
Critical												
CEQA No Project Alternative	2,419	2,149	1,797	1,443	977	590	632	1,100	1,660	2,540	2,942	3,355
CEQA Modified Flow Alternative	2,417	2,155	1,811	1,472	989	592	637	1,172	1,801	2,581	2,956	3,368
Difference	-2.7	5.3	13.6	29.8	11.6	1.6	5.0	72.6	140.9	40.4	13.8	13.2
Percent Difference	-0.1	0.2	0.8	2.1	1.2	0.3	0.8	6.6	8.5	1.6	0.5	0.4

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Sacramento River at Emmaton Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	314.1	314.0	-0.1	0.0
1976	C	441.3	436.7	-4.5	-1.0
1977	C	3230.2	3243.6	13.5	0.4
1978	AN	3688.4	3693.5	5.1	0.1
1979	BN	2482.9	2438.9	-44.0	-1.8
1980	AN	2676.8	2539.7	-137.1	-5.1
1981	D	2361.1	2356.5	-4.5	-0.2
1982	W	1982.0	1980.7	-1.3	-0.1
1983	W	216.5	216.3	-0.2	-0.1
1984	W	167.0	167.0	0.0	0.0
1985	D	2462.2	2454.4	-7.8	-0.3
1986	W	1859.0	1862.9	3.9	0.2
1987	D	2148.5	2082.3	-66.2	-3.1
1988	C	2591.2	2586.0	-5.2	-0.2
1989	D	3732.0	3753.2	21.2	0.6
1990	C	1962.6	1963.6	1.0	0.1
1991	C	3871.2	3853.1	-18.1	-0.5
	Mean:	2128.6	2114.3	-14.4	-0.6
	Median:	2361.1	2356.5	-1.3	-0.1
	Min:	167.0	167.0	-137.1	-5.1
	Max:	3871.2	3853.1	21.2	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Sacramento River at Emmaton Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	1079.3	1079.0	-0.3	0.0
1976	C	808.4	841.1	32.8	4.1
1977	C	2813.1	2814.9	1.9	0.1
1978	AN	2881.2	2873.8	-7.3	-0.3
1979	BN	2223.2	2212.8	-10.4	-0.5
1980	AN	1380.3	1354.0	-26.3	-1.9
1981	D	2531.5	2530.1	-1.4	-0.1
1982	W	240.5	240.7	0.2	0.1
1983	W	158.6	158.8	0.2	0.1
1984	W	153.9	153.9	0.0	0.0
1985	D	330.9	342.9	12.1	3.7
1986	W	1769.2	1771.0	1.8	0.1
1987	D	2427.1	2405.3	-21.9	-0.9
1988	C	2283.1	2280.2	-2.9	-0.1
1989	D	2516.9	2522.5	5.6	0.2
1990	C	1801.2	1800.1	-1.1	-0.1
1991	C	3040.3	3036.5	-3.9	-0.1
	Mean:	1672.9	1671.6	-1.2	0.3
	Median:	1801.2	1800.1	-0.3	0.0
	Min:	153.9	153.9	-26.3	-1.9
	Max:	3040.3	3036.5	32.8	4.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Sacramento River at Emmaton Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	904.7	902.6	-2.0	-0.2
1976	C	1015.1	1072.6	57.5	5.7
1977	C	2596.0	2596.5	0.4	0.0
1978	AN	1436.1	1444.1	7.9	0.6
1979	BN	1883.7	1879.9	-3.8	-0.2
1980	AN	561.5	622.4	61.0	10.9
1981	D	1320.1	1316.7	-3.4	-0.3
1982	W	159.8	159.7	-0.1	-0.1
1983	W	155.2	155.2	0.0	0.0
1984	W	164.5	164.5	0.0	0.0
1985	D	190.6	194.6	4.0	2.1
1986	W	922.6	924.5	1.9	0.2
1987	D	1843.4	1840.6	-2.8	-0.2
1988	C	1129.9	1126.4	-3.5	-0.3
1989	D	1856.1	1860.6	4.5	0.2
1990	C	1813.2	1830.8	17.6	1.0
1991	C	2432.1	2427.8	-4.2	-0.2
	Mean:	1199.1	1207.0	7.9	1.1
	Median:	1129.9	1126.4	0.0	0.0
	Min:	155.2	155.2	-4.2	-0.3
	Max:	2596.0	2596.5	61.0	10.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Sacramento River at Emmaton Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	819.7	940.0	120.3	14.7
1976	C	1155.6	1255.0	99.4	8.6
1977	C	2359.5	2359.6	0.1	0.0
1978	AN	195.8	195.8	-0.1	-0.1
1979	BN	390.2	391.3	1.1	0.3
1980	AN	169.3	170.4	1.1	0.6
1981	D	398.1	427.5	29.4	7.4
1982	W	168.6	168.7	0.0	0.0
1983	W	166.2	166.2	0.0	0.0
1984	W	158.7	158.7	0.0	0.0
1985	D	401.4	425.5	24.1	6.0
1986	W	342.1	332.7	-9.4	-2.7
1987	D	1095.9	1094.7	-1.2	-0.1
1988	C	289.2	288.6	-0.6	-0.2
1989	D	1048.1	1051.1	3.0	0.3
1990	C	827.8	881.8	54.0	6.5
1991	C	2581.0	2577.4	-3.7	-0.1
	Mean:	739.2	757.9	18.7	2.4
	Median:	398.1	425.5	0.1	0.0
	Min:	158.7	158.7	-9.4	-2.7
	Max:	2581.0	2577.4	120.3	14.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Sacramento River at Emmaton Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	182.5	187.7	5.2	2.8
1976	C	877.4	916.0	38.6	4.4
1977	C	1551.2	1551.2	0.0	0.0
1978	AN	169.2	169.1	-0.1	-0.1
1979	BN	180.4	180.5	0.1	0.1
1980	AN	170.5	170.5	0.0	0.0
1981	D	199.5	205.1	5.6	2.8
1982	W	159.3	159.3	0.0	0.0
1983	W	169.2	169.3	0.1	0.1
1984	W	158.7	158.6	0.0	0.0
1985	D	487.5	501.7	14.2	2.9
1986	W	173.0	173.0	0.0	0.0
1987	D	436.7	436.4	-0.4	-0.1
1988	C	235.9	235.9	-0.1	0.0
1989	D	1068.5	1076.3	7.8	0.7
1990	C	387.7	407.6	20.0	5.2
1991	C	1833.4	1832.7	-0.7	0.0
	Mean:	496.5	501.8	5.3	1.1
	Median:	199.5	205.1	0.0	0.0
	Min:	158.7	158.6	-0.7	-0.1
	Max:	1833.4	1832.7	38.6	5.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Sacramento River at Emmaton Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	160.3	160.2	0.0	0.0
1976	C	410.0	413.9	3.9	1.0
1977	C	1254.6	1254.7	0.1	0.0
1978	AN	167.6	167.6	0.0	0.0
1979	BN	166.7	167.2	0.5	0.3
1980	AN	160.2	160.2	0.0	0.0
1981	D	162.4	163.0	0.6	0.4
1982	W	165.5	165.5	0.0	0.0
1983	W	171.5	171.5	0.0	0.0
1984	W	156.6	156.6	0.0	0.0
1985	D	343.1	331.1	-12.0	-3.5
1986	W	166.0	166.0	0.0	0.0
1987	D	187.1	187.1	0.0	0.0
1988	C	460.9	460.9	0.0	0.0
1989	D	177.9	176.1	-1.8	-1.0
1990	C	537.8	541.7	3.9	0.7
1991	C	289.0	289.0	0.0	0.0
	Mean:	302.2	301.9	-0.3	-0.1
	Median:	171.5	171.5	0.0	0.0
	Min:	156.6	156.6	-12.0	-3.5
	Max:	1254.6	1254.7	3.9	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Sacramento River at Emmaton Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	163.4	163.4	0.0	0.0
1976	C	611.4	621.5	10.2	1.7
1977	C	1087.6	1087.6	0.0	0.0
1978	AN	165.2	165.3	0.1	0.1
1979	BN	178.8	179.3	0.6	0.3
1980	AN	167.9	167.9	0.0	0.0
1981	D	179.4	180.8	1.4	0.8
1982	W	162.2	162.2	0.0	0.0
1983	W	159.6	159.6	0.0	0.0
1984	W	163.6	163.6	0.0	0.0
1985	D	267.4	263.0	-4.4	-1.6
1986	W	170.0	170.0	0.0	0.0
1987	D	218.4	218.2	-0.1	0.0
1988	C	702.1	712.8	10.7	1.5
1989	D	163.2	163.1	-0.1	-0.1
1990	C	528.3	528.0	-0.3	-0.1
1991	C	230.7	235.2	4.4	1.9
	Mean:	312.9	314.2	1.3	0.3
	Median:	178.8	179.3	0.0	0.0
	Min:	159.6	159.6	-4.4	-1.6
	Max:	1087.6	1087.6	10.7	1.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Sacramento River at Emmaton Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	160.5	160.5	0.0	0.0
1976	C	1583.6	1675.8	92.2	5.8
1977	C	1831.9	1842.1	10.2	0.6
1978	AN	165.9	165.8	-0.1	-0.1
1979	BN	178.0	178.1	0.1	0.1
1980	AN	178.3	178.3	0.0	0.0
1981	D	249.6	280.7	31.0	12.4
1982	W	155.3	155.3	0.0	0.0
1983	W	153.3	153.3	0.0	0.0
1984	W	207.6	207.6	0.0	0.0
1985	D	261.2	261.1	-0.2	-0.1
1986	W	189.1	189.1	0.0	0.0
1987	D	468.9	547.6	78.8	16.8
1988	C	894.8	899.3	4.5	0.5
1989	D	227.1	227.1	0.1	0.0
1990	C	707.6	872.2	164.6	23.3
1991	C	481.5	572.7	91.3	19.0
	Mean:	476.1	503.9	27.8	4.6
	Median:	227.1	227.1	0.1	0.0
	Min:	153.3	153.3	-0.2	-0.1
	Max:	1831.9	1842.1	164.6	23.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4

Sacramento River at Emmaton Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	164.3	164.3	0.0	0.0
1976	C	1940.3	2044.0	103.6	5.3
1977	C	2182.6	2300.6	118.0	5.4
1978	AN	183.7	183.7	0.0	0.0
1979	BN	227.7	227.8	0.1	0.0
1980	AN	287.1	287.5	0.3	0.1
1981	D	666.9	722.4	55.5	8.3
1982	W	161.1	161.1	0.0	0.0
1983	W	151.5	151.6	0.0	0.0
1984	W	355.5	356.1	0.6	0.2
1985	D	688.7	690.2	1.5	0.2
1986	W	315.9	316.2	0.4	0.1
1987	D	828.4	945.4	117.0	14.1
1988	C	1001.7	1048.4	46.7	4.7
1989	D	719.2	719.9	0.7	0.1
1990	C	1677.5	1928.5	251.1	15.0
1991	C	1499.5	1684.4	184.9	12.3
	Mean:	767.7	819.5	51.8	3.9
	Median:	666.9	690.2	0.7	0.2
	Min:	151.5	151.6	0.0	0.0
	Max:	2182.6	2300.6	251.1	15.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					3

Sacramento River at Emmaton Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	280.4	274.2	-6.2	-2.2
1976	C	1418.0	1450.1	32.1	2.3
1977	C	2464.3	2526.2	61.8	2.5
1978	AN	298.4	293.5	-5.0	-1.7
1979	BN	521.4	490.2	-31.2	-6.0
1980	AN	463.6	416.3	-47.3	-10.2
1981	D	1216.5	1210.5	-6.1	-0.5
1982	W	266.7	262.1	-4.6	-1.7
1983	W	156.8	156.8	0.0	0.0
1984	W	349.4	342.1	-7.4	-2.1
1985	D	1026.0	1026.3	0.4	0.0
1986	W	430.2	417.7	-12.5	-2.9
1987	D	1444.8	1338.7	-106.1	-7.3
1988	C	2601.3	2668.2	66.9	2.6
1989	D	1186.8	1147.0	-39.8	-3.4
1990	C	3030.7	3049.1	18.4	0.6
1991	C	3187.2	3210.1	22.9	0.7
	Mean:	1196.6	1192.9	-3.7	-1.7
	Median:	1026.0	1026.3	-5.0	-1.7
	Min:	156.8	156.8	-106.1	-10.2
	Max:	3187.2	3210.1	66.9	2.6
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Sacramento River at Emmaton Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	895.0	808.7	-86.3	-9.6
1976	C	2232.0	2265.7	33.8	1.5
1977	C	3453.5	3518.3	64.8	1.9
1978	AN	1129.9	955.0	-174.9	-15.5
1979	BN	1291.7	1150.2	-141.5	-11.0
1980	AN	939.3	868.1	-71.2	-7.6
1981	D	1854.3	1834.6	-19.7	-1.1
1982	W	1016.5	964.7	-51.8	-5.1
1983	W	204.6	204.6	0.0	0.0
1984	W	877.1	871.4	-5.7	-0.6
1985	D	1444.2	1444.0	-0.2	0.0
1986	W	743.7	735.9	-7.8	-1.0
1987	D	2233.3	2084.8	-148.4	-6.6
1988	C	3042.4	3129.7	87.4	2.9
1989	D	1713.9	1639.0	-74.9	-4.4
1990	C	3165.8	3090.9	-74.9	-2.4
1991	C	2816.0	2773.8	-42.2	-1.5
	Mean:	1709.0	1667.0	-42.0	-3.5
	Median:	1444.2	1444.0	-42.2	-1.5
	Min:	204.6	204.6	-174.9	-15.5
	Max:	3453.5	3518.3	87.4	2.9
# Years Rel Diff <= -10%					2
# Years Rel Diff >= 10%					0

Sacramento River at Emmaton Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	673.5	632.3	-41.2	-6.1
1976	C	3302.1	3346.0	43.9	1.3
1977	C	3797.7	3840.6	42.9	1.1
1978	AN	1894.6	1721.9	-172.7	-9.1
1979	BN	2731.9	2511.9	-219.9	-8.0
1980	AN	1553.0	1533.0	-20.0	-1.3
1981	D	2378.4	2373.0	-5.4	-0.2
1982	W	817.3	807.5	-9.9	-1.2
1983	W	166.5	166.5	0.0	0.0
1984	W	1906.1	1904.3	-1.8	-0.1
1985	D	2069.5	2074.2	4.6	0.2
1986	W	1372.8	1371.9	-0.9	-0.1
1987	D	2976.8	2951.0	-25.8	-0.9
1988	C	2977.9	3036.3	58.4	2.0
1989	D	2398.6	2364.3	-34.3	-1.4
1990	C	3367.8	3313.1	-54.7	-1.6
1991	C	3327.9	3303.2	-24.7	-0.7
	Mean:	2218.4	2191.2	-27.1	-1.5
	Median:	2378.4	2364.3	-9.9	-0.7
	Min:	166.5	166.5	-219.9	-9.1
	Max:	3797.7	3840.6	58.4	2.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the San Joaquin River at Jersey Point under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	1,786	1,478	1,350	905	562	341	271	342	525	1,178	1,709	2,167
CEQA Modified Flow Alternative	1,776	1,479	1,359	932	576	341	272	354	547	1,174	1,667	2,127
Difference	-9.8	0.7	8.8	27.3	14.8	0.9	0.6	12.4	22.2	-4.0	-42.0	-39.8
Percent Difference[3]	-0.5	0.0	0.7	3.0	2.6	0.3	0.2	3.6	4.2	-0.3	-2.5	-1.8
Water Year Types[1]												
Wet												
CEQA No Project Alternative	973	847	684	513	229	181	179	187	204	333	940	1,282
CEQA Modified Flow Alternative	973	848	684	542	237	181	179	187	204	341	926	1,264
Difference	-0.4	0.2	-0.1	28.2	8.9	0.1	0.0	0.0	0.1	7.7	-14.3	-18.1
Percent Difference	0.0	0.0	0.0	5.5	3.9	0.0	0.0	0.0	0.0	2.3	-1.5	-1.4
Above Normal												
CEQA No Project Alternative	2,500	1,732	1,511	362	203	201	202	202	210	428	1,301	2,117
CEQA Modified Flow Alternative	2,457	1,716	1,564	369	203	200	202	202	210	408	1,166	1,971
Difference	-42.9	-15.8	52.8	7.3	-0.1	0.0	0.0	0.0	0.1	-20.1	-135.1	-146.3
Percent Difference	-1.7	-0.9	3.5	2.0	0.0	0.0	0.0	0.0	0.0	-4.7	-10.4	-6.9
Below Normal												
CEQA No Project Alternative	2,207	1,905	1,666	562	238	203	197	205	220	762	1,832	2,784
CEQA Modified Flow Alternative	2,147	1,893	1,662	563	238	203	197	205	220	726	1,651	2,558
Difference	-59.9	-12.1	-4.1	0.8	0.2	0.5	0.3	0.1	0.1	-36.4	-180.9	-225.6
Percent Difference	-2.7	-0.6	-0.2	0.1	0.1	0.2	0.2	0.0	0.0	-4.8	-9.9	-8.1
Dry												
CEQA No Project Alternative	2,201	1,754	1,314	1,039	717	301	206	249	509	1,624	2,260	2,762
CEQA Modified Flow Alternative	2,206	1,760	1,316	1,061	733	299	205	260	526	1,575	2,197	2,736
Difference	5.0	5.8	1.5	21.5	16.3	-1.9	-1.0	10.5	16.6	-49.1	-62.8	-26.1
Percent Difference	0.2	0.3	0.1	2.1	2.3	-0.6	-0.5	4.2	3.3	-3.0	-2.8	-0.9
Critical												
CEQA No Project Alternative	1,895	1,702	1,919	1,474	979	615	458	654	1,045	2,048	2,176	2,472
CEQA Modified Flow Alternative	1,888	1,708	1,927	1,518	1,007	620	461	687	1,107	2,081	2,188	2,479
Difference	-7.6	6.3	8.7	44.3	28.3	4.5	2.7	33.7	62.1	33.3	11.9	7.4
Percent Difference	-0.4	0.4	0.5	3.0	2.9	0.7	0.6	5.2	5.9	1.6	0.5	0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

San Joaquin River at Jersey Point Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	229.6	229.5	-0.1	0.0
1976	C	447.6	439.0	-8.6	-1.9
1977	C	2193.6	2203.2	9.6	0.4
1978	AN	2502.4	2513.9	11.5	0.5
1979	BN	2207.4	2147.5	-59.9	-2.7
1980	AN	2497.0	2399.7	-97.3	-3.9
1981	D	1774.0	1768.6	-5.4	-0.3
1982	W	2150.2	2148.3	-1.9	-0.1
1983	W	213.6	213.5	-0.1	0.0
1984	W	187.2	187.2	0.0	0.0
1985	D	2581.4	2573.3	-8.1	-0.3
1986	W	2085.5	2085.3	-0.1	0.0
1987	D	1993.1	2007.9	14.8	0.7
1988	C	1957.8	1947.9	-9.9	-0.5
1989	D	2456.0	2474.7	18.7	0.8
1990	C	2230.9	2217.3	-13.6	-0.6
1991	C	2646.9	2631.3	-15.6	-0.6
	Mean:	1785.5	1775.8	-9.8	-0.5
	Median:	2150.2	2147.5	-1.9	-0.1
	Min:	187.2	187.2	-97.3	-3.9
	Max:	2646.9	2631.3	18.7	0.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Jersey Point Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	1366.7	1366.5	-0.1	0.0
1976	C	1083.7	1121.1	37.4	3.5
1977	C	2142.7	2144.9	2.2	0.1
1978	AN	1775.6	1774.5	-1.1	-0.1
1979	BN	1904.9	1892.8	-12.1	-0.6
1980	AN	1688.0	1657.3	-30.6	-1.8
1981	D	1945.1	1943.9	-1.2	-0.1
1982	W	745.7	746.2	0.6	0.1
1983	W	172.0	172.1	0.1	0.1
1984	W	168.5	168.5	0.0	0.0
1985	D	1238.6	1270.3	31.7	2.6
1986	W	1783.8	1784.2	0.5	0.0
1987	D	2051.1	2039.4	-11.7	-0.6
1988	C	1824.9	1823.7	-1.2	-0.1
1989	D	1780.1	1784.6	4.5	0.3
1990	C	1608.6	1605.7	-2.9	-0.2
1991	C	1851.3	1847.0	-4.2	-0.2
	Mean:	1478.3	1479.0	0.7	0.2
	Median:	1775.6	1774.5	-0.1	0.0
	Min:	168.5	168.5	-30.6	-1.8
	Max:	2142.7	2144.9	37.4	3.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Jersey Point Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	1444.3	1441.2	-3.0	-0.2
1976	C	1670.0	1755.6	85.6	5.1
1977	C	2062.0	2062.6	0.6	0.0
1978	AN	1992.1	2006.1	14.0	0.7
1979	BN	1666.4	1662.3	-4.1	-0.2
1980	AN	1029.6	1121.2	91.6	8.9
1981	D	1587.5	1584.0	-3.4	-0.2
1982	W	183.0	182.8	-0.2	-0.1
1983	W	162.5	162.6	0.0	0.0
1984	W	157.7	157.7	0.0	0.0
1985	D	260.0	269.0	8.9	3.4
1986	W	1471.0	1473.7	2.7	0.2
1987	D	1676.2	1672.8	-3.4	-0.2
1988	C	1880.4	1874.5	-5.9	-0.3
1989	D	1733.6	1737.5	3.9	0.2
1990	C	2511.4	2478.4	-33.0	-1.3
1991	C	1468.9	1464.9	-4.0	-0.3
	Mean:	1350.4	1359.2	8.8	0.9
	Median:	1587.5	1584.0	0.0	0.0
	Min:	157.7	157.7	-33.0	-1.3
	Max:	2511.4	2478.4	91.6	8.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Jersey Point Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	1387.4	1543.8	156.4	11.3
1976	C	1694.0	1816.3	122.3	7.2
1977	C	1655.9	1656.0	0.1	0.0
1978	AN	477.2	479.3	2.1	0.4
1979	BN	562.0	562.7	0.8	0.1
1980	AN	246.9	259.4	12.5	5.1
1981	D	776.6	826.7	50.1	6.5
1982	W	205.9	205.8	0.0	0.0
1983	W	190.5	190.5	0.0	0.0
1984	W	163.3	163.3	0.0	0.0
1985	D	595.5	629.5	34.0	5.7
1986	W	619.6	604.2	-15.3	-2.5
1987	D	1457.1	1455.5	-1.5	-0.1
1988	C	768.6	765.7	-2.9	-0.4
1989	D	1328.4	1331.9	3.6	0.3
1990	C	1736.7	1841.7	105.0	6.0
1991	C	1514.8	1511.6	-3.1	-0.2
	Mean:	904.7	932.0	27.3	2.3
	Median:	768.6	765.7	0.8	0.1
	Min:	163.3	163.3	-15.3	-2.5
	Max:	1736.7	1841.7	156.4	11.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

San Joaquin River at Jersey Point Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	408.2	453.5	45.2	11.1
1976	C	1513.8	1598.1	84.3	5.6
1977	C	1085.7	1085.7	0.0	0.0
1978	AN	219.5	219.3	-0.2	-0.1
1979	BN	237.8	238.0	0.2	0.1
1980	AN	187.3	187.3	0.0	0.0
1981	D	354.2	380.6	26.3	7.4
1982	W	177.1	177.1	0.0	0.0
1983	W	168.6	168.5	0.0	0.0
1984	W	175.4	175.4	0.0	0.0
1985	D	797.5	832.6	35.1	4.4
1986	W	213.2	212.4	-0.8	-0.4
1987	D	877.8	877.0	-0.7	-0.1
1988	C	288.4	288.2	-0.2	-0.1
1989	D	837.0	841.4	4.4	0.5
1990	C	739.2	797.3	58.1	7.9
1991	C	1266.0	1265.1	-0.9	-0.1
	Mean:	561.6	576.3	14.8	2.1
	Median:	354.2	380.6	0.0	0.0
	Min:	168.6	168.5	-0.9	-0.4
	Max:	1513.8	1598.1	84.3	11.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

San Joaquin River at Jersey Point Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	186.3	186.7	0.4	0.2
1976	C	782.4	795.5	13.1	1.7
1977	C	786.5	786.6	0.1	0.0
1978	AN	221.4	221.3	0.0	0.0
1979	BN	202.6	203.1	0.5	0.2
1980	AN	179.6	179.7	0.0	0.0
1981	D	196.3	198.8	2.4	1.2
1982	W	192.8	192.8	0.0	0.0
1983	W	170.6	170.6	0.0	0.0
1984	W	173.1	173.1	0.0	0.0
1985	D	416.7	413.2	-3.5	-0.8
1986	W	182.9	182.9	0.0	0.0
1987	D	270.4	270.2	-0.1	0.0
1988	C	309.0	308.9	-0.1	0.0
1989	D	318.9	312.4	-6.5	-2.0
1990	C	534.7	544.2	9.4	1.8
1991	C	664.2	664.0	-0.1	0.0
	Mean:	340.5	341.4	0.9	0.1
	Median:	221.4	221.3	0.0	0.0
	Min:	170.6	170.6	-6.5	-2.0
	Max:	786.5	795.5	13.1	1.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Jersey Point Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	184.3	184.3	0.0	0.0
1976	C	453.8	459.4	5.7	1.3
1977	C	715.5	715.5	0.0	0.0
1978	AN	217.5	217.5	0.0	0.0
1979	BN	196.8	197.1	0.3	0.2
1980	AN	186.6	186.6	0.0	0.0
1981	D	183.4	184.0	0.6	0.3
1982	W	167.6	167.6	0.0	0.0
1983	W	174.6	174.6	0.0	0.0
1984	W	177.0	177.0	0.0	0.0
1985	D	249.2	245.3	-3.9	-1.6
1986	W	192.1	192.1	0.0	0.0
1987	D	212.4	212.3	-0.1	0.0
1988	C	480.1	485.5	5.4	1.1
1989	D	177.9	177.3	-0.6	-0.3
1990	C	412.6	413.9	1.2	0.3
1991	C	228.0	229.3	1.4	0.6
	Mean:	271.1	271.7	0.6	0.1
	Median:	196.8	197.1	0.0	0.0
	Min:	167.6	167.6	-3.9	-1.6
	Max:	715.5	715.5	5.7	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Jersey Point Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	194.6	194.6	0.0	0.0
1976	C	924.7	973.7	49.0	5.3
1977	C	1003.3	1007.8	4.5	0.4
1978	AN	196.6	196.6	0.0	0.0
1979	BN	204.8	204.9	0.1	0.0
1980	AN	208.0	208.0	0.0	0.0
1981	D	227.4	236.9	9.4	4.1
1982	W	165.2	165.2	0.0	0.0
1983	W	164.8	164.8	0.0	0.0
1984	W	217.5	217.5	0.0	0.0
1985	D	240.4	240.2	-0.2	-0.1
1986	W	194.1	194.1	0.0	0.0
1987	D	325.1	357.8	32.7	10.1
1988	C	583.7	587.7	4.1	0.7
1989	D	204.8	204.8	0.0	0.0
1990	C	433.9	505.8	71.9	16.6
1991	C	322.4	361.7	39.3	12.2
	Mean:	341.8	354.2	12.4	2.9
	Median:	217.5	217.5	0.0	0.0
	Min:	164.8	164.8	-0.2	-0.1
	Max:	1003.3	1007.8	71.9	16.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					3

San Joaquin River at Jersey Point Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	180.6	180.6	0.0	0.0
1976	C	1467.7	1519.3	51.5	3.5
1977	C	1330.0	1359.8	29.8	2.2
1978	AN	192.3	192.3	0.0	0.0
1979	BN	219.9	220.0	0.1	0.0
1980	AN	226.8	227.0	0.1	0.0
1981	D	519.9	542.1	22.3	4.3
1982	W	173.3	173.3	0.0	0.0
1983	W	151.4	151.4	0.0	0.0
1984	W	290.5	290.9	0.4	0.1
1985	D	545.6	545.3	-0.3	-0.1
1986	W	226.1	226.2	0.1	0.0
1987	D	522.9	566.7	43.8	8.4
1988	C	598.9	608.0	9.1	1.5
1989	D	448.0	448.4	0.4	0.1
1990	C	944.4	1074.7	130.3	13.8
1991	C	885.7	975.3	89.6	10.1
	Mean:	524.9	547.1	22.2	2.6
	Median:	448.0	448.4	0.4	0.1
	Min:	151.4	151.4	-0.3	-0.1
	Max:	1467.7	1519.3	130.3	13.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

San Joaquin River at Jersey Point Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	330.5	337.5	7.0	2.1
1976	C	1453.0	1461.2	8.2	0.6
1977	C	2091.8	2115.5	23.7	1.1
1978	AN	372.0	378.0	6.0	1.6
1979	BN	761.9	725.5	-36.4	-4.8
1980	AN	483.7	437.6	-46.2	-9.6
1981	D	1785.2	1771.6	-13.6	-0.8
1982	W	265.6	268.4	2.8	1.1
1983	W	162.8	162.8	0.0	0.0
1984	W	385.2	398.7	13.4	3.5
1985	D	1706.0	1706.4	0.4	0.0
1986	W	521.4	536.7	15.3	2.9
1987	D	1431.2	1268.1	-163.1	-11.4
1988	C	2018.7	2030.7	12.0	0.6
1989	D	1573.4	1553.3	-20.1	-1.3
1990	C	2275.3	2344.6	69.2	3.0
1991	C	2401.5	2454.9	53.4	2.2
	Mean:	1177.6	1173.6	-4.0	-0.5
	Median:	1431.2	1268.1	6.0	0.6
	Min:	162.8	162.8	-163.1	-11.4
	Max:	2401.5	2454.9	69.2	3.5
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

San Joaquin River at Jersey Point Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	1184.1	1096.8	-87.2	-7.4
1976	C	1669.3	1672.9	3.6	0.2
1977	C	2467.9	2488.2	20.3	0.8
1978	AN	1434.9	1217.3	-217.6	-15.2
1979	BN	1831.7	1650.8	-180.9	-9.9
1980	AN	1167.4	1114.8	-52.6	-4.5
1981	D	2240.9	2219.9	-20.9	-0.9
1982	W	1138.5	1153.3	14.8	1.3
1983	W	223.8	223.8	0.0	0.0
1984	W	1073.4	1074.7	1.3	0.1
1985	D	2197.7	2197.5	-0.2	0.0
1986	W	1080.2	1079.7	-0.6	-0.1
1987	D	2423.9	2238.6	-185.4	-7.6
1988	C	2035.2	2067.6	32.3	1.6
1989	D	2175.5	2130.9	-44.6	-2.1
1990	C	2251.1	2247.7	-3.5	-0.2
1991	C	2454.5	2461.2	6.7	0.3
	Mean:	1708.8	1666.8	-42.0	-2.6
	Median:	1831.7	1672.9	-0.6	-0.1
	Min:	223.8	223.8	-217.6	-15.2
	Max:	2467.9	2488.2	32.3	1.6
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

San Joaquin River at Jersey Point Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	1163.8	1077.3	-86.4	-7.4
1976	C	2782.4	2790.8	8.5	0.3
1977	C	2768.2	2790.3	22.1	0.8
1978	AN	2389.4	2121.8	-267.6	-11.2
1979	BN	2783.6	2558.1	-225.6	-8.1
1980	AN	1844.6	1819.6	-24.9	-1.3
1981	D	2828.9	2821.6	-7.3	-0.3
1982	W	1002.8	1000.2	-2.5	-0.2
1983	W	204.3	204.3	0.0	0.0
1984	W	2295.4	2294.6	-0.8	0.0
1985	D	2670.1	2668.4	-1.7	-0.1
1986	W	1742.5	1741.6	-0.9	-0.1
1987	D	2989.5	2934.5	-55.0	-1.8
1988	C	2052.5	2080.8	28.3	1.4
1989	D	2560.9	2520.4	-40.4	-1.6
1990	C	2304.1	2283.5	-20.6	-0.9
1991	C	2452.8	2451.7	-1.1	0.0
	Mean:	2166.8	2127.0	-39.8	-1.8
	Median:	2389.4	2294.6	-2.5	-0.2
	Min:	204.3	204.3	-267.6	-11.2
	Max:	2989.5	2934.5	28.3	1.4
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the San Joaquin River at Airport Way Bridge (Vernalis) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	582	649	560	496	512	540	422	428	534	642	775	948
CEQA Modified Flow Alternative	582	649	560	496	512	540	422	428	534	642	775	948
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference[3]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	497	545	448	338	200	235	247	274	349	538	693	737
CEQA Modified Flow Alternative	497	545	448	338	200	235	247	274	349	538	693	737
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal												
CEQA No Project Alternative	715	719	600	232	173	251	240	260	284	526	671	700
CEQA Modified Flow Alternative	715	719	600	232	173	251	240	260	284	526	671	700
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal												
CEQA No Project Alternative	373	712	589	305	212	284	301	338	623	705	702	896
CEQA Modified Flow Alternative	373	712	589	305	212	284	301	338	623	705	702	896
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry												
CEQA No Project Alternative	577	690	592	629	721	711	538	517	689	664	769	1,094
CEQA Modified Flow Alternative	577	690	592	629	721	711	538	517	689	664	769	1,094
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical												
CEQA No Project Alternative	658	681	624	691	854	875	602	597	678	761	919	1,153
CEQA Modified Flow Alternative	658	681	624	691	854	875	602	597	678	761	919	1,153
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	484.5	484.5	0.0	0.0
1976	C	431.8	431.8	0.0	0.0
1977	C	500.9	500.9	0.0	0.0
1978	AN	763.4	763.4	0.0	0.0
1979	BN	372.5	372.5	0.0	0.0
1980	AN	666.4	666.4	0.0	0.0
1981	D	353.7	353.7	0.0	0.0
1982	W	805.2	805.2	0.0	0.0
1983	W	195.3	195.3	0.0	0.0
1984	W	199.4	199.4	0.0	0.0
1985	D	685.7	685.7	0.0	0.0
1986	W	800.2	800.2	0.0	0.0
1987	D	477.2	477.2	0.0	0.0
1988	C	791.7	791.7	0.0	0.0
1989	D	792.2	792.2	0.0	0.0
1990	C	793.9	793.9	0.0	0.0
1991	C	772.6	772.6	0.0	0.0
	Mean:	581.6	581.6	0.0	0.0
	Median:	666.4	666.4	0.0	0.0
	Min:	195.3	195.3	0.0	0.0
	Max:	805.2	805.2	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	690.7	690.7	0.0	0.0
1976	C	670.5	670.5	0.0	0.0
1977	C	555.9	555.9	0.0	0.0
1978	AN	779.6	779.6	0.0	0.0
1979	BN	712.3	712.3	0.0	0.0
1980	AN	658.6	658.6	0.0	0.0
1981	D	688.3	688.3	0.0	0.0
1982	W	807.8	807.8	0.0	0.0
1983	W	252.6	252.6	0.0	0.0
1984	W	166.9	166.9	0.0	0.0
1985	D	661.7	661.7	0.0	0.0
1986	W	806.1	806.1	0.0	0.0
1987	D	678.5	678.5	0.0	0.0
1988	C	764.0	764.0	0.0	0.0
1989	D	732.5	732.5	0.0	0.0
1990	C	719.7	719.7	0.0	0.0
1991	C	694.9	694.9	0.0	0.0
	Mean:	649.5	649.5	0.0	0.0
	Median:	690.7	690.7	0.0	0.0
	Min:	166.9	166.9	0.0	0.0
	Max:	807.8	807.8	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	585.0	585.0	0.0	0.0
1976	C	575.3	575.3	0.0	0.0
1977	C	585.9	585.9	0.0	0.0
1978	AN	642.8	642.8	0.0	0.0
1979	BN	589.5	589.5	0.0	0.0
1980	AN	556.4	556.4	0.0	0.0
1981	D	584.0	584.0	0.0	0.0
1982	W	718.5	718.5	0.0	0.0
1983	W	118.4	118.4	0.0	0.0
1984	W	111.4	111.4	0.0	0.0
1985	D	583.0	583.0	0.0	0.0
1986	W	704.3	704.3	0.0	0.0
1987	D	598.0	598.0	0.0	0.0
1988	C	690.6	690.6	0.0	0.0
1989	D	601.8	601.8	0.0	0.0
1990	C	655.4	655.4	0.0	0.0
1991	C	613.0	613.0	0.0	0.0
	Mean:	559.6	559.6	0.0	0.0
	Median:	589.5	589.5	0.0	0.0
	Min:	111.4	111.4	0.0	0.0
	Max:	718.5	718.5	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	609.0	609.0	0.0	0.0
1976	C	635.4	635.4	0.0	0.0
1977	C	721.3	721.3	0.0	0.0
1978	AN	330.6	330.6	0.0	0.0
1979	BN	305.3	305.3	0.0	0.0
1980	AN	133.9	133.9	0.0	0.0
1981	D	552.2	552.2	0.0	0.0
1982	W	240.2	240.2	0.0	0.0
1983	W	103.4	103.4	0.0	0.0
1984	W	138.0	138.0	0.0	0.0
1985	D	636.5	636.5	0.0	0.0
1986	W	599.5	599.5	0.0	0.0
1987	D	643.3	643.3	0.0	0.0
1988	C	703.0	703.0	0.0	0.0
1989	D	684.9	684.9	0.0	0.0
1990	C	700.1	700.1	0.0	0.0
1991	C	697.6	697.6	0.0	0.0
	Mean:	496.1	496.1	0.0	0.0
	Median:	609.0	609.0	0.0	0.0
	Min:	103.4	103.4	0.0	0.0
	Max:	721.3	721.3	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	332.1	332.1	0.0	0.0
1976	C	741.0	741.0	0.0	0.0
1977	C	905.9	905.9	0.0	0.0
1978	AN	231.6	231.6	0.0	0.0
1979	BN	212.4	212.4	0.0	0.0
1980	AN	113.4	113.4	0.0	0.0
1981	D	612.0	612.0	0.0	0.0
1982	W	176.4	176.4	0.0	0.0
1983	W	101.4	101.4	0.0	0.0
1984	W	230.1	230.1	0.0	0.0
1985	D	715.2	715.2	0.0	0.0
1986	W	159.4	159.4	0.0	0.0
1987	D	730.5	730.5	0.0	0.0
1988	C	892.7	892.7	0.0	0.0
1989	D	825.1	825.1	0.0	0.0
1990	C	853.1	853.1	0.0	0.0
1991	C	878.1	878.1	0.0	0.0
	Mean:	512.4	512.4	0.0	0.0
	Median:	612.0	612.0	0.0	0.0
	Min:	101.4	101.4	0.0	0.0
	Max:	905.9	905.9	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	285.7	285.7	0.0	0.0
1976	C	829.5	829.5	0.0	0.0
1977	C	1006.5	1006.5	0.0	0.0
1978	AN	284.7	284.7	0.0	0.0
1979	BN	284.2	284.2	0.0	0.0
1980	AN	217.5	217.5	0.0	0.0
1981	D	504.0	504.0	0.0	0.0
1982	W	218.9	218.9	0.0	0.0
1983	W	131.8	131.8	0.0	0.0
1984	W	375.9	375.9	0.0	0.0
1985	D	738.7	738.7	0.0	0.0
1986	W	163.6	163.6	0.0	0.0
1987	D	776.7	776.7	0.0	0.0
1988	C	1006.9	1006.9	0.0	0.0
1989	D	824.4	824.4	0.0	0.0
1990	C	930.8	930.8	0.0	0.0
1991	C	600.6	600.6	0.0	0.0
	Mean:	540.0	540.0	0.0	0.0
	Median:	504.0	504.0	0.0	0.0
	Min:	131.8	131.8	0.0	0.0
	Max:	1006.9	1006.9	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	301.1	301.1	0.0	0.0
1976	C	587.7	587.7	0.0	0.0
1977	C	685.3	685.3	0.0	0.0
1978	AN	212.1	212.1	0.0	0.0
1979	BN	300.8	300.8	0.0	0.0
1980	AN	268.7	268.7	0.0	0.0
1981	D	427.7	427.7	0.0	0.0
1982	W	154.1	154.1	0.0	0.0
1983	W	169.2	169.2	0.0	0.0
1984	W	386.4	386.4	0.0	0.0
1985	D	536.6	536.6	0.0	0.0
1986	W	225.0	225.0	0.0	0.0
1987	D	584.8	584.8	0.0	0.0
1988	C	649.0	649.0	0.0	0.0
1989	D	604.7	604.7	0.0	0.0
1990	C	614.5	614.5	0.0	0.0
1991	C	472.5	472.5	0.0	0.0
	Mean:	422.4	422.4	0.0	0.0
	Median:	427.7	427.7	0.0	0.0
	Min:	154.1	154.1	0.0	0.0
	Max:	685.3	685.3	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	333.7	333.7	0.0	0.0
1976	C	564.1	564.1	0.0	0.0
1977	C	633.1	633.1	0.0	0.0
1978	AN	219.8	219.8	0.0	0.0
1979	BN	337.7	337.7	0.0	0.0
1980	AN	300.9	300.9	0.0	0.0
1981	D	446.8	446.8	0.0	0.0
1982	W	185.6	185.6	0.0	0.0
1983	W	166.2	166.2	0.0	0.0
1984	W	398.5	398.5	0.0	0.0
1985	D	421.6	421.6	0.0	0.0
1986	W	285.5	285.5	0.0	0.0
1987	D	574.3	574.3	0.0	0.0
1988	C	660.4	660.4	0.0	0.0
1989	D	624.9	624.9	0.0	0.0
1990	C	619.3	619.3	0.0	0.0
1991	C	509.9	509.9	0.0	0.0
	Mean:	428.4	428.4	0.0	0.0
	Median:	421.6	421.6	0.0	0.0
	Min:	166.2	166.2	0.0	0.0
	Max:	660.4	660.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	402.7	402.7	0.0	0.0
1976	C	684.2	684.2	0.0	0.0
1977	C	658.6	658.6	0.0	0.0
1978	AN	227.6	227.6	0.0	0.0
1979	BN	623.5	623.5	0.0	0.0
1980	AN	341.1	341.1	0.0	0.0
1981	D	696.9	696.9	0.0	0.0
1982	W	267.7	267.7	0.0	0.0
1983	W	125.4	125.4	0.0	0.0
1984	W	607.5	607.5	0.0	0.0
1985	D	698.0	698.0	0.0	0.0
1986	W	339.6	339.6	0.0	0.0
1987	D	684.5	684.5	0.0	0.0
1988	C	672.8	672.8	0.0	0.0
1989	D	676.9	676.9	0.0	0.0
1990	C	676.7	676.7	0.0	0.0
1991	C	697.4	697.4	0.0	0.0
	Mean:	534.2	534.2	0.0	0.0
	Median:	658.6	658.6	0.0	0.0
	Min:	125.4	125.4	0.0	0.0
	Max:	698.0	698.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	629.1	629.1	0.0	0.0
1976	C	669.6	669.6	0.0	0.0
1977	C	931.4	931.4	0.0	0.0
1978	AN	609.1	609.1	0.0	0.0
1979	BN	704.8	704.8	0.0	0.0
1980	AN	442.5	442.5	0.0	0.0
1981	D	675.2	675.2	0.0	0.0
1982	W	514.7	514.7	0.0	0.0
1983	W	184.9	184.9	0.0	0.0
1984	W	704.1	704.1	0.0	0.0
1985	D	657.0	657.0	0.0	0.0
1986	W	657.0	657.0	0.0	0.0
1987	D	656.3	656.3	0.0	0.0
1988	C	808.6	808.6	0.0	0.0
1989	D	669.4	669.4	0.0	0.0
1990	C	710.4	710.4	0.0	0.0
1991	C	686.5	686.5	0.0	0.0
	Mean:	641.8	641.8	0.0	0.0
	Median:	669.4	669.4	0.0	0.0
	Min:	184.9	184.9	0.0	0.0
	Max:	931.4	931.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	674.2	674.2	0.0	0.0
1976	C	667.9	667.9	0.0	0.0
1977	C	1094.1	1094.1	0.0	0.0
1978	AN	704.1	704.1	0.0	0.0
1979	BN	701.6	701.6	0.0	0.0
1980	AN	637.0	637.0	0.0	0.0
1981	D	677.5	677.5	0.0	0.0
1982	W	703.1	703.1	0.0	0.0
1983	W	693.4	693.4	0.0	0.0
1984	W	701.4	701.4	0.0	0.0
1985	D	667.7	667.7	0.0	0.0
1986	W	694.9	694.9	0.0	0.0
1987	D	759.2	759.2	0.0	0.0
1988	C	1105.1	1105.1	0.0	0.0
1989	D	971.4	971.4	0.0	0.0
1990	C	961.6	961.6	0.0	0.0
1991	C	765.1	765.1	0.0	0.0
	Mean:	775.3	775.3	0.0	0.0
	Median:	701.6	701.6	0.0	0.0
	Min:	637.0	637.0	0.0	0.0
	Max:	1105.1	1105.1	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Airport Way Bridge (Vernalis) Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	862.2	862.2	0.0	0.0
1976	C	1215.9	1215.9	0.0	0.0
1977	C	1188.5	1188.5	0.0	0.0
1978	AN	728.2	728.2	0.0	0.0
1979	BN	895.7	895.7	0.0	0.0
1980	AN	672.4	672.4	0.0	0.0
1981	D	1007.7	1007.7	0.0	0.0
1982	W	565.1	565.1	0.0	0.0
1983	W	405.1	405.1	0.0	0.0
1984	W	967.0	967.0	0.0	0.0
1985	D	1008.6	1008.6	0.0	0.0
1986	W	885.2	885.2	0.0	0.0
1987	D	1226.8	1226.8	0.0	0.0
1988	C	1221.4	1221.4	0.0	0.0
1989	D	1132.2	1132.2	0.0	0.0
1990	C	1124.9	1124.9	0.0	0.0
1991	C	1012.7	1012.7	0.0	0.0
	Mean:	948.2	948.2	0.0	0.0
	Median:	1007.7	1007.7	0.0	0.0
	Min:	405.1	405.1	0.0	0.0
	Max:	1226.8	1226.8	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the San Joaquin River at Brandt Bridge under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	592	650	572	506	512	547	437	434	536	638	757	935
CEQA Modified Flow Alternative	592	650	572	506	512	547	437	434	536	638	757	935
Difference	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference[3]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	498	546	457	349	206	239	249	277	351	536	689	737
CEQA Modified Flow Alternative	498	546	457	349	206	239	249	277	351	536	689	737
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal												
CEQA No Project Alternative	730	721	621	250	177	255	243	264	289	525	667	704
CEQA Modified Flow Alternative	730	721	621	250	177	255	243	264	289	525	667	704
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal												
CEQA No Project Alternative	379	704	603	323	216	285	303	341	622	704	700	887
CEQA Modified Flow Alternative	379	704	603	323	216	285	303	341	622	704	700	887
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry												
CEQA No Project Alternative	589	689	602	632	718	720	558	526	688	670	750	1,070
CEQA Modified Flow Alternative	589	689	602	632	718	720	558	526	688	670	749	1,070
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical												
CEQA No Project Alternative	677	683	637	700	845	887	632	605	681	748	877	1,127
CEQA Modified Flow Alternative	677	683	637	701	845	887	632	605	681	748	877	1,127
Difference	0.0	0.0	-0.3	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

San Joaquin River at Brandt Bridge Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	466.9	466.9	0.0	0.0
1976	C	441.2	441.2	0.0	0.0
1977	C	523.9	523.9	0.0	0.0
1978	AN	784.7	784.7	0.0	0.0
1979	BN	379.4	379.4	0.0	0.0
1980	AN	674.9	674.9	0.0	0.0
1981	D	359.3	359.3	0.0	0.0
1982	W	812.8	812.8	0.0	0.0
1983	W	200.6	200.6	0.0	0.0
1984	W	203.1	203.1	0.0	0.0
1985	D	695.8	695.8	0.0	0.0
1986	W	808.2	808.2	0.0	0.0
1987	D	488.3	488.3	0.0	0.0
1988	C	812.1	812.1	0.0	0.0
1989	D	813.4	813.4	0.0	0.0
1990	C	810.7	810.7	0.0	0.0
1991	C	796.5	796.5	0.0	0.0
	Mean:	592.5	592.5	0.0	0.0
	Median:	674.9	674.9	0.0	0.0
	Min:	200.6	200.6	0.0	0.0
	Max:	813.4	813.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	686.3	686.3	0.0	0.0
1976	C	664.7	664.7	0.0	0.0
1977	C	554.7	554.7	0.0	0.0
1978	AN	780.7	780.7	0.0	0.0
1979	BN	704.2	704.2	0.0	0.0
1980	AN	660.7	660.7	0.0	0.0
1981	D	679.9	679.9	0.0	0.0
1982	W	809.5	809.5	0.0	0.0
1983	W	257.2	257.2	0.0	0.0
1984	W	168.8	168.8	0.0	0.0
1985	D	666.1	666.1	0.0	0.0
1986	W	807.8	807.8	0.0	0.0
1987	D	674.1	674.1	0.0	0.0
1988	C	766.6	766.6	0.0	0.0
1989	D	737.2	737.2	0.0	0.0
1990	C	724.8	724.8	0.0	0.0
1991	C	702.1	702.1	0.0	0.0
	Mean:	649.7	649.7	0.0	0.0
	Median:	686.3	686.3	0.0	0.0
	Min:	168.8	168.8	0.0	0.0
	Max:	809.5	809.5	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	594.7	594.7	0.0	0.0
1976	C	583.3	583.3	0.0	0.0
1977	C	585.0	585.0	0.0	0.0
1978	AN	667.4	667.5	0.0	0.0
1979	BN	602.9	602.9	0.0	0.0
1980	AN	574.2	574.2	0.0	0.0
1981	D	595.1	595.1	0.0	0.0
1982	W	739.2	739.2	0.0	0.0
1983	W	121.7	121.7	0.0	0.0
1984	W	115.1	115.1	0.0	0.0
1985	D	593.6	593.6	0.0	0.0
1986	W	716.3	716.3	0.0	0.0
1987	D	605.0	605.0	0.0	0.0
1988	C	719.2	719.2	0.0	0.0
1989	D	615.1	615.1	0.0	0.0
1990	C	675.0	673.6	-1.5	-0.2
1991	C	622.5	622.5	0.0	0.0
	Mean:	572.1	572.0	-0.1	0.0
	Median:	602.9	602.9	0.0	0.0
	Min:	115.1	115.1	-1.5	-0.2
	Max:	739.2	739.2	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	615.7	615.7	0.0	0.0
1976	C	637.8	637.8	0.0	0.0
1977	C	715.9	715.9	0.0	0.0
1978	AN	355.5	355.5	0.0	0.0
1979	BN	322.5	322.5	0.0	0.0
1980	AN	144.1	144.1	0.0	0.0
1981	D	561.8	561.8	0.0	0.0
1982	W	259.1	259.1	0.0	0.0
1983	W	113.5	113.5	0.0	0.0
1984	W	137.7	137.7	0.0	0.0
1985	D	638.3	638.3	0.0	0.0
1986	W	620.4	620.4	0.0	0.0
1987	D	646.0	646.0	0.0	0.0
1988	C	727.1	727.1	0.0	0.0
1989	D	683.9	683.9	0.0	0.0
1990	C	726.1	729.2	3.0	0.4
1991	C	693.6	693.6	0.0	0.0
	Mean:	505.8	506.0	0.2	0.0
	Median:	620.4	620.4	0.0	0.0
	Min:	113.5	113.5	0.0	0.0
	Max:	727.1	729.2	3.0	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	342.4	342.4	0.0	0.0
1976	C	739.5	739.5	0.0	0.0
1977	C	894.0	894.0	0.0	0.0
1978	AN	237.5	237.5	0.0	0.0
1979	BN	215.9	215.9	0.0	0.0
1980	AN	116.7	116.7	0.0	0.0
1981	D	613.5	613.5	0.0	0.0
1982	W	178.2	178.2	0.0	0.0
1983	W	104.9	104.9	0.0	0.0
1984	W	228.9	228.9	0.0	0.0
1985	D	713.1	713.1	0.0	0.0
1986	W	175.3	175.3	0.0	0.0
1987	D	729.8	729.8	0.0	0.0
1988	C	879.1	879.1	0.0	0.0
1989	D	816.9	816.9	0.0	0.0
1990	C	843.4	843.9	0.5	0.1
1991	C	869.6	869.6	0.0	0.0
	Mean:	511.7	511.7	0.0	0.0
	Median:	613.5	613.5	0.0	0.0
	Min:	104.9	104.9	0.0	0.0
	Max:	894.0	894.0	0.5	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	287.5	287.5	0.0	0.0
1976	C	843.5	843.5	0.0	0.0
1977	C	1013.9	1013.9	0.0	0.0
1978	AN	293.3	293.3	0.0	0.0
1979	BN	285.2	285.2	0.0	0.0
1980	AN	216.5	216.5	0.0	0.0
1981	D	510.7	510.7	0.0	0.0
1982	W	224.8	224.8	0.0	0.0
1983	W	137.8	137.8	0.0	0.0
1984	W	375.7	375.7	0.0	0.0
1985	D	743.5	743.5	0.0	0.0
1986	W	166.9	166.9	0.0	0.0
1987	D	788.1	788.1	0.0	0.0
1988	C	1009.9	1009.9	0.0	0.0
1989	D	837.3	837.3	0.0	0.0
1990	C	939.1	939.1	0.0	0.0
1991	C	628.3	628.3	0.0	0.0
	Mean:	547.2	547.2	0.0	0.0
	Median:	510.7	510.7	0.0	0.0
	Min:	137.8	137.8	0.0	0.0
	Max:	1013.9	1013.9	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	303.4	303.4	0.0	0.0
1976	C	609.1	609.1	0.0	0.0
1977	C	722.0	722.0	0.0	0.0
1978	AN	214.6	214.6	0.0	0.0
1979	BN	303.1	303.1	0.0	0.0
1980	AN	271.2	271.2	0.0	0.0
1981	D	435.8	435.8	0.0	0.0
1982	W	155.4	155.4	0.0	0.0
1983	W	169.7	169.7	0.0	0.0
1984	W	391.9	391.9	0.0	0.0
1985	D	553.1	553.1	0.0	0.0
1986	W	225.2	225.2	0.0	0.0
1987	D	607.4	607.4	0.0	0.0
1988	C	683.7	683.7	0.0	0.0
1989	D	635.7	635.7	0.0	0.0
1990	C	654.0	654.0	0.0	0.0
1991	C	490.6	490.6	0.0	0.0
	Mean:	436.8	436.8	0.0	0.0
	Median:	435.8	435.8	0.0	0.0
	Min:	155.4	155.4	0.0	0.0
	Max:	722.0	722.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	338.7	338.7	0.0	0.0
1976	C	574.0	574.0	0.0	0.0
1977	C	640.5	640.5	0.0	0.0
1978	AN	223.3	223.3	0.0	0.0
1979	BN	340.7	340.7	0.0	0.0
1980	AN	305.2	305.2	0.0	0.0
1981	D	452.0	452.0	0.0	0.0
1982	W	187.5	187.5	0.0	0.0
1983	W	168.3	168.3	0.0	0.0
1984	W	403.0	403.0	0.0	0.0
1985	D	431.3	431.3	0.0	0.0
1986	W	288.9	288.9	0.0	0.0
1987	D	583.1	583.1	0.0	0.0
1988	C	667.4	667.4	0.0	0.0
1989	D	635.6	635.6	0.0	0.0
1990	C	623.9	624.0	0.0	0.0
1991	C	519.3	519.3	0.0	0.0
	Mean:	434.3	434.3	0.0	0.0
	Median:	431.3	431.3	0.0	0.0
	Min:	168.3	168.3	0.0	0.0
	Max:	667.4	667.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	407.8	407.8	0.0	0.0
1976	C	685.9	685.9	0.0	0.0
1977	C	663.8	663.8	0.0	0.0
1978	AN	230.1	230.1	0.0	0.0
1979	BN	622.4	622.4	0.0	0.0
1980	AN	347.2	347.2	0.0	0.0
1981	D	692.5	692.5	0.0	0.0
1982	W	269.5	269.5	0.0	0.0
1983	W	127.7	127.7	0.0	0.0
1984	W	607.0	607.0	0.0	0.0
1985	D	692.5	692.5	0.0	0.0
1986	W	343.2	343.2	0.0	0.0
1987	D	686.6	686.6	0.0	0.0
1988	C	679.2	679.2	0.0	0.0
1989	D	682.3	682.3	0.0	0.0
1990	C	682.7	682.7	0.0	0.0
1991	C	693.2	693.3	0.1	0.0
	Mean:	536.1	536.1	0.0	0.0
	Median:	663.8	663.8	0.0	0.0
	Min:	127.7	127.7	0.0	0.0
	Max:	693.2	693.3	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	626.8	626.8	0.0	0.0
1976	C	676.5	676.5	0.0	0.0
1977	C	876.0	876.2	0.2	0.0
1978	AN	605.0	605.0	0.0	0.0
1979	BN	703.9	703.9	0.0	0.0
1980	AN	445.3	445.3	0.0	0.0
1981	D	681.1	681.1	0.0	0.0
1982	W	513.8	513.8	0.0	0.0
1983	W	184.1	184.1	0.0	0.0
1984	W	702.3	702.3	0.0	0.0
1985	D	664.8	664.8	0.0	0.0
1986	W	651.6	651.6	0.0	0.0
1987	D	662.6	662.6	0.0	0.0
1988	C	785.4	785.5	0.1	0.0
1989	D	672.9	672.9	0.0	0.0
1990	C	708.2	708.2	0.0	0.0
1991	C	692.8	692.8	0.0	0.0
	Mean:	638.4	638.4	0.0	0.0
	Median:	672.9	672.9	0.0	0.0
	Min:	184.1	184.1	0.0	0.0
	Max:	876.0	876.2	0.2	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	671.9	671.9	0.0	0.0
1976	C	663.1	663.1	0.0	0.0
1977	C	1035.5	1035.6	0.1	0.0
1978	AN	700.9	700.9	0.0	0.0
1979	BN	700.3	700.3	0.0	0.0
1980	AN	632.7	632.7	0.0	0.0
1981	D	675.2	675.2	0.0	0.0
1982	W	698.8	698.8	0.0	0.0
1983	W	685.1	685.1	0.0	0.0
1984	W	699.1	699.1	0.0	0.0
1985	D	665.2	665.2	0.0	0.0
1986	W	692.4	692.4	0.0	0.0
1987	D	744.1	744.1	0.0	0.0
1988	C	1030.9	1031.0	0.2	0.0
1989	D	913.5	913.4	-0.2	0.0
1990	C	906.5	906.3	-0.2	0.0
1991	C	749.5	749.4	-0.1	0.0
	Mean:	756.7	756.7	0.0	0.0
	Median:	699.1	699.1	0.0	0.0
	Min:	632.7	632.7	-0.2	0.0
	Max:	1035.5	1035.6	0.2	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

San Joaquin River at Brandt Bridge Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	858.1	858.1	0.0	0.0
1976	C	1181.7	1181.7	0.0	0.0
1977	C	1171.9	1171.9	0.0	0.0
1978	AN	731.9	731.9	0.0	0.0
1979	BN	887.4	887.4	0.0	0.0
1980	AN	676.2	676.2	0.0	0.0
1981	D	987.8	987.8	0.0	0.0
1982	W	573.3	573.3	0.0	0.0
1983	W	415.8	415.8	0.0	0.0
1984	W	954.7	954.7	0.0	0.0
1985	D	989.3	989.3	0.0	0.0
1986	W	880.8	880.8	0.0	0.0
1987	D	1184.6	1184.6	0.0	0.0
1988	C	1197.9	1198.0	0.1	0.0
1989	D	1119.4	1119.4	0.0	0.0
1990	C	1102.2	1102.2	0.0	0.0
1991	C	983.3	983.3	0.0	0.0
	Mean:	935.1	935.1	0.0	0.0
	Median:	983.3	983.3	0.0	0.0
	Min:	415.8	415.8	0.0	0.0
	Max:	1197.9	1198.0	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the Middle River near old River under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	526	537	567	505	514	547	430	419	537	639	755	933
CEQA Modified Flow Alternative	524	537	567	505	514	547	430	419	537	639	755	933
Difference	-1.8	-0.4	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	-0.1	0.0
Percent Difference[3]	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	370	386	455	349	207	239	261	301	352	536	687	737
CEQA Modified Flow Alternative	370	386	455	349	207	239	261	301	352	536	687	737
Difference	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal												
CEQA No Project Alternative	668	678	613	249	178	256	262	305	290	526	667	705
CEQA Modified Flow Alternative	661	676	613	249	178	256	262	305	290	526	667	705
Difference	-7.4	-2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	-1.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal												
CEQA No Project Alternative	481	484	600	323	217	286	345	412	624	704	700	887
CEQA Modified Flow Alternative	473	482	600	323	217	286	345	412	624	704	700	887
Difference	-7.6	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	-1.6	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry												
CEQA No Project Alternative	555	585	599	634	722	719	530	484	690	671	751	1,069
CEQA Modified Flow Alternative	556	586	599	634	722	719	530	484	690	671	751	1,069
Difference	0.7	1.2	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0
Percent Difference	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical												
CEQA No Project Alternative	610	605	630	695	851	886	603	533	682	749	871	1,122
CEQA Modified Flow Alternative	608	604	630	695	851	886	604	534	682	749	870	1,122
Difference	-2.2	-1.1	0.0	0.0	0.0	0.0	0.4	0.6	0.0	0.0	-0.2	0.0
Percent Difference	-0.4	-0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Middle River near Old River Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	205.1	205.1	0.0	0.0
1976	C	434.5	433.2	-1.3	-0.3
1977	C	652.3	653.7	1.4	0.2
1978	AN	727.4	730.5	3.1	0.4
1979	BN	480.8	473.3	-7.6	-1.6
1980	AN	609.3	591.5	-17.8	-2.9
1981	D	444.6	444.2	-0.4	-0.1
1982	W	625.0	624.6	-0.4	-0.1
1983	W	200.4	200.4	0.0	0.0
1984	W	203.2	203.2	0.0	0.0
1985	D	580.3	580.1	-0.2	0.0
1986	W	615.6	615.9	0.3	0.0
1987	D	510.9	508.2	-2.7	-0.5
1988	C	683.6	678.7	-4.9	-0.7
1989	D	685.1	691.2	6.1	0.9
1990	C	619.4	617.2	-2.2	-0.4
1991	C	661.4	657.3	-4.1	-0.6
	Mean:	525.8	524.0	-1.8	-0.3
	Median:	609.3	591.5	-0.4	-0.1
	Min:	200.4	200.4	-17.8	-2.9
	Max:	727.4	730.5	6.1	0.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	403.7	403.7	0.0	0.0
1976	C	388.0	388.1	0.2	0.1
1977	C	592.5	592.9	0.5	0.1
1978	AN	809.0	811.4	2.3	0.3
1979	BN	483.5	481.8	-1.7	-0.4
1980	AN	546.8	540.1	-6.7	-1.2
1981	D	479.3	479.1	-0.2	0.0
1982	W	520.8	520.8	0.0	0.0
1983	W	257.3	257.3	0.0	0.0
1984	W	169.0	169.0	0.0	0.0
1985	D	585.0	587.2	2.2	0.4
1986	W	577.6	577.9	0.3	0.1
1987	D	525.5	523.3	-2.2	-0.4
1988	C	658.6	656.9	-1.7	-0.3
1989	D	751.4	756.2	4.7	0.6
1990	C	601.7	601.0	-0.7	-0.1
1991	C	783.3	779.4	-3.8	-0.5
	Mean:	537.2	536.8	-0.4	-0.1
	Median:	546.8	540.1	0.0	0.0
	Min:	169.0	169.0	-6.7	-1.2
	Max:	809.0	811.4	4.7	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	591.2	591.2	0.0	0.0
1976	C	580.7	580.7	0.0	0.0
1977	C	586.5	586.5	0.0	0.0
1978	AN	657.9	657.9	0.0	0.0
1979	BN	600.0	600.0	0.0	0.0
1980	AN	568.5	568.5	0.0	0.0
1981	D	591.8	591.8	0.0	0.0
1982	W	732.0	732.0	0.0	0.0
1983	W	121.8	121.8	0.0	0.0
1984	W	115.3	115.3	0.0	0.0
1985	D	591.1	591.1	0.0	0.0
1986	W	712.3	712.3	0.0	0.0
1987	D	602.9	602.9	0.0	0.0
1988	C	699.1	699.1	0.0	0.0
1989	D	610.9	610.9	0.0	0.0
1990	C	660.2	660.2	0.0	0.0
1991	C	621.1	621.1	0.0	0.0
	Mean:	567.2	567.2	0.0	0.0
	Median:	600.0	600.0	0.0	0.0
	Min:	115.3	115.3	0.0	0.0
	Max:	732.0	732.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	616.4	616.4	0.0	0.0
1976	C	639.4	639.4	0.0	0.0
1977	C	721.2	721.2	0.0	0.0
1978	AN	353.7	353.7	0.0	0.0
1979	BN	323.3	323.3	0.0	0.0
1980	AN	144.4	144.4	0.0	0.0
1981	D	560.7	560.7	0.0	0.0
1982	W	260.1	260.1	0.0	0.0
1983	W	114.3	114.3	0.0	0.0
1984	W	138.7	138.7	0.0	0.0
1985	D	638.7	638.7	0.0	0.0
1986	W	616.4	616.4	0.0	0.0
1987	D	647.6	647.6	0.0	0.0
1988	C	713.7	713.7	0.0	0.0
1989	D	687.2	687.3	0.0	0.0
1990	C	702.9	703.0	0.1	0.0
1991	C	697.7	697.7	0.0	0.0
	Mean:	504.5	504.5	0.0	0.0
	Median:	616.4	616.4	0.0	0.0
	Min:	114.3	114.3	0.0	0.0
	Max:	721.2	721.2	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	342.7	342.7	0.0	0.0
1976	C	742.6	742.6	0.0	0.0
1977	C	900.3	900.3	0.0	0.0
1978	AN	238.7	238.7	0.0	0.0
1979	BN	216.9	216.9	0.0	0.0
1980	AN	117.6	117.6	0.0	0.0
1981	D	615.2	615.2	0.0	0.0
1982	W	179.0	179.0	0.0	0.0
1983	W	105.6	105.6	0.0	0.0
1984	W	230.0	230.0	0.0	0.0
1985	D	715.4	715.4	0.0	0.0
1986	W	176.1	176.1	0.0	0.0
1987	D	732.9	732.9	0.0	0.0
1988	C	885.7	885.7	0.0	0.0
1989	D	822.5	822.5	0.0	0.0
1990	C	848.8	848.8	0.0	0.0
1991	C	875.6	875.6	0.0	0.0
	Mean:	514.5	514.5	0.0	0.0
	Median:	615.2	615.2	0.0	0.0
	Min:	105.6	105.6	0.0	0.0
	Max:	900.3	900.3	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	288.4	288.4	0.0	0.0
1976	C	844.1	844.1	0.0	0.0
1977	C	1016.0	1016.0	0.0	0.0
1978	AN	294.9	294.9	0.0	0.0
1979	BN	286.4	286.4	0.0	0.0
1980	AN	217.2	217.2	0.0	0.0
1981	D	510.8	510.8	0.0	0.0
1982	W	226.1	226.1	0.0	0.0
1983	W	138.3	138.3	0.0	0.0
1984	W	377.1	377.1	0.0	0.0
1985	D	744.3	744.3	0.0	0.0
1986	W	167.5	167.5	0.0	0.0
1987	D	788.0	788.0	0.0	0.0
1988	C	1012.1	1012.1	0.0	0.0
1989	D	831.3	831.3	0.0	0.0
1990	C	939.9	939.9	0.0	0.0
1991	C	618.8	618.8	0.0	0.0
	Mean:	547.1	547.1	0.0	0.0
	Median:	510.8	510.8	0.0	0.0
	Min:	138.3	138.3	0.0	0.0
	Max:	1016.0	1016.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	333.0	333.0	0.0	0.0
1976	C	575.3	576.4	1.1	0.2
1977	C	718.1	718.1	0.0	0.0
1978	AN	215.0	215.0	0.0	0.0
1979	BN	345.3	345.3	0.0	0.0
1980	AN	309.8	309.8	0.0	0.0
1981	D	459.8	459.9	0.1	0.0
1982	W	155.6	155.6	0.0	0.0
1983	W	170.1	170.1	0.0	0.0
1984	W	422.3	422.3	0.0	0.0
1985	D	559.0	559.0	0.0	0.0
1986	W	225.7	225.7	0.0	0.0
1987	D	576.3	576.3	0.0	0.0
1988	C	625.1	625.1	0.0	0.0
1989	D	524.8	524.5	-0.3	-0.1
1990	C	610.7	611.6	0.9	0.1
1991	C	487.8	487.8	0.0	0.0
	Mean:	430.2	430.3	0.1	0.0
	Median:	459.8	459.9	0.0	0.0
	Min:	155.6	155.6	-0.3	-0.1
	Max:	718.1	718.1	1.1	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	401.8	401.8	0.0	0.0
1976	C	511.3	512.9	1.6	0.3
1977	C	627.5	627.5	0.0	0.0
1978	AN	223.7	223.7	0.0	0.0
1979	BN	412.4	412.4	0.0	0.0
1980	AN	386.2	386.2	0.0	0.0
1981	D	488.9	489.0	0.0	0.0
1982	W	187.8	187.8	0.0	0.0
1983	W	168.5	168.5	0.0	0.0
1984	W	456.3	456.3	0.0	0.0
1985	D	524.8	524.7	-0.1	0.0
1986	W	289.5	289.5	0.0	0.0
1987	D	483.8	484.0	0.1	0.0
1988	C	541.5	541.8	0.3	0.1
1989	D	438.6	438.3	-0.3	-0.1
1990	C	501.2	502.3	1.1	0.2
1991	C	484.0	484.1	0.1	0.0
	Mean:	419.3	419.5	0.2	0.0
	Median:	456.3	456.3	0.0	0.0
	Min:	168.5	168.5	-0.3	-0.1
	Max:	627.5	627.5	1.6	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	409.3	409.3	0.0	0.0
1976	C	686.7	686.7	0.0	0.0
1977	C	665.6	665.6	0.1	0.0
1978	AN	230.9	230.9	0.0	0.0
1979	BN	623.7	623.7	0.0	0.0
1980	AN	348.5	348.5	0.0	0.0
1981	D	693.9	693.9	0.0	0.0
1982	W	270.3	270.3	0.0	0.0
1983	W	128.1	128.1	0.0	0.0
1984	W	608.5	608.5	0.0	0.0
1985	D	693.7	693.7	0.0	0.0
1986	W	344.4	344.4	0.0	0.0
1987	D	687.7	687.7	0.0	0.0
1988	C	680.6	680.7	0.1	0.0
1989	D	683.7	683.7	0.0	0.0
1990	C	684.1	684.1	0.0	0.0
1991	C	694.2	694.2	0.0	0.0
	Mean:	537.3	537.3	0.0	0.0
	Median:	665.6	665.6	0.0	0.0
	Min:	128.1	128.1	0.0	0.0
	Max:	694.2	694.2	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	627.3	627.3	0.0	0.0
1976	C	676.7	676.7	0.0	0.0
1977	C	880.4	880.3	-0.1	0.0
1978	AN	606.0	606.0	0.0	0.0
1979	BN	704.1	704.1	0.0	0.0
1980	AN	446.5	446.5	0.0	0.0
1981	D	681.1	681.1	0.0	0.0
1982	W	514.9	514.9	0.0	0.0
1983	W	184.7	184.7	0.0	0.0
1984	W	702.9	702.9	0.0	0.0
1985	D	664.9	664.9	0.0	0.0
1986	W	652.4	652.5	0.0	0.0
1987	D	663.0	663.0	0.0	0.0
1988	C	786.7	786.7	0.0	0.0
1989	D	673.2	673.2	0.0	0.0
1990	C	708.8	708.8	0.0	0.0
1991	C	692.9	692.9	0.0	0.0
	Mean:	639.2	639.2	0.0	0.0
	Median:	673.2	673.2	0.0	0.0
	Min:	184.7	184.7	-0.1	0.0
	Max:	880.4	880.3	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	672.0	672.0	0.0	0.0
1976	C	663.3	663.3	0.0	0.0
1977	C	1024.0	1023.5	-0.5	0.0
1978	AN	701.2	701.2	0.0	0.0
1979	BN	700.3	700.3	0.0	0.0
1980	AN	633.6	633.6	0.0	0.0
1981	D	675.6	675.6	0.0	0.0
1982	W	699.4	699.4	0.0	0.0
1983	W	673.9	673.9	0.0	0.0
1984	W	699.3	699.3	0.0	0.0
1985	D	665.6	665.6	0.0	0.0
1986	W	692.6	692.6	0.0	0.0
1987	D	744.6	744.6	0.0	0.0
1988	C	1013.3	1012.3	-1.0	-0.1
1989	D	919.2	919.3	0.1	0.0
1990	C	903.5	903.7	0.3	0.0
1991	C	749.5	749.6	0.1	0.0
	Mean:	754.8	754.7	-0.1	0.0
	Median:	699.4	699.4	0.0	0.0
	Min:	633.6	633.6	-1.0	-0.1
	Max:	1024.0	1023.5	0.3	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Middle River near Old River Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	858.2	858.2	0.0	0.0
1976	C	1177.0	1177.0	0.0	0.0
1977	C	1164.3	1164.2	-0.1	0.0
1978	AN	732.5	732.5	0.0	0.0
1979	BN	886.8	886.8	0.0	0.0
1980	AN	676.8	676.8	0.0	0.0
1981	D	987.0	987.0	0.0	0.0
1982	W	573.2	573.2	0.0	0.0
1983	W	415.5	415.5	0.0	0.0
1984	W	954.5	954.5	0.0	0.0
1985	D	988.3	988.3	0.0	0.0
1986	W	881.2	881.2	0.0	0.0
1987	D	1182.4	1182.4	0.0	0.0
1988	C	1190.3	1190.0	-0.2	0.0
1989	D	1117.9	1117.9	0.0	0.0
1990	C	1099.8	1099.9	0.1	0.0
1991	C	979.7	979.9	0.2	0.0
	Mean:	933.3	933.3	0.0	0.0
	Median:	979.7	979.9	0.0	0.0
	Min:	415.5	415.5	-0.2	0.0
	Max:	1190.3	1190.0	0.2	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the Old River at Tracy Road Bridge under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	765.5	619.7	577.2	540.7	531.1	560.8	455.5	380.3	533.1	634.5	718.4	860.0
CEQA Modified Flow Alternative	764.8	618.2	577.1	540.7	531.2	560.9	455.5	380.5	532.4	634.3	717.7	859.4
Difference	-0.8	-1.4	0.0	0.0	0.1	0.0	0.0	0.3	-0.7	-0.2	-0.6	-0.6
Percent Difference[3]	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.0	-0.1	-0.1
Water Year Types[1]												
Wet												
CEQA No Project Alternative	468.1	428.1	458.8	391.7	235.2	256.6	271.1	282.1	355.4	531.8	679.0	719.6
CEQA Modified Flow Alternative	468.4	428.2	458.8	391.7	235.2	256.6	271.1	282.1	355.4	531.8	679.0	719.6
Difference	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
Percent Difference	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal												
CEQA No Project Alternative	943.2	802.4	633.1	310.5	209.8	275.5	269.4	290.9	296.5	523.7	657.9	706.4
CEQA Modified Flow Alternative	941.1	796.1	633.0	310.2	209.8	275.5	269.4	290.9	296.5	523.6	657.9	706.4
Difference	-2.1	-6.3	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	-0.2	-0.8	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal												
CEQA No Project Alternative	675.6	558.7	605.0	400.6	241.2	294.5	350.0	352.3	615.8	701.7	701.7	850.1
CEQA Modified Flow Alternative	669.5	550.0	604.6	400.5	241.2	294.5	350.0	352.3	615.8	701.7	701.7	850.3
Difference	-6.1	-8.7	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Percent Difference	-0.9	-1.6	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry												
CEQA No Project Alternative	822.7	659.5	610.9	660.4	733.9	733.2	555.7	414.2	680.4	677.0	736.0	944.1
CEQA Modified Flow Alternative	823.0	660.3	611.0	660.5	734.5	733.2	555.7	414.1	680.4	677.0	736.2	943.9
Difference	0.2	0.8	0.1	0.1	0.6	0.1	0.0	-0.1	0.0	0.0	0.2	-0.2
Percent Difference	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical												
CEQA No Project Alternative	964.1	718.4	640.7	714.0	851.1	894.7	655.2	492.6	671.0	734.0	771.1	996.6
CEQA Modified Flow Alternative	963.1	717.1	640.6	714.0	851.1	894.7	655.3	493.6	668.7	733.3	768.9	994.7
Difference	-1.0	-1.4	-0.1	0.0	0.0	0.0	0.2	0.9	-2.3	-0.7	-2.3	-1.9
Percent Difference	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.2	-0.3	-0.1	-0.3	-0.2

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Old River at Tracy Road Bridge Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	81.7	81.7	0.0	0.0
1976	C	764.4	763.8	-0.6	-0.1
1977	C	1044.0	1042.3	-1.7	-0.2
1978	AN	1049.7	1051.3	1.7	0.2
1979	BN	675.6	669.5	-6.1	-0.9
1980	AN	836.7	830.8	-5.9	-0.7
1981	D	623.2	622.8	-0.4	-0.1
1982	W	917.5	917.5	0.0	0.0
1983	W	223.2	223.1	-0.1	0.0
1984	W	212.5	212.5	0.0	0.0
1985	D	881.6	881.5	-0.1	0.0
1986	W	905.4	907.2	1.8	0.2
1987	D	772.3	770.0	-2.3	-0.3
1988	C	1080.0	1078.5	-1.5	-0.1
1989	D	1013.9	1017.5	3.6	0.4
1990	C	939.1	939.2	0.1	0.0
1991	C	993.1	991.8	-1.3	-0.1
	Mean:	765.5	764.8	-0.8	-0.1
	Median:	881.6	881.5	-0.1	0.0
	Min:	81.7	81.7	-6.1	-0.9
	Max:	1080.0	1078.5	3.6	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	293.0	293.0	0.0	0.0
1976	C	473.9	473.1	-0.8	-0.2
1977	C	773.9	775.1	1.2	0.2
1978	AN	928.5	931.0	2.5	0.3
1979	BN	558.7	550.0	-8.7	-1.6
1980	AN	676.2	661.2	-15.1	-2.2
1981	D	506.9	506.3	-0.6	-0.1
1982	W	688.6	688.2	-0.4	-0.1
1983	W	284.0	284.0	0.0	0.0
1984	W	174.5	174.5	0.0	0.0
1985	D	700.9	701.6	0.8	0.1
1986	W	700.6	701.4	0.8	0.1
1987	D	587.0	583.9	-3.1	-0.5
1988	C	775.0	771.8	-3.2	-0.4
1989	D	843.2	849.1	5.9	0.7
1990	C	695.5	694.0	-1.6	-0.2
1991	C	873.9	871.4	-2.4	-0.3
	Mean:	619.7	618.2	-1.5	-0.2
	Median:	688.6	688.2	-0.4	-0.1
	Min:	174.5	174.5	-15.1	-2.2
	Max:	928.5	931.0	5.9	0.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	585.8	585.8	0.0	0.0
1976	C	576.8	576.8	0.0	0.0
1977	C	598.6	598.7	0.0	0.0
1978	AN	682.2	682.7	0.5	0.1
1979	BN	605.0	604.6	-0.4	-0.1
1980	AN	584.0	583.3	-0.7	-0.1
1981	D	592.7	592.6	-0.1	0.0
1982	W	733.8	733.8	0.0	0.0
1983	W	129.6	129.6	0.0	0.0
1984	W	129.8	129.8	0.0	0.0
1985	D	609.1	609.4	0.2	0.0
1986	W	714.8	714.9	0.0	0.0
1987	D	606.2	606.0	-0.1	0.0
1988	C	709.1	709.0	-0.1	0.0
1989	D	635.6	636.0	0.4	0.1
1990	C	664.0	664.0	0.0	0.0
1991	C	654.8	654.5	-0.4	-0.1
	Mean:	577.2	577.1	0.0	0.0
	Median:	606.2	606.0	0.0	0.0
	Min:	129.6	129.6	-0.7	-0.1
	Max:	733.8	733.8	0.5	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	637.8	637.8	0.0	0.0
1976	C	656.4	656.4	0.0	0.0
1977	C	733.9	733.9	0.0	0.0
1978	AN	441.9	441.3	-0.6	-0.1
1979	BN	400.5	400.5	0.0	0.0
1980	AN	179.1	179.0	0.0	0.0
1981	D	594.9	594.9	0.0	0.0
1982	W	337.2	337.3	0.1	0.0
1983	W	183.2	183.2	0.0	0.0
1984	W	150.6	150.6	0.0	0.0
1985	D	662.8	662.9	0.1	0.0
1986	W	649.7	649.7	0.0	0.0
1987	D	672.8	672.7	0.0	0.0
1988	C	740.3	740.3	0.0	0.0
1989	D	711.2	711.3	0.1	0.0
1990	C	722.6	722.7	0.1	0.0
1991	C	716.8	716.8	0.0	0.0
	Mean:	540.7	540.7	0.0	0.0
	Median:	649.7	649.7	0.0	0.0
	Min:	150.6	150.6	-0.6	-0.1
	Max:	740.3	740.3	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	372.8	372.8	0.0	0.0
1976	C	750.3	750.4	0.0	0.0
1977	C	897.8	897.8	0.0	0.0
1978	AN	272.3	272.3	0.0	0.0
1979	BN	241.2	241.2	0.0	0.0
1980	AN	147.3	147.3	0.0	0.0
1981	D	634.1	634.2	0.0	0.0
1982	W	190.3	190.3	0.0	0.0
1983	W	126.0	125.7	-0.2	-0.2
1984	W	241.6	241.6	0.0	0.0
1985	D	726.2	728.5	2.3	0.3
1986	W	245.6	245.7	0.1	0.0
1987	D	750.1	750.1	0.0	0.0
1988	C	882.6	882.6	0.0	0.0
1989	D	825.2	825.2	0.0	0.0
1990	C	851.4	851.4	0.0	0.0
1991	C	873.4	873.3	0.0	0.0
	Mean:	531.1	531.2	0.1	0.0
	Median:	634.1	634.2	0.0	0.0
	Min:	126.0	125.7	-0.2	-0.2
	Max:	897.8	897.8	2.3	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	296.5	296.5	0.0	0.0
1976	C	853.7	853.7	0.0	0.0
1977	C	1018.9	1018.9	0.0	0.0
1978	AN	323.6	323.7	0.0	0.0
1979	BN	294.5	294.5	0.0	0.0
1980	AN	227.3	227.3	0.0	0.0
1981	D	529.1	529.1	0.0	0.0
1982	W	246.6	246.6	0.0	0.0
1983	W	175.7	175.9	0.1	0.1
1984	W	387.1	387.1	0.0	0.0
1985	D	755.4	755.7	0.2	0.0
1986	W	176.9	176.9	0.0	0.0
1987	D	807.6	807.6	0.0	0.0
1988	C	1011.5	1011.5	0.0	0.0
1989	D	840.6	840.6	0.0	0.0
1990	C	946.4	946.4	0.0	0.0
1991	C	642.9	642.9	0.0	0.0
	Mean:	560.8	560.9	0.0	0.0
	Median:	529.1	529.1	0.0	0.0
	Min:	175.7	175.9	0.0	0.0
	Max:	1018.9	1018.9	0.2	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	352.5	352.5	0.0	0.0
1976	C	634.1	634.5	0.4	0.1
1977	C	741.0	741.0	0.0	0.0
1978	AN	224.2	224.2	0.0	0.0
1979	BN	350.0	350.0	0.0	0.0
1980	AN	314.5	314.6	0.0	0.0
1981	D	467.8	467.8	0.0	0.0
1982	W	158.1	158.1	0.0	0.0
1983	W	178.1	178.2	0.1	0.1
1984	W	430.9	430.9	0.0	0.0
1985	D	575.1	575.1	0.0	0.0
1986	W	235.6	235.6	0.0	0.0
1987	D	595.0	595.0	0.0	0.0
1988	C	711.7	711.7	0.0	0.0
1989	D	584.9	584.8	-0.1	0.0
1990	C	668.1	668.6	0.5	0.1
1991	C	520.9	520.9	0.0	0.0
	Mean:	455.5	455.5	0.1	0.0
	Median:	467.8	467.8	0.0	0.0
	Min:	158.1	158.1	-0.1	0.0
	Max:	741.0	741.0	0.5	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	352.2	352.2	0.0	0.0
1976	C	480.7	482.6	1.9	0.4
1977	C	603.8	603.8	0.0	0.0
1978	AN	239.9	239.9	0.0	0.0
1979	BN	352.3	352.3	0.0	0.0
1980	AN	341.8	341.8	0.0	0.0
1981	D	413.1	413.2	0.2	0.0
1982	W	192.2	192.3	0.1	0.1
1983	W	172.0	172.0	0.0	0.0
1984	W	388.8	388.8	0.0	0.0
1985	D	453.3	453.1	-0.2	0.0
1986	W	305.2	305.2	0.0	0.0
1987	D	432.9	432.8	0.0	0.0
1988	C	475.6	476.2	0.6	0.1
1989	D	357.6	357.4	-0.2	-0.1
1990	C	486.8	488.8	2.0	0.4
1991	C	416.3	416.5	0.2	0.0
	Mean:	380.3	380.5	0.3	0.1
	Median:	388.8	388.8	0.0	0.0
	Min:	172.0	172.0	-0.2	-0.1
	Max:	603.8	603.8	2.0	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	418.5	418.5	0.0	0.0
1976	C	684.8	684.9	0.1	0.0
1977	C	668.5	668.0	-0.5	-0.1
1978	AN	235.4	235.4	0.0	0.0
1979	BN	615.8	615.8	0.0	0.0
1980	AN	357.6	357.6	0.0	0.0
1981	D	682.8	682.8	-0.1	0.0
1982	W	273.7	273.7	0.0	0.0
1983	W	130.4	130.4	0.0	0.0
1984	W	603.7	603.7	0.0	0.0
1985	D	682.2	682.1	0.0	0.0
1986	W	350.8	350.8	0.0	0.0
1987	D	685.7	685.8	0.1	0.0
1988	C	668.9	666.9	-2.0	-0.3
1989	D	670.8	670.8	0.0	0.0
1990	C	663.5	659.7	-3.9	-0.6
1991	C	669.3	663.9	-5.4	-0.8
	Mean:	533.1	532.4	-0.7	-0.1
	Median:	663.5	659.7	0.0	0.0
	Min:	130.4	130.4	-5.4	-0.8
	Max:	685.7	685.8	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	618.8	618.8	0.0	0.0
1976	C	682.4	682.4	0.0	0.0
1977	C	814.2	812.6	-1.5	-0.2
1978	AN	594.3	594.3	0.0	0.0
1979	BN	701.7	701.7	0.0	0.0
1980	AN	453.0	453.0	0.0	0.0
1981	D	686.7	686.7	0.0	0.0
1982	W	514.6	514.2	-0.3	-0.1
1983	W	188.5	188.5	0.0	0.0
1984	W	699.1	699.1	0.0	0.0
1985	D	673.0	673.0	0.0	0.0
1986	W	638.0	638.1	0.1	0.0
1987	D	670.2	670.2	0.1	0.0
1988	C	767.9	766.3	-1.6	-0.2
1989	D	678.1	678.1	0.0	0.0
1990	C	707.8	707.3	-0.5	-0.1
1991	C	697.9	697.8	-0.1	0.0
	Mean:	634.5	634.3	-0.2	0.0
	Median:	678.1	678.1	0.0	0.0
	Min:	188.5	188.5	-1.6	-0.2
	Max:	814.2	812.6	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	670.0	670.0	0.0	0.0
1976	C	668.0	668.1	0.0	0.0
1977	C	845.8	840.0	-5.8	-0.7
1978	AN	694.7	694.7	0.0	0.0
1979	BN	701.7	701.7	0.0	0.0
1980	AN	621.1	621.1	0.0	0.0
1981	D	677.3	677.3	0.0	0.0
1982	W	685.2	685.2	0.0	0.0
1983	W	649.1	649.1	0.0	0.0
1984	W	699.8	699.8	0.0	0.0
1985	D	667.3	667.3	0.0	0.0
1986	W	690.8	690.8	0.0	0.0
1987	D	729.6	729.6	0.0	0.0
1988	C	773.8	764.4	-9.4	-1.2
1989	D	869.7	870.4	0.7	0.1
1990	C	834.1	837.7	3.5	0.4
1991	C	733.9	734.2	0.3	0.0
	Mean:	718.4	717.7	-0.6	-0.1
	Median:	694.7	694.7	0.0	0.0
	Min:	621.1	621.1	-9.4	-1.2
	Max:	869.7	870.4	3.5	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Tracy Road Bridge Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	831.0	831.1	0.1	0.0
1976	C	898.2	896.7	-1.6	-0.2
1977	C	1067.9	1063.5	-4.4	-0.4
1978	AN	733.7	733.7	0.0	0.0
1979	BN	850.1	850.3	0.2	0.0
1980	AN	679.1	679.1	0.0	0.0
1981	D	913.3	913.3	0.0	0.0
1982	W	588.0	588.0	0.0	0.0
1983	W	428.5	428.5	0.0	0.0
1984	W	911.9	911.8	0.0	0.0
1985	D	883.9	882.4	-1.5	-0.2
1986	W	838.5	838.5	0.0	0.0
1987	D	1055.2	1055.1	-0.1	0.0
1988	C	1089.2	1082.9	-6.3	-0.6
1989	D	924.1	924.9	0.8	0.1
1990	C	1022.0	1023.3	1.3	0.1
1991	C	905.7	907.1	1.4	0.2
	Mean:	860.0	859.4	-0.6	-0.1
	Median:	898.2	896.7	0.0	0.0
	Min:	428.5	428.5	-6.3	-0.6
	Max:	1089.2	1082.9	1.4	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the Old River at Hwy 4 (CCWD Los Vaqueros) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	624.2	534.8	528.1	477.0	431.6	344.1	309.4	340.7	330.4	367.4	520.9	639.6
CEQA Modified Flow Alternative	619.1	534.2	529.8	482.7	440.6	346.1	309.8	341.2	337.8	372.2	512.4	626.2
Difference	-5.0	-0.6	1.7	5.8	9.0	2.0	0.4	0.6	7.4	4.8	-8.5	-13.4
Percent Difference[3]	-0.8	-0.1	0.3	1.2	2.1	0.6	0.1	0.2	2.2	1.3	-1.6	-2.1
Water Year Types[1]												
Wet												
CEQA No Project Alternative	409.4	346.4	364.6	322.0	294.2	238.4	234.3	259.2	237.0	223.6	282.4	418.6
CEQA Modified Flow Alternative	409.3	346.4	364.6	326.8	301.6	238.6	234.3	259.2	237.0	223.2	281.7	414.0
Difference	-0.1	0.1	0.0	4.7	7.4	0.2	0.0	0.0	0.0	-0.4	-0.7	-4.6
Percent Difference	0.0	0.0	0.0	1.5	2.5	0.1	0.0	0.0	0.0	-0.2	-0.3	-1.1
Above Normal												
CEQA No Project Alternative	886.3	678.1	553.7	429.4	371.7	384.5	284.8	306.7	268.7	232.7	339.5	574.6
CEQA Modified Flow Alternative	865.4	671.4	560.8	437.0	371.9	384.6	284.9	306.7	268.7	231.0	318.2	524.1
Difference	-20.9	-6.7	7.1	7.6	0.3	0.2	0.1	0.0	0.0	-1.7	-21.3	-50.4
Percent Difference	-2.4	-1.0	1.3	1.8	0.1	0.0	0.0	0.0	0.0	-0.7	-6.3	-8.8
Below Normal												
CEQA No Project Alternative	629.0	579.4	586.9	437.4	305.2	276.7	278.9	297.3	260.7	262.9	476.9	773.2
CEQA Modified Flow Alternative	601.4	573.4	584.8	437.1	305.3	276.9	279.0	297.4	260.7	258.8	439.6	697.3
Difference	-27.6	-6.0	-2.0	-0.3	0.1	0.2	0.1	0.0	0.0	-4.1	-37.3	-75.9
Percent Difference	-4.4	-1.0	-0.3	-0.1	0.0	0.1	0.1	0.0	0.0	-1.6	-7.8	-9.8
Dry												
CEQA No Project Alternative	661.4	638.8	533.1	444.0	458.6	322.4	294.9	357.6	328.1	429.8	653.4	778.8
CEQA Modified Flow Alternative	662.9	641.3	534.0	447.4	465.8	323.9	294.7	357.8	336.6	426.9	631.0	767.2
Difference	1.5	2.4	0.9	3.4	7.2	1.4	-0.2	0.2	8.4	-2.9	-22.4	-11.6
Percent Difference	0.2	0.4	0.2	0.8	1.6	0.4	-0.1	0.1	2.6	-0.7	-3.4	-1.5
Critical												
CEQA No Project Alternative	703.4	573.8	665.5	685.2	596.6	464.6	412.0	430.9	464.1	535.9	734.6	748.4
CEQA Modified Flow Alternative	699.0	573.5	668.2	694.4	613.9	469.8	413.6	432.7	482.5	556.5	740.4	752.1
Difference	-4.4	-0.3	2.7	9.2	17.3	5.2	1.6	1.8	18.4	20.7	5.7	3.6
Percent Difference	-0.6	0.0	0.4	1.3	2.9	1.1	0.4	0.4	4.0	3.9	0.8	0.5

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	116.3	116.3	0.0	0.0
1976	C	281.3	277.3	-3.9	-1.4
1977	C	820.7	825.2	4.5	0.5
1978	AN	947.5	955.3	7.8	0.8
1979	BN	629.0	601.4	-27.6	-4.4
1980	AN	825.0	775.6	-49.5	-6.0
1981	D	522.5	520.1	-2.3	-0.4
1982	W	735.8	734.9	-0.9	-0.1
1983	W	261.7	261.8	0.1	0.0
1984	W	230.0	230.0	0.1	0.0
1985	D	744.0	742.5	-1.5	-0.2
1986	W	703.1	703.3	0.2	0.0
1987	D	575.2	573.9	-1.2	-0.2
1988	C	821.7	813.7	-8.0	-1.0
1989	D	803.8	815.0	11.1	1.4
1990	C	722.9	717.1	-5.7	-0.8
1991	C	870.2	861.5	-8.7	-1.0
	Mean:	624.2	619.1	-5.0	-0.8
	Median:	722.9	717.1	-1.2	-0.2
	Min:	116.3	116.3	-49.5	-6.0
	Max:	947.5	955.3	11.1	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	335.3	335.2	0.0	0.0
1976	C	295.8	299.9	4.0	1.4
1977	C	644.9	646.0	1.1	0.2
1978	AN	780.8	781.6	0.8	0.1
1979	BN	579.4	573.4	-6.0	-1.0
1980	AN	575.4	561.2	-14.2	-2.5
1981	D	555.9	555.3	-0.6	-0.1
1982	W	443.9	444.0	0.1	0.0
1983	W	218.7	218.7	0.0	0.0
1984	W	180.7	180.7	0.0	0.0
1985	D	642.3	652.2	9.8	1.5
1986	W	553.4	553.6	0.2	0.0
1987	D	609.6	606.3	-3.2	-0.5
1988	C	575.6	574.2	-1.4	-0.2
1989	D	747.6	751.2	3.6	0.5
1990	C	546.4	545.1	-1.4	-0.3
1991	C	806.2	802.4	-3.8	-0.5
	Mean:	534.8	534.2	-0.6	-0.1
	Median:	575.4	561.2	0.0	0.0
	Min:	180.7	180.7	-14.2	-2.5
	Max:	806.2	802.4	9.8	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	589.6	589.1	-0.5	-0.1
1976	C	550.7	575.5	24.8	4.5
1977	C	742.7	743.2	0.4	0.1
1978	AN	665.5	667.5	2.0	0.3
1979	BN	586.9	584.8	-2.0	-0.3
1980	AN	441.9	454.2	12.2	2.8
1981	D	618.2	617.5	-0.7	-0.1
1982	W	229.8	229.8	-0.1	0.0
1983	W	300.1	300.1	0.0	0.0
1984	W	132.4	132.4	0.1	0.1
1985	D	270.9	275.7	4.8	1.8
1986	W	571.2	571.7	0.5	0.1
1987	D	643.0	641.0	-2.0	-0.3
1988	C	666.6	665.3	-1.3	-0.2
1989	D	600.3	601.7	1.3	0.2
1990	C	688.4	679.3	-9.1	-1.3
1991	C	679.1	677.9	-1.2	-0.2
	Mean:	528.1	529.8	1.7	0.4
	Median:	589.6	589.1	0.0	0.0
	Min:	132.4	132.4	-9.1	-1.3
	Max:	742.7	743.2	24.8	4.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	540.4	566.5	26.0	4.8
1976	C	627.0	664.0	37.0	5.9
1977	C	721.5	721.7	0.2	0.0
1978	AN	547.1	549.7	2.6	0.5
1979	BN	437.4	437.1	-0.3	-0.1
1980	AN	311.6	324.3	12.7	4.1
1981	D	401.8	409.2	7.5	1.9
1982	W	329.5	329.5	-0.1	0.0
1983	W	156.2	156.2	0.0	0.0
1984	W	161.8	161.6	-0.3	-0.2
1985	D	259.7	265.0	5.3	2.0
1986	W	422.2	420.1	-2.1	-0.5
1987	D	525.2	524.4	-0.7	-0.1
1988	C	557.6	555.5	-2.1	-0.4
1989	D	589.6	591.0	1.4	0.2
1990	C	861.0	872.7	11.7	1.4
1991	C	659.1	658.3	-0.9	-0.1
	Mean:	477.0	482.7	5.8	1.1
	Median:	525.2	524.4	0.2	0.0
	Min:	156.2	156.2	-2.1	-0.5
	Max:	861.0	872.7	37.0	5.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	447.9	486.6	38.7	8.6
1976	C	701.3	747.6	46.2	6.6
1977	C	718.1	718.2	0.1	0.0
1978	AN	395.1	395.0	-0.1	0.0
1979	BN	305.1	305.2	0.1	0.0
1980	AN	348.2	348.9	0.6	0.2
1981	D	314.7	328.3	13.6	4.3
1982	W	255.4	255.4	0.0	0.0
1983	W	121.6	121.6	0.0	0.0
1984	W	249.0	249.0	0.0	0.0
1985	D	398.2	412.5	14.4	3.6
1986	W	397.2	395.5	-1.7	-0.4
1987	D	589.2	588.8	-0.4	-0.1
1988	C	319.7	319.3	-0.3	-0.1
1989	D	532.3	533.5	1.2	0.2
1990	C	557.9	599.2	41.3	7.4
1991	C	686.0	685.3	-0.7	-0.1
	Mean:	431.6	440.6	9.0	1.8
	Median:	397.2	395.5	0.1	0.0
	Min:	121.6	121.6	-1.7	-0.4
	Max:	718.1	747.6	46.2	8.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	258.1	259.2	1.1	0.4
1976	C	473.1	487.5	14.4	3.0
1977	C	670.8	670.8	0.0	0.0
1978	AN	412.5	412.4	0.0	0.0
1979	BN	276.7	276.9	0.2	0.1
1980	AN	356.4	356.8	0.4	0.1
1981	D	251.8	254.4	2.5	1.0
1982	W	282.6	282.6	0.0	0.0
1983	W	159.8	159.7	0.0	0.0
1984	W	231.8	231.8	0.0	0.0
1985	D	356.2	360.8	4.5	1.3
1986	W	259.7	259.6	-0.1	0.0
1987	D	368.0	367.8	-0.1	0.0
1988	C	347.6	347.6	0.0	0.0
1989	D	313.6	312.5	-1.1	-0.4
1990	C	367.6	379.4	11.8	3.2
1991	C	463.9	463.7	-0.2	0.0
	Mean:	344.1	346.1	2.0	0.5
	Median:	347.6	347.6	0.0	0.0
	Min:	159.8	159.7	-1.1	-0.4
	Max:	670.8	670.8	14.4	3.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	254.1	254.2	0.1	0.0
1976	C	386.7	390.4	3.7	1.0
1977	C	600.4	600.4	0.0	0.0
1978	AN	286.0	286.0	0.0	0.0
1979	BN	278.9	279.0	0.2	0.1
1980	AN	283.6	283.7	0.1	0.0
1981	D	286.3	286.7	0.4	0.1
1982	W	167.2	167.2	0.0	0.0
1983	W	179.5	179.5	0.0	0.0
1984	W	268.5	268.5	0.0	0.0
1985	D	343.9	343.6	-0.4	-0.1
1986	W	302.3	302.2	-0.1	0.0
1987	D	314.8	314.8	0.0	0.0
1988	C	359.7	360.0	0.3	0.1
1989	D	234.4	233.6	-0.8	-0.3
1990	C	374.0	378.1	4.1	1.1
1991	C	339.3	339.3	0.0	0.0
	Mean:	309.4	309.8	0.4	0.1
	Median:	286.3	286.7	0.0	0.0
	Min:	167.2	167.2	-0.8	-0.3
	Max:	600.4	600.4	4.1	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	292.5	292.5	0.0	0.0
1976	C	443.8	447.7	3.9	0.9
1977	C	545.3	545.5	0.1	0.0
1978	AN	315.9	315.9	0.0	0.0
1979	BN	297.3	297.4	0.0	0.0
1980	AN	297.5	297.5	0.0	0.0
1981	D	351.7	352.3	0.6	0.2
1982	W	227.4	227.4	0.0	0.0
1983	W	175.2	175.2	0.0	0.0
1984	W	332.2	332.2	0.0	0.0
1985	D	390.2	390.0	-0.1	0.0
1986	W	268.5	268.5	0.0	0.0
1987	D	382.9	383.4	0.6	0.2
1988	C	423.1	424.1	1.1	0.3
1989	D	305.7	305.6	-0.1	0.0
1990	C	392.4	395.1	2.7	0.7
1991	C	349.7	350.9	1.3	0.4
	Mean:	340.7	341.2	0.6	0.2
	Median:	332.2	332.2	0.0	0.0
	Min:	175.2	175.2	-0.1	0.0
	Max:	545.3	545.5	3.9	0.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	248.0	248.0	0.0	0.0
1976	C	525.6	544.6	19.0	3.6
1977	C	585.4	594.5	9.0	1.5
1978	AN	265.8	265.8	0.0	0.0
1979	BN	260.7	260.7	0.0	0.0
1980	AN	271.6	271.6	0.0	0.0
1981	D	306.1	314.4	8.3	2.7
1982	W	239.8	239.8	0.0	0.0
1983	W	133.1	133.1	0.0	0.0
1984	W	293.6	293.7	0.0	0.0
1985	D	310.8	311.1	0.3	0.1
1986	W	270.6	270.6	0.0	0.0
1987	D	385.0	410.2	25.2	6.5
1988	C	441.8	456.0	14.3	3.2
1989	D	310.5	310.5	0.0	0.0
1990	C	409.6	439.0	29.4	7.2
1991	C	358.2	378.6	20.4	5.7
	Mean:	330.4	337.8	7.4	1.8
	Median:	306.1	310.5	0.0	0.0
	Min:	133.1	133.1	0.0	0.0
	Max:	585.4	594.5	29.4	7.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	213.3	212.8	-0.5	-0.2
1976	C	498.5	508.3	9.8	2.0
1977	C	578.7	595.6	16.9	2.9
1978	AN	225.9	225.9	-0.1	0.0
1979	BN	262.9	258.8	-4.1	-1.6
1980	AN	239.5	236.1	-3.4	-1.4
1981	D	456.9	456.2	-0.7	-0.2
1982	W	222.4	221.3	-1.0	-0.4
1983	W	192.1	192.1	0.0	0.0
1984	W	242.1	241.1	-1.1	-0.5
1985	D	466.9	467.0	0.1	0.0
1986	W	248.3	248.9	0.6	0.2
1987	D	392.1	382.4	-9.7	-2.5
1988	C	458.0	467.3	9.3	2.0
1989	D	403.5	402.0	-1.5	-0.4
1990	C	570.2	608.9	38.7	6.8
1991	C	573.8	602.6	28.7	5.0
	Mean:	367.4	372.2	4.8	0.7
	Median:	392.1	382.4	-0.1	0.0
	Min:	192.1	192.1	-9.7	-2.5
	Max:	578.7	608.9	38.7	6.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	313.5	304.0	-9.4	-3.0
1976	C	474.1	476.6	2.5	0.5
1977	C	759.8	767.6	7.8	1.0
1978	AN	358.7	329.2	-29.5	-8.2
1979	BN	476.9	439.6	-37.3	-7.8
1980	AN	320.3	307.3	-13.0	-4.1
1981	D	653.6	644.8	-8.8	-1.3
1982	W	296.9	299.3	2.4	0.8
1983	W	186.4	186.4	0.0	0.0
1984	W	295.6	296.6	1.0	0.3
1985	D	671.7	671.7	0.0	0.0
1986	W	319.6	322.1	2.6	0.8
1987	D	653.5	584.3	-69.2	-10.6
1988	C	770.8	772.5	1.7	0.2
1989	D	634.9	623.3	-11.6	-1.8
1990	C	794.7	805.3	10.6	1.3
1991	C	873.6	879.7	6.1	0.7
	Mean:	520.9	512.4	-8.5	-1.8
	Median:	476.9	476.6	0.0	0.0
	Min:	186.4	186.4	-69.2	-10.6
	Max:	873.6	879.7	10.6	1.3
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	416.1	389.6	-26.5	-6.4
1976	C	738.1	742.5	4.5	0.6
1977	C	866.0	876.9	10.9	1.3
1978	AN	664.5	569.5	-94.9	-14.3
1979	BN	773.2	697.3	-75.9	-9.8
1980	AN	484.7	478.7	-6.0	-1.2
1981	D	785.2	781.9	-3.3	-0.4
1982	W	394.1	397.0	2.9	0.7
1983	W	217.2	217.2	0.0	0.0
1984	W	596.8	597.1	0.4	0.1
1985	D	767.9	767.4	-0.5	-0.1
1986	W	468.7	469.2	0.5	0.1
1987	D	836.3	806.9	-29.4	-3.5
1988	C	683.5	698.5	15.0	2.2
1989	D	725.6	712.4	-13.2	-1.8
1990	C	730.3	721.0	-9.3	-1.3
1991	C	724.3	721.2	-3.1	-0.4
	Mean:	639.6	626.2	-13.4	-2.0
	Median:	724.3	698.5	-3.1	-0.4
	Min:	217.2	217.2	-94.9	-14.3
	Max:	866.0	876.9	15.0	2.2
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at CCWD Pumping Plant #1 (Rock Slough) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	724	613	602	611	531	432	399	325	316	402	606	728
CEQA Modified Flow Alternative	717	612	604	617	543	434	399	326	324	407	596	711
Difference	-7.3	-1.5	2.0	6.2	11.6	2.1	0.3	1.0	8.1	5.1	-10.0	-16.6
Percent Difference[3]	-1.0	-0.2	0.3	1.0	2.2	0.5	0.1	0.3	2.6	1.3	-1.6	-2.3
Water Year Types[1]												
Wet												
CEQA No Project Alternative	474	417	463	540	479	482	456	289	240	226	306	461
CEQA Modified Flow Alternative	474	417	463	545	490	482	455	289	240	227	305	456
Difference	-0.3	0.0	0.0	4.2	11.5	0.2	-0.3	0.0	0.0	0.6	-0.3	-5.7
Percent Difference	-0.1	0.0	0.0	0.8	2.4	0.0	-0.1	0.0	0.0	0.2	-0.1	-1.2
Above Normal												
CEQA No Project Alternative	1,048	783	612	665	546	461	389	302	257	234	375	653
CEQA Modified Flow Alternative	1,017	773	620	675	547	461	389	302	257	232	350	589
Difference	-30.5	-10.5	7.7	10.1	0.8	0.2	0.0	0.0	0.0	-1.7	-25.3	-63.5
Percent Difference	-2.9	-1.3	1.3	1.5	0.1	0.0	0.0	0.0	0.0	-0.7	-6.7	-9.7
Below Normal												
CEQA No Project Alternative	750	656	650	506	331	276	334	304	244	280	541	872
CEQA Modified Flow Alternative	709	647	647	506	331	277	334	304	244	276	497	782
Difference	-41.5	-8.4	-2.5	-0.4	0.2	0.3	0.3	0.1	0.0	-4.6	-44.4	-89.5
Percent Difference	-5.5	-1.3	-0.4	-0.1	0.0	0.1	0.1	0.0	0.0	-1.7	-8.2	-10.3
Dry												
CEQA No Project Alternative	750	743	592	497	499	328	323	310	289	479	754	887
CEQA Modified Flow Alternative	752	745	593	501	507	329	323	310	296	474	727	872
Difference	2.1	1.6	0.9	4.1	8.7	1.8	-0.3	0.5	7.2	-5.4	-27.0	-14.9
Percent Difference	0.3	0.2	0.1	0.8	1.7	0.5	-0.1	0.2	2.5	-1.1	-3.6	-1.7
Critical												
CEQA No Project Alternative	818	630	736	773	643	485	420	386	450	609	893	867
CEQA Modified Flow Alternative	812	629	740	782	664	491	422	388	472	631	900	872
Difference	-5.9	-0.6	3.7	9.5	20.6	5.4	1.4	2.9	21.8	22.7	7.0	4.3
Percent Difference	-0.7	-0.1	0.5	1.2	3.2	1.1	0.3	0.7	4.8	3.7	0.8	0.5

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

CCWD Pumping Plant #1 (Rock Slough) Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	94.5	94.5	0.0	0.0
1976	C	267.9	262.6	-5.2	-1.9
1977	C	988.1	994.3	6.3	0.6
1978	AN	1108.0	1117.7	9.7	0.9
1979	BN	750.1	708.6	-41.5	-5.5
1980	AN	987.1	916.5	-70.6	-7.2
1981	D	615.0	611.3	-3.7	-0.6
1982	W	904.5	903.0	-1.5	-0.2
1983	W	261.6	261.6	0.0	0.0
1984	W	268.8	268.8	0.0	0.0
1985	D	833.6	832.5	-1.1	-0.1
1986	W	842.5	842.4	0.0	0.0
1987	D	646.9	646.6	-0.3	0.0
1988	C	997.3	985.5	-11.9	-1.2
1989	D	905.0	918.6	13.6	1.5
1990	C	819.8	812.5	-7.3	-0.9
1991	C	1015.5	1004.4	-11.1	-1.1
	Mean:	723.9	716.6	-7.3	-0.9
	Median:	833.6	832.5	-1.1	-0.1
	Min:	94.5	94.5	-70.6	-7.2
	Max:	1108.0	1117.7	13.6	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	312.6	312.6	0.0	0.0
1976	C	276.0	279.6	3.7	1.3
1977	C	728.2	730.0	1.8	0.2
1978	AN	878.0	878.8	0.8	0.1
1979	BN	655.9	647.5	-8.4	-1.3
1980	AN	688.2	666.4	-21.9	-3.2
1981	D	612.5	611.6	-0.9	-0.1
1982	W	569.2	569.0	-0.1	0.0
1983	W	297.9	298.0	0.1	0.0
1984	W	289.1	289.2	0.0	0.0
1985	D	840.6	847.0	6.4	0.8
1986	W	615.4	615.5	0.2	0.0
1987	D	680.4	676.7	-3.7	-0.5
1988	C	624.6	622.4	-2.2	-0.4
1989	D	840.3	844.8	4.4	0.5
1990	C	584.5	582.7	-1.7	-0.3
1991	C	935.3	930.9	-4.4	-0.5
	Mean:	613.4	611.9	-1.5	-0.2
	Median:	624.6	622.4	0.0	0.0
	Min:	276.0	279.6	-21.9	-3.2
	Max:	935.3	930.9	6.4	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	666.3	665.8	-0.5	-0.1
1976	C	612.8	641.9	29.1	4.7
1977	C	872.0	872.5	0.6	0.1
1978	AN	734.1	735.6	1.5	0.2
1979	BN	649.7	647.2	-2.5	-0.4
1980	AN	490.4	504.2	13.8	2.8
1981	D	702.1	701.4	-0.7	-0.1
1982	W	221.7	221.7	-0.1	0.0
1983	W	408.8	408.9	0.1	0.0
1984	W	358.2	358.3	0.0	0.0
1985	D	269.0	274.7	5.7	2.1
1986	W	657.9	658.3	0.4	0.1
1987	D	746.7	743.8	-2.9	-0.4
1988	C	752.7	751.4	-1.3	-0.2
1989	D	650.2	651.7	1.5	0.2
1990	C	742.4	733.8	-8.6	-1.2
1991	C	699.3	697.9	-1.3	-0.2
	Mean:	602.0	604.1	2.0	0.4
	Median:	657.9	658.3	0.0	0.0
	Min:	221.7	221.7	-8.6	-1.2
	Max:	872.0	872.5	29.1	4.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	606.3	629.9	23.6	3.9
1976	C	711.2	753.3	42.1	5.9
1977	C	828.8	828.9	0.2	0.0
1978	AN	987.8	991.5	3.7	0.4
1979	BN	506.1	505.8	-0.4	-0.1
1980	AN	341.2	357.8	16.5	4.8
1981	D	435.4	444.4	9.0	2.1
1982	W	477.5	477.4	-0.1	0.0
1983	W	886.3	886.3	0.0	0.0
1984	W	265.6	265.4	-0.2	-0.1
1985	D	261.3	267.7	6.4	2.4
1986	W	466.1	463.7	-2.4	-0.5
1987	D	611.6	610.7	-0.9	-0.1
1988	C	624.0	621.6	-2.4	-0.4
1989	D	678.1	679.8	1.7	0.3
1990	C	1010.3	1019.3	9.0	0.9
1991	C	689.5	688.2	-1.3	-0.2
	Mean:	611.0	617.2	6.1	1.1
	Median:	611.6	621.6	0.2	0.0
	Min:	261.3	265.4	-2.4	-0.5
	Max:	1010.3	1019.3	42.1	5.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	588.6	648.4	59.7	10.1
1976	C	806.7	861.9	55.2	6.8
1977	C	760.0	760.1	0.1	0.0
1978	AN	451.2	451.0	-0.2	0.0
1979	BN	330.6	330.8	0.2	0.1
1980	AN	640.5	642.2	1.7	0.3
1981	D	320.7	337.1	16.4	5.1
1982	W	315.6	315.7	0.0	0.0
1983	W	728.4	728.3	0.0	0.0
1984	W	275.7	275.7	0.0	0.0
1985	D	435.4	453.0	17.7	4.1
1986	W	485.3	483.3	-2.0	-0.4
1987	D	683.7	683.2	-0.5	-0.1
1988	C	294.3	294.0	-0.3	-0.1
1989	D	554.9	556.2	1.3	0.2
1990	C	622.8	671.9	49.1	7.9
1991	C	731.2	730.3	-0.9	-0.1
	Mean:	530.9	542.5	11.6	2.0
	Median:	554.9	556.2	0.1	0.0
	Min:	275.7	275.7	-2.0	-0.4
	Max:	806.7	861.9	59.7	10.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

CCWD Pumping Plant #1 (Rock Slough) Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	325.1	326.7	1.6	0.5
1976	C	530.4	545.8	15.4	2.9
1977	C	642.3	642.3	0.0	0.0
1978	AN	517.4	517.3	-0.1	0.0
1979	BN	276.4	276.7	0.3	0.1
1980	AN	404.6	405.1	0.5	0.1
1981	D	230.2	233.1	2.9	1.3
1982	W	438.9	438.9	0.0	0.0
1983	W	792.8	792.9	0.1	0.0
1984	W	252.6	252.6	0.0	0.0
1985	D	361.4	366.9	5.5	1.5
1986	W	601.0	600.5	-0.6	-0.1
1987	D	366.0	365.9	-0.1	0.0
1988	C	299.3	299.3	0.0	0.0
1989	D	352.8	351.8	-1.0	-0.3
1990	C	381.1	393.1	12.0	3.1
1991	C	573.6	573.3	-0.3	-0.1
	Mean:	432.1	434.2	2.1	0.5
	Median:	381.1	393.1	0.0	0.0
	Min:	230.2	233.1	-1.0	-0.3
	Max:	792.8	792.9	15.4	3.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	337.0	336.6	-0.4	-0.1
1976	C	465.7	469.5	3.8	0.8
1977	C	554.8	554.8	0.0	0.0
1978	AN	447.1	447.1	0.0	0.0
1979	BN	333.8	334.1	0.3	0.1
1980	AN	331.2	331.2	0.0	0.0
1981	D	306.8	307.4	0.6	0.2
1982	W	446.3	446.3	0.0	0.0
1983	W	816.8	815.9	-0.9	-0.1
1984	W	320.5	320.5	0.0	0.0
1985	D	376.2	375.4	-0.8	-0.2
1986	W	356.8	356.7	-0.1	0.0
1987	D	368.2	368.2	0.0	0.0
1988	C	384.8	384.8	0.1	0.0
1989	D	241.3	240.5	-0.8	-0.3
1990	C	368.6	371.7	3.1	0.8
1991	C	327.6	327.6	0.0	0.0
	Mean:	399.0	399.3	0.3	0.1
	Median:	368.2	368.2	0.0	0.0
	Min:	241.3	240.5	-0.9	-0.3
	Max:	816.8	815.9	3.8	0.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	298.8	298.7	0.0	0.0
1976	C	413.3	419.7	6.4	1.5
1977	C	496.3	496.6	0.3	0.1
1978	AN	307.1	307.1	0.0	0.0
1979	BN	303.7	303.8	0.1	0.0
1980	AN	296.9	296.9	0.0	0.0
1981	D	318.9	319.8	0.9	0.3
1982	W	271.3	271.3	0.0	0.0
1983	W	275.5	275.5	0.0	0.0
1984	W	326.3	326.3	0.0	0.0
1985	D	341.9	341.7	-0.2	-0.1
1986	W	272.7	272.7	0.0	0.0
1987	D	320.5	322.0	1.5	0.5
1988	C	383.1	384.8	1.7	0.4
1989	D	257.6	257.5	-0.1	0.0
1990	C	330.0	333.9	3.9	1.2
1991	C	305.2	307.5	2.2	0.7
	Mean:	324.7	325.6	1.0	0.3
	Median:	307.1	307.5	0.0	0.0
	Min:	257.6	257.5	-0.2	-0.1
	Max:	496.3	496.6	6.4	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	238.0	238.0	0.0	0.0
1976	C	554.5	579.9	25.4	4.6
1977	C	607.6	616.9	9.3	1.5
1978	AN	256.3	256.3	0.0	0.0
1979	BN	244.4	244.4	0.0	0.0
1980	AN	256.8	256.8	0.0	0.0
1981	D	282.7	290.1	7.4	2.6
1982	W	235.2	235.2	0.0	0.0
1983	W	210.6	210.6	0.0	0.0
1984	W	266.9	267.0	0.0	0.0
1985	D	289.7	289.8	0.1	0.0
1986	W	250.9	250.9	0.0	0.0
1987	D	322.1	343.3	21.2	6.6
1988	C	378.0	387.8	9.8	2.6
1989	D	259.6	259.7	0.0	0.0
1990	C	375.4	414.3	38.9	10.4
1991	C	334.7	359.9	25.2	7.5
	Mean:	315.5	323.6	8.1	2.1
	Median:	266.9	267.0	0.0	0.0
	Min:	210.6	210.6	0.0	0.0
	Max:	607.6	616.9	38.9	10.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

CCWD Pumping Plant #1 (Rock Slough) Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	217.1	217.4	0.4	0.2
1976	C	565.6	576.4	10.8	1.9
1977	C	653.5	671.9	18.5	2.8
1978	AN	226.3	226.8	0.5	0.2
1979	BN	280.2	275.6	-4.6	-1.6
1980	AN	241.3	237.3	-4.0	-1.7
1981	D	516.1	514.8	-1.3	-0.3
1982	W	212.0	211.6	-0.4	-0.2
1983	W	212.1	212.1	0.0	0.0
1984	W	243.7	244.3	0.6	0.2
1985	D	526.1	526.2	0.1	0.0
1986	W	246.3	248.5	2.1	0.9
1987	D	423.7	404.9	-18.8	-4.4
1988	C	498.7	507.1	8.4	1.7
1989	D	450.3	448.9	-1.3	-0.3
1990	C	659.2	702.2	43.0	6.5
1991	C	665.7	698.3	32.6	4.9
	Mean:	402.2	407.3	5.1	0.6
	Median:	423.7	404.9	0.4	0.2
	Min:	212.0	211.6	-18.8	-4.4
	Max:	665.7	702.2	43.0	6.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	341.3	330.4	-10.8	-3.2
1976	C	532.9	535.4	2.6	0.5
1977	C	927.8	938.8	11.0	1.2
1978	AN	396.3	361.9	-34.4	-8.7
1979	BN	541.5	497.1	-44.4	-8.2
1980	AN	353.4	337.3	-16.2	-4.6
1981	D	756.7	745.8	-10.8	-1.4
1982	W	315.7	319.8	4.1	1.3
1983	W	209.0	209.0	0.0	0.0
1984	W	314.6	316.4	1.8	0.6
1985	D	772.5	772.5	0.0	0.0
1986	W	347.0	350.4	3.5	1.0
1987	D	748.7	664.9	-83.8	-11.2
1988	C	974.9	980.9	5.9	0.6
1989	D	739.3	725.8	-13.5	-1.8
1990	C	978.3	987.9	9.7	1.0
1991	C	1053.2	1059.1	5.8	0.6
	Mean:	606.1	596.1	-10.0	-1.9
	Median:	541.5	535.4	0.0	0.0
	Min:	209.0	209.0	-83.8	-11.2
	Max:	1053.2	1059.1	11.0	1.3
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	468.3	434.7	-33.7	-7.2
1976	C	814.9	820.1	5.2	0.6
1977	C	1040.0	1055.1	15.1	1.5
1978	AN	759.0	639.3	-119.7	-15.8
1979	BN	871.6	782.1	-89.5	-10.3
1980	AN	546.2	539.0	-7.2	-1.3
1981	D	885.4	881.1	-4.3	-0.5
1982	W	434.4	438.6	4.2	1.0
1983	W	208.8	208.8	0.0	0.0
1984	W	675.3	675.8	0.5	0.1
1985	D	874.8	874.3	-0.5	-0.1
1986	W	520.0	520.7	0.6	0.1
1987	D	949.8	911.4	-38.4	-4.0
1988	C	781.7	800.6	18.9	2.4
1989	D	839.1	822.9	-16.3	-1.9
1990	C	854.1	840.8	-13.3	-1.6
1991	C	846.8	842.5	-4.3	-0.5
	Mean:	727.7	711.0	-16.6	-2.2
	Median:	814.9	800.6	-4.3	-0.5
	Min:	208.8	208.8	-119.7	-15.8
	Max:	1040.0	1055.1	18.9	2.4
# Years Rel Diff <= -10%					2
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at West Canal at the mouth of CCF (SWP Banks) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	568.6	510.0	486.8	454.7	405.4	352.9	323.4	335.7	343.6	341.7	448.8	559.8
CEQA Modified Flow Alternative	564.2	509.2	487.9	458.3	413.3	355.3	324.0	336.1	344.6	346.6	442.9	548.2
Difference	-4.4	-0.8	1.1	3.6	7.9	2.3	0.6	0.4	1.0	4.8	-6.0	-11.7
Percent Difference[3]	-0.8	-0.2	0.2	0.8	2.0	0.7	0.2	0.1	0.3	1.4	-1.3	-2.1
Water Year Types[1]												
Wet												
CEQA No Project Alternative	394.4	346.7	323.4	305.5	265.3	228.7	231.2	254.2	256.3	236.6	269.0	390.0
CEQA Modified Flow Alternative	394.2	346.7	323.4	308.3	271.6	229.0	231.2	254.2	256.3	235.4	268.5	386.3
Difference	-0.1	0.1	0.0	2.8	6.3	0.2	0.0	0.0	0.0	-1.1	-0.5	-3.7
Percent Difference	0.0	0.0	0.0	0.9	2.4	0.1	0.0	0.0	0.0	-0.5	-0.2	-0.9
Above Normal												
CEQA No Project Alternative	782.9	660.9	517.1	412.9	261.7	304.7	257.1	264.2	276.0	247.5	307.6	503.9
CEQA Modified Flow Alternative	765.4	655.2	520.7	418.1	261.6	304.8	257.2	264.2	276.0	246.1	293.5	463.8
Difference	-17.5	-5.7	3.6	5.3	0.0	0.1	0.0	0.0	0.0	-1.3	-14.1	-40.1
Percent Difference	-2.2	-0.9	0.7	1.3	0.0	0.0	0.0	0.0	0.0	-0.5	-4.6	-8.0
Below Normal												
CEQA No Project Alternative	561.4	511.1	550.6	430.6	287.0	285.4	293.7	303.0	290.9	259.6	413.8	649.0
CEQA Modified Flow Alternative	537.1	505.5	548.6	430.2	287.1	285.5	293.8	303.1	290.9	257.1	387.4	589.9
Difference	-24.2	-5.5	-2.0	-0.4	0.0	0.1	0.1	0.0	0.0	-2.5	-26.5	-59.1
Percent Difference	-4.3	-1.1	-0.4	-0.1	0.0	0.0	0.0	0.0	0.0	-1.0	-6.4	-9.1
Dry												
CEQA No Project Alternative	587.7	586.8	514.4	433.7	454.1	378.0	334.1	356.9	358.6	382.4	560.9	666.1
CEQA Modified Flow Alternative	589.2	588.8	515.3	435.8	460.0	379.8	334.0	356.9	359.8	383.0	543.1	655.4
Difference	1.5	2.0	0.9	2.1	5.9	1.8	-0.1	-0.1	1.2	0.6	-17.8	-10.7
Percent Difference	0.3	0.3	0.2	0.5	1.3	0.5	0.0	0.0	0.3	0.2	-3.2	-1.6
Critical												
CEQA No Project Alternative	643.3	551.2	603.2	642.2	587.8	489.9	439.4	435.2	456.6	468.5	602.5	649.1
CEQA Modified Flow Alternative	638.9	550.2	605.2	647.9	603.7	496.2	441.5	436.6	459.0	486.6	607.8	649.6
Difference	-4.3	-1.0	2.1	5.6	16.0	6.2	2.1	1.3	2.5	18.1	5.3	0.5
Percent Difference	-0.7	-0.2	0.3	0.9	2.7	1.3	0.5	0.3	0.5	3.9	0.9	0.1

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

West Canal at the mouth of CCF (SWP Banks) Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	129.5	129.5	0.0	0.0
1976	C	310.1	306.5	-3.6	-1.2
1977	C	737.2	740.9	3.7	0.5
1978	AN	826.1	833.8	7.8	0.9
1979	BN	561.4	537.1	-24.2	-4.3
1980	AN	739.8	696.9	-42.8	-5.8
1981	D	473.9	471.9	-2.0	-0.4
1982	W	691.5	690.6	-0.9	-0.1
1983	W	254.1	254.2	0.1	0.0
1984	W	237.4	237.5	0.1	0.0
1985	D	658.9	658.0	-0.9	-0.1
1986	W	659.2	659.4	0.1	0.0
1987	D	522.9	521.8	-1.1	-0.2
1988	C	768.8	759.8	-8.9	-1.2
1989	D	695.1	705.1	10.1	1.5
1990	C	667.8	662.6	-5.3	-0.8
1991	C	732.5	724.9	-7.6	-1.0
	Mean:	568.6	564.2	-4.4	-0.7
	Median:	659.2	659.4	-0.9	-0.1
	Min:	129.5	129.5	-42.8	-5.8
	Max:	826.1	833.8	10.1	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	323.8	323.7	0.0	0.0
1976	C	296.8	299.0	2.1	0.7
1977	C	579.3	580.3	1.1	0.2
1978	AN	768.2	770.1	1.9	0.2
1979	BN	511.1	505.5	-5.5	-1.1
1980	AN	553.6	540.4	-13.2	-2.4
1981	D	478.5	478.0	-0.5	-0.1
1982	W	462.2	462.2	0.0	0.0
1983	W	233.2	233.2	0.0	0.0
1984	W	176.7	176.7	0.0	0.0
1985	D	613.6	620.4	6.8	1.1
1986	W	537.5	537.7	0.2	0.0
1987	D	538.2	535.7	-2.6	-0.5
1988	C	572.7	570.8	-1.9	-0.3
1989	D	716.9	721.1	4.2	0.6
1990	C	535.9	534.6	-1.3	-0.2
1991	C	771.1	766.1	-5.1	-0.7
	Mean:	510.0	509.2	-0.8	-0.1
	Median:	537.5	535.7	0.0	0.0
	Min:	176.7	176.7	-13.2	-2.4
	Max:	771.1	770.1	6.8	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	528.4	528.1	-0.3	-0.1
1976	C	487.8	506.2	18.4	3.8
1977	C	651.5	651.9	0.4	0.1
1978	AN	609.0	609.8	0.8	0.1
1979	BN	550.6	548.6	-2.0	-0.4
1980	AN	425.2	431.5	6.3	1.5
1981	D	572.9	572.4	-0.4	-0.1
1982	W	272.4	272.3	0.0	0.0
1983	W	156.4	156.4	0.0	0.0
1984	W	126.9	127.1	0.1	0.1
1985	D	313.4	318.2	4.7	1.5
1986	W	532.6	533.0	0.3	0.1
1987	D	598.2	596.2	-2.0	-0.3
1988	C	593.7	592.8	-0.9	-0.2
1989	D	573.2	574.5	1.3	0.2
1990	C	576.1	570.4	-5.6	-1.0
1991	C	706.7	704.6	-2.1	-0.3
	Mean:	486.8	487.9	1.1	0.3
	Median:	550.6	548.6	0.0	0.0
	Min:	126.9	127.1	-5.6	-1.0
	Max:	706.7	704.6	18.4	3.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	492.7	508.1	15.4	3.1
1976	C	561.3	590.2	28.9	5.1
1977	C	669.7	669.9	0.2	0.0
1978	AN	560.4	562.8	2.5	0.4
1979	BN	430.6	430.2	-0.4	-0.1
1980	AN	265.4	273.4	8.1	3.1
1981	D	405.4	409.8	4.4	1.1
1982	W	334.2	334.2	-0.1	0.0
1983	W	131.4	131.4	0.0	0.0
1984	W	138.9	138.7	-0.2	-0.1
1985	D	270.9	274.4	3.5	1.3
1986	W	430.4	429.1	-1.2	-0.3
1987	D	503.7	503.0	-0.6	-0.1
1988	C	547.3	545.4	-1.9	-0.3
1989	D	554.7	555.8	1.2	0.2
1990	C	782.4	784.1	1.7	0.2
1991	C	650.4	649.8	-0.6	-0.1
	Mean:	454.7	458.3	3.6	0.8
	Median:	492.7	503.0	0.2	0.0
	Min:	131.4	131.4	-1.9	-0.3
	Max:	782.4	784.1	28.9	5.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	453.9	486.1	32.2	7.1
1976	C	643.9	684.4	40.5	6.3
1977	C	689.3	689.4	0.1	0.0
1978	AN	382.6	382.5	-0.1	0.0
1979	BN	287.0	287.1	0.0	0.0
1980	AN	140.7	140.7	0.0	0.0
1981	D	340.2	352.0	11.8	3.5
1982	W	236.6	236.6	0.0	0.0
1983	W	117.2	117.2	0.0	0.0
1984	W	234.0	234.0	0.0	0.0
1985	D	384.7	396.0	11.3	2.9
1986	W	284.8	284.0	-0.8	-0.3
1987	D	581.9	581.5	-0.4	-0.1
1988	C	366.1	365.5	-0.5	-0.1
1989	D	509.5	510.4	0.9	0.2
1990	C	578.3	618.6	40.3	7.0
1991	C	661.1	660.5	-0.6	-0.1
	Mean:	405.4	413.3	7.9	1.6
	Median:	382.6	382.5	0.0	0.0
	Min:	117.2	117.2	-0.8	-0.3
	Max:	689.3	689.4	40.5	7.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	279.6	280.8	1.2	0.4
1976	C	496.5	513.3	16.7	3.4
1977	C	697.8	697.9	0.1	0.0
1978	AN	366.4	366.4	0.1	0.0
1979	BN	285.4	285.5	0.1	0.0
1980	AN	243.1	243.2	0.1	0.0
1981	D	301.6	304.4	2.8	0.9
1982	W	268.5	268.5	0.0	0.0
1983	W	145.4	145.5	0.1	0.1
1984	W	271.5	271.5	0.0	0.0
1985	D	397.2	402.5	5.3	1.3
1986	W	178.5	178.5	0.0	0.0
1987	D	457.6	457.5	-0.1	0.0
1988	C	353.7	353.5	-0.3	-0.1
1989	D	355.4	354.7	-0.8	-0.2
1990	C	406.6	421.4	14.8	3.6
1991	C	495.0	494.8	-0.2	0.0
	Mean:	352.9	355.3	2.3	0.6
	Median:	353.7	353.5	0.1	0.0
	Min:	145.4	145.5	-0.8	-0.2
	Max:	697.8	697.9	16.7	3.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	271.7	271.8	0.1	0.0
1976	C	411.2	415.9	4.7	1.1
1977	C	660.3	660.4	0.0	0.0
1978	AN	242.1	242.1	0.0	0.0
1979	BN	293.7	293.8	0.1	0.0
1980	AN	272.1	272.2	0.1	0.0
1981	D	323.1	323.5	0.4	0.1
1982	W	167.8	167.8	0.0	0.0
1983	W	167.4	167.4	0.0	0.0
1984	W	301.3	301.3	0.0	0.0
1985	D	389.7	389.9	0.3	0.1
1986	W	247.9	247.9	0.0	0.0
1987	D	371.5	371.5	0.0	0.0
1988	C	388.7	388.7	0.0	0.0
1989	D	252.2	251.2	-1.0	-0.4
1990	C	368.9	374.9	6.0	1.6
1991	C	367.8	367.7	0.0	0.0
	Mean:	323.4	324.0	0.6	0.1
	Median:	301.3	301.3	0.0	0.0
	Min:	167.4	167.4	-1.0	-0.4
	Max:	660.3	660.4	6.0	1.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	295.8	295.8	0.0	0.0
1976	C	425.4	427.8	2.4	0.6
1977	C	600.5	600.5	0.0	0.0
1978	AN	244.9	244.9	0.0	0.0
1979	BN	303.0	303.1	0.0	0.0
1980	AN	283.5	283.6	0.0	0.0
1981	D	361.0	361.2	0.2	0.1
1982	W	186.1	186.1	0.0	0.0
1983	W	169.2	169.2	0.0	0.0
1984	W	343.2	343.2	0.0	0.0
1985	D	400.7	400.5	-0.2	0.0
1986	W	276.6	276.6	0.0	0.0
1987	D	366.8	366.8	0.0	0.0
1988	C	401.0	401.5	0.5	0.1
1989	D	299.2	298.8	-0.3	-0.1
1990	C	386.5	390.0	3.5	0.9
1991	C	362.8	363.0	0.3	0.1
	Mean:	335.7	336.0	0.4	0.1
	Median:	343.2	343.2	0.0	0.0
	Min:	169.2	169.2	-0.3	-0.1
	Max:	600.5	600.5	3.5	0.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	277.8	277.8	0.0	0.0
1976	C	501.6	512.8	11.2	2.2
1977	C	573.1	572.0	-1.2	-0.2
1978	AN	257.5	257.5	0.0	0.0
1979	BN	290.9	290.9	0.0	0.0
1980	AN	294.4	294.4	0.0	0.0
1981	D	343.3	350.3	7.0	2.0
1982	W	248.2	248.2	0.0	0.0
1983	W	132.4	132.4	0.0	0.0
1984	W	332.0	332.1	0.0	0.0
1985	D	350.3	350.7	0.4	0.1
1986	W	291.0	291.0	0.0	0.0
1987	D	398.5	395.9	-2.6	-0.7
1988	C	431.9	427.1	-4.7	-1.1
1989	D	342.3	342.3	-0.1	0.0
1990	C	409.4	413.3	3.9	1.0
1991	C	366.8	369.9	3.1	0.8
	Mean:	343.6	344.6	1.0	0.2
	Median:	342.3	342.3	0.0	0.0
	Min:	132.4	132.4	-4.7	-1.1
	Max:	573.1	572.0	11.2	2.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	230.1	228.9	-1.2	-0.5
1976	C	466.3	476.8	10.5	2.3
1977	C	523.1	538.2	15.1	2.9
1978	AN	237.9	237.1	-0.7	-0.3
1979	BN	259.6	257.1	-2.5	-1.0
1980	AN	257.0	255.1	-1.9	-0.7
1981	D	396.2	397.4	1.1	0.3
1982	W	243.2	241.7	-1.5	-0.6
1983	W	183.9	183.9	0.0	0.0
1984	W	263.2	261.0	-2.2	-0.8
1985	D	407.7	407.8	0.1	0.0
1986	W	262.4	261.6	-0.8	-0.3
1987	D	366.4	368.4	2.0	0.5
1988	C	412.4	422.5	10.1	2.4
1989	D	359.5	358.6	-0.9	-0.3
1990	C	476.4	507.9	31.5	6.6
1991	C	464.4	487.3	23.0	5.0
	Mean:	341.7	346.5	4.8	0.9
	Median:	359.5	358.6	0.0	0.0
	Min:	183.9	183.9	-2.5	-1.0
	Max:	523.1	538.2	31.5	6.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	292.1	286.3	-5.8	-2.0
1976	C	422.8	425.6	2.7	0.6
1977	C	593.8	596.2	2.3	0.4
1978	AN	319.5	301.3	-18.1	-5.7
1979	BN	413.8	387.3	-26.5	-6.4
1980	AN	295.8	285.7	-10.1	-3.4
1981	D	565.9	558.5	-7.3	-1.3
1982	W	280.5	281.9	1.4	0.5
1983	W	193.3	193.3	0.0	0.0
1984	W	277.5	277.6	0.2	0.1
1985	D	581.0	581.1	0.0	0.0
1986	W	301.6	303.4	1.8	0.6
1987	D	551.5	496.5	-55.1	-10.0
1988	C	587.5	579.0	-8.6	-1.5
1989	D	545.3	536.5	-8.8	-1.6
1990	C	672.4	690.2	17.8	2.6
1991	C	736.0	748.3	12.4	1.7
	Mean:	448.8	442.9	-6.0	-1.5
	Median:	422.8	425.6	0.0	0.0
	Min:	193.3	193.3	-55.1	-10.0
	Max:	736.0	748.3	17.8	2.6
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	394.3	372.7	-21.6	-5.5
1976	C	605.1	608.0	2.9	0.5
1977	C	706.1	710.7	4.6	0.7
1978	AN	574.9	499.5	-75.4	-13.1
1979	BN	649.0	589.9	-59.1	-9.1
1980	AN	432.9	428.1	-4.8	-1.1
1981	D	672.2	669.2	-3.0	-0.4
1982	W	385.4	387.7	2.3	0.6
1983	W	238.0	238.0	0.0	0.0
1984	W	510.1	510.5	0.4	0.1
1985	D	663.0	662.7	-0.3	0.0
1986	W	422.3	422.7	0.4	0.1
1987	D	705.6	677.1	-28.5	-4.0
1988	C	623.7	627.3	3.7	0.6
1989	D	623.6	612.7	-10.9	-1.7
1990	C	651.2	646.1	-5.0	-0.8
1991	C	659.6	655.9	-3.7	-0.6
	Mean:	559.8	548.2	-11.6	-2.0
	Median:	623.6	608.0	-3.0	-0.4
	Min:	238.0	238.0	-75.4	-13.1
	Max:	706.1	710.7	4.6	0.7
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	571.4	509.6	511.8	480.2	452.2	446.1	368.4	353.3	369.6	376.2	497.3	615.9
CEQA Modified Flow Alternative	567.3	509.0	512.7	482.8	457.2	447.4	368.7	353.7	375.4	380.9	491.9	606.9
Difference	-4.1	-0.6	0.8	2.6	5.1	1.3	0.3	0.4	5.8	4.6	-5.4	-9.0
Percent Difference[3]	-0.7	-0.1	0.2	0.5	1.1	0.3	0.1	0.1	1.6	1.2	-1.1	-1.5
Water Year Types[1]												
Wet												
CEQA No Project Alternative	381.0	353.2	367.5	346.4	252.5	255.7	241.7	266.3	298.1	282.5	342.8	473.3
CEQA Modified Flow Alternative	380.9	353.3	367.5	348.6	255.4	255.8	241.7	266.3	298.1	279.9	341.7	470.0
Difference	-0.1	0.0	0.0	2.2	2.9	0.1	0.0	0.0	0.0	-2.6	-1.1	-3.2
Percent Difference	0.0	0.0	0.0	0.6	1.1	0.0	0.0	0.0	0.0	-0.9	-0.3	-0.7
Above Normal												
CEQA No Project Alternative	792.5	639.8	549.8	348.7	234.8	285.6	248.3	266.9	291.4	292.4	355.5	552.0
CEQA Modified Flow Alternative	775.8	634.3	552.8	350.4	234.7	285.7	248.3	266.9	291.4	291.2	341.5	519.6
Difference	-16.8	-5.5	3.0	1.7	-0.1	0.1	0.0	0.0	0.0	-1.2	-14.0	-32.4
Percent Difference	-2.1	-0.9	0.6	0.5	-0.1	0.0	0.0	0.0	0.0	-0.4	-3.9	-5.9
Below Normal												
CEQA No Project Alternative	558.8	521.3	564.6	399.3	253.4	292.6	298.3	314.1	322.8	290.9	450.4	696.8
CEQA Modified Flow Alternative	537.0	516.5	563.3	399.1	253.5	292.6	298.3	314.2	322.8	288.1	424.1	645.0
Difference	-21.8	-4.8	-1.3	-0.2	0.1	0.0	0.0	0.0	0.0	-2.8	-26.3	-51.8
Percent Difference	-3.9	-0.9	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-1.0	-5.8	-7.4
Dry												
CEQA No Project Alternative	601.6	591.9	538.9	499.3	566.5	497.2	401.2	390.4	373.3	413.9	583.3	721.4
CEQA Modified Flow Alternative	602.9	593.8	539.5	500.9	570.3	498.0	401.1	390.5	380.0	413.6	567.2	712.5
Difference	1.4	1.9	0.6	1.6	3.8	0.8	-0.2	0.0	6.7	-0.3	-16.1	-8.9
Percent Difference	0.2	0.3	0.1	0.3	0.7	0.2	0.0	0.0	1.8	-0.1	-2.8	-1.2
Critical												
CEQA No Project Alternative	651.6	545.8	608.7	667.4	687.1	690.6	530.9	453.0	478.7	490.5	649.0	683.7
CEQA Modified Flow Alternative	647.8	545.2	610.2	672.1	698.4	694.3	531.8	454.2	493.0	510.2	655.5	686.7
Difference	-3.9	-0.5	1.5	4.7	11.3	3.7	0.9	1.2	14.3	19.8	6.5	3.0
Percent Difference	-0.6	-0.1	0.2	0.7	1.6	0.5	0.2	0.3	3.0	4.0	1.0	0.4

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	139.3	139.3	0.0	0.0
1976	C	312.4	309.2	-3.2	-1.0
1977	C	744.2	747.8	3.6	0.5
1978	AN	846.5	853.1	6.6	0.8
1979	BN	558.8	537.0	-21.8	-3.9
1980	AN	738.5	698.4	-40.1	-5.4
1981	D	474.0	472.2	-1.8	-0.4
1982	W	684.7	683.9	-0.8	-0.1
1983	W	213.9	213.9	0.0	0.0
1984	W	210.4	210.5	0.1	0.0
1985	D	668.8	667.8	-1.0	-0.1
1986	W	656.7	656.9	0.1	0.0
1987	D	528.6	527.1	-1.4	-0.3
1988	C	766.5	759.0	-7.5	-1.0
1989	D	734.9	744.6	9.6	1.3
1990	C	665.9	661.1	-4.8	-0.7
1991	C	769.1	761.8	-7.4	-1.0
	Mean:	571.4	567.3	-4.1	-0.7
	Median:	665.9	661.1	-1.0	-0.1
	Min:	139.3	139.3	-40.1	-5.4
	Max:	846.5	853.1	9.6	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	332.4	332.3	0.0	0.0
1976	C	304.8	307.3	2.6	0.9
1977	C	582.3	583.2	0.9	0.2
1978	AN	735.1	736.0	0.8	0.1
1979	BN	521.2	516.5	-4.8	-0.9
1980	AN	544.5	532.5	-12.0	-2.2
1981	D	498.4	498.0	-0.4	-0.1
1982	W	457.8	457.8	0.0	0.0
1983	W	257.2	257.2	0.0	0.0
1984	W	179.7	179.7	0.0	0.0
1985	D	610.4	617.8	7.4	1.2
1986	W	539.0	539.2	0.2	0.0
1987	D	551.6	549.0	-2.6	-0.5
1988	C	559.2	557.8	-1.3	-0.2
1989	D	707.3	710.6	3.3	0.5
1990	C	526.9	525.8	-1.1	-0.2
1991	C	755.7	752.0	-3.6	-0.5
	Mean:	509.6	509.0	-0.6	-0.1
	Median:	539.0	532.5	0.0	0.0
	Min:	179.7	179.7	-12.0	-2.2
	Max:	755.7	752.0	7.4	1.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	548.5	548.2	-0.3	-0.1
1976	C	519.7	533.2	13.5	2.6
1977	C	626.7	626.9	0.2	0.0
1978	AN	629.0	629.9	0.9	0.1
1979	BN	564.6	563.3	-1.3	-0.2
1980	AN	470.5	475.7	5.2	1.1
1981	D	577.4	577.0	-0.3	-0.1
1982	W	406.8	406.8	0.0	0.0
1983	W	137.8	137.8	0.0	0.0
1984	W	158.6	158.6	0.0	0.0
1985	D	397.9	400.9	3.1	0.8
1986	W	585.8	586.1	0.3	0.1
1987	D	597.7	596.4	-1.3	-0.2
1988	C	625.4	624.6	-0.8	-0.1
1989	D	582.8	583.7	0.9	0.2
1990	C	612.2	607.5	-4.8	-0.8
1991	C	659.3	658.5	-0.7	-0.1
	Mean:	511.8	512.7	0.9	0.2
	Median:	577.4	577.0	0.0	0.0
	Min:	137.8	137.8	-4.8	-0.8
	Max:	659.3	658.5	13.5	2.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	541.8	554.0	12.2	2.3
1976	C	593.2	614.4	21.2	3.6
1977	C	700.4	700.5	0.1	0.0
1978	AN	495.0	496.4	1.4	0.3
1979	BN	399.3	399.1	-0.2	-0.1
1980	AN	202.4	204.4	2.1	1.0
1981	D	463.8	467.2	3.4	0.7
1982	W	336.1	336.1	0.0	0.0
1983	W	206.6	206.6	0.0	0.0
1984	W	148.6	148.5	0.0	0.0
1985	D	390.8	393.4	2.6	0.7
1986	W	498.7	497.7	-1.0	-0.2
1987	D	553.3	552.8	-0.4	-0.1
1988	C	590.8	589.4	-1.4	-0.2
1989	D	589.3	590.2	0.9	0.2
1990	C	764.2	767.9	3.7	0.5
1991	C	688.4	688.2	-0.2	0.0
	Mean:	480.2	482.8	2.6	0.5
	Median:	498.7	497.7	0.1	0.0
	Min:	148.6	148.5	-1.4	-0.2
	Max:	764.2	767.9	21.2	3.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	402.9	417.7	14.8	3.7
1976	C	679.0	706.2	27.2	4.0
1977	C	855.9	855.9	0.0	0.0
1978	AN	309.6	309.4	-0.2	-0.1
1979	BN	253.4	253.5	0.1	0.0
1980	AN	160.1	160.1	0.0	0.0
1981	D	438.8	446.2	7.5	1.7
1982	W	200.3	200.3	0.0	0.0
1983	W	152.0	151.9	-0.1	-0.1
1984	W	237.4	237.5	0.0	0.0
1985	D	504.2	511.7	7.4	1.5
1986	W	270.0	269.7	-0.3	-0.1
1987	D	641.2	641.0	-0.2	0.0
1988	C	466.5	466.2	-0.3	-0.1
1989	D	681.8	682.2	0.4	0.1
1990	C	621.5	651.2	29.7	4.8
1991	C	812.5	812.3	-0.2	0.0
	Mean:	452.2	457.2	5.0	0.9
	Median:	438.8	446.2	0.0	0.0
	Min:	152.0	151.9	-0.3	-0.1
	Max:	855.9	855.9	29.7	4.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	290.0	290.4	0.4	0.1
1976	C	594.4	604.7	10.2	1.7
1977	C	919.5	919.5	0.0	0.0
1978	AN	349.3	349.5	0.2	0.1
1979	BN	292.6	292.6	0.0	0.0
1980	AN	221.9	221.9	0.0	0.0
1981	D	393.3	394.8	1.4	0.4
1982	W	259.3	259.4	0.0	0.0
1983	W	207.4	207.5	0.1	0.0
1984	W	329.4	329.4	0.0	0.0
1985	D	542.2	544.9	2.7	0.5
1986	W	192.1	192.2	0.1	0.1
1987	D	577.7	577.6	-0.1	0.0
1988	C	839.1	839.1	0.0	0.0
1989	D	475.3	474.7	-0.7	-0.1
1990	C	569.1	577.5	8.4	1.5
1991	C	530.9	530.7	-0.1	0.0
	Mean:	446.1	447.4	1.3	0.3
	Median:	393.3	394.8	0.0	0.0
	Min:	192.1	192.2	-0.7	-0.1
	Max:	919.5	919.5	10.2	1.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	287.1	287.1	0.0	0.0
1976	C	495.3	497.4	2.1	0.4
1977	C	692.8	692.8	0.0	0.0
1978	AN	224.3	224.3	0.0	0.0
1979	BN	298.3	298.3	0.1	0.0
1980	AN	272.3	272.4	0.0	0.0
1981	D	373.7	373.9	0.2	0.1
1982	W	164.5	164.4	0.0	0.0
1983	W	184.8	184.9	0.1	0.1
1984	W	340.4	340.5	0.0	0.0
1985	D	454.6	454.5	-0.1	0.0
1986	W	231.7	231.7	0.0	0.0
1987	D	441.8	441.8	0.0	0.0
1988	C	510.6	510.7	0.2	0.0
1989	D	334.7	334.1	-0.6	-0.2
1990	C	527.6	529.9	2.3	0.4
1991	C	428.3	428.3	0.0	0.0
	Mean:	368.4	368.7	0.3	0.0
	Median:	340.4	340.5	0.0	0.0
	Min:	164.5	164.4	-0.6	-0.2
	Max:	692.8	692.8	2.3	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	308.7	308.7	0.0	0.0
1976	C	463.0	465.4	2.4	0.5
1977	C	563.6	563.6	0.1	0.0
1978	AN	229.2	229.2	0.0	0.0
1979	BN	314.1	314.2	0.0	0.0
1980	AN	304.6	304.6	0.0	0.0
1981	D	383.2	383.5	0.3	0.1
1982	W	198.6	198.6	0.0	0.0
1983	W	177.9	177.9	0.0	0.0
1984	W	357.9	357.9	0.0	0.0
1985	D	427.1	426.9	-0.1	0.0
1986	W	288.6	288.6	0.0	0.0
1987	D	414.8	414.9	0.2	0.0
1988	C	446.1	446.9	0.8	0.2
1989	D	336.7	336.5	-0.2	-0.1
1990	C	413.4	415.4	1.9	0.5
1991	C	379.2	379.8	0.6	0.2
	Mean:	353.3	353.7	0.4	0.1
	Median:	357.9	357.9	0.0	0.0
	Min:	177.9	177.9	-0.2	-0.1
	Max:	563.6	563.6	2.4	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	349.0	349.0	0.0	0.0
1976	C	519.6	534.0	14.4	2.8
1977	C	584.6	593.1	8.4	1.4
1978	AN	245.9	245.9	0.0	0.0
1979	BN	322.8	322.8	0.0	0.0
1980	AN	337.0	337.0	0.0	0.0
1981	D	349.9	357.2	7.3	2.1
1982	W	278.5	278.5	0.0	0.0
1983	W	144.7	144.7	0.0	0.0
1984	W	379.0	379.0	0.0	0.0
1985	D	358.4	358.6	0.2	0.1
1986	W	339.2	339.2	0.0	0.0
1987	D	434.2	453.4	19.2	4.4
1988	C	474.7	485.4	10.7	2.3
1989	D	350.8	350.7	0.0	0.0
1990	C	434.8	456.6	21.8	5.0
1991	C	379.8	396.0	16.2	4.3
	Mean:	369.6	375.4	5.8	1.3
	Median:	350.8	357.2	0.0	0.0
	Min:	144.7	144.7	0.0	0.0
	Max:	584.6	593.1	21.8	5.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	272.7	271.6	-1.2	-0.4
1976	C	506.3	516.7	10.4	2.1
1977	C	524.2	540.9	16.7	3.2
1978	AN	280.3	279.6	-0.7	-0.2
1979	BN	290.9	288.1	-2.8	-1.0
1980	AN	304.4	302.7	-1.7	-0.6
1981	D	426.9	427.2	0.3	0.1
1982	W	303.6	302.3	-1.2	-0.4
1983	W	193.9	193.9	0.0	0.0
1984	W	314.6	313.0	-1.6	-0.5
1985	D	435.3	435.4	0.1	0.0
1986	W	327.5	318.5	-9.0	-2.7
1987	D	412.2	412.0	-0.2	0.0
1988	C	424.3	436.1	11.8	2.8
1989	D	381.3	379.8	-1.5	-0.4
1990	C	502.4	537.3	34.9	6.9
1991	C	495.3	520.2	24.9	5.0
	Mean:	376.2	380.9	4.7	0.8
	Median:	381.3	379.8	-0.2	0.0
	Min:	193.9	193.9	-9.0	-2.7
	Max:	524.2	540.9	34.9	6.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	344.8	338.2	-6.6	-1.9
1976	C	482.7	487.1	4.4	0.9
1977	C	651.3	658.7	7.4	1.1
1978	AN	369.1	350.2	-18.9	-5.1
1979	BN	450.4	424.1	-26.3	-5.8
1980	AN	341.8	332.7	-9.1	-2.7
1981	D	581.2	574.5	-6.8	-1.2
1982	W	343.4	344.3	0.9	0.3
1983	W	323.5	323.3	-0.2	-0.1
1984	W	344.4	344.0	-0.4	-0.1
1985	D	594.5	594.5	0.0	0.0
1986	W	357.7	358.5	0.8	0.2
1987	D	591.6	543.6	-48.0	-8.1
1988	C	669.5	671.4	1.9	0.3
1989	D	565.9	556.2	-9.7	-1.7
1990	C	693.7	705.8	12.1	1.7
1991	C	747.7	754.6	6.9	0.9
	Mean:	497.3	491.9	-5.4	-1.3
	Median:	482.7	487.1	-0.2	-0.1
	Min:	323.5	323.3	-48.0	-8.1
	Max:	747.7	754.6	12.1	1.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	457.8	439.5	-18.2	-4.0
1976	C	685.8	689.3	3.5	0.5
1977	C	762.0	770.0	8.1	1.1
1978	AN	613.6	552.6	-61.0	-9.9
1979	BN	696.8	645.0	-51.8	-7.4
1980	AN	490.4	486.6	-3.8	-0.8
1981	D	710.7	708.1	-2.5	-0.4
1982	W	459.2	460.6	1.4	0.3
1983	W	349.9	350.1	0.2	0.1
1984	W	592.3	592.6	0.3	0.1
1985	D	709.4	709.2	-0.2	0.0
1986	W	507.0	507.3	0.3	0.1
1987	D	758.4	734.8	-23.7	-3.1
1988	C	640.4	652.7	12.4	1.9
1989	D	707.1	698.0	-9.2	-1.3
1990	C	680.9	674.4	-6.4	-0.9
1991	C	649.3	647.1	-2.2	-0.3
	Mean:	615.9	606.9	-9.0	-1.4
	Median:	649.3	647.1	-2.2	-0.3
	Min:	349.9	350.1	-61.0	-9.9
	Max:	762.0	770.0	12.4	1.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at Victoria Canal under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	470.3	443.5	410.6	408.9	396.4	364.6	345.7	385.1	373.3	315.1	364.7	436.8
CEQA Modified Flow Alternative	468.5	443.2	411.3	410.8	401.6	366.3	346.1	385.3	377.8	319.5	362.3	431.2
Difference	-1.9	-0.3	0.7	1.9	5.2	1.7	0.4	0.2	4.5	4.4	-2.4	-5.6
Percent Difference[3]	-0.4	-0.1	0.2	0.5	1.3	0.5	0.1	0.0	1.2	1.4	-0.7	-1.3
Water Year Types[1]												
Wet												
CEQA No Project Alternative	367.3	343.4	292.0	298.3	277.3	261.7	249.0	279.8	281.1	258.9	258.3	347.9
CEQA Modified Flow Alternative	367.2	343.4	292.0	299.7	280.5	261.7	249.0	279.7	281.1	256.8	257.4	346.0
Difference	0.0	0.1	0.0	1.4	3.3	0.1	0.0	0.0	0.0	-2.2	-0.9	-2.0
Percent Difference	0.0	0.0	0.0	0.5	1.2	0.0	0.0	0.0	0.0	-0.8	-0.4	-0.6
Above Normal												
CEQA No Project Alternative	600.0	539.6	429.2	408.9	318.9	336.8	287.9	294.4	296.8	268.6	275.7	394.5
CEQA Modified Flow Alternative	592.2	536.7	430.7	412.0	318.9	336.8	287.9	294.4	296.8	267.8	269.4	374.9
Difference	-7.9	-2.9	1.5	3.1	0.0	0.0	0.0	0.0	0.0	-0.9	-6.3	-19.7
Percent Difference	-1.3	-0.5	0.4	0.8	0.0	0.0	0.0	0.0	0.0	-0.3	-2.3	-5.0
Below Normal												
CEQA No Project Alternative	406.4	410.0	468.7	387.2	309.3	293.9	311.3	336.7	322.9	262.3	331.5	474.4
CEQA Modified Flow Alternative	398.3	408.7	467.9	387.0	309.3	294.0	311.4	336.7	322.9	261.2	318.6	443.6
Difference	-8.1	-1.3	-0.8	-0.2	0.0	0.1	0.0	0.0	0.0	-1.1	-12.9	-30.8
Percent Difference	-2.0	-0.3	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	-0.4	-3.9	-6.5
Dry												
CEQA No Project Alternative	480.5	486.7	441.7	382.4	431.5	398.2	387.0	444.1	402.3	323.5	413.7	484.0
CEQA Modified Flow Alternative	481.4	487.8	442.3	383.5	435.4	399.4	386.9	444.1	407.7	326.7	403.4	477.4
Difference	0.9	1.0	0.6	1.1	3.8	1.2	-0.1	0.0	5.4	3.2	-10.3	-6.6
Percent Difference	0.2	0.2	0.1	0.3	0.9	0.3	0.0	0.0	1.3	1.0	-2.5	-1.4
Critical												
CEQA No Project Alternative	526.1	477.3	485.2	545.1	535.9	465.9	439.3	489.3	483.0	393.6	474.2	497.4
CEQA Modified Flow Alternative	523.9	476.7	486.7	548.1	547.3	470.6	440.7	489.9	494.0	408.8	480.1	499.5
Difference	-2.3	-0.5	1.5	3.1	11.4	4.7	1.4	0.6	11.0	15.3	6.0	2.2
Percent Difference	-0.4	-0.1	0.3	0.6	2.1	1.0	0.3	0.1	2.3	3.9	1.3	0.4

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Victoria Canal Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	198.3	198.3	0.0	0.0
1976	C	355.1	353.8	-1.3	-0.4
1977	C	549.5	551.1	1.6	0.3
1978	AN	648.0	651.7	3.7	0.6
1979	BN	406.4	398.3	-8.1	-2.0
1980	AN	552.1	532.6	-19.5	-3.5
1981	D	368.5	368.0	-0.5	-0.1
1982	W	557.7	557.2	-0.4	-0.1
1983	W	264.8	264.9	0.0	0.0
1984	W	275.7	275.8	0.0	0.0
1985	D	516.2	515.9	-0.3	-0.1
1986	W	539.8	540.0	0.2	0.0
1987	D	430.1	428.0	-2.1	-0.5
1988	C	613.1	608.5	-4.6	-0.8
1989	D	607.2	613.6	6.4	1.1
1990	C	528.1	525.7	-2.5	-0.5
1991	C	584.8	580.2	-4.6	-0.8
	Mean:	470.3	468.4	-1.9	-0.4
	Median:	528.1	525.7	-0.4	-0.1
	Min:	198.3	198.3	-19.5	-3.5
	Max:	648.0	651.7	6.4	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	344.2	344.2	0.0	0.0
1976	C	322.3	322.9	0.6	0.2
1977	C	454.7	455.0	0.2	0.0
1978	AN	619.6	619.6	0.0	0.0
1979	BN	410.0	408.7	-1.3	-0.3
1980	AN	459.6	453.8	-5.8	-1.3
1981	D	400.7	400.6	-0.1	0.0
1982	W	451.6	451.6	0.0	0.0
1983	W	244.5	244.5	0.0	0.0
1984	W	178.2	178.2	0.0	0.0
1985	D	508.9	512.7	3.8	0.7
1986	W	498.3	498.5	0.2	0.0
1987	D	444.5	443.2	-1.4	-0.3
1988	C	508.5	507.7	-0.7	-0.1
1989	D	592.7	594.6	1.8	0.3
1990	C	469.8	469.4	-0.4	-0.1
1991	C	631.0	628.7	-2.3	-0.4
	Mean:	443.5	443.2	-0.3	-0.1
	Median:	454.7	453.8	0.0	0.0
	Min:	178.2	178.2	-5.8	-1.3
	Max:	631.0	628.7	3.8	0.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	420.5	420.3	-0.2	0.0
1976	C	387.4	397.7	10.3	2.7
1977	C	515.9	516.1	0.2	0.0
1978	AN	496.6	496.7	0.1	0.0
1979	BN	468.7	467.9	-0.8	-0.2
1980	AN	361.8	364.7	3.0	0.8
1981	D	465.7	465.4	-0.3	-0.1
1982	W	292.5	292.4	0.0	0.0
1983	W	178.9	178.9	0.0	0.0
1984	W	128.4	128.4	0.0	0.0
1985	D	319.6	322.8	3.2	1.0
1986	W	440.0	440.2	0.2	0.0
1987	D	495.1	494.0	-1.1	-0.2
1988	C	463.0	462.5	-0.5	-0.1
1989	D	486.5	487.2	0.7	0.1
1990	C	449.9	447.8	-2.1	-0.5
1991	C	609.9	609.3	-0.5	-0.1
	Mean:	410.6	411.3	0.7	0.2
	Median:	449.9	447.8	0.0	0.0
	Min:	128.4	128.4	-2.1	-0.5
	Max:	609.9	609.3	10.3	2.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	407.6	415.6	8.0	2.0
1976	C	452.9	471.4	18.5	4.1
1977	C	579.1	579.2	0.1	0.0
1978	AN	531.1	532.8	1.6	0.3
1979	BN	387.2	387.0	-0.2	-0.1
1980	AN	286.7	291.3	4.5	1.6
1981	D	366.2	368.4	2.2	0.6
1982	W	364.6	364.5	-0.1	0.0
1983	W	156.6	156.6	0.0	0.0
1984	W	171.5	171.2	-0.3	-0.2
1985	D	273.6	275.4	1.8	0.7
1986	W	391.1	390.4	-0.7	-0.2
1987	D	425.6	425.1	-0.5	-0.1
1988	C	480.0	478.6	-1.4	-0.3
1989	D	464.3	465.0	0.8	0.2
1990	C	604.7	603.1	-1.6	-0.3
1991	C	608.8	608.5	-0.3	0.0
	Mean:	408.9	410.8	1.9	0.5
	Median:	407.6	415.6	0.0	0.0
	Min:	156.6	156.6	-1.6	-0.3
	Max:	608.8	608.5	18.5	4.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	411.2	427.9	16.8	4.1
1976	C	535.8	563.4	27.6	5.2
1977	C	631.4	631.4	0.0	0.0
1978	AN	414.7	414.6	0.0	0.0
1979	BN	309.3	309.3	0.0	0.0
1980	AN	223.1	223.1	0.0	0.0
1981	D	347.2	355.0	7.8	2.2
1982	W	247.7	247.7	0.0	0.0
1983	W	119.4	119.3	-0.1	-0.1
1984	W	263.6	263.6	0.0	0.0
1985	D	369.3	376.2	6.9	1.9
1986	W	344.4	344.0	-0.5	-0.1
1987	D	508.8	508.5	-0.3	-0.1
1988	C	367.5	367.1	-0.3	-0.1
1989	D	500.9	501.8	0.9	0.2
1990	C	512.6	542.5	30.0	5.9
1991	C	632.5	632.0	-0.5	-0.1
	Mean:	396.4	401.6	5.2	1.1
	Median:	369.3	376.2	0.0	0.0
	Min:	119.4	119.3	-0.5	-0.1
	Max:	632.5	632.0	30.0	5.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	285.7	285.9	0.3	0.1
1976	C	456.8	469.5	12.7	2.8
1977	C	629.9	629.9	0.0	0.0
1978	AN	418.1	418.1	0.0	0.0
1979	BN	293.9	294.0	0.1	0.0
1980	AN	255.5	255.5	0.0	0.0
1981	D	351.5	353.5	2.0	0.6
1982	W	317.0	317.0	0.0	0.0
1983	W	159.5	159.5	0.0	0.0
1984	W	296.9	296.9	0.0	0.0
1985	D	416.1	419.8	3.7	0.9
1986	W	249.1	249.1	0.0	0.0
1987	D	459.0	458.9	-0.1	0.0
1988	C	364.0	363.9	-0.1	0.0
1989	D	366.1	365.6	-0.6	-0.2
1990	C	398.8	410.0	11.1	2.8
1991	C	480.0	479.8	-0.2	0.0
	Mean:	364.6	366.3	1.7	0.4
	Median:	364.0	363.9	0.0	0.0
	Min:	159.5	159.5	-0.6	-0.2
	Max:	629.9	629.9	12.7	2.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	288.6	288.6	0.0	0.0
1976	C	418.7	422.1	3.4	0.8
1977	C	599.7	599.7	0.0	0.0
1978	AN	300.8	300.8	0.0	0.0
1979	BN	311.3	311.4	0.0	0.0
1980	AN	275.0	275.0	0.0	0.0
1981	D	387.3	387.5	0.2	0.1
1982	W	170.0	170.0	0.0	0.0
1983	W	172.2	172.2	0.0	0.0
1984	W	353.2	353.2	0.0	0.0
1985	D	444.9	445.1	0.2	0.0
1986	W	260.9	260.9	0.0	0.0
1987	D	422.0	422.0	0.0	0.0
1988	C	421.3	421.3	0.1	0.0
1989	D	293.8	293.0	-0.8	-0.3
1990	C	380.9	384.6	3.7	1.0
1991	C	375.8	375.8	0.0	0.0
	Mean:	345.7	346.1	0.4	0.1
	Median:	353.2	353.2	0.0	0.0
	Min:	170.0	170.0	-0.8	-0.3
	Max:	599.7	599.7	3.7	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	331.8	331.8	0.0	0.0
1976	C	504.8	505.9	1.0	0.2
1977	C	581.8	581.8	0.0	0.0
1978	AN	280.6	280.6	0.0	0.0
1979	BN	336.7	336.7	0.0	0.0
1980	AN	308.3	308.3	0.0	0.0
1981	D	433.2	433.3	0.1	0.0
1982	W	210.6	210.6	0.0	0.0
1983	W	172.2	172.2	0.0	0.0
1984	W	399.3	399.3	0.0	0.0
1985	D	477.9	477.9	0.0	0.0
1986	W	284.8	284.8	0.0	0.0
1987	D	475.3	475.3	0.0	0.0
1988	C	490.5	490.9	0.4	0.1
1989	D	390.1	389.9	-0.1	0.0
1990	C	447.3	448.4	1.2	0.3
1991	C	422.1	422.4	0.3	0.1
	Mean:	385.1	385.3	0.2	0.0
	Median:	399.3	399.3	0.0	0.0
	Min:	172.2	172.2	-0.1	0.0
	Max:	581.8	581.8	1.2	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	316.8	316.8	0.0	0.0
1976	C	481.8	490.7	8.9	1.8
1977	C	563.6	574.4	10.8	1.9
1978	AN	269.9	269.9	0.0	0.0
1979	BN	322.9	322.9	0.0	0.0
1980	AN	323.8	323.8	0.0	0.0
1981	D	374.8	381.5	6.7	1.8
1982	W	263.2	263.2	0.0	0.0
1983	W	131.5	131.5	0.0	0.0
1984	W	370.6	370.6	0.1	0.0
1985	D	369.6	370.0	0.4	0.1
1986	W	323.4	323.4	0.0	0.0
1987	D	469.6	484.0	14.4	3.1
1988	C	507.5	515.5	8.0	1.6
1989	D	395.3	395.2	0.0	0.0
1990	C	459.8	475.5	15.7	3.4
1991	C	402.5	414.0	11.5	2.9
	Mean:	373.3	377.8	4.5	1.0
	Median:	370.6	370.6	0.1	0.0
	Min:	131.5	131.5	0.0	0.0
	Max:	563.6	574.4	15.7	3.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	257.0	255.3	-1.8	-0.7
1976	C	389.5	397.7	8.2	2.1
1977	C	421.8	436.7	14.9	3.5
1978	AN	254.1	253.0	-1.2	-0.5
1979	BN	262.3	261.1	-1.1	-0.4
1980	AN	283.1	282.5	-0.6	-0.2
1981	D	325.1	326.9	1.8	0.6
1982	W	274.5	272.5	-2.1	-0.8
1983	W	196.5	196.5	0.0	0.0
1984	W	287.4	283.3	-4.1	-1.4
1985	D	333.1	333.2	0.1	0.0
1986	W	279.3	276.4	-2.8	-1.0
1987	D	332.2	343.7	11.6	3.5
1988	C	365.5	378.7	13.2	3.6
1989	D	303.5	302.7	-0.8	-0.3
1990	C	404.5	428.3	23.9	5.9
1991	C	386.5	402.7	16.2	4.2
	Mean:	315.1	319.5	4.4	1.1
	Median:	303.5	302.7	0.0	0.0
	Min:	196.5	196.5	-4.1	-1.4
	Max:	421.8	436.7	23.9	5.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	273.9	271.5	-2.4	-0.9
1976	C	349.2	351.7	2.5	0.7
1977	C	470.3	477.0	6.6	1.4
1978	AN	283.1	275.9	-7.2	-2.5
1979	BN	331.5	318.6	-12.9	-3.9
1980	AN	268.2	262.8	-5.4	-2.0
1981	D	421.7	417.4	-4.3	-1.0
1982	W	273.4	271.7	-1.7	-0.6
1983	W	195.2	195.2	0.0	0.0
1984	W	269.1	268.2	-0.9	-0.3
1985	D	427.6	427.6	0.0	0.0
1986	W	279.8	280.3	0.5	0.2
1987	D	405.6	374.2	-31.5	-7.8
1988	C	501.1	507.1	5.9	1.2
1989	D	399.9	394.4	-5.5	-1.4
1990	C	515.2	523.7	8.5	1.6
1991	C	535.0	541.3	6.2	1.2
	Mean:	364.7	362.3	-2.4	-0.8
	Median:	349.2	351.7	-0.9	-0.3
	Min:	195.2	195.2	-31.5	-7.8
	Max:	535.0	541.3	8.5	1.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	343.6	333.0	-10.5	-3.1
1976	C	444.2	446.1	1.9	0.4
1977	C	545.8	551.9	6.2	1.1
1978	AN	434.5	397.6	-37.0	-8.5
1979	BN	474.4	443.6	-30.8	-6.5
1980	AN	354.5	352.1	-2.3	-0.6
1981	D	487.8	486.0	-1.8	-0.4
1982	W	356.1	356.4	0.4	0.1
1983	W	287.1	287.1	0.0	0.0
1984	W	394.6	394.8	0.2	0.1
1985	D	481.7	481.6	-0.1	0.0
1986	W	358.3	358.5	0.2	0.1
1987	D	508.0	489.7	-18.3	-3.6
1988	C	509.5	519.9	10.4	2.0
1989	D	458.4	452.1	-6.4	-1.4
1990	C	500.8	495.9	-4.8	-1.0
1991	C	486.6	483.8	-2.9	-0.6
	Mean:	436.8	431.2	-5.6	-1.3
	Median:	458.4	446.1	-1.8	-0.4
	Min:	287.1	287.1	-37.0	-8.5
	Max:	545.8	551.9	10.4	2.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at Stockton Intake under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	EC (umhos/cm)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	394.0	361.6	334.2	331.8	311.5	283.2	313.7	363.6	282.7	263.2	315.3	367.8
CEQA Modified Flow Alternative	392.5	361.5	335.1	335.0	316.2	284.2	313.8	364.0	288.0	265.5	311.4	362.1
Difference	-1.5	-0.1	0.9	3.2	4.7	1.0	0.2	0.4	5.3	2.3	-3.9	-5.8
Percent Difference[3]	-0.4	0.0	0.3	1.0	1.5	0.4	0.1	0.1	1.9	0.9	-1.2	-1.6
Water Year Types[1]												
Wet												
CEQA No Project Alternative	303.3	278.0	233.9	246.7	213.5	211.0	234.6	263.3	236.6	198.7	206.8	282.4
CEQA Modified Flow Alternative	303.3	278.1	233.9	249.7	215.5	211.1	234.6	263.3	236.7	197.4	206.2	280.5
Difference	0.0	0.1	0.0	3.0	2.0	0.0	0.0	0.0	0.0	-1.3	-0.7	-1.8
Percent Difference	0.0	0.0	0.0	1.2	0.9	0.0	0.0	0.0	0.0	-0.6	-0.3	-0.7
Above Normal												
CEQA No Project Alternative	499.5	435.5	354.7	310.3	231.8	253.3	249.4	262.7	254.0	210.3	229.7	327.4
CEQA Modified Flow Alternative	492.3	432.8	359.0	311.5	231.8	253.3	249.4	262.7	254.0	209.3	220.3	307.2
Difference	-7.2	-2.7	4.3	1.2	0.0	0.0	0.0	0.0	0.0	-1.0	-9.4	-20.3
Percent Difference	-1.4	-0.6	1.2	0.4	0.0	0.0	0.0	0.0	0.0	-0.5	-4.1	-6.2
Below Normal												
CEQA No Project Alternative	359.7	359.1	374.8	323.5	251.7	261.1	291.0	324.7	236.7	203.3	291.5	417.4
CEQA Modified Flow Alternative	355.0	357.8	374.0	323.4	251.7	261.2	291.0	324.7	236.8	201.4	274.0	383.5
Difference	-4.7	-1.3	-0.8	-0.1	0.0	0.1	0.0	0.0	0.0	-1.8	-17.4	-33.9
Percent Difference	-1.3	-0.4	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.9	-6.0	-8.1
Dry												
CEQA No Project Alternative	416.1	405.4	341.1	311.3	346.4	301.6	348.4	418.8	280.1	284.5	379.3	424.0
CEQA Modified Flow Alternative	416.4	406.8	341.5	313.1	350.4	302.2	348.3	419.2	286.2	283.5	368.5	418.5
Difference	0.3	1.3	0.4	1.8	4.0	0.6	-0.1	0.4	6.1	-1.0	-10.8	-5.5
Percent Difference	0.1	0.3	0.1	0.6	1.2	0.2	0.0	0.1	2.2	-0.4	-2.8	-1.3
Critical												
CEQA No Project Alternative	431.6	381.0	412.5	443.6	425.4	356.9	395.1	467.8	351.4	343.8	411.5	414.6
CEQA Modified Flow Alternative	430.0	381.0	413.7	449.6	436.1	359.9	395.9	468.9	364.5	354.6	414.9	416.1
Difference	-1.6	0.0	1.2	5.9	10.6	3.0	0.7	1.1	13.1	10.8	3.4	1.5
Percent Difference	-0.4	0.0	0.3	1.3	2.5	0.9	0.2	0.2	3.7	3.1	0.8	0.4

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Stockton Intake Salinity

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	187.0	187.0	0.0	0.0
1976	C	304.7	303.9	-0.7	-0.2
1977	C	471.8	472.8	1.0	0.2
1978	AN	533.0	535.1	2.2	0.4
1979	BN	359.7	355.0	-4.7	-1.3
1980	AN	466.0	449.6	-16.5	-3.5
1981	D	333.9	333.6	-0.3	-0.1
1982	W	445.7	445.4	-0.3	-0.1
1983	W	225.2	225.2	0.0	0.0
1984	W	227.1	227.1	0.0	0.0
1985	D	443.2	442.9	-0.3	-0.1
1986	W	431.6	431.8	0.2	0.0
1987	D	378.8	376.1	-2.7	-0.7
1988	C	488.6	486.0	-2.6	-0.5
1989	D	508.7	513.1	4.4	0.9
1990	C	411.9	410.0	-1.9	-0.5
1991	C	480.9	477.3	-3.6	-0.7
	Mean:	394.0	392.5	-1.5	-0.4
	Median:	431.6	431.8	-0.3	-0.1
	Min:	187.0	187.0	-16.5	-3.5
	Max:	533.0	535.1	4.4	0.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	276.3	276.2	0.0	0.0
1976	C	250.5	252.1	1.6	0.6
1977	C	394.2	394.4	0.2	0.1
1978	AN	506.1	505.6	-0.5	-0.1
1979	BN	359.1	357.8	-1.3	-0.4
1980	AN	364.8	359.9	-4.9	-1.3
1981	D	354.9	354.8	-0.1	0.0
1982	W	330.6	330.7	0.1	0.0
1983	W	227.9	227.9	0.0	0.0
1984	W	162.0	162.0	0.0	0.0
1985	D	420.2	425.8	5.5	1.3
1986	W	393.3	393.4	0.2	0.1
1987	D	381.9	380.8	-1.1	-0.3
1988	C	390.7	390.2	-0.5	-0.1
1989	D	464.6	465.6	1.0	0.2
1990	C	367.8	367.4	-0.4	-0.1
1991	C	501.7	500.9	-0.9	-0.2
	Mean:	361.6	361.5	-0.1	0.0
	Median:	367.8	367.4	0.0	0.0
	Min:	162.0	162.0	-4.9	-1.3
	Max:	506.1	505.6	5.5	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	358.6	358.3	-0.3	-0.1
1976	C	346.9	359.9	12.9	3.7
1977	C	430.2	430.4	0.2	0.0
1978	AN	416.3	417.5	1.2	0.3
1979	BN	374.8	374.0	-0.8	-0.2
1980	AN	293.2	300.5	7.3	2.5
1981	D	369.5	369.1	-0.3	-0.1
1982	W	201.9	201.8	-0.1	0.0
1983	W	133.6	133.6	0.0	0.0
1984	W	124.6	124.6	0.0	0.0
1985	D	223.4	225.7	2.3	1.0
1986	W	351.0	351.3	0.3	0.1
1987	D	390.6	389.7	-0.9	-0.2
1988	C	408.0	407.2	-0.8	-0.2
1989	D	380.7	381.3	0.6	0.2
1990	C	444.7	438.5	-6.2	-1.4
1991	C	432.8	432.6	-0.2	0.0
	Mean:	334.2	335.1	0.9	0.3
	Median:	369.5	369.1	0.0	0.0
	Min:	124.6	124.6	-6.2	-1.4
	Max:	444.7	438.5	12.9	3.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	362.7	379.0	16.3	4.5
1976	C	406.8	427.9	21.1	5.2
1977	C	442.3	442.3	0.1	0.0
1978	AN	409.8	410.7	0.9	0.2
1979	BN	323.5	323.4	-0.1	0.0
1980	AN	210.7	212.3	1.6	0.8
1981	D	284.4	288.5	4.1	1.4
1982	W	283.7	283.6	-0.1	0.0
1983	W	136.8	136.8	0.0	0.0
1984	W	148.8	148.8	0.0	0.0
1985	D	220.3	223.0	2.7	1.2
1986	W	301.7	300.3	-1.4	-0.5
1987	D	356.0	355.6	-0.4	-0.1
1988	C	408.8	407.6	-1.2	-0.3
1989	D	384.5	385.2	0.8	0.2
1990	C	531.2	541.1	9.9	1.9
1991	C	429.1	428.8	-0.3	-0.1
	Mean:	331.8	335.0	3.2	0.8
	Median:	356.0	355.6	0.1	0.0
	Min:	136.8	136.8	-1.4	-0.5
	Max:	531.2	541.1	21.1	5.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	338.6	348.6	9.9	2.9
1976	C	480.5	507.9	27.5	5.7
1977	C	482.0	482.0	0.0	0.0
1978	AN	318.1	318.1	-0.1	0.0
1979	BN	251.7	251.7	0.0	0.0
1980	AN	145.5	145.5	0.0	0.0
1981	D	266.0	273.8	7.8	2.9
1982	W	181.4	181.4	0.0	0.0
1983	W	118.9	118.9	0.0	0.0
1984	W	216.5	216.5	0.0	0.0
1985	D	310.4	318.3	7.8	2.5
1986	W	211.9	212.0	0.1	0.0
1987	D	421.6	421.3	-0.2	0.0
1988	C	271.9	271.7	-0.2	-0.1
1989	D	387.6	388.2	0.6	0.2
1990	C	415.9	442.2	26.3	6.3
1991	C	476.8	476.5	-0.3	-0.1
	Mean:	311.5	316.1	4.7	1.2
	Median:	310.4	318.1	0.0	0.0
	Min:	118.9	118.9	-0.3	-0.1
	Max:	482.0	507.9	27.5	6.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	247.5	247.5	0.1	0.0
1976	C	351.1	359.9	8.8	2.5
1977	C	483.1	483.2	0.0	0.0
1978	AN	309.8	309.8	0.0	0.0
1979	BN	261.1	261.2	0.1	0.0
1980	AN	196.8	196.8	0.0	0.0
1981	D	285.2	286.5	1.2	0.4
1982	W	228.0	227.9	0.0	0.0
1983	W	138.1	138.1	0.0	0.0
1984	W	264.8	264.8	0.0	0.0
1985	D	330.7	332.8	2.1	0.6
1986	W	176.9	177.0	0.0	0.0
1987	D	335.0	334.9	-0.1	0.0
1988	C	290.6	290.6	0.0	0.0
1989	D	255.5	254.5	-1.0	-0.4
1990	C	298.8	305.3	6.5	2.2
1991	C	360.7	360.6	-0.1	0.0
	Mean:	283.2	284.2	1.0	0.3
	Median:	285.2	286.5	0.0	0.0
	Min:	138.1	138.1	-1.0	-0.4
	Max:	483.1	483.2	8.8	2.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	276.4	276.3	0.0	0.0
1976	C	392.3	393.9	1.6	0.4
1977	C	512.0	512.0	0.0	0.0
1978	AN	242.8	242.8	0.0	0.0
1979	BN	291.0	291.0	0.0	0.0
1980	AN	256.0	256.0	0.0	0.0
1981	D	371.0	371.2	0.2	0.1
1982	W	158.7	158.7	0.0	0.0
1983	W	175.1	175.1	0.0	0.0
1984	W	338.3	338.3	0.0	0.0
1985	D	415.1	415.0	-0.1	0.0
1986	W	224.7	224.7	0.0	0.0
1987	D	369.1	369.1	0.0	0.0
1988	C	378.3	378.5	0.2	0.1
1989	D	238.3	237.7	-0.5	-0.2
1990	C	339.5	341.1	1.6	0.5
1991	C	353.6	353.8	0.2	0.1
	Mean:	313.7	313.8	0.2	0.1
	Median:	338.3	338.3	0.0	0.0
	Min:	158.7	158.7	-0.5	-0.2
	Max:	512.0	512.0	1.6	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	314.1	314.1	0.0	0.0
1976	C	487.7	488.8	1.1	0.2
1977	C	543.2	543.3	0.1	0.0
1978	AN	230.0	230.0	0.0	0.0
1979	BN	324.7	324.7	0.0	0.0
1980	AN	295.3	295.3	0.0	0.0
1981	D	416.9	417.6	0.7	0.2
1982	W	185.5	185.5	0.0	0.0
1983	W	172.4	172.4	0.0	0.0
1984	W	382.5	382.5	0.0	0.0
1985	D	430.8	430.8	0.0	0.0
1986	W	262.0	261.9	0.0	0.0
1987	D	474.2	475.3	1.1	0.2
1988	C	477.5	477.8	0.3	0.1
1989	D	353.3	353.2	-0.1	0.0
1990	C	435.2	437.6	2.4	0.6
1991	C	395.6	396.9	1.3	0.3
	Mean:	363.6	364.0	0.4	0.1
	Median:	382.5	382.5	0.0	0.0
	Min:	172.4	172.4	-0.1	0.0
	Max:	543.2	543.3	2.4	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	251.2	251.2	0.0	0.0
1976	C	368.8	378.4	9.5	2.6
1977	C	410.6	421.5	10.9	2.7
1978	AN	232.5	232.5	0.0	0.0
1979	BN	236.7	236.7	0.0	0.0
1980	AN	275.6	275.6	0.0	0.0
1981	D	264.5	270.2	5.7	2.2
1982	W	238.6	238.6	0.0	0.0
1983	W	136.1	136.1	0.0	0.0
1984	W	271.5	271.6	0.1	0.0
1985	D	265.4	265.7	0.2	0.1
1986	W	285.7	285.7	0.0	0.0
1987	D	331.6	350.0	18.4	5.5
1988	C	359.7	371.4	11.7	3.3
1989	D	258.9	258.9	0.0	0.0
1990	C	327.3	347.6	20.3	6.2
1991	C	290.6	303.8	13.2	4.5
	Mean:	282.7	288.0	5.3	1.6
	Median:	271.5	271.6	0.1	0.0
	Min:	136.1	136.1	0.0	0.0
	Max:	410.6	421.5	20.3	6.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	188.5	187.4	-1.1	-0.6
1976	C	312.9	317.8	4.9	1.6
1977	C	362.7	371.7	9.0	2.5
1978	AN	197.9	197.2	-0.7	-0.4
1979	BN	203.3	201.4	-1.9	-0.9
1980	AN	222.7	221.5	-1.2	-0.5
1981	D	294.5	294.0	-0.4	-0.1
1982	W	212.9	210.7	-2.2	-1.0
1983	W	181.1	181.1	0.0	0.0
1984	W	202.0	200.1	-1.9	-0.9
1985	D	303.1	303.1	0.0	0.0
1986	W	208.8	207.7	-1.1	-0.5
1987	D	267.9	265.3	-2.7	-1.0
1988	C	314.2	320.5	6.3	2.0
1989	D	272.7	271.7	-1.0	-0.4
1990	C	361.5	381.6	20.1	5.6
1991	C	367.7	381.3	13.6	3.7
	Mean:	263.2	265.5	2.3	0.5
	Median:	267.9	265.3	-0.7	-0.4
	Min:	181.1	181.1	-2.7	-1.0
	Max:	367.7	381.6	20.1	5.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	216.2	212.1	-4.1	-1.9
1976	C	287.9	289.2	1.4	0.5
1977	C	423.6	427.0	3.4	0.8
1978	AN	239.7	226.4	-13.4	-5.6
1979	BN	291.5	274.0	-17.4	-6.0
1980	AN	219.7	214.3	-5.4	-2.5
1981	D	375.9	371.6	-4.3	-1.1
1982	W	213.6	213.4	-0.2	-0.1
1983	W	170.3	170.3	0.0	0.0
1984	W	212.5	212.6	0.1	0.0
1985	D	386.4	386.4	0.0	0.0
1986	W	221.5	222.5	1.0	0.5
1987	D	378.8	345.6	-33.2	-8.8
1988	C	423.1	426.6	3.4	0.8
1989	D	376.1	370.3	-5.7	-1.5
1990	C	442.7	447.7	5.1	1.2
1991	C	480.2	483.7	3.5	0.7
	Mean:	315.3	311.4	-3.9	-1.4
	Median:	291.5	289.2	0.0	0.0
	Min:	170.3	170.3	-33.2	-8.8
	Max:	480.2	483.7	5.1	1.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Salinity

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	EC (umhos/cm)	EC (umhos/cm)	Absolute Difference	Relative Difference (%)
1975	W	250.7	240.7	-10.0	-4.0
1976	C	398.4	400.2	1.8	0.5
1977	C	462.8	467.7	4.9	1.1
1978	AN	367.2	328.7	-38.5	-10.5
1979	BN	417.4	383.5	-33.9	-8.1
1980	AN	287.7	285.7	-2.0	-0.7
1981	D	423.7	422.1	-1.5	-0.4
1982	W	279.0	279.4	0.4	0.1
1983	W	263.9	263.9	0.0	0.0
1984	W	337.3	337.5	0.2	0.1
1985	D	414.9	414.7	-0.2	0.0
1986	W	280.8	281.0	0.2	0.1
1987	D	457.9	443.6	-14.3	-3.1
1988	C	395.5	403.2	7.7	1.9
1989	D	399.7	393.5	-6.1	-1.5
1990	C	405.2	401.2	-4.0	-1.0
1991	C	410.9	408.1	-2.7	-0.7
	Mean:	367.8	362.0	-5.8	-1.5
	Median:	398.4	393.5	-1.5	-0.4
	Min:	250.7	240.7	-38.5	-10.5
	Max:	462.8	467.7	7.7	1.9
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Chlorides at the Old River at Hwy 4 (CCWD Los Vaqueros) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Chlorides (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	129.3	102.8	102.0	86.3	64.8	44.2	36.9	41.2	45.3	54.8	98.7	132.3
CEQA Modified Flow Alternative	127.9	102.6	102.5	87.8	66.5	44.5	37.0	42.6	47.4	56.2	96.3	128.5
Difference	-1.4	-0.2	0.5	1.5	1.7	0.3	0.1	1.4	2.1	1.4	-2.4	-3.8
Percent Difference[3]	-1.1	-0.2	0.5	1.8	2.7	0.7	0.2	3.4	4.7	2.5	-2.5	-2.9
Water Year Types[1]												
Wet												
CEQA No Project Alternative	71.4	49.8	58.8	43.3	32.3	23.8	23.2	26.9	21.4	14.2	31.3	69.3
CEQA Modified Flow Alternative	71.4	49.8	58.8	44.7	33.4	23.8	23.2	26.9	21.4	14.1	31.1	68.0
Difference	0.0	0.0	0.0	1.4	1.1	0.0	0.0	0.0	0.0	-0.1	-0.2	-1.3
Percent Difference	0.0	0.0	0.0	3.3	3.4	0.1	0.0	0.0	0.0	-0.8	-0.7	-1.9
Above Normal												
CEQA No Project Alternative	202.6	143.3	107.8	70.3	43.8	45.7	30.7	34.0	26.6	16.3	46.8	113.8
CEQA Modified Flow Alternative	196.6	141.4	109.8	71.7	43.8	45.7	30.7	34.0	26.6	15.8	40.7	99.4
Difference	-6.0	-1.9	2.0	1.3	0.0	0.0	0.0	0.0	0.0	-0.5	-6.1	-14.4
Percent Difference	-2.9	-1.3	1.9	1.9	0.1	0.1	0.0	0.0	0.0	-3.1	-13.0	-12.6
Below Normal												
CEQA No Project Alternative	129.3	115.1	117.3	74.7	33.8	29.5	29.8	32.6	24.3	24.9	85.9	170.4
CEQA Modified Flow Alternative	121.4	113.4	116.7	74.6	33.8	29.5	29.9	32.6	24.3	23.8	75.3	148.7
Difference	-7.9	-1.7	-0.6	-0.1	0.0	0.0	0.0	0.0	0.0	-1.2	-10.6	-21.6
Percent Difference	-6.1	-1.5	-0.5	-0.1	0.1	0.1	0.1	0.0	0.0	-4.7	-12.4	-12.7
Dry												
CEQA No Project Alternative	138.5	132.1	102.3	77.3	65.3	36.4	32.2	41.6	43.5	72.5	136.2	172.0
CEQA Modified Flow Alternative	138.9	132.8	102.4	78.1	66.4	36.6	32.2	41.7	45.9	71.7	129.8	168.6
Difference	0.4	0.7	0.1	0.8	1.1	0.2	0.0	0.0	2.4	-0.8	-6.4	-3.3
Percent Difference	0.3	0.5	0.1	1.0	1.7	0.6	-0.1	0.1	5.5	-1.2	-4.7	-1.9
Critical												
CEQA No Project Alternative	150.5	113.5	139.7	145.3	111.5	73.1	58.4	59.8	82.3	102.7	159.4	163.3
CEQA Modified Flow Alternative	149.2	113.5	140.5	147.9	115.4	73.9	58.7	64.5	87.5	108.6	161.0	164.3
Difference	-1.3	-0.1	0.8	2.6	3.8	0.8	0.3	4.8	5.2	5.9	1.6	1.0
Percent Difference	-0.8	-0.1	0.6	1.8	3.4	1.1	0.4	8.0	6.4	5.7	1.0	0.6

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	7.0	7.0	0.0	0.0
1976	C	30.2	29.0	-1.1	-3.6
1977	C	183.9	185.2	1.3	0.7
1978	AN	220.0	222.3	2.2	1.0
1979	BN	129.3	121.4	-7.9	-6.1
1980	AN	185.1	171.0	-14.1	-7.6
1981	D	98.9	98.2	-0.7	-0.7
1982	W	159.7	159.4	-0.3	-0.2
1983	W	24.6	24.6	0.0	0.0
1984	W	15.5	15.6	0.0	0.0
1985	D	162.0	161.6	-0.4	-0.2
1986	W	150.4	150.4	0.0	0.0
1987	D	113.9	113.6	-0.4	-0.4
1988	C	184.2	181.9	-2.3	-1.2
1989	D	179.1	182.3	3.2	1.8
1990	C	156.0	154.4	-1.6	-1.0
1991	C	198.0	195.5	-2.5	-1.3
	Mean:	129.3	127.8	-1.4	-1.1
	Median:	156.0	154.4	-0.4	-0.2
	Min:	7.0	7.0	-14.1	-7.6
	Max:	220.0	222.3	3.2	1.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	45.6	45.5	0.0	0.0
1976	C	34.3	35.5	1.1	3.2
1977	C	133.8	134.1	0.3	0.2
1978	AN	172.5	172.8	0.2	0.1
1979	BN	115.1	113.4	-1.7	-1.5
1980	AN	114.0	110.0	-4.1	-3.6
1981	D	108.4	108.3	-0.2	-0.2
1982	W	76.5	76.5	0.0	0.0
1983	W	12.3	12.3	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	133.1	135.9	2.8	2.1
1986	W	107.7	107.8	0.1	0.1
1987	D	123.7	122.8	-0.9	-0.7
1988	C	114.0	113.7	-0.4	-0.4
1989	D	163.1	164.1	1.0	0.6
1990	C	105.7	105.3	-0.4	-0.4
1991	C	179.8	178.7	-1.1	-0.6
	Mean:	102.7	102.6	-0.2	-0.1
	Median:	114.0	110.0	0.0	0.0
	Min:	7.0	7.0	-4.1	-3.6
	Max:	179.8	178.7	2.8	3.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	118.0	117.9	-0.1	-0.1
1976	C	107.0	114.0	7.1	6.6
1977	C	161.7	161.8	0.1	0.1
1978	AN	139.7	140.2	0.6	0.4
1979	BN	117.3	116.7	-0.6	-0.5
1980	AN	76.0	79.4	3.5	4.6
1981	D	126.2	126.0	-0.2	-0.2
1982	W	22.5	22.5	0.0	0.0
1983	W	33.0	33.0	0.0	0.0
1984	W	7.9	7.9	0.0	0.0
1985	D	28.6	29.4	0.7	2.4
1986	W	112.8	112.9	0.1	0.1
1987	D	133.3	132.7	-0.6	-0.5
1988	C	140.0	139.6	-0.4	-0.3
1989	D	121.1	121.5	0.4	0.3
1990	C	146.2	143.6	-2.6	-1.8
1991	C	143.5	143.2	-0.3	-0.2
	Mean:	102.0	102.5	0.5	0.6
	Median:	118.0	117.9	0.0	0.0
	Min:	7.9	7.9	-2.6	-1.8
	Max:	161.7	161.8	7.1	6.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	104.0	111.4	7.4	7.1
1976	C	128.7	139.2	10.5	8.2
1977	C	155.6	155.7	0.0	0.0
1978	AN	105.9	106.7	0.7	0.7
1979	BN	74.6	74.6	-0.1	-0.1
1980	AN	34.7	36.6	1.9	5.5
1981	D	64.5	66.6	2.1	3.3
1982	W	37.4	37.4	0.0	0.0
1983	W	11.4	11.4	0.0	0.0
1984	W	12.3	12.2	0.0	0.0
1985	D	26.9	27.7	0.8	3.0
1986	W	51.3	51.0	-0.3	-0.6
1987	D	99.7	99.5	-0.2	-0.2
1988	C	108.9	108.3	-0.6	-0.6
1989	D	118.0	118.4	0.4	0.3
1990	C	195.4	198.7	3.3	1.7
1991	C	137.9	137.6	-0.2	-0.1
	Mean:	86.3	87.8	1.5	1.7
	Median:	99.7	99.5	0.0	0.0
	Min:	11.4	11.4	-0.6	-0.6
	Max:	195.4	198.7	10.5	8.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	55.2	61.0	5.8	10.5
1976	C	149.9	163.1	13.2	8.8
1977	C	154.7	154.7	0.0	0.0
1978	AN	47.3	47.3	0.0	0.0
1979	BN	33.8	33.8	0.0	0.0
1980	AN	40.2	40.3	0.1	0.2
1981	D	35.2	37.3	2.0	5.7
1982	W	26.3	26.3	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	25.3	25.3	0.0	0.0
1985	D	47.7	49.9	2.2	4.6
1986	W	47.6	47.3	-0.3	-0.6
1987	D	76.4	76.3	-0.1	-0.1
1988	C	35.9	35.9	-0.1	-0.3
1989	D	101.7	102.0	0.3	0.3
1990	C	71.7	77.9	6.2	8.6
1991	C	145.5	145.3	-0.2	-0.1
	Mean:	64.8	66.5	1.7	2.2
	Median:	47.6	47.3	0.0	0.0
	Min:	7.0	7.0	-0.3	-0.6
	Max:	154.7	163.1	13.2	10.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	26.7	26.9	0.2	0.7
1976	C	59.0	61.1	2.2	3.7
1977	C	141.2	141.2	0.0	0.0
1978	AN	49.9	49.9	0.0	0.0
1979	BN	29.5	29.5	0.0	0.0
1980	AN	41.5	41.5	0.1	0.2
1981	D	25.8	26.2	0.4	1.6
1982	W	30.4	30.4	0.0	0.0
1983	W	12.0	12.0	0.0	0.0
1984	W	22.8	22.8	0.0	0.0
1985	D	41.4	42.1	0.7	1.7
1986	W	27.0	26.9	0.0	0.0
1987	D	43.2	43.2	0.0	0.0
1988	C	40.1	40.1	0.0	0.0
1989	D	35.0	34.9	-0.2	-0.6
1990	C	43.1	44.9	1.8	4.2
1991	C	82.2	82.1	-0.1	-0.1
	Mean:	44.2	44.5	0.3	0.7
	Median:	40.1	40.1	0.0	0.0
	Min:	12.0	12.0	-0.2	-0.6
	Max:	141.2	141.2	2.2	4.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	26.1	26.1	0.0	0.0
1976	C	46.0	46.6	0.6	1.3
1977	C	121.1	121.1	0.0	0.0
1978	AN	30.9	30.9	0.0	0.0
1979	BN	29.8	29.9	0.0	0.0
1980	AN	30.5	30.6	0.0	0.0
1981	D	30.9	31.0	0.1	0.3
1982	W	13.1	13.1	0.0	0.0
1983	W	14.9	14.9	0.0	0.0
1984	W	28.3	28.3	0.0	0.0
1985	D	39.6	39.5	-0.1	-0.3
1986	W	33.3	33.3	0.0	0.0
1987	D	35.2	35.2	0.0	0.0
1988	C	42.0	42.0	0.0	0.0
1989	D	23.2	23.0	-0.1	-0.4
1990	C	44.1	44.7	0.6	1.4
1991	C	38.9	38.9	0.0	0.0
	Mean:	36.9	37.0	0.1	0.1
	Median:	30.9	31.0	0.0	0.0
	Min:	13.1	13.1	-0.1	-0.4
	Max:	121.1	121.1	0.6	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	31.9	31.9	0.0	0.0
1976	C	54.6	77.6	23.0	42.1
1977	C	105.4	105.5	0.0	0.0
1978	AN	35.4	35.4	0.0	0.0
1979	BN	32.6	32.6	0.0	0.0
1980	AN	32.6	32.6	0.0	0.0
1981	D	40.8	40.8	0.1	0.2
1982	W	22.1	22.1	0.0	0.0
1983	W	14.3	14.3	0.0	0.0
1984	W	37.8	37.8	0.0	0.0
1985	D	46.5	46.5	0.0	0.0
1986	W	28.3	28.3	0.0	0.0
1987	D	45.4	45.5	0.1	0.2
1988	C	51.5	51.6	0.2	0.4
1989	D	33.9	33.8	0.0	0.0
1990	C	46.9	47.3	0.4	0.9
1991	C	40.4	40.6	0.2	0.5
	Mean:	41.2	42.6	1.4	2.6
	Median:	37.8	37.8	0.0	0.0
	Min:	14.3	14.3	0.0	0.0
	Max:	105.4	105.5	23.0	42.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	20.7	20.7	0.0	0.0
1976	C	99.8	105.2	5.4	5.4
1977	C	116.9	119.4	2.6	2.2
1978	AN	25.8	25.8	0.0	0.0
1979	BN	24.3	24.3	0.0	0.0
1980	AN	27.4	27.4	0.0	0.0
1981	D	37.2	39.6	2.4	6.4
1982	W	18.3	18.3	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	33.7	33.7	0.0	0.0
1985	D	38.6	38.7	0.1	0.3
1986	W	27.1	27.1	0.0	0.0
1987	D	59.7	66.9	7.2	12.1
1988	C	75.9	80.0	4.1	5.4
1989	D	38.5	38.5	0.0	0.0
1990	C	66.7	75.1	8.4	12.6
1991	C	52.1	57.9	5.8	11.1
	Mean:	45.3	47.4	2.1	3.3
	Median:	37.2	38.5	0.0	0.0
	Min:	7.0	7.0	0.0	0.0
	Max:	116.9	119.4	8.4	12.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					3

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	10.8	10.6	-0.1	-0.9
1976	C	92.1	94.9	2.8	3.0
1977	C	114.9	119.7	4.8	4.2
1978	AN	14.4	14.4	0.0	0.0
1979	BN	24.9	23.8	-1.2	-4.8
1980	AN	18.3	17.3	-1.0	-5.5
1981	D	80.2	80.0	-0.2	-0.2
1982	W	13.4	13.1	-0.3	-2.2
1983	W	7.0	7.0	0.0	0.0
1984	W	19.0	18.7	-0.3	-1.6
1985	D	83.1	83.1	0.0	0.0
1986	W	20.8	20.9	0.2	1.0
1987	D	61.7	59.0	-2.8	-4.5
1988	C	80.5	83.2	2.7	3.4
1989	D	65.0	64.6	-0.4	-0.6
1990	C	112.5	123.5	11.0	9.8
1991	C	113.5	121.7	8.2	7.2
	Mean:	54.8	56.2	1.4	0.5
	Median:	61.7	59.0	0.0	0.0
	Min:	7.0	7.0	-2.8	-5.5
	Max:	114.9	123.5	11.0	9.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	39.3	36.7	-2.7	-6.9
1976	C	85.1	85.8	0.7	0.8
1977	C	166.6	168.8	2.2	1.3
1978	AN	52.2	43.8	-8.4	-16.1
1979	BN	85.9	75.3	-10.6	-12.3
1980	AN	41.3	37.6	-3.7	-9.0
1981	D	136.3	133.8	-2.5	-1.8
1982	W	34.6	35.3	0.7	2.0
1983	W	7.0	7.0	0.0	0.0
1984	W	34.2	34.5	0.3	0.9
1985	D	141.4	141.4	0.0	0.0
1986	W	41.1	41.8	0.7	1.7
1987	D	136.3	116.5	-19.7	-14.5
1988	C	169.7	170.2	0.5	0.3
1989	D	130.9	127.6	-3.3	-2.5
1990	C	176.5	179.5	3.0	1.7
1991	C	199.0	200.7	1.7	0.9
	Mean:	98.7	96.3	-2.4	-3.1
	Median:	85.9	85.8	0.0	0.0
	Min:	7.0	7.0	-19.7	-16.1
	Max:	199.0	200.7	3.0	2.0
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	68.6	61.0	-7.6	-11.1
1976	C	160.3	161.6	1.3	0.8
1977	C	196.8	199.9	3.1	1.6
1978	AN	139.4	112.3	-27.1	-19.4
1979	BN	170.4	148.7	-21.6	-12.7
1980	AN	88.1	86.4	-1.7	-1.9
1981	D	173.8	172.9	-0.9	-0.5
1982	W	62.3	63.1	0.8	1.3
1983	W	11.9	11.9	0.0	0.0
1984	W	120.1	120.2	0.1	0.1
1985	D	168.9	168.7	-0.1	-0.1
1986	W	83.6	83.7	0.1	0.1
1987	D	188.3	180.0	-8.4	-4.5
1988	C	144.8	149.1	4.3	3.0
1989	D	156.8	153.0	-3.8	-2.4
1990	C	158.1	155.5	-2.7	-1.7
1991	C	156.4	155.6	-0.9	-0.6
	Mean:	132.3	128.5	-3.8	-2.8
	Median:	156.4	149.1	-0.9	-0.5
	Min:	11.9	11.9	-27.1	-19.4
	Max:	196.8	199.9	4.3	3.0
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Chlorides at CCWD Pumping Plant #1 (Rock Slough) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Chlorides (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	157.2	124.9	118.9	108.1	85.5	64.2	58.2	42.9	42.4	67.6	123.3	158.0
CEQA Modified Flow Alternative	155.0	124.4	119.4	109.6	87.7	64.7	58.3	43.2	44.7	69.1	120.4	153.2
Difference	-2.2	-0.5	0.4	1.5	2.2	0.5	0.1	0.3	2.3	1.5	-2.9	-4.8
Percent Difference[3]	-1.4	-0.4	0.4	1.4	2.6	0.7	0.1	0.7	5.4	2.2	-2.4	-3.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	91.1	68.8	78.4	83.6	68.5	67.7	65.1	33.0	24.1	21.9	39.0	83.5
CEQA Modified Flow Alternative	91.0	68.8	78.3	84.5	70.5	67.8	65.0	33.0	24.1	22.0	39.0	81.8
Difference	-0.1	0.0	0.0	0.9	2.0	0.1	-0.1	0.0	0.0	0.1	-0.1	-1.6
Percent Difference	-0.1	0.0	0.0	1.1	2.9	0.1	-0.1	0.0	0.0	0.4	-0.2	-1.9
Above Normal												
CEQA No Project Alternative	240.7	173.2	124.5	106.9	80.3	67.6	54.9	36.1	26.5	23.1	56.8	136.0
CEQA Modified Flow Alternative	230.6	170.2	126.7	109.6	80.4	67.6	54.9	36.1	26.5	22.8	49.6	117.9
Difference	-10.1	-3.0	2.2	2.7	0.1	0.0	0.0	0.0	0.0	-0.3	-7.2	-18.1
Percent Difference	-4.2	-1.7	1.8	2.6	0.1	0.0	0.0	0.0	0.0	-1.1	-12.7	-13.3
Below Normal												
CEQA No Project Alternative	163.8	136.9	135.2	94.3	44.2	29.5	45.1	36.6	24.7	30.0	104.3	198.4
CEQA Modified Flow Alternative	152.0	134.5	134.5	94.2	44.3	29.5	45.2	36.6	24.7	29.3	91.7	172.9
Difference	-11.8	-2.4	-0.7	-0.1	0.0	0.0	0.1	0.0	0.0	-0.7	-12.7	-25.5
Percent Difference	-7.2	-1.8	-0.5	-0.1	0.1	0.1	0.2	0.0	0.0	-2.3	-12.1	-12.9
Dry												
CEQA No Project Alternative	163.8	161.9	119.0	91.2	81.3	45.1	43.0	39.1	33.0	86.5	165.0	202.9
CEQA Modified Flow Alternative	164.4	162.3	119.0	92.1	83.3	45.5	42.9	39.2	35.0	85.0	157.3	198.6
Difference	0.6	0.4	0.0	0.9	2.0	0.4	-0.1	0.1	2.1	-1.5	-7.7	-4.2
Percent Difference	0.4	0.3	0.0	1.0	2.4	0.9	-0.1	0.4	6.2	-1.8	-4.7	-2.1
Critical												
CEQA No Project Alternative	183.4	129.6	154.0	149.4	116.3	81.4	67.4	59.9	78.3	123.4	204.6	197.2
CEQA Modified Flow Alternative	181.9	129.4	154.8	151.6	120.2	82.6	67.7	60.7	84.5	129.9	206.3	198.3
Difference	-1.5	-0.3	0.8	2.2	3.9	1.2	0.3	0.8	6.2	6.5	1.7	1.1
Percent Difference	-0.8	-0.2	0.5	1.5	3.3	1.5	0.5	1.4	7.9	5.2	0.8	0.6

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

CCWD Pumping Plant #1 (Rock Slough) Chlorides

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.2	2.2	0.0	0.0
1976	C	28.2	27.4	-0.8	-2.8
1977	C	231.6	233.4	1.8	0.8
1978	AN	250.0	250.0	0.0	0.0
1979	BN	163.8	152.0	-11.8	-7.2
1980	AN	231.3	211.2	-20.1	-8.7
1981	D	125.3	124.2	-1.0	-0.8
1982	W	207.8	207.4	-0.4	-0.2
1983	W	27.2	27.2	0.0	0.0
1984	W	28.3	28.3	0.0	0.0
1985	D	187.6	187.3	-0.3	-0.2
1986	W	190.1	190.1	0.0	0.0
1987	D	134.4	134.3	-0.1	-0.1
1988	C	234.2	230.9	-3.4	-1.5
1989	D	207.9	211.8	3.9	1.9
1990	C	183.6	181.6	-2.1	-1.1
1991	C	239.4	236.3	-3.2	-1.3
	Mean:	157.2	155.0	-2.2	-1.2
	Median:	187.6	187.3	-0.3	-0.2
	Min:	2.2	2.2	-20.1	-8.7
	Max:	250.0	250.0	3.9	1.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	39.1	39.1	0.0	0.0
1976	C	29.4	29.9	0.5	1.7
1977	C	157.5	158.0	0.5	0.3
1978	AN	200.2	200.5	0.2	0.1
1979	BN	136.9	134.5	-2.4	-1.8
1980	AN	146.2	139.9	-6.2	-4.2
1981	D	124.6	124.3	-0.2	-0.2
1982	W	112.2	112.2	0.0	0.0
1983	W	34.9	34.9	0.0	0.0
1984	W	32.4	32.4	0.0	0.0
1985	D	189.6	191.4	1.8	0.9
1986	W	125.4	125.4	0.1	0.1
1987	D	143.9	142.9	-1.0	-0.7
1988	C	128.0	127.4	-0.6	-0.5
1989	D	189.5	190.8	1.3	0.7
1990	C	116.6	116.1	-0.5	-0.4
1991	C	216.6	215.3	-1.2	-0.6
	Mean:	124.9	124.4	-0.5	-0.3
	Median:	128.0	127.4	0.0	0.0
	Min:	29.4	29.9	-6.2	-4.2
	Max:	216.6	215.3	1.8	1.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	123.9	123.6	-0.3	-0.2
1976	C	108.2	113.9	5.7	5.3
1977	C	198.5	198.7	0.2	0.1
1978	AN	159.2	159.6	0.4	0.3
1979	BN	135.2	134.5	-0.7	-0.5
1980	AN	89.8	93.7	3.9	4.3
1981	D	150.1	149.9	-0.2	-0.1
1982	W	21.3	21.2	0.0	0.0
1983	W	59.7	59.8	0.0	0.0
1984	W	52.1	52.1	0.0	0.0
1985	D	28.4	29.2	0.9	3.2
1986	W	134.8	134.9	0.1	0.1
1987	D	162.3	161.1	-1.2	-0.7
1988	C	155.8	155.7	-0.2	-0.1
1989	D	135.3	135.7	0.4	0.3
1990	C	158.1	156.7	-1.4	-0.9
1991	C	149.3	148.9	-0.4	-0.3
	Mean:	118.9	119.4	0.4	0.6
	Median:	135.2	134.9	0.0	0.0
	Min:	21.3	21.2	-1.4	-0.9
	Max:	198.5	198.7	5.7	5.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	108.4	113.5	5.1	4.7
1976	C	127.7	136.8	9.1	7.1
1977	C	185.2	185.4	0.2	0.1
1978	AN	166.5	167.3	0.7	0.4
1979	BN	94.2	94.1	-0.1	-0.1
1980	AN	47.2	52.0	4.7	9.9
1981	D	74.1	76.6	2.6	3.5
1982	W	70.0	70.0	0.0	0.0
1983	W	131.4	131.4	0.0	0.0
1984	W	27.8	27.8	0.0	0.0
1985	D	27.2	28.1	1.0	3.7
1986	W	80.3	79.9	-0.4	-0.5
1987	D	123.5	123.1	-0.4	-0.3
1988	C	105.8	105.4	-0.4	-0.4
1989	D	140.0	140.5	0.5	0.4
1990	C	181.6	184.4	2.7	1.5
1991	C	146.5	146.1	-0.4	-0.3
	Mean:	108.1	109.6	1.5	1.7
	Median:	108.4	113.5	0.2	0.1
	Min:	27.2	27.8	-0.4	-0.5
	Max:	185.2	185.4	9.1	9.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	93.6	103.9	10.3	11.0
1976	C	138.5	149.3	10.8	7.8
1977	C	157.4	157.5	0.1	0.1
1978	AN	66.1	66.1	0.0	0.0
1979	BN	44.2	44.3	0.0	0.0
1980	AN	94.5	94.8	0.3	0.3
1981	D	41.4	46.1	4.7	11.4
1982	W	40.0	40.0	0.0	0.0
1983	W	107.7	107.7	0.0	0.0
1984	W	29.3	29.3	0.0	0.0
1985	D	67.4	70.4	3.1	4.6
1986	W	71.8	71.4	-0.4	-0.6
1987	D	114.2	114.0	-0.2	-0.2
1988	C	33.9	33.8	-0.1	-0.3
1989	D	102.2	102.6	0.3	0.3
1990	C	101.4	110.2	8.8	8.7
1991	C	150.4	150.2	-0.2	-0.1
	Mean:	85.5	87.7	2.2	2.5
	Median:	93.6	94.8	0.0	0.0
	Min:	29.3	29.3	-0.4	-0.6
	Max:	157.4	157.5	10.8	11.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

CCWD Pumping Plant #1 (Rock Slough) Chlorides

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	42.6	43.1	0.5	1.2
1976	C	87.7	91.0	3.3	3.8
1977	C	125.6	125.6	0.0	0.0
1978	AN	76.0	76.0	0.0	0.0
1979	BN	29.5	29.5	0.0	0.0
1980	AN	59.1	59.2	0.1	0.2
1981	D	22.5	23.0	0.4	1.8
1982	W	64.3	64.3	0.0	0.0
1983	W	117.3	117.4	0.0	0.0
1984	W	25.9	25.9	0.0	0.0
1985	D	53.0	54.6	1.6	3.0
1986	W	88.6	88.5	-0.1	-0.1
1987	D	54.3	54.3	0.0	0.0
1988	C	35.3	35.3	0.0	0.0
1989	D	50.6	50.3	-0.3	-0.6
1990	C	58.6	61.4	2.8	4.8
1991	C	99.8	99.8	-0.1	-0.1
	Mean:	64.2	64.6	0.5	0.8
	Median:	58.6	59.2	0.0	0.0
	Min:	22.5	23.0	-0.3	-0.6
	Max:	125.6	125.6	3.3	4.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	46.1	45.9	-0.1	-0.2
1976	C	73.4	74.2	0.8	1.1
1977	C	105.4	105.4	0.0	0.0
1978	AN	65.5	65.5	0.0	0.0
1979	BN	45.1	45.2	0.1	0.2
1980	AN	44.4	44.4	0.0	0.0
1981	D	37.4	37.6	0.2	0.5
1982	W	65.4	65.4	0.0	0.0
1983	W	120.9	120.8	-0.1	-0.1
1984	W	41.3	41.3	0.0	0.0
1985	D	56.5	56.3	-0.3	-0.5
1986	W	51.7	51.7	0.0	0.0
1987	D	53.8	53.8	0.0	0.0
1988	C	59.7	59.7	0.0	0.0
1989	D	24.2	24.1	-0.1	-0.4
1990	C	55.0	55.9	0.9	1.6
1991	C	43.4	43.4	0.0	0.0
	Mean:	58.2	58.3	0.1	0.1
	Median:	53.8	53.8	0.0	0.0
	Min:	24.2	24.1	-0.3	-0.5
	Max:	120.9	120.8	0.9	1.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	35.1	35.1	0.0	0.0
1976	C	67.8	69.6	1.8	2.7
1977	C	91.4	91.5	0.1	0.1
1978	AN	37.5	37.5	0.0	0.0
1979	BN	36.6	36.6	0.0	0.0
1980	AN	34.6	34.6	0.0	0.0
1981	D	40.9	41.2	0.3	0.7
1982	W	28.7	28.7	0.0	0.0
1983	W	29.3	29.3	0.0	0.0
1984	W	43.0	43.0	0.0	0.0
1985	D	47.4	47.4	-0.1	-0.2
1986	W	28.9	28.9	0.0	0.0
1987	D	41.3	41.8	0.4	1.0
1988	C	59.2	59.7	0.5	0.8
1989	D	26.6	26.6	0.0	0.0
1990	C	44.1	45.2	1.1	2.5
1991	C	37.0	37.6	0.6	1.6
	Mean:	42.9	43.2	0.3	0.5
	Median:	37.5	37.6	0.0	0.0
	Min:	26.6	26.6	-0.1	-0.2
	Max:	91.4	91.5	1.8	2.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	23.7	23.7	0.0	0.0
1976	C	108.0	115.3	7.3	6.8
1977	C	123.2	125.8	2.7	2.2
1978	AN	26.4	26.4	0.0	0.0
1979	BN	24.7	24.7	0.0	0.0
1980	AN	26.5	26.5	0.0	0.0
1981	D	30.6	32.7	2.1	6.9
1982	W	23.3	23.3	0.0	0.0
1983	W	19.6	19.6	0.0	0.0
1984	W	28.0	28.0	0.0	0.0
1985	D	32.6	32.6	0.0	0.0
1986	W	25.6	25.6	0.0	0.0
1987	D	41.8	47.8	6.0	14.4
1988	C	57.7	60.5	2.8	4.9
1989	D	26.9	26.9	0.0	0.0
1990	C	57.0	68.1	11.1	19.5
1991	C	45.4	52.6	7.2	15.9
	Mean:	42.4	44.7	2.3	4.2
	Median:	28.0	28.0	0.0	0.0
	Min:	19.6	19.6	0.0	0.0
	Max:	123.2	125.8	11.1	19.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					3

CCWD Pumping Plant #1 (Rock Slough) Chlorides

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	20.6	20.6	0.1	0.5
1976	C	111.2	114.3	3.1	2.8
1977	C	136.2	141.5	5.3	3.9
1978	AN	21.9	22.0	0.1	0.5
1979	BN	30.0	29.3	-0.7	-2.3
1980	AN	24.2	23.6	-0.6	-2.5
1981	D	97.1	96.7	-0.4	-0.4
1982	W	19.8	19.7	-0.1	-0.5
1983	W	19.8	19.8	0.0	0.0
1984	W	24.6	24.7	0.1	0.4
1985	D	99.9	100.0	0.0	0.0
1986	W	25.0	25.3	0.3	1.2
1987	D	70.8	65.4	-5.4	-7.6
1988	C	92.1	94.5	2.4	2.6
1989	D	78.3	77.9	-0.4	-0.5
1990	C	137.9	150.1	12.3	8.9
1991	C	139.7	149.0	9.3	6.7
	Mean:	67.6	69.1	1.5	0.8
	Median:	70.8	65.4	0.1	0.4
	Min:	19.8	19.7	-5.4	-7.6
	Max:	139.7	150.1	12.3	8.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	47.3	44.2	-3.1	-6.6
1976	C	101.9	102.6	0.7	0.7
1977	C	214.4	217.6	3.1	1.4
1978	AN	62.9	53.2	-9.8	-15.6
1979	BN	104.3	91.7	-12.7	-12.2
1980	AN	50.7	46.1	-4.6	-9.1
1981	D	165.6	162.6	-3.1	-1.9
1982	W	40.0	41.1	1.2	3.0
1983	W	19.3	19.3	0.0	0.0
1984	W	39.7	40.2	0.5	1.3
1985	D	170.2	170.2	0.0	0.0
1986	W	48.9	49.9	1.0	2.0
1987	D	163.4	139.5	-23.9	-14.6
1988	C	227.9	229.5	1.7	0.7
1989	D	160.7	156.9	-3.8	-2.4
1990	C	228.8	231.6	2.8	1.2
1991	C	250.0	250.0	0.0	0.0
	Mean:	123.3	120.4	-2.9	-3.1
	Median:	104.3	102.6	0.0	0.0
	Min:	19.3	19.3	-23.9	-15.6
	Max:	250.0	250.0	3.1	3.0
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

CCWD Pumping Plant #1 (Rock Slough) Chlorides

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	83.5	73.9	-9.6	-11.5
1976	C	182.2	183.7	1.5	0.8
1977	C	246.4	250.0	3.6	1.5
1978	AN	166.3	132.2	-34.1	-20.5
1979	BN	198.4	172.9	-25.5	-12.9
1980	AN	105.7	103.6	-2.0	-1.9
1981	D	202.3	201.1	-1.2	-0.6
1982	W	73.8	75.0	1.2	1.6
1983	W	19.3	19.3	0.0	0.0
1984	W	142.5	142.6	0.1	0.1
1985	D	199.3	199.2	-0.1	-0.1
1986	W	98.2	98.4	0.2	0.2
1987	D	220.7	209.7	-11.0	-5.0
1988	C	172.8	178.2	5.4	3.1
1989	D	189.2	184.5	-4.6	-2.4
1990	C	193.4	189.6	-3.8	-2.0
1991	C	191.3	190.1	-1.2	-0.6
	Mean:	158.0	153.2	-4.8	-3.0
	Median:	182.2	178.2	-1.2	-0.6
	Min:	19.3	19.3	-34.1	-20.5
	Max:	246.4	250.0	5.4	3.1
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Chlorides at the Old River at Rock Slough (CCWD Intake) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Chlorides (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	146.4	112.6	114.4	90.5	61.6	35.7	28.8	32.0	33.1	63.9	122.4	161.0
CEQA Modified Flow Alternative	144.6	112.5	115.0	92.7	63.5	36.0	28.8	33.2	35.6	65.1	119.2	156.0
Difference	-1.8	-0.2	0.6	2.1	1.9	0.3	0.0	1.2	2.5	1.3	-3.3	-5.0
Percent Difference[3]	-1.3	-0.1	0.5	2.3	3.1	0.7	0.1	3.7	7.5	2.0	-2.7	-3.1
Water Year Types[1]												
Wet												
CEQA No Project Alternative	76.5	49.7	63.2	46.2	26.0	21.8	20.1	22.9	11.0	9.1	35.5	78.9
CEQA Modified Flow Alternative	76.4	49.7	63.2	48.3	27.3	21.9	20.1	22.9	11.0	9.3	35.3	77.3
Difference	0.0	0.0	0.0	2.1	1.2	0.0	0.0	0.0	0.0	0.2	-0.2	-1.6
Percent Difference	-0.1	0.0	0.0	4.5	4.8	0.1	0.0	0.0	0.0	2.1	-0.7	-2.0
Above Normal												
CEQA No Project Alternative	231.7	155.7	120.6	59.2	37.2	31.1	30.9	27.4	15.0	9.4	56.7	137.2
CEQA Modified Flow Alternative	223.2	153.4	123.8	60.6	37.2	31.1	30.9	27.4	15.0	8.7	48.0	119.3
Difference	-8.5	-2.3	3.1	1.3	0.0	0.0	0.0	0.0	0.0	-0.6	-8.6	-17.9
Percent Difference	-3.6	-1.5	2.6	2.3	0.1	0.0	0.0	0.0	0.0	-6.8	-15.2	-13.1
Below Normal												
CEQA No Project Alternative	152.2	134.4	131.5	71.6	28.9	24.4	24.1	27.0	10.8	24.5	106.4	212.2
CEQA Modified Flow Alternative	143.0	132.4	130.9	71.5	28.9	24.5	24.1	27.0	10.8	22.8	92.0	184.6
Difference	-9.3	-2.1	-0.6	-0.1	0.0	0.1	0.0	0.0	0.0	-1.7	-14.4	-27.7
Percent Difference	-6.1	-1.5	-0.5	-0.1	0.1	0.2	0.2	0.0	0.0	-6.9	-13.5	-13.0
Dry												
CEQA No Project Alternative	160.8	147.4	111.8	80.9	62.6	27.7	21.5	28.5	25.1	88.4	167.6	210.1
CEQA Modified Flow Alternative	161.3	148.3	111.9	82.0	63.9	27.9	21.5	28.6	27.3	86.3	159.7	206.3
Difference	0.5	0.9	0.1	1.1	1.3	0.2	-0.1	0.1	2.1	-2.1	-8.0	-3.7
Percent Difference	0.3	0.6	0.1	1.4	2.1	0.6	-0.2	0.5	8.5	-2.4	-4.7	-1.8
Critical												
CEQA No Project Alternative	169.6	126.2	161.7	158.9	112.7	60.1	43.4	46.9	73.4	128.6	202.7	203.0
CEQA Modified Flow Alternative	168.3	126.2	162.6	162.6	117.0	60.8	43.6	50.8	80.2	135.0	204.5	203.4
Difference	-1.4	0.1	0.9	3.7	4.3	0.7	0.2	3.9	6.8	6.4	1.8	0.4
Percent Difference	-0.8	0.0	0.6	2.3	3.8	1.1	0.4	8.3	9.2	5.0	0.9	0.2

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Old River at Rock Slough (CCWD Intake) Chlorides

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	7.0	7.0	0.0	0.0
1976	C	18.8	17.6	-1.2	-6.4
1977	C	212.2	213.8	1.6	0.8
1978	AN	250.0	250.0	0.0	0.0
1979	BN	152.2	143.0	-9.3	-6.1
1980	AN	213.3	196.4	-16.9	-7.9
1981	D	114.8	114.0	-0.8	-0.7
1982	W	174.2	173.9	-0.3	-0.2
1983	W	15.9	15.9	0.0	0.0
1984	W	21.5	21.5	0.0	0.0
1985	D	188.7	188.0	-0.6	-0.3
1986	W	163.7	163.7	0.1	0.1
1987	D	130.0	129.7	-0.3	-0.2
1988	C	201.7	199.4	-2.3	-1.1
1989	D	209.8	213.5	3.7	1.8
1990	C	174.0	172.1	-1.9	-1.1
1991	C	241.4	238.4	-3.0	-1.2
	Mean:	146.4	144.6	-1.8	-1.3
	Median:	174.0	172.1	-0.3	-0.2
	Min:	7.0	7.0	-16.9	-7.9
	Max:	250.0	250.0	3.7	1.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	49.3	49.3	0.0	0.0
1976	C	33.9	35.8	1.8	5.3
1977	C	157.3	157.7	0.4	0.3
1978	AN	189.0	189.0	0.0	0.0
1979	BN	134.4	132.4	-2.1	-1.6
1980	AN	122.4	117.8	-4.6	-3.8
1981	D	128.9	128.7	-0.2	-0.2
1982	W	69.2	69.3	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	9.5	9.5	0.0	0.0
1985	D	139.9	143.7	3.8	2.7
1986	W	113.2	113.3	0.1	0.1
1987	D	143.8	142.6	-1.2	-0.8
1988	C	121.4	121.0	-0.4	-0.3
1989	D	177.2	178.3	1.1	0.6
1990	C	111.6	111.1	-0.5	-0.4
1991	C	206.6	205.5	-1.1	-0.5
	Mean:	112.6	112.5	-0.2	0.1
	Median:	122.4	121.0	0.0	0.0
	Min:	7.0	7.0	-4.6	-3.8
	Max:	206.6	205.5	3.8	5.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	137.2	136.9	-0.2	-0.1
1976	C	127.3	136.3	9.0	7.1
1977	C	196.8	196.9	0.1	0.1
1978	AN	159.3	160.2	0.9	0.6
1979	BN	131.5	130.9	-0.6	-0.5
1980	AN	82.0	87.3	5.4	6.6
1981	D	140.2	139.9	-0.3	-0.2
1982	W	16.9	16.9	0.0	0.0
1983	W	25.8	25.8	0.0	0.0
1984	W	10.3	10.3	0.0	0.0
1985	D	22.9	23.6	0.7	3.1
1986	W	125.9	126.1	0.2	0.2
1987	D	149.8	149.1	-0.6	-0.4
1988	C	162.6	162.1	-0.5	-0.3
1989	D	134.5	134.9	0.4	0.3
1990	C	182.0	178.3	-3.7	-2.0
1991	C	139.9	139.5	-0.4	-0.3
	Mean:	114.4	115.0	0.6	0.8
	Median:	134.5	136.3	0.0	0.0
	Min:	10.3	10.3	-3.7	-2.0
	Max:	196.8	196.9	9.0	7.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	118.0	128.9	10.9	9.2
1976	C	147.8	160.9	13.1	8.9
1977	C	177.2	177.3	0.0	0.0
1978	AN	88.9	89.7	0.7	0.8
1979	BN	71.6	71.5	-0.1	-0.1
1980	AN	29.5	31.5	1.9	6.4
1981	D	63.1	66.2	3.1	4.9
1982	W	26.7	26.7	0.0	0.0
1983	W	20.2	20.2	0.0	0.0
1984	W	16.7	16.7	0.0	0.0
1985	D	25.5	26.6	1.1	4.3
1986	W	49.4	48.9	-0.5	-1.0
1987	D	108.9	108.7	-0.2	-0.2
1988	C	110.1	109.5	-0.6	-0.5
1989	D	126.2	126.6	0.5	0.4
1990	C	217.7	224.1	6.4	2.9
1991	C	141.6	141.2	-0.4	-0.3
	Mean:	90.5	92.7	2.1	2.1
	Median:	88.9	89.7	0.0	0.0
	Min:	16.7	16.7	-0.6	-1.0
	Max:	217.7	224.1	13.1	9.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	51.5	57.9	6.4	12.4
1976	C	164.4	179.6	15.1	9.2
1977	C	152.2	152.2	0.0	0.0
1978	AN	32.0	32.0	0.0	0.0
1979	BN	28.9	28.9	0.0	0.0
1980	AN	42.3	42.4	0.1	0.2
1981	D	30.6	32.9	2.3	7.5
1982	W	19.9	19.9	0.0	0.0
1983	W	8.3	8.3	0.0	0.0
1984	W	19.8	19.8	0.0	0.0
1985	D	48.5	51.1	2.6	5.4
1986	W	30.6	30.4	-0.2	-0.7
1987	D	76.8	76.7	-0.1	-0.1
1988	C	27.5	27.4	0.0	0.0
1989	D	94.3	94.8	0.4	0.4
1990	C	68.4	75.0	6.6	9.6
1991	C	151.0	150.7	-0.2	-0.1
	Mean:	61.6	63.5	1.9	2.6
	Median:	42.3	42.4	0.0	0.0
	Min:	8.3	8.3	-0.2	-0.7
	Max:	164.4	179.6	15.1	12.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Old River at Rock Slough (CCWD Intake) Chlorides

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	21.8	21.9	0.1	0.5
1976	C	55.6	57.6	2.0	3.6
1977	C	110.3	110.3	0.0	0.0
1978	AN	33.6	33.6	0.0	0.0
1979	BN	24.4	24.5	0.0	0.0
1980	AN	28.5	28.6	0.0	0.0
1981	D	18.1	18.5	0.4	2.2
1982	W	21.9	21.9	0.0	0.0
1983	W	13.2	13.2	0.0	0.0
1984	W	17.0	17.0	0.0	0.0
1985	D	33.7	34.2	0.6	1.8
1986	W	35.2	35.2	0.0	0.0
1987	D	31.0	30.9	0.0	0.0
1988	C	26.7	26.7	0.0	0.0
1989	D	28.1	27.9	-0.2	-0.7
1990	C	35.7	37.2	1.5	4.2
1991	C	72.3	72.3	-0.1	-0.1
	Mean:	35.7	36.0	0.3	0.7
	Median:	28.5	28.6	0.0	0.0
	Min:	13.2	13.2	-0.2	-0.7
	Max:	110.3	110.3	2.0	4.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	21.4	21.4	0.0	0.0
1976	C	35.8	36.2	0.4	1.1
1977	C	88.7	88.7	0.0	0.0
1978	AN	39.4	39.4	0.0	0.0
1979	BN	24.1	24.1	0.0	0.0
1980	AN	22.4	22.4	0.0	0.0
1981	D	20.9	21.0	0.0	0.0
1982	W	16.1	16.1	0.0	0.0
1983	W	16.9	16.9	0.0	0.0
1984	W	20.5	20.5	0.0	0.0
1985	D	27.0	26.8	-0.2	-0.7
1986	W	25.9	25.9	0.0	0.0
1987	D	21.8	21.8	0.0	0.0
1988	C	30.4	30.5	0.1	0.3
1989	D	16.4	16.3	-0.1	-0.6
1990	C	34.6	35.0	0.4	1.2
1991	C	27.5	27.6	0.0	0.0
	Mean:	28.8	28.8	0.0	0.1
	Median:	24.1	24.1	0.0	0.0
	Min:	16.1	16.1	-0.2	-0.7
	Max:	88.7	88.7	0.4	1.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	26.2	26.2	0.0	0.0
1976	C	46.9	64.4	17.5	37.3
1977	C	87.0	87.1	0.1	0.1
1978	AN	28.0	28.0	0.0	0.0
1979	BN	26.9	27.0	0.0	0.0
1980	AN	26.9	26.9	0.0	0.0
1981	D	30.1	30.3	0.2	0.7
1982	W	19.7	19.7	0.0	0.0
1983	W	16.3	16.3	0.0	0.0
1984	W	30.1	30.1	0.0	0.0
1985	D	33.2	33.2	0.0	0.0
1986	W	22.1	22.1	0.0	0.0
1987	D	29.9	30.3	0.4	1.3
1988	C	39.6	39.8	0.3	0.8
1989	D	20.6	20.6	0.0	0.0
1990	C	33.3	34.3	1.0	3.0
1991	C	27.8	28.3	0.5	1.8
	Mean:	32.0	33.2	1.2	2.6
	Median:	28.0	28.3	0.0	0.0
	Min:	16.3	16.3	0.0	0.0
	Max:	87.0	87.1	17.5	37.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Old River at Rock Slough (CCWD Intake) Chlorides

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	7.6	7.6	0.0	0.0
1976	C	105.0	112.5	7.5	7.1
1977	C	117.1	120.7	3.5	3.0
1978	AN	15.1	15.1	0.0	0.0
1979	BN	10.8	10.8	0.0	0.0
1980	AN	14.9	14.9	0.0	0.0
1981	D	22.8	25.1	2.3	10.1
1982	W	9.1	9.1	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	17.3	17.3	0.0	0.0
1985	D	25.3	25.3	0.0	0.0
1986	W	14.1	14.1	0.0	0.0
1987	D	34.8	41.1	6.3	18.1
1988	C	50.6	53.4	2.7	5.3
1989	D	17.6	17.6	0.0	0.0
1990	C	52.9	65.0	12.1	22.9
1991	C	41.4	49.3	7.9	19.1
	Mean:	33.1	35.6	2.5	5.0
	Median:	17.6	17.6	0.0	0.0
	Min:	7.0	7.0	0.0	0.0
	Max:	117.1	120.7	12.1	22.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4

Old River at Rock Slough (CCWD Intake) Chlorides

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	7.0	7.0	0.0	0.0
1976	C	103.7	106.5	2.8	2.7
1977	C	138.4	143.6	5.2	3.8
1978	AN	8.1	8.3	0.2	2.5
1979	BN	24.5	22.8	-1.7	-6.9
1980	AN	10.7	9.2	-1.5	-14.1
1981	D	100.0	99.2	-0.7	-0.7
1982	W	7.0	7.0	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	10.0	10.3	0.2	2.0
1985	D	103.1	103.1	0.0	0.0
1986	W	14.4	15.1	0.7	4.9
1987	D	70.7	63.7	-7.0	-9.9
1988	C	99.6	101.8	2.3	2.3
1989	D	80.0	79.3	-0.7	-0.9
1990	C	148.1	160.3	12.2	8.2
1991	C	153.4	162.9	9.4	6.1
	Mean:	63.9	65.1	1.3	0.0
	Median:	70.7	63.7	0.0	0.0
	Min:	7.0	7.0	-7.0	-14.1
	Max:	153.4	162.9	12.2	8.2
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	45.7	41.7	-4.0	-8.8
1976	C	103.4	104.2	0.8	0.8
1977	C	218.5	221.9	3.4	1.6
1978	AN	64.6	51.9	-12.6	-19.5
1979	BN	106.4	92.0	-14.4	-13.5
1980	AN	48.8	44.1	-4.6	-9.4
1981	D	165.8	162.7	-3.1	-1.9
1982	W	39.1	40.5	1.3	3.3
1983	W	7.0	7.0	0.0	0.0
1984	W	39.6	40.1	0.5	1.3
1985	D	171.7	171.7	0.0	0.0
1986	W	46.2	47.2	1.0	2.2
1987	D	171.0	146.5	-24.6	-14.4
1988	C	224.0	227.8	3.9	1.7
1989	D	161.9	157.7	-4.2	-2.6
1990	C	223.9	224.3	0.4	0.2
1991	C	243.5	244.1	0.6	0.2
	Mean:	122.4	119.1	-3.3	-3.5
	Median:	106.4	104.2	0.0	0.0
	Min:	7.0	7.0	-24.6	-19.5
	Max:	243.5	244.1	3.9	3.3
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

Old River at Rock Slough (CCWD Intake) Chlorides

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	74.6	65.4	-9.2	-12.3
1976	C	205.0	206.9	1.9	0.9
1977	C	250.0	250.0	0.0	0.0
1978	AN	169.0	135.2	-33.7	-19.9
1979	BN	212.2	184.6	-27.6	-13.0
1980	AN	105.4	103.3	-2.1	-2.0
1981	D	211.6	210.5	-1.1	-0.5
1982	W	64.6	65.6	1.0	1.5
1983	W	7.0	7.0	0.0	0.0
1984	W	148.9	149.0	0.1	0.1
1985	D	204.6	204.4	-0.2	-0.1
1986	W	99.2	99.4	0.2	0.2
1987	D	232.0	222.9	-9.1	-3.9
1988	C	171.6	177.1	5.5	3.2
1989	D	192.2	187.6	-4.6	-2.4
1990	C	193.8	189.7	-4.0	-2.1
1991	C	194.5	193.3	-1.2	-0.6
	Mean:	160.9	156.0	-4.9	-3.0
	Median:	192.2	184.6	-1.1	-0.5
	Min:	7.0	7.0	-33.7	-19.9
	Max:	250.0	250.0	5.5	3.2
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Chlorides at West Canal at the mouth of CCF (SWP Banks) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Chlorides (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	102.1	87.0	82.5	73.8	56.8	44.6	38.7	40.2	46.9	45.7	72.0	99.2
CEQA Modified Flow Alternative	101.0	86.8	82.8	74.6	58.2	44.9	38.8	41.1	47.2	46.9	70.5	96.3
Difference	-1.1	-0.2	0.3	0.8	1.4	0.4	0.1	0.9	0.2	1.2	-1.5	-2.9
Percent Difference[3]	-1.1	-0.2	0.3	1.1	2.5	0.8	0.2	2.3	0.5	2.6	-2.0	-2.9
Water Year Types[1]												
Wet												
CEQA No Project Alternative	61.3	47.3	46.3	38.0	28.1	22.3	22.7	26.1	27.3	20.0	27.9	57.6
CEQA Modified Flow Alternative	61.2	47.3	46.3	38.7	29.0	22.4	22.7	26.1	27.3	19.7	27.8	56.7
Difference	0.0	0.0	0.0	0.7	0.9	0.0	0.0	0.0	0.0	-0.3	-0.1	-0.9
Percent Difference	0.0	0.0	0.0	1.9	3.3	0.2	0.0	0.0	0.0	-1.4	-0.4	-1.6
Above Normal												
CEQA No Project Alternative	153.8	123.9	88.7	63.5	27.3	33.7	26.6	27.6	29.6	22.6	37.4	85.5
CEQA Modified Flow Alternative	149.5	122.5	89.6	64.5	27.2	33.7	26.6	27.6	29.6	22.3	33.9	75.6
Difference	-4.3	-1.4	0.9	0.9	0.0	0.0	0.0	0.0	0.0	-0.3	-3.5	-9.8
Percent Difference	-2.8	-1.1	1.0	1.4	0.0	0.1	0.0	0.0	0.0	-1.5	-9.2	-11.5
Below Normal												
CEQA No Project Alternative	99.5	87.2	96.9	67.5	31.1	30.8	32.1	33.5	33.3	25.6	63.4	121.0
CEQA Modified Flow Alternative	93.6	85.9	96.4	67.4	31.1	30.8	32.1	33.5	33.3	25.0	56.9	106.5
Difference	-5.9	-1.3	-0.5	-0.1	0.0	0.0	0.0	0.0	0.0	-0.6	-6.5	-14.5
Percent Difference	-6.0	-1.5	-0.5	-0.1	0.0	0.0	0.0	0.0	0.0	-2.4	-10.2	-12.0
Dry												
CEQA No Project Alternative	106.0	105.8	87.1	68.3	61.7	44.7	38.1	41.5	49.9	55.7	99.4	125.2
CEQA Modified Flow Alternative	106.4	106.3	87.2	68.8	62.6	45.0	38.1	41.5	50.2	55.8	95.1	122.6
Difference	0.4	0.5	0.1	0.4	0.9	0.3	0.0	0.0	0.3	0.1	-4.4	-2.6
Percent Difference	0.4	0.5	0.1	0.6	1.5	0.6	-0.1	0.0	0.6	0.3	-4.4	-2.1
Critical												
CEQA No Project Alternative	119.6	97.0	109.8	119.4	98.5	73.8	61.3	59.5	73.9	76.8	109.6	121.0
CEQA Modified Flow Alternative	118.5	96.8	110.3	120.7	101.6	74.7	61.6	62.6	74.5	81.2	110.9	121.2
Difference	-1.1	-0.2	0.5	1.4	3.2	0.9	0.3	3.1	0.6	4.4	1.3	0.1
Percent Difference	-0.9	-0.2	0.5	1.2	3.2	1.3	0.5	5.2	0.8	5.8	1.2	0.1

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

West Canal at the mouth of CCF (SWP Banks) Chlorides

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	7.0	7.0	0.0	0.0
1976	C	38.0	37.1	-0.9	-2.4
1977	C	142.6	143.5	0.9	0.6
1978	AN	164.4	166.3	1.9	1.2
1979	BN	99.5	93.6	-5.9	-5.9
1980	AN	143.2	132.7	-10.5	-7.3
1981	D	78.1	77.6	-0.5	-0.6
1982	W	131.4	131.2	-0.2	-0.2
1983	W	24.3	24.3	0.0	0.0
1984	W	20.2	20.2	0.0	0.0
1985	D	123.4	123.2	-0.2	-0.2
1986	W	123.5	123.5	0.0	0.0
1987	D	90.1	89.8	-0.3	-0.3
1988	C	150.3	148.2	-2.2	-1.5
1989	D	132.3	134.8	2.5	1.9
1990	C	125.6	124.3	-1.3	-1.0
1991	C	141.5	139.6	-1.9	-1.3
	Mean:	102.1	101.0	-1.1	-1.0
	Median:	123.5	123.5	-0.2	-0.2
	Min:	7.0	7.0	-10.5	-7.3
	Max:	164.4	166.3	2.5	1.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	41.3	41.3	0.0	0.0
1976	C	34.7	35.2	0.5	1.4
1977	C	103.9	104.2	0.3	0.3
1978	AN	150.2	150.7	0.5	0.3
1979	BN	87.2	85.9	-1.4	-1.6
1980	AN	97.6	94.4	-3.2	-3.3
1981	D	79.2	79.1	-0.1	-0.1
1982	W	75.2	75.2	0.0	0.0
1983	W	19.1	19.1	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	112.3	114.0	1.7	1.5
1986	W	93.7	93.7	0.1	0.1
1987	D	93.9	93.2	-0.6	-0.6
1988	C	102.3	101.9	-0.5	-0.5
1989	D	137.6	138.7	1.0	0.7
1990	C	93.3	93.0	-0.3	-0.3
1991	C	150.9	149.7	-1.2	-0.8
	Mean:	87.0	86.8	-0.2	-0.2
	Median:	93.7	93.2	0.0	0.0
	Min:	7.0	7.0	-3.2	-3.3
	Max:	150.9	150.7	1.7	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	91.5	91.4	-0.1	-0.1
1976	C	81.5	86.0	4.5	5.5
1977	C	121.6	121.7	0.1	0.1
1978	AN	111.2	111.4	0.2	0.2
1979	BN	96.9	96.4	-0.5	-0.5
1980	AN	66.2	67.7	1.5	2.3
1981	D	102.4	102.2	-0.1	-0.1
1982	W	28.9	28.9	0.0	0.0
1983	W	11.5	11.5	0.0	0.0
1984	W	7.0	7.1	0.0	0.0
1985	D	35.0	35.7	0.7	2.0
1986	W	92.5	92.6	0.1	0.1
1987	D	108.6	108.1	-0.5	-0.5
1988	C	107.5	107.2	-0.2	-0.2
1989	D	102.4	102.8	0.3	0.3
1990	C	103.1	101.8	-1.4	-1.4
1991	C	135.1	134.6	-0.5	-0.4
	Mean:	82.5	82.8	0.2	0.4
	Median:	96.9	96.4	0.0	0.0
	Min:	7.0	7.1	-1.4	-1.4
	Max:	135.1	134.6	4.5	5.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	82.7	86.5	3.8	4.6
1976	C	99.5	106.6	7.1	7.1
1977	C	126.1	126.1	0.0	0.0
1978	AN	99.3	99.9	0.6	0.6
1979	BN	67.5	67.4	-0.1	-0.1
1980	AN	27.8	29.0	1.2	4.3
1981	D	61.3	62.4	1.1	1.8
1982	W	38.1	38.1	0.0	0.0
1983	W	7.7	7.7	0.0	0.0
1984	W	8.8	8.8	0.0	0.0
1985	D	28.6	29.2	0.5	1.7
1986	W	52.6	52.4	-0.2	-0.4
1987	D	85.4	85.2	-0.2	-0.2
1988	C	96.1	95.6	-0.5	-0.5
1989	D	97.9	98.2	0.3	0.3
1990	C	153.7	154.1	0.4	0.3
1991	C	121.4	121.2	-0.2	-0.2
	Mean:	73.8	74.6	0.8	1.1
	Median:	82.7	85.2	0.0	0.0
	Min:	7.7	7.7	-0.5	-0.5
	Max:	153.7	154.1	7.1	7.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	56.1	60.9	4.8	8.6
1976	C	119.8	129.7	9.9	8.3
1977	C	130.9	130.9	0.0	0.0
1978	AN	45.4	45.4	0.0	0.0
1979	BN	31.1	31.1	0.0	0.0
1980	AN	9.1	9.1	0.0	0.0
1981	D	39.0	40.8	1.8	4.6
1982	W	23.5	23.5	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	23.1	23.1	0.0	0.0
1985	D	45.7	47.4	1.7	3.7
1986	W	30.7	30.6	-0.1	-0.3
1987	D	75.3	75.2	-0.1	-0.1
1988	C	42.9	42.8	-0.1	-0.2
1989	D	86.8	87.1	0.2	0.2
1990	C	74.7	80.8	6.0	8.0
1991	C	124.0	123.8	-0.2	-0.2
	Mean:	56.8	58.2	1.4	1.9
	Median:	45.4	45.4	0.0	0.0
	Min:	7.0	7.0	-0.2	-0.3
	Max:	130.9	130.9	9.9	8.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	29.9	30.1	0.2	0.7
1976	C	62.5	65.0	2.5	4.0
1977	C	133.0	133.0	0.0	0.0
1978	AN	43.0	43.0	0.0	0.0
1979	BN	30.8	30.8	0.0	0.0
1980	AN	24.5	24.5	0.0	0.0
1981	D	33.2	33.7	0.4	1.2
1982	W	28.3	28.3	0.0	0.0
1983	W	9.8	9.8	0.0	0.0
1984	W	28.7	28.7	0.0	0.0
1985	D	47.6	48.4	0.8	1.7
1986	W	14.8	14.8	0.0	0.0
1987	D	56.6	56.6	0.0	0.0
1988	C	41.1	41.0	0.0	0.0
1989	D	41.3	41.2	-0.1	-0.2
1990	C	49.0	51.2	2.2	4.5
1991	C	83.3	83.2	-0.1	-0.1
	Mean:	44.5	44.9	0.3	0.7
	Median:	41.1	41.0	0.0	0.0
	Min:	9.8	9.8	-0.1	-0.2
	Max:	133.0	133.0	2.5	4.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	28.8	28.8	0.0	0.0
1976	C	49.7	50.4	0.7	1.4
1977	C	123.8	123.8	0.0	0.0
1978	AN	24.3	24.3	0.0	0.0
1979	BN	32.1	32.1	0.0	0.0
1980	AN	28.8	28.8	0.0	0.0
1981	D	36.5	36.5	0.1	0.3
1982	W	13.2	13.2	0.0	0.0
1983	W	13.1	13.1	0.0	0.0
1984	W	33.2	33.2	0.0	0.0
1985	D	46.4	46.5	0.0	0.0
1986	W	25.2	25.2	0.0	0.0
1987	D	43.7	43.7	0.0	0.0
1988	C	46.3	46.3	0.0	0.0
1989	D	25.8	25.7	-0.1	-0.4
1990	C	43.3	44.2	0.9	2.1
1991	C	43.2	43.2	0.0	0.0
	Mean:	38.7	38.8	0.1	0.2
	Median:	33.2	33.2	0.0	0.0
	Min:	13.1	13.1	-0.1	-0.4
	Max:	123.8	123.8	0.9	2.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	32.4	32.4	0.0	0.0
1976	C	51.8	66.8	15.0	28.9
1977	C	109.1	109.1	0.0	0.0
1978	AN	24.7	24.7	0.0	0.0
1979	BN	33.5	33.5	0.0	0.0
1980	AN	30.5	30.5	0.0	0.0
1981	D	42.1	42.2	0.0	0.0
1982	W	15.9	15.9	0.0	0.0
1983	W	13.4	13.4	0.0	0.0
1984	W	39.5	39.5	0.0	0.0
1985	D	48.1	48.1	0.0	0.0
1986	W	29.5	29.5	0.0	0.0
1987	D	43.0	43.0	0.0	0.0
1988	C	48.2	48.2	0.1	0.2
1989	D	32.9	32.8	0.0	0.0
1990	C	46.0	46.5	0.5	1.1
1991	C	42.4	42.5	0.0	0.0
	Mean:	40.2	41.1	0.9	1.8
	Median:	39.5	39.5	0.0	0.0
	Min:	13.4	13.4	0.0	0.0
	Max:	109.1	109.1	15.0	28.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

West Canal at the mouth of CCF (SWP Banks) Chlorides

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	30.1	30.1	0.0	0.0
1976	C	84.9	87.6	2.7	3.2
1977	C	102.4	102.1	-0.3	-0.3
1978	AN	25.1	25.1	0.0	0.0
1979	BN	33.3	33.3	0.0	0.0
1980	AN	34.1	34.1	0.0	0.0
1981	D	46.1	47.8	1.7	3.7
1982	W	22.8	22.8	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	43.4	43.4	0.0	0.0
1985	D	47.8	47.9	0.1	0.2
1986	W	33.3	33.3	0.0	0.0
1987	D	59.6	59.0	-0.6	-1.0
1988	C	67.8	66.6	-1.2	-1.8
1989	D	45.9	45.9	0.0	0.0
1990	C	62.3	63.3	1.0	1.6
1991	C	51.9	52.6	0.8	1.5
	Mean:	46.9	47.2	0.2	0.4
	Median:	45.9	45.9	0.0	0.0
	Min:	7.0	7.0	-1.2	-1.8
	Max:	102.4	102.1	2.7	3.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	18.4	18.1	-0.3	-1.6
1976	C	76.2	78.8	2.6	3.4
1977	C	90.2	93.9	3.7	4.1
1978	AN	20.3	20.1	-0.2	-1.0
1979	BN	25.6	25.0	-0.6	-2.3
1980	AN	25.0	24.5	-0.5	-2.0
1981	D	59.1	59.4	0.3	0.5
1982	W	21.6	21.2	-0.4	-1.9
1983	W	7.1	7.1	0.0	0.0
1984	W	26.5	25.9	-0.5	-1.9
1985	D	61.9	61.9	0.0	0.0
1986	W	26.3	26.1	-0.2	-0.8
1987	D	51.8	52.2	0.5	1.0
1988	C	63.0	65.5	2.5	4.0
1989	D	50.1	49.9	-0.2	-0.4
1990	C	78.7	86.4	7.7	9.8
1991	C	75.8	81.4	5.6	7.4
	Mean:	45.7	46.9	1.2	1.1
	Median:	50.1	49.9	0.0	0.0
	Min:	7.1	7.1	-0.6	-2.3
	Max:	90.2	93.9	7.7	9.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	33.6	32.1	-1.4	-4.2
1976	C	65.6	66.3	0.7	1.1
1977	C	107.5	108.1	0.6	0.6
1978	AN	40.3	35.8	-4.4	-10.9
1979	BN	63.4	56.9	-6.5	-10.3
1980	AN	34.5	32.0	-2.5	-7.3
1981	D	100.6	98.8	-1.8	-1.8
1982	W	30.7	31.1	0.3	1.0
1983	W	9.4	9.4	0.0	0.0
1984	W	30.0	30.0	0.0	0.0
1985	D	104.4	104.4	0.0	0.0
1986	W	35.9	36.3	0.4	1.1
1987	D	97.1	83.6	-13.5	-13.9
1988	C	105.9	103.8	-2.1	-2.0
1989	D	95.6	93.4	-2.2	-2.3
1990	C	126.7	131.1	4.4	3.5
1991	C	142.3	145.3	3.0	2.1
	Mean:	72.0	70.5	-1.5	-2.5
	Median:	65.6	66.3	0.0	0.0
	Min:	9.4	9.4	-13.5	-13.9
	Max:	142.3	145.3	4.4	3.5
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

West Canal at the mouth of CCF (SWP Banks) Chlorides

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	58.6	53.3	-5.3	-9.0
1976	C	110.2	111.0	0.7	0.6
1977	C	135.0	136.1	1.1	0.8
1978	AN	102.9	84.4	-18.5	-18.0
1979	BN	121.0	106.5	-14.5	-12.0
1980	AN	68.1	66.9	-1.2	-1.8
1981	D	126.7	126.0	-0.7	-0.6
1982	W	56.4	57.0	0.6	1.1
1983	W	20.3	20.3	0.0	0.0
1984	W	87.0	87.1	0.1	0.1
1985	D	124.4	124.4	-0.1	-0.1
1986	W	65.5	65.6	0.1	0.2
1987	D	134.9	127.9	-7.0	-5.2
1988	C	114.8	115.7	0.9	0.8
1989	D	114.8	112.1	-2.7	-2.4
1990	C	121.5	120.3	-1.2	-1.0
1991	C	123.6	122.7	-0.9	-0.7
	Mean:	99.2	96.3	-2.9	-2.8
	Median:	114.8	111.0	-0.7	-0.6
	Min:	20.3	20.3	-18.5	-18.0
	Max:	135.0	136.1	1.1	1.1
# Years Rel Diff <= -10%					2
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Chlorides at the Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Chlorides (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	102.6	86.9	87.4	78.9	66.6	60.0	45.6	42.6	53.1	54.2	83.8	112.9
CEQA Modified Flow Alternative	101.6	86.8	87.6	79.5	67.6	60.2	45.6	43.7	54.5	55.3	82.5	110.7
Difference	-1.0	-0.1	0.2	0.6	0.9	0.2	0.0	1.1	1.4	1.1	-1.3	-2.2
Percent Difference[3]	-1.0	-0.2	0.2	0.8	1.4	0.3	0.1	2.6	2.7	2.1	-1.6	-2.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	57.5	48.7	54.3	45.1	25.9	26.4	24.3	28.0	36.9	31.2	46.0	78.0
CEQA Modified Flow Alternative	57.5	48.7	54.3	45.6	26.3	26.4	24.3	28.0	36.9	30.6	45.7	77.2
Difference	0.0	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.0	-0.6	-0.3	-0.8
Percent Difference	0.0	0.0	0.0	1.3	1.7	0.0	0.0	0.0	0.0	-2.1	-0.6	-1.0
Above Normal												
CEQA No Project Alternative	156.2	118.8	96.7	50.8	23.2	30.8	25.3	28.0	33.4	33.6	49.1	97.2
CEQA Modified Flow Alternative	152.1	117.4	97.4	51.1	23.2	30.9	25.3	28.0	33.4	33.3	45.7	89.3
Difference	-4.1	-1.4	0.8	0.3	0.0	0.0	0.0	0.0	0.0	-0.3	-3.4	-7.9
Percent Difference	-2.6	-1.1	0.8	0.6	0.0	0.0	0.0	0.0	0.0	-0.9	-7.0	-8.2
Below Normal												
CEQA No Project Alternative	98.9	89.7	100.3	59.8	26.0	31.9	32.7	35.1	41.1	33.3	72.4	132.7
CEQA Modified Flow Alternative	93.6	88.5	100.0	59.8	26.0	31.9	32.8	35.1	41.1	32.6	65.9	120.0
Difference	-5.3	-1.2	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	-0.7	-6.4	-12.7
Percent Difference	-5.4	-1.3	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	-2.1	-8.9	-9.6
Dry												
CEQA No Project Alternative	109.4	107.0	91.1	81.5	82.7	62.6	48.2	46.6	53.5	63.4	104.9	138.7
CEQA Modified Flow Alternative	109.7	107.5	91.2	81.9	83.2	62.7	48.2	46.6	55.1	63.3	101.0	136.6
Difference	0.3	0.5	0.1	0.3	0.6	0.1	0.0	0.0	1.6	-0.1	-4.0	-2.2
Percent Difference	0.3	0.4	0.1	0.4	0.7	0.2	0.0	0.0	3.1	-0.1	-3.8	-1.6
Critical												
CEQA No Project Alternative	121.7	95.7	111.1	125.5	120.1	108.8	75.6	61.5	79.3	82.2	121.0	129.5
CEQA Modified Flow Alternative	120.7	95.6	111.5	126.7	122.3	109.3	75.7	65.3	82.8	87.0	122.6	130.2
Difference	-1.0	-0.1	0.4	1.2	2.2	0.5	0.1	3.8	3.5	4.8	1.6	0.7
Percent Difference	-0.8	-0.1	0.3	0.9	1.8	0.5	0.2	6.2	4.4	5.9	1.3	0.6

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	7.0	7.0	0.0	0.0
1976	C	38.5	37.8	-0.8	-2.1
1977	C	144.3	145.2	0.9	0.6
1978	AN	169.4	171.0	1.6	0.9
1979	BN	98.9	93.6	-5.3	-5.4
1980	AN	142.9	133.1	-9.8	-6.9
1981	D	78.1	77.7	-0.4	-0.5
1982	W	129.8	129.6	-0.2	-0.2
1983	W	14.4	14.4	0.0	0.0
1984	W	13.6	13.6	0.0	0.0
1985	D	125.9	125.6	-0.3	-0.2
1986	W	122.9	122.9	0.0	0.0
1987	D	91.5	91.1	-0.3	-0.3
1988	C	149.8	147.9	-1.8	-1.2
1989	D	142.1	144.4	2.4	1.7
1990	C	125.2	124.0	-1.2	-1.0
1991	C	150.4	148.6	-1.8	-1.2
	Mean:	102.6	101.6	-1.0	-0.9
	Median:	125.2	124.0	-0.3	-0.2
	Min:	7.0	7.0	-9.8	-6.9
	Max:	169.4	171.0	2.4	1.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	43.4	43.4	0.0	0.0
1976	C	36.7	37.3	0.6	1.6
1977	C	104.7	104.9	0.2	0.2
1978	AN	142.1	142.3	0.2	0.1
1979	BN	89.7	88.5	-1.2	-1.3
1980	AN	95.4	92.5	-2.9	-3.0
1981	D	84.1	84.0	-0.1	-0.1
1982	W	74.2	74.2	0.0	0.0
1983	W	25.0	25.0	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	111.6	113.4	1.8	1.6
1986	W	94.1	94.1	0.1	0.1
1987	D	97.1	96.5	-0.6	-0.6
1988	C	99.0	98.7	-0.3	-0.3
1989	D	135.3	136.1	0.8	0.6
1990	C	91.1	90.8	-0.3	-0.3
1991	C	147.1	146.3	-0.9	-0.6
	Mean:	86.9	86.8	-0.2	-0.1
	Median:	94.1	92.5	0.0	0.0
	Min:	7.0	7.0	-2.9	-3.0
	Max:	147.1	146.3	1.8	1.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	96.4	96.3	-0.1	-0.1
1976	C	89.3	92.6	3.3	3.7
1977	C	115.5	115.6	0.1	0.1
1978	AN	116.1	116.3	0.2	0.2
1979	BN	100.3	100.0	-0.3	-0.3
1980	AN	77.3	78.6	1.3	1.7
1981	D	103.5	103.4	-0.1	-0.1
1982	W	49.0	49.0	0.0	0.0
1983	W	8.7	8.7	0.0	0.0
1984	W	11.8	11.8	0.0	0.0
1985	D	47.7	48.1	0.5	1.0
1986	W	105.5	105.6	0.1	0.1
1987	D	108.4	108.1	-0.3	-0.3
1988	C	115.2	115.0	-0.2	-0.2
1989	D	104.8	105.0	0.2	0.2
1990	C	112.0	110.8	-1.2	-1.1
1991	C	123.5	123.3	-0.2	-0.2
	Mean:	87.4	87.5	0.2	0.3
	Median:	103.5	103.4	0.0	0.0
	Min:	8.7	8.7	-1.2	-1.1
	Max:	123.5	123.3	3.3	3.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	94.8	97.7	3.0	3.2
1976	C	107.3	112.5	5.2	4.8
1977	C	133.6	133.6	0.0	0.0
1978	AN	83.3	83.6	0.3	0.4
1979	BN	59.8	59.8	0.0	0.0
1980	AN	18.4	18.7	0.3	1.6
1981	D	75.6	76.5	0.8	1.1
1982	W	38.4	38.4	0.0	0.0
1983	W	19.0	19.0	0.0	0.0
1984	W	10.3	10.3	0.0	0.0
1985	D	46.6	47.0	0.4	0.9
1986	W	62.8	62.7	-0.1	-0.2
1987	D	97.5	97.4	-0.1	-0.1
1988	C	106.7	106.4	-0.3	-0.3
1989	D	106.4	106.6	0.2	0.2
1990	C	149.2	150.1	0.9	0.6
1991	C	130.7	130.6	0.0	0.0
	Mean:	78.9	79.5	0.6	0.7
	Median:	83.3	83.6	0.0	0.0
	Min:	10.3	10.3	-0.3	-0.3
	Max:	149.2	150.1	5.2	4.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	48.4	50.7	2.2	4.5
1976	C	128.4	135.0	6.7	5.2
1977	C	171.7	171.7	0.0	0.0
1978	AN	34.4	34.4	0.0	0.0
1979	BN	26.0	26.0	0.0	0.0
1980	AN	12.0	12.0	0.0	0.0
1981	D	53.8	54.9	1.1	2.0
1982	W	18.0	18.0	0.0	0.0
1983	W	10.8	10.8	0.0	0.0
1984	W	23.6	23.6	0.0	0.0
1985	D	63.6	64.7	1.1	1.7
1986	W	28.5	28.4	-0.1	-0.4
1987	D	84.2	84.1	0.0	0.0
1988	C	58.0	57.9	0.0	0.0
1989	D	129.0	129.1	0.1	0.1
1990	C	81.2	85.7	4.5	5.5
1991	C	161.1	161.0	0.0	0.0
	Mean:	66.6	67.5	0.9	1.1
	Median:	53.8	54.9	0.0	0.0
	Min:	10.8	10.8	-0.1	-0.4
	Max:	171.7	171.7	6.7	5.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	31.5	31.6	0.1	0.3
1976	C	77.2	78.7	1.5	1.9
1977	C	187.3	187.3	0.0	0.0
1978	AN	40.4	40.4	0.0	0.0
1979	BN	31.9	31.9	0.0	0.0
1980	AN	21.3	21.3	0.0	0.0
1981	D	47.0	47.2	0.2	0.4
1982	W	26.9	26.9	0.0	0.0
1983	W	19.1	19.1	0.0	0.0
1984	W	37.4	37.4	0.0	0.0
1985	D	69.3	69.7	0.4	0.6
1986	W	16.8	16.8	0.0	0.0
1987	D	74.7	74.6	0.0	0.0
1988	C	113.9	113.9	0.0	0.0
1989	D	59.3	59.2	-0.1	-0.2
1990	C	73.4	74.6	1.3	1.8
1991	C	92.1	92.0	0.0	0.0
	Mean:	60.0	60.2	0.2	0.3
	Median:	47.0	47.2	0.0	0.0
	Min:	16.8	16.8	-0.1	-0.2
	Max:	187.3	187.3	1.5	1.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	31.1	31.1	0.0	0.0
1976	C	62.3	62.6	0.3	0.5
1977	C	131.7	131.7	0.0	0.0
1978	AN	21.7	21.7	0.0	0.0
1979	BN	32.7	32.8	0.0	0.0
1980	AN	28.8	28.9	0.0	0.0
1981	D	44.1	44.1	0.0	0.0
1982	W	12.7	12.7	0.0	0.0
1983	W	15.7	15.7	0.0	0.0
1984	W	39.1	39.1	0.0	0.0
1985	D	56.2	56.2	0.0	0.0
1986	W	22.8	22.8	0.0	0.0
1987	D	54.3	54.3	0.0	0.0
1988	C	64.6	64.6	0.0	0.0
1989	D	38.2	38.1	-0.1	-0.3
1990	C	67.1	67.5	0.3	0.4
1991	C	52.2	52.2	0.0	0.0
	Mean:	45.6	45.6	0.0	0.0
	Median:	39.1	39.1	0.0	0.0
	Min:	12.7	12.7	-0.1	-0.3
	Max:	131.7	131.7	0.3	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	34.3	34.3	0.0	0.0
1976	C	57.4	76.0	18.6	32.4
1977	C	100.1	100.1	0.0	0.0
1978	AN	22.4	22.4	0.0	0.0
1979	BN	35.1	35.1	0.0	0.0
1980	AN	33.7	33.7	0.0	0.0
1981	D	45.5	45.5	0.0	0.0
1982	W	17.8	17.8	0.0	0.0
1983	W	14.7	14.7	0.0	0.0
1984	W	41.7	41.7	0.0	0.0
1985	D	52.1	52.0	0.0	0.0
1986	W	31.3	31.3	0.0	0.0
1987	D	50.2	50.2	0.0	0.0
1988	C	54.9	55.0	0.1	0.2
1989	D	38.5	38.5	0.0	0.0
1990	C	50.0	50.3	0.3	0.6
1991	C	44.9	45.0	0.1	0.2
	Mean:	42.6	43.7	1.1	2.0
	Median:	41.7	41.7	0.0	0.0
	Min:	14.7	14.7	0.0	0.0
	Max:	100.1	100.1	18.6	32.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	47.5	47.5	0.0	0.0
1976	C	89.3	92.8	3.5	3.9
1977	C	105.2	107.3	2.1	2.0
1978	AN	22.2	22.2	0.0	0.0
1979	BN	41.1	41.1	0.0	0.0
1980	AN	44.6	44.6	0.0	0.0
1981	D	47.7	49.5	1.8	3.8
1982	W	30.2	30.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	54.9	54.9	0.0	0.0
1985	D	49.8	49.9	0.1	0.2
1986	W	45.1	45.1	0.0	0.0
1987	D	68.4	73.1	4.7	6.9
1988	C	78.3	80.9	2.6	3.3
1989	D	47.9	47.9	0.0	0.0
1990	C	68.5	73.9	5.3	7.7
1991	C	55.0	59.0	4.0	7.3
	Mean:	53.1	54.5	1.4	2.1
	Median:	47.9	49.5	0.0	0.0
	Min:	7.0	7.0	0.0	0.0
	Max:	105.2	107.3	5.3	7.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	28.8	28.5	-0.3	-1.0
1976	C	86.0	88.6	2.5	2.9
1977	C	90.4	94.5	4.1	4.5
1978	AN	30.7	30.5	-0.2	-0.7
1979	BN	33.3	32.6	-0.7	-2.1
1980	AN	36.6	36.2	-0.4	-1.1
1981	D	66.6	66.7	0.1	0.2
1982	W	36.4	36.1	-0.3	-0.8
1983	W	9.5	9.5	0.0	0.0
1984	W	39.1	38.7	-0.4	-1.0
1985	D	68.7	68.7	0.0	0.0
1986	W	42.2	40.0	-2.2	-5.2
1987	D	63.0	62.9	-0.1	-0.2
1988	C	65.9	68.8	2.9	4.4
1989	D	55.4	55.0	-0.4	-0.7
1990	C	85.1	93.6	8.6	10.1
1991	C	83.3	89.4	6.1	7.3
	Mean:	54.2	55.3	1.1	1.0
	Median:	55.4	55.0	-0.1	-0.2
	Min:	9.5	9.5	-2.2	-5.2
	Max:	90.4	94.5	8.6	10.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	46.5	44.9	-1.6	-3.4
1976	C	80.3	81.3	1.1	1.4
1977	C	121.6	123.4	1.8	1.5
1978	AN	52.4	47.8	-4.6	-8.8
1979	BN	72.3	65.9	-6.4	-8.8
1980	AN	45.8	43.5	-2.2	-4.8
1981	D	104.4	102.7	-1.7	-1.6
1982	W	46.1	46.3	0.2	0.4
1983	W	41.2	41.2	0.0	0.0
1984	W	46.4	46.3	-0.1	-0.2
1985	D	107.7	107.7	0.0	0.0
1986	W	49.6	49.8	0.2	0.4
1987	D	106.9	95.2	-11.8	-11.0
1988	C	126.0	126.5	0.5	0.4
1989	D	100.6	98.3	-2.4	-2.4
1990	C	132.0	134.9	3.0	2.3
1991	C	145.2	146.9	1.7	1.2
	Mean:	83.8	82.5	-1.3	-2.0
	Median:	80.3	81.3	0.0	0.0
	Min:	41.2	41.2	-11.8	-11.0
	Max:	145.2	146.9	3.0	2.3
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	74.2	69.7	-4.5	-6.1
1976	C	130.0	130.9	0.9	0.7
1977	C	148.7	150.7	2.0	1.3
1978	AN	112.3	97.4	-15.0	-13.4
1979	BN	132.7	120.0	-12.7	-9.6
1980	AN	82.1	81.2	-0.9	-1.1
1981	D	136.1	135.5	-0.6	-0.4
1982	W	74.5	74.9	0.3	0.4
1983	W	47.7	47.8	0.0	0.0
1984	W	107.1	107.2	0.1	0.1
1985	D	135.8	135.8	0.0	0.0
1986	W	86.2	86.3	0.1	0.1
1987	D	147.8	142.0	-5.8	-3.9
1988	C	118.9	121.9	3.0	2.5
1989	D	135.2	133.0	-2.2	-1.6
1990	C	128.8	127.2	-1.6	-1.2
1991	C	121.1	120.5	-0.6	-0.5
	Mean:	112.9	110.7	-2.2	-1.9
	Median:	121.1	120.5	-0.6	-0.4
	Min:	47.7	47.8	-15.0	-13.4
	Max:	148.7	150.7	3.0	2.5
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Chlorides at Victoria Canal under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Chlorides (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	76.8	70.3	63.2	61.9	54.1	45.8	41.6	47.5	53.9	38.9	51.0	68.6
CEQA Modified Flow Alternative	76.3	70.2	63.4	62.3	55.1	46.0	41.7	48.8	55.0	40.0	50.4	67.2
Difference	-0.5	-0.1	0.2	0.4	0.9	0.3	0.1	1.3	1.1	1.1	-0.6	-1.4
Percent Difference[3]	-0.6	-0.1	0.3	0.7	1.7	0.5	0.1	2.7	2.0	2.8	-1.2	-2.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	51.6	46.1	37.6	35.2	29.8	27.3	25.4	30.0	33.2	25.2	25.0	46.9
CEQA Modified Flow Alternative	51.6	46.1	37.6	35.6	30.3	27.3	25.4	30.0	33.2	24.7	24.8	46.4
Difference	0.0	0.0	0.0	0.4	0.5	0.0	0.0	0.0	0.0	-0.5	-0.2	-0.5
Percent Difference	0.0	0.0	0.0	1.0	1.6	0.0	0.0	0.0	0.0	-2.1	-0.9	-1.0
Above Normal												
CEQA No Project Alternative	108.4	93.7	66.7	61.3	35.8	38.5	31.2	32.2	34.4	27.5	29.3	58.3
CEQA Modified Flow Alternative	106.5	93.0	67.1	61.8	35.8	38.5	31.2	32.2	34.4	27.3	27.7	53.5
Difference	-1.9	-0.7	0.4	0.5	0.0	0.0	0.0	0.0	0.0	-0.2	-1.5	-4.8
Percent Difference	-1.8	-0.8	0.6	0.9	0.0	0.0	0.0	0.0	0.0	-0.8	-5.2	-8.2
Below Normal												
CEQA No Project Alternative	61.2	62.0	76.4	56.5	34.4	32.1	34.7	38.5	40.8	26.0	42.9	77.8
CEQA Modified Flow Alternative	59.2	61.7	76.2	56.4	34.4	32.1	34.7	38.5	40.8	25.7	39.7	70.2
Difference	-2.0	-0.3	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	-0.3	-3.2	-7.5
Percent Difference	-3.2	-0.5	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	-1.1	-7.3	-9.7
Dry												
CEQA No Project Alternative	79.2	80.8	68.8	55.4	58.0	47.7	46.1	54.6	60.2	40.9	62.9	80.1
CEQA Modified Flow Alternative	79.5	81.0	68.8	55.6	58.6	47.9	46.0	54.6	61.5	41.7	60.4	78.5
Difference	0.2	0.3	0.1	0.2	0.6	0.2	0.0	0.0	1.3	0.8	-2.5	-1.6
Percent Difference	0.3	0.3	0.1	0.4	1.0	0.4	0.0	0.0	2.2	1.9	-4.0	-2.0
Critical												
CEQA No Project Alternative	90.4	78.5	80.4	95.0	86.6	68.4	60.0	67.1	79.9	58.0	77.7	83.4
CEQA Modified Flow Alternative	89.8	78.3	80.8	95.7	88.8	69.1	60.2	71.5	82.5	61.8	79.2	83.9
Difference	-0.6	-0.1	0.4	0.7	2.2	0.7	0.2	4.4	2.7	3.7	1.5	0.5
Percent Difference	-0.6	-0.2	0.4	0.8	2.6	1.0	0.4	6.6	3.4	6.4	1.9	0.6

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Victoria Canal Chlorides

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	10.4	10.4	0.0	0.0
1976	C	48.7	48.3	-0.3	-0.6
1977	C	96.1	96.5	0.4	0.4
1978	AN	120.1	121.0	0.9	0.7
1979	BN	61.2	59.2	-2.0	-3.3
1980	AN	96.7	92.0	-4.7	-4.9
1981	D	51.9	51.8	-0.1	-0.2
1982	W	98.1	98.0	-0.1	-0.1
1983	W	26.6	26.6	0.0	0.0
1984	W	29.3	29.3	0.0	0.0
1985	D	87.9	87.9	-0.1	-0.1
1986	W	93.7	93.8	0.0	0.0
1987	D	67.0	66.4	-0.5	-0.7
1988	C	111.6	110.5	-1.1	-1.0
1989	D	110.2	111.7	1.6	1.5
1990	C	90.9	90.3	-0.6	-0.7
1991	C	104.7	103.6	-1.1	-1.1
	Mean:	76.8	76.3	-0.5	-0.6
	Median:	90.9	90.3	-0.1	-0.1
	Min:	10.4	10.4	-4.7	-4.9
	Max:	120.1	121.0	1.6	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	46.0	46.0	0.0	0.0
1976	C	40.6	40.8	0.1	0.2
1977	C	73.0	73.0	0.1	0.1
1978	AN	113.2	113.2	0.0	0.0
1979	BN	62.0	61.7	-0.3	-0.5
1980	AN	74.2	72.7	-1.4	-1.9
1981	D	59.8	59.8	0.0	0.0
1982	W	72.2	72.2	0.0	0.0
1983	W	21.7	21.7	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	86.2	87.1	0.9	1.0
1986	W	83.6	83.6	0.0	0.0
1987	D	70.5	70.1	-0.3	-0.4
1988	C	86.1	85.9	-0.2	-0.2
1989	D	106.6	107.1	0.4	0.4
1990	C	76.6	76.5	-0.1	-0.1
1991	C	116.0	115.4	-0.6	-0.5
	Mean:	70.3	70.2	-0.1	-0.1
	Median:	73.0	72.7	0.0	0.0
	Min:	7.0	7.0	-1.4	-1.9
	Max:	116.0	115.4	0.9	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	64.6	64.6	0.0	0.0
1976	C	56.5	59.0	2.5	4.4
1977	C	87.9	87.9	0.0	0.0
1978	AN	83.2	83.2	0.0	0.0
1979	BN	76.4	76.2	-0.2	-0.3
1980	AN	50.3	51.0	0.7	1.4
1981	D	75.6	75.6	-0.1	-0.1
1982	W	31.9	31.9	0.0	0.0
1983	W	14.8	14.8	0.0	0.0
1984	W	7.3	7.3	0.0	0.0
1985	D	35.9	36.4	0.5	1.4
1986	W	69.4	69.4	0.0	0.0
1987	D	82.8	82.5	-0.3	-0.4
1988	C	75.0	74.9	-0.1	-0.1
1989	D	80.7	80.9	0.2	0.2
1990	C	71.8	71.3	-0.5	-0.7
1991	C	110.8	110.7	-0.1	-0.1
	Mean:	63.2	63.4	0.2	0.3
	Median:	71.8	71.3	0.0	0.0
	Min:	7.3	7.3	-0.5	-0.7
	Max:	110.8	110.7	2.5	4.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	61.5	63.4	2.0	3.3
1976	C	72.5	77.0	4.5	6.2
1977	C	103.3	103.3	0.0	0.0
1978	AN	91.6	92.0	0.4	0.4
1979	BN	56.5	56.4	-0.1	-0.2
1980	AN	31.0	31.7	0.7	2.3
1981	D	51.4	51.9	0.5	1.0
1982	W	42.7	42.7	0.0	0.0
1983	W	11.5	11.5	0.0	0.0
1984	W	13.7	13.7	0.0	0.0
1985	D	29.0	29.3	0.3	1.0
1986	W	46.7	46.6	-0.1	-0.2
1987	D	65.8	65.7	-0.1	-0.2
1988	C	79.1	78.8	-0.3	-0.4
1989	D	75.3	75.5	0.2	0.3
1990	C	109.5	109.2	-0.4	-0.4
1991	C	110.5	110.5	-0.1	-0.1
	Mean:	61.9	62.3	0.4	0.8
	Median:	61.5	63.4	0.0	0.0
	Min:	11.5	11.5	-0.4	-0.4
	Max:	110.5	110.5	4.5	6.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	49.7	52.2	2.5	5.0
1976	C	92.7	99.5	6.7	7.2
1977	C	116.1	116.1	0.0	0.0
1978	AN	50.2	50.2	0.0	0.0
1979	BN	34.4	34.4	0.0	0.0
1980	AN	21.5	21.5	0.0	0.0
1981	D	40.1	41.2	1.2	3.0
1982	W	25.1	25.1	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	27.5	27.5	0.0	0.0
1985	D	43.4	44.4	1.0	2.3
1986	W	39.7	39.6	-0.1	-0.3
1987	D	64.3	64.3	0.0	0.0
1988	C	43.1	43.1	0.0	0.0
1989	D	84.2	84.4	0.2	0.2
1990	C	64.9	69.4	4.5	6.9
1991	C	116.3	116.2	-0.1	-0.1
	Mean:	54.1	55.1	0.9	1.4
	Median:	43.4	44.4	0.0	0.0
	Min:	7.0	7.0	-0.1	-0.3
	Max:	116.3	116.2	6.7	7.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	30.8	30.9	0.0	0.0
1976	C	56.5	58.4	1.9	3.4
1977	C	115.7	115.7	0.0	0.0
1978	AN	50.7	50.7	0.0	0.0
1979	BN	32.1	32.1	0.0	0.0
1980	AN	26.3	26.3	0.0	0.0
1981	D	40.7	41.0	0.3	0.7
1982	W	35.6	35.6	0.0	0.0
1983	W	11.9	11.9	0.0	0.0
1984	W	32.5	32.5	0.0	0.0
1985	D	50.4	51.0	0.5	1.0
1986	W	25.4	25.4	0.0	0.0
1987	D	56.9	56.8	0.0	0.0
1988	C	42.6	42.6	0.0	0.0
1989	D	42.9	42.8	-0.1	-0.2
1990	C	47.8	49.5	1.7	3.6
1991	C	79.1	79.1	0.0	0.0
	Mean:	45.8	46.0	0.3	0.5
	Median:	42.6	42.6	0.0	0.0
	Min:	11.9	11.9	-0.1	-0.2
	Max:	115.7	115.7	1.9	3.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	31.3	31.3	0.0	0.0
1976	C	50.8	51.3	0.5	1.0
1977	C	108.3	108.3	0.0	0.0
1978	AN	33.1	33.1	0.0	0.0
1979	BN	34.7	34.7	0.0	0.0
1980	AN	29.3	29.2	0.0	0.0
1981	D	46.1	46.1	0.0	0.0
1982	W	13.5	13.5	0.0	0.0
1983	W	13.8	13.8	0.0	0.0
1984	W	41.0	41.0	0.0	0.0
1985	D	54.7	54.8	0.0	0.0
1986	W	27.1	27.1	0.0	0.0
1987	D	51.3	51.3	0.0	0.0
1988	C	51.2	51.2	0.0	0.0
1989	D	32.1	31.9	-0.1	-0.3
1990	C	45.1	45.7	0.6	1.3
1991	C	44.4	44.4	0.0	0.0
	Mean:	41.6	41.7	0.1	0.1
	Median:	41.0	41.0	0.0	0.0
	Min:	13.5	13.5	-0.1	-0.3
	Max:	108.3	108.3	0.6	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	37.8	37.8	0.0	0.0
1976	C	63.7	85.4	21.7	34.1
1977	C	104.0	104.0	0.0	0.0
1978	AN	30.1	30.1	0.0	0.0
1979	BN	38.5	38.5	0.0	0.0
1980	AN	34.2	34.2	0.0	0.0
1981	D	53.0	53.0	0.0	0.0
1982	W	19.6	19.6	0.0	0.0
1983	W	13.8	13.8	0.0	0.0
1984	W	47.9	47.9	0.0	0.0
1985	D	59.7	59.7	0.0	0.0
1986	W	30.7	30.7	0.0	0.0
1987	D	59.3	59.3	0.0	0.0
1988	C	61.6	61.6	0.1	0.2
1989	D	46.5	46.5	0.0	0.0
1990	C	55.1	55.3	0.2	0.4
1991	C	51.3	51.4	0.0	0.0
	Mean:	47.5	48.8	1.3	2.0
	Median:	47.9	47.9	0.0	0.0
	Min:	13.8	13.8	0.0	0.0
	Max:	104.0	104.0	21.7	34.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Victoria Canal Chlorides

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	39.3	39.3	0.0	0.0
1976	C	79.6	81.7	2.2	2.8
1977	C	99.5	102.2	2.6	2.6
1978	AN	27.9	27.9	0.0	0.0
1979	BN	40.8	40.8	0.0	0.0
1980	AN	41.0	41.0	0.0	0.0
1981	D	53.4	55.1	1.6	3.0
1982	W	26.2	26.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	52.4	52.4	0.0	0.0
1985	D	52.2	52.3	0.1	0.2
1986	W	40.9	40.9	0.0	0.0
1987	D	76.6	80.1	3.5	4.6
1988	C	85.8	87.8	1.9	2.2
1989	D	58.4	58.4	0.0	0.0
1990	C	74.2	78.0	3.8	5.1
1991	C	60.2	63.0	2.8	4.7
	Mean:	53.8	54.9	1.1	1.5
	Median:	52.4	52.4	0.0	0.0
	Min:	7.0	7.0	0.0	0.0
	Max:	99.5	102.2	3.8	5.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	24.7	24.3	-0.4	-1.6
1976	C	57.0	59.0	2.0	3.5
1977	C	64.9	68.6	3.6	5.5
1978	AN	24.0	23.7	-0.3	-1.2
1979	BN	26.0	25.7	-0.3	-1.2
1980	AN	31.1	30.9	-0.1	-0.3
1981	D	41.3	41.8	0.4	1.0
1982	W	29.0	28.5	-0.5	-1.7
1983	W	9.9	9.9	0.0	0.0
1984	W	32.1	31.1	-1.0	-3.1
1985	D	43.3	43.3	0.0	0.0
1986	W	30.1	29.4	-0.7	-2.3
1987	D	43.0	45.9	2.8	6.5
1988	C	51.2	54.4	3.2	6.3
1989	D	36.1	35.9	-0.2	-0.6
1990	C	60.7	66.5	5.8	9.6
1991	C	56.3	60.3	3.9	6.9
	Mean:	38.9	40.0	1.1	1.6
	Median:	36.1	35.9	0.0	0.0
	Min:	9.9	9.9	-1.0	-3.1
	Max:	64.9	68.6	5.8	9.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	28.8	28.2	-0.6	-2.1
1976	C	47.2	47.8	0.6	1.3
1977	C	76.8	78.4	1.6	2.1
1978	AN	31.1	29.3	-1.7	-5.5
1979	BN	42.9	39.7	-3.2	-7.5
1980	AN	27.4	26.1	-1.3	-4.7
1981	D	64.9	63.8	-1.1	-1.7
1982	W	28.7	28.3	-0.4	-1.4
1983	W	9.6	9.6	0.0	0.0
1984	W	27.7	27.4	-0.2	-0.7
1985	D	66.3	66.3	0.0	0.0
1986	W	30.3	30.4	0.1	0.3
1987	D	61.0	53.3	-7.7	-12.6
1988	C	84.3	85.7	1.5	1.8
1989	D	59.6	58.2	-1.3	-2.2
1990	C	87.7	89.8	2.1	2.4
1991	C	92.6	94.1	1.5	1.6
	Mean:	51.0	50.4	-0.6	-1.7
	Median:	47.2	47.8	-0.2	-0.7
	Min:	9.6	9.6	-7.7	-12.6
	Max:	92.6	94.1	2.1	2.4
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Victoria Canal Chlorides

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	45.8	43.3	-2.6	-5.7
1976	C	70.4	70.9	0.5	0.7
1977	C	95.2	96.7	1.5	1.6
1978	AN	68.0	59.0	-9.0	-13.2
1979	BN	77.7	70.2	-7.5	-9.6
1980	AN	48.5	47.9	-0.6	-1.2
1981	D	81.0	80.6	-0.4	-0.5
1982	W	48.9	49.0	0.1	0.2
1983	W	32.1	32.1	0.0	0.0
1984	W	58.3	58.3	0.1	0.2
1985	D	79.5	79.5	0.0	0.0
1986	W	49.4	49.5	0.0	0.0
1987	D	86.0	81.5	-4.5	-5.2
1988	C	86.3	88.9	2.5	2.9
1989	D	73.9	72.3	-1.6	-2.2
1990	C	84.2	83.0	-1.2	-1.4
1991	C	80.7	80.0	-0.7	-0.9
	Mean:	68.6	67.2	-1.4	-2.0
	Median:	73.9	70.9	-0.4	-0.5
	Min:	32.1	32.1	-9.0	-13.2
	Max:	95.2	96.7	2.5	2.9
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Chlorides at Stockton Intake under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Chlorides (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	58.1	50.5	45.9	44.9	38.8	32.1	36.4	44.0	31.7	26.3	39.1	51.8
CEQA Modified Flow Alternative	57.8	50.5	46.1	45.7	39.6	32.2	36.4	45.3	33.0	26.8	38.2	50.3
Difference	-0.4	0.0	0.2	0.8	0.9	0.2	0.0	1.2	1.3	0.6	-1.0	-1.4
Percent Difference[3]	-0.6	0.0	0.5	1.7	2.2	0.5	0.1	2.8	4.1	2.2	-2.4	-2.7
Water Year Types[1]												
Wet												
CEQA No Project Alternative	36.0	30.9	26.1	26.6	20.3	19.7	23.2	27.5	22.1	10.6	13.2	30.9
CEQA Modified Flow Alternative	36.0	30.9	26.1	27.4	20.6	19.7	23.2	27.5	22.1	10.3	13.0	30.5
Difference	0.0	0.0	0.0	0.8	0.3	0.0	0.0	0.0	0.0	-0.3	-0.2	-0.4
Percent Difference	0.0	0.1	0.0	2.8	1.5	0.0	0.0	0.0	0.0	-2.9	-1.2	-1.5
Above Normal												
CEQA No Project Alternative	83.9	68.3	48.6	40.8	22.8	26.0	25.4	27.4	24.0	13.3	18.1	41.9
CEQA Modified Flow Alternative	82.1	67.6	49.6	41.0	22.8	26.0	25.4	27.4	24.0	13.1	15.8	37.0
Difference	-1.8	-0.7	1.0	0.2	0.0	0.0	0.0	0.0	0.0	-0.2	-2.3	-4.9
Percent Difference	-2.1	-1.0	2.1	0.6	0.0	0.0	0.0	0.0	0.0	-1.8	-12.7	-11.8
Below Normal												
CEQA No Project Alternative	49.8	49.6	53.5	40.9	25.8	27.2	31.7	36.7	19.8	11.6	33.1	63.9
CEQA Modified Flow Alternative	48.6	49.3	53.3	40.9	25.8	27.2	31.7	36.7	19.8	11.2	28.9	55.6
Difference	-1.2	-0.3	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	-4.3	-8.3
Percent Difference	-2.3	-0.6	-0.4	0.0	0.0	0.1	0.0	0.0	0.1	-3.9	-12.8	-13.0
Dry												
CEQA No Project Alternative	63.5	60.9	46.5	39.3	42.6	33.2	40.3	50.8	30.3	31.4	54.5	65.5
CEQA Modified Flow Alternative	63.6	61.3	46.5	39.7	43.2	33.3	40.2	50.9	31.8	31.2	51.9	64.1
Difference	0.1	0.3	0.0	0.4	0.6	0.1	0.0	0.1	1.5	-0.3	-2.6	-1.4
Percent Difference	0.1	0.5	0.1	0.9	1.4	0.3	0.0	0.1	4.9	-0.8	-4.8	-2.1
Critical												
CEQA No Project Alternative	67.3	55.0	62.7	70.3	63.3	47.0	51.7	63.2	47.7	45.9	62.4	63.2
CEQA Modified Flow Alternative	66.9	55.0	62.9	71.7	65.4	47.5	51.8	67.3	51.0	48.5	63.2	63.5
Difference	-0.4	0.0	0.3	1.4	2.1	0.5	0.1	4.2	3.2	2.6	0.8	0.4
Percent Difference	-0.6	0.0	0.4	2.0	3.3	1.0	0.2	6.6	6.7	5.7	1.3	0.6

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Stockton Intake Chlorides

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	7.6	7.6	0.0	0.0
1976	C	36.3	36.2	-0.2	-0.6
1977	C	77.1	77.4	0.2	0.3
1978	AN	92.0	92.6	0.5	0.5
1979	BN	49.8	48.6	-1.2	-2.4
1980	AN	75.7	71.7	-4.0	-5.3
1981	D	43.5	43.4	-0.1	-0.2
1982	W	70.8	70.7	-0.1	-0.1
1983	W	16.9	16.9	0.0	0.0
1984	W	17.4	17.4	0.0	0.0
1985	D	70.1	70.1	-0.1	-0.1
1986	W	67.3	67.4	0.0	0.0
1987	D	54.4	53.8	-0.7	-1.3
1988	C	81.2	80.6	-0.6	-0.7
1989	D	86.1	87.2	1.1	1.3
1990	C	62.5	62.0	-0.5	-0.8
1991	C	79.3	78.5	-0.9	-1.1
	Mean:	58.1	57.8	-0.4	-0.6
	Median:	67.3	67.4	-0.1	-0.1
	Min:	7.6	7.6	-4.0	-5.3
	Max:	92.0	92.6	1.1	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	29.4	29.4	0.0	0.0
1976	C	23.1	23.5	0.4	1.7
1977	C	58.2	58.2	0.0	0.0
1978	AN	85.5	85.4	-0.1	-0.1
1979	BN	49.6	49.3	-0.3	-0.6
1980	AN	51.0	49.8	-1.2	-2.4
1981	D	48.6	48.6	0.0	0.0
1982	W	42.7	42.7	0.0	0.0
1983	W	17.6	17.6	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	64.5	65.9	1.4	2.2
1986	W	58.0	58.0	0.0	0.0
1987	D	55.2	54.9	-0.3	-0.5
1988	C	57.3	57.2	-0.1	-0.2
1989	D	75.4	75.6	0.3	0.4
1990	C	51.7	51.6	-0.1	-0.2
1991	C	84.4	84.2	-0.2	-0.2
	Mean:	50.5	50.5	0.0	0.0
	Median:	51.7	51.6	0.0	0.0
	Min:	7.0	7.0	-1.2	-2.4
	Max:	85.5	85.4	1.4	2.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	49.5	49.4	-0.1	-0.2
1976	C	46.7	49.8	3.2	6.9
1977	C	67.0	67.0	0.0	0.0
1978	AN	63.6	63.9	0.3	0.5
1979	BN	53.5	53.3	-0.2	-0.4
1980	AN	33.5	35.3	1.8	5.4
1981	D	52.2	52.1	-0.1	-0.2
1982	W	18.3	18.3	0.0	0.0
1983	W	8.0	8.0	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	21.5	21.9	0.4	1.9
1986	W	47.6	47.7	0.1	0.2
1987	D	57.3	57.1	-0.2	-0.3
1988	C	61.5	61.4	-0.2	-0.3
1989	D	54.9	55.0	0.2	0.4
1990	C	70.5	69.0	-1.5	-2.1
1991	C	67.6	67.6	-0.1	-0.1
	Mean:	45.9	46.1	0.2	0.7
	Median:	52.2	52.1	0.0	0.0
	Min:	7.0	7.0	-1.5	-2.1
	Max:	70.5	69.0	3.2	6.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	50.5	54.5	4.0	7.9
1976	C	61.3	66.4	5.2	8.5
1977	C	69.9	69.9	0.0	0.0
1978	AN	62.0	62.2	0.2	0.3
1979	BN	40.9	40.9	0.0	0.0
1980	AN	19.6	19.8	0.2	1.0
1981	D	31.4	32.4	1.0	3.2
1982	W	30.6	30.5	0.0	0.0
1983	W	8.5	8.5	0.0	0.0
1984	W	10.3	10.3	0.0	0.0
1985	D	21.1	21.5	0.4	1.9
1986	W	33.3	33.1	-0.2	-0.6
1987	D	48.9	48.8	-0.1	-0.2
1988	C	61.7	61.5	-0.3	-0.5
1989	D	55.8	56.0	0.2	0.4
1990	C	91.6	94.0	2.4	2.6
1991	C	66.7	66.6	-0.1	-0.1
	Mean:	44.9	45.7	0.8	1.4
	Median:	48.9	48.8	0.0	0.0
	Min:	8.5	8.5	-0.3	-0.6
	Max:	91.6	94.0	5.2	8.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	38.8	40.3	1.5	3.9
1976	C	79.2	85.9	6.7	8.5
1977	C	79.6	79.6	0.0	0.0
1978	AN	35.7	35.7	0.0	0.0
1979	BN	25.7	25.7	0.0	0.0
1980	AN	9.8	9.8	0.0	0.0
1981	D	27.9	29.1	1.2	4.3
1982	W	15.2	15.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	20.5	20.5	0.0	0.0
1985	D	34.6	35.7	1.2	3.5
1986	W	19.8	19.8	0.0	0.0
1987	D	51.2	51.2	0.0	0.0
1988	C	28.8	28.8	0.0	0.0
1989	D	56.6	56.7	0.2	0.4
1990	C	50.4	54.3	3.9	7.7
1991	C	78.3	78.3	-0.1	-0.1
	Mean:	38.8	39.6	0.9	1.7
	Median:	34.6	35.7	0.0	0.0
	Min:	7.0	7.0	-0.1	-0.1
	Max:	79.6	85.9	6.7	8.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	25.1	25.1	0.0	0.0
1976	C	40.7	42.0	1.3	3.2
1977	C	79.9	79.9	0.0	0.0
1978	AN	34.5	34.5	0.0	0.0
1979	BN	27.2	27.2	0.0	0.0
1980	AN	17.5	17.5	0.0	0.0
1981	D	30.8	31.0	0.2	0.6
1982	W	22.2	22.2	0.0	0.0
1983	W	8.7	8.7	0.0	0.0
1984	W	27.7	27.7	0.0	0.0
1985	D	37.6	37.9	0.3	0.8
1986	W	14.5	14.5	0.0	0.0
1987	D	38.2	38.2	0.0	0.0
1988	C	31.6	31.6	0.0	0.0
1989	D	26.3	26.2	-0.2	-0.8
1990	C	32.8	33.8	1.0	3.0
1991	C	50.0	50.0	0.0	0.0
	Mean:	32.1	32.2	0.2	0.4
	Median:	30.8	31.0	0.0	0.0
	Min:	8.7	8.7	-0.2	-0.8
	Max:	79.9	79.9	1.3	3.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	29.5	29.5	0.0	0.0
1976	C	46.8	47.1	0.2	0.4
1977	C	86.9	86.9	0.0	0.0
1978	AN	24.4	24.4	0.0	0.0
1979	BN	31.6	31.7	0.0	0.0
1980	AN	26.4	26.4	0.0	0.0
1981	D	43.7	43.7	0.0	0.0
1982	W	11.8	11.8	0.0	0.0
1983	W	14.3	14.3	0.0	0.0
1984	W	38.7	38.7	0.0	0.0
1985	D	50.3	50.3	0.0	0.0
1986	W	21.7	21.7	0.0	0.0
1987	D	43.4	43.4	0.0	0.0
1988	C	44.7	44.8	0.0	0.0
1989	D	23.7	23.7	-0.1	-0.4
1990	C	38.9	39.2	0.2	0.5
1991	C	41.0	41.1	0.0	0.0
	Mean:	36.3	36.4	0.0	0.0
	Median:	38.7	38.7	0.0	0.0
	Min:	11.8	11.8	-0.1	-0.4
	Max:	86.9	86.9	0.2	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	35.1	35.1	0.0	0.0
1976	C	61.2	81.3	20.1	32.9
1977	C	94.5	94.6	0.0	0.0
1978	AN	22.5	22.5	0.0	0.0
1979	BN	36.7	36.7	0.0	0.0
1980	AN	32.3	32.3	0.0	0.0
1981	D	50.5	50.6	0.1	0.2
1982	W	15.8	15.8	0.0	0.0
1983	W	13.9	13.9	0.0	0.0
1984	W	45.4	45.4	0.0	0.0
1985	D	52.6	52.6	0.0	0.0
1986	W	27.3	27.3	0.0	0.0
1987	D	59.1	59.3	0.2	0.3
1988	C	59.6	59.7	0.0	0.0
1989	D	41.0	41.0	0.0	0.0
1990	C	53.3	53.6	0.4	0.8
1991	C	47.3	47.5	0.2	0.4
	Mean:	44.0	45.2	1.2	2.0
	Median:	45.4	45.4	0.0	0.0
	Min:	13.9	13.9	0.0	0.0
	Max:	94.5	94.6	20.1	32.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Stockton Intake Chlorides

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	23.3	23.3	0.0	0.0
1976	C	52.0	54.3	2.3	4.4
1977	C	62.2	64.9	2.7	4.3
1978	AN	18.7	18.7	0.0	0.0
1979	BN	19.8	19.8	0.0	0.0
1980	AN	29.2	29.2	0.0	0.0
1981	D	26.5	27.9	1.4	5.3
1982	W	20.2	20.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	28.2	28.3	0.0	0.0
1985	D	26.8	26.8	0.1	0.4
1986	W	31.7	31.7	0.0	0.0
1987	D	42.9	47.4	4.5	10.5
1988	C	49.8	52.6	2.8	5.6
1989	D	25.2	25.2	0.0	0.0
1990	C	41.9	46.8	5.0	11.9
1991	C	32.9	36.1	3.2	9.7
	Mean:	31.7	33.0	1.3	3.1
	Median:	28.2	28.3	0.0	0.0
	Min:	7.0	7.0	0.0	0.0
	Max:	62.2	64.9	5.0	11.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Stockton Intake Chlorides

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	8.0	7.7	-0.3	-3.8
1976	C	38.4	39.5	1.2	3.1
1977	C	50.5	52.7	2.2	4.4
1978	AN	10.3	10.1	-0.2	-1.9
1979	BN	11.6	11.1	-0.5	-4.3
1980	AN	16.3	16.0	-0.3	-1.8
1981	D	33.8	33.7	-0.1	-0.3
1982	W	14.0	13.4	-0.5	-3.6
1983	W	7.0	7.0	0.0	0.0
1984	W	11.3	10.8	-0.5	-4.4
1985	D	36.0	36.0	0.0	0.0
1986	W	12.9	12.7	-0.3	-2.3
1987	D	27.4	26.7	-0.7	-2.6
1988	C	38.7	40.2	1.5	3.9
1989	D	28.5	28.3	-0.2	-0.7
1990	C	50.2	55.1	4.9	9.8
1991	C	51.7	55.0	3.3	6.4
	Mean:	26.3	26.8	0.6	0.1
	Median:	27.4	26.7	-0.2	-0.7
	Min:	7.0	7.0	-0.7	-4.4
	Max:	51.7	55.1	4.9	9.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	14.7	13.8	-1.0	-6.8
1976	C	32.2	32.6	0.3	0.9
1977	C	65.4	66.2	0.8	1.2
1978	AN	20.5	17.2	-3.3	-16.1
1979	BN	33.1	28.9	-4.3	-13.0
1980	AN	15.6	14.3	-1.3	-8.3
1981	D	53.7	52.7	-1.0	-1.9
1982	W	14.1	14.1	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	13.8	13.9	0.0	0.0
1985	D	56.3	56.3	0.0	0.0
1986	W	16.0	16.3	0.2	1.2
1987	D	54.4	46.3	-8.1	-14.9
1988	C	65.2	66.1	0.8	1.2
1989	D	53.8	52.4	-1.4	-2.6
1990	C	70.0	71.2	1.2	1.7
1991	C	79.2	80.0	0.9	1.1
	Mean:	39.1	38.2	-1.0	-3.3
	Median:	33.1	32.6	0.0	0.0
	Min:	7.0	7.0	-8.1	-16.1
	Max:	79.2	80.0	1.2	1.7
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

Stockton Intake Chlorides

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Chlorides (mg/L)	Chlorides (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	23.2	20.7	-2.4	-10.4
1976	C	59.2	59.7	0.4	0.7
1977	C	74.9	76.1	1.2	1.6
1978	AN	51.6	42.2	-9.4	-18.2
1979	BN	63.9	55.6	-8.3	-13.0
1980	AN	32.2	31.7	-0.5	-1.6
1981	D	65.4	65.0	-0.4	-0.6
1982	W	30.1	30.2	0.1	0.3
1983	W	26.4	26.4	0.0	0.0
1984	W	44.3	44.4	0.0	0.0
1985	D	63.2	63.2	-0.1	-0.2
1986	W	30.5	30.6	0.1	0.3
1987	D	73.7	70.2	-3.5	-4.7
1988	C	58.5	60.4	1.9	3.2
1989	D	59.5	58.0	-1.5	-2.5
1990	C	60.9	59.9	-1.0	-1.6
1991	C	62.2	61.6	-0.7	-1.1
	Mean:	51.7	50.3	-1.4	-2.8
	Median:	59.2	58.0	-0.4	-0.6
	Min:	23.2	20.7	-9.4	-18.2
	Max:	74.9	76.1	1.9	3.2
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average DOC at the Old River at Hwy 4 (CCWD Los Vaqueros) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Dissolved Organic Carbon (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	2.5	2.8	3.3	4.3	5.3	5.3	4.7	4.3	3.7	3.1	2.7	2.5
CEQA Modified Flow Alternative	2.5	2.8	3.3	4.3	5.3	5.3	4.7	4.3	3.7	3.1	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference[3]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.7	0.0	0.4
Water Year Types[1]												
Wet												
CEQA No Project Alternative	2.4	2.9	3.9	4.7	5.8	4.9	4.4	4.0	3.4	3.0	2.6	2.4
CEQA Modified Flow Alternative	2.4	2.9	3.9	4.7	5.8	4.9	4.4	4.0	3.4	3.0	2.6	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7	-0.8	-0.4
Above Normal												
CEQA No Project Alternative	2.7	2.7	3.0	6.2	7.4	7.8	4.5	4.3	3.8	2.9	2.5	2.4
CEQA Modified Flow Alternative	2.7	2.7	3.0	6.2	7.4	7.8	4.5	4.3	3.8	2.9	2.5	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7	-0.4	0.0
Below Normal												
CEQA No Project Alternative	2.6	2.6	2.7	3.9	5.6	5.7	4.7	3.7	3.2	2.7	2.5	2.4
CEQA Modified Flow Alternative	2.6	2.6	2.7	3.9	5.6	5.7	4.7	3.7	3.2	2.7	2.5	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	-0.4	0.0	0.0
Dry												
CEQA No Project Alternative	2.6	2.8	3.0	3.4	3.9	4.7	4.9	4.3	3.7	2.9	2.6	2.4
CEQA Modified Flow Alternative	2.6	2.8	3.0	3.4	3.9	4.7	4.9	4.3	3.7	2.9	2.6	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.0	0.0	0.0
Critical												
CEQA No Project Alternative	2.6	2.7	3.0	4.1	5.0	5.0	5.0	4.6	4.1	3.4	3.1	2.9
CEQA Modified Flow Alternative	2.6	2.7	3.0	4.1	5.0	5.0	5.0	4.6	4.2	3.4	3.1	2.9
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Percent Difference	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.0	1.5	0.3	0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	1.1	1.1	0.0	0.0
1976	C	2.4	2.4	0.0	0.0
1977	C	2.7	2.7	0.0	0.0
1978	AN	2.8	2.8	0.0	0.0
1979	BN	2.6	2.6	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.6	2.6	0.0	0.0
1982	W	2.4	2.4	0.0	0.0
1983	W	2.8	2.8	0.0	0.0
1984	W	3.3	3.3	0.0	0.0
1985	D	2.4	2.4	0.0	0.0
1986	W	2.4	2.4	0.0	0.0
1987	D	2.5	2.5	0.0	0.0
1988	C	2.6	2.6	0.0	0.0
1989	D	3.0	3.0	0.0	0.0
1990	C	2.4	2.4	0.0	0.0
1991	C	2.8	2.8	0.0	0.0
	Mean:	2.5	2.5	0.0	0.0
	Median:	2.6	2.6	0.0	0.0
	Min:	1.1	1.1	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.4	2.4	0.0	0.0
1976	C	2.6	2.6	0.0	0.0
1977	C	2.8	2.8	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.6	2.6	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.3	3.3	0.0	0.0
1985	D	2.9	2.9	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.6	2.5	0.0	0.0
1988	C	2.6	2.6	0.0	0.0
1989	D	2.9	2.9	0.0	0.0
1990	C	2.5	2.5	0.0	0.0
1991	C	3.1	3.0	0.0	0.0
	Mean:	2.8	2.8	0.0	0.0
	Median:	2.7	2.7	0.0	0.0
	Min:	2.4	2.4	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.0	3.0	0.0	0.0
1976	C	3.0	3.0	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.8	2.8	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	5.0	5.0	0.0	0.0
1983	W	4.6	4.6	0.0	0.0
1984	W	3.8	3.8	0.0	0.0
1985	D	3.9	3.9	0.0	0.0
1986	W	3.2	3.2	0.0	0.0
1987	D	2.7	2.7	0.0	0.0
1988	C	3.1	3.1	0.0	0.0
1989	D	2.8	2.8	0.0	0.0
1990	C	2.7	2.7	0.0	0.0
1991	C	3.4	3.4	0.0	0.0
	Mean:	3.3	3.3	0.0	0.0
	Median:	3.0	3.0	0.0	0.0
	Min:	2.7	2.7	0.0	0.0
	Max:	5.0	5.0	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.5	3.5	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	3.7	3.7	0.0	0.0
1978	AN	6.5	6.5	0.0	0.0
1979	BN	3.9	3.9	0.0	0.0
1980	AN	5.8	5.8	0.0	0.0
1981	D	3.2	3.2	0.0	0.0
1982	W	6.8	6.8	0.0	0.0
1983	W	3.9	3.9	0.0	0.0
1984	W	4.3	4.3	0.0	0.0
1985	D	4.0	4.1	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	3.1	3.1	0.0	0.0
1988	C	5.1	5.1	0.0	0.0
1989	D	3.1	3.1	0.0	0.0
1990	C	3.7	3.7	0.0	0.0
1991	C	4.4	4.4	0.0	0.0
	Mean:	4.3	4.3	0.0	0.0
	Median:	3.9	3.9	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	6.8	6.8	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.6	4.6	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	5.3	5.3	0.0	0.0
1978	AN	9.4	9.4	0.0	0.0
1979	BN	5.6	5.6	0.0	0.0
1980	AN	5.4	5.4	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	5.8	5.8	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	5.0	5.0	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	8.8	8.8	0.0	0.0
1987	D	4.1	4.1	0.0	0.0
1988	C	6.0	6.0	0.0	0.0
1989	D	4.2	4.2	0.0	0.0
1990	C	5.0	4.9	0.0	0.0
1991	C	5.5	5.5	0.0	0.0
	Mean:	5.3	5.3	0.0	0.0
	Median:	5.0	5.0	0.0	0.0
	Min:	3.4	3.4	0.0	0.0
	Max:	9.4	9.4	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	5.3	5.3	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	6.1	6.1	0.0	0.0
1978	AN	9.4	9.4	0.0	0.0
1979	BN	5.7	5.7	0.0	0.0
1980	AN	6.2	6.2	0.0	0.0
1981	D	3.9	3.9	0.0	0.0
1982	W	5.2	5.2	0.0	0.0
1983	W	5.4	5.4	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	4.0	4.0	0.0	0.0
1986	W	5.4	5.4	0.0	0.0
1987	D	5.6	5.6	0.0	0.0
1988	C	5.6	5.6	0.0	0.0
1989	D	5.2	5.2	0.0	0.0
1990	C	4.9	4.9	0.0	0.0
1991	C	5.2	5.2	0.0	0.0
	Mean:	5.3	5.3	0.0	0.0
	Median:	5.3	5.3	0.0	0.0
	Min:	3.2	3.2	0.0	0.0
	Max:	9.4	9.4	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.4	4.4	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.5	5.5	0.0	0.0
1978	AN	4.6	4.6	0.0	0.0
1979	BN	4.7	4.7	0.0	0.0
1980	AN	4.5	4.5	0.0	0.0
1981	D	3.9	3.9	0.0	0.0
1982	W	4.2	4.2	0.0	0.0
1983	W	5.1	5.1	0.0	0.0
1984	W	3.0	3.0	0.0	0.0
1985	D	4.1	4.1	0.0	0.0
1986	W	5.2	5.2	0.0	0.0
1987	D	5.5	5.5	0.0	0.0
1988	C	4.8	4.8	0.0	0.0
1989	D	6.1	6.1	0.0	0.0
1990	C	4.8	4.8	0.0	0.0
1991	C	6.3	6.3	0.0	0.0
	Mean:	4.7	4.7	0.0	0.0
	Median:	4.7	4.7	0.0	0.0
	Min:	3.0	3.0	0.0	0.0
	Max:	6.3	6.3	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.7	3.7	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.2	4.2	0.0	0.0
1978	AN	4.9	4.9	0.0	0.0
1979	BN	3.7	3.7	0.0	0.0
1980	AN	3.7	3.7	0.0	0.0
1981	D	3.6	3.6	0.0	0.0
1982	W	4.1	4.1	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	4.2	4.2	0.0	0.0
1987	D	4.3	4.3	0.0	0.0
1988	C	4.7	4.7	0.0	0.0
1989	D	5.5	5.5	0.0	0.0
1990	C	4.9	4.9	0.0	0.0
1991	C	5.2	5.3	0.0	0.0
	Mean:	4.2	4.2	0.0	0.0
	Median:	4.2	4.2	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	5.5	5.5	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.1	3.1	0.0	0.0
1976	C	3.5	3.6	0.0	0.0
1977	C	4.0	4.1	0.1	2.5
1978	AN	4.2	4.2	0.0	0.0
1979	BN	3.2	3.2	0.0	0.0
1980	AN	3.4	3.4	0.0	0.0
1981	D	3.3	3.3	0.0	0.0
1982	W	3.8	3.8	0.0	0.0
1983	W	3.4	3.4	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.4	3.4	0.0	0.0
1986	W	3.5	3.5	0.0	0.0
1987	D	3.8	4.0	0.2	5.2
1988	C	4.5	4.7	0.1	2.2
1989	D	4.3	4.3	0.0	0.0
1990	C	4.4	4.5	0.2	4.6
1991	C	3.9	4.0	0.1	2.6
	Mean:	3.7	3.7	0.0	1.0
	Median:	3.5	3.6	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	4.5	4.7	0.2	5.2
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.7	2.6	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.3	3.4	0.1	3.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.9	2.9	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.8	3.8	0.0	0.0
1984	W	2.9	2.8	0.0	0.0
1985	D	2.8	2.8	0.0	0.0
1986	W	2.9	2.9	0.0	0.0
1987	D	3.1	3.2	0.1	3.2
1988	C	3.5	3.6	0.1	2.9
1989	D	3.0	3.0	0.0	0.0
1990	C	3.6	3.6	0.1	2.8
1991	C	3.3	3.3	0.0	0.0
	Mean:	3.1	3.1	0.0	0.7
	Median:	3.0	3.0	0.0	0.0
	Min:	2.7	2.6	0.0	0.0
	Max:	3.8	3.8	0.1	3.2
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.5	2.5	0.0	0.0
1976	C	2.8	2.8	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	2.5	2.5	0.0	0.0
1979	BN	2.5	2.5	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.6	2.6	0.0	0.0
1982	W	2.6	2.5	0.0	0.0
1983	W	2.7	2.7	0.0	0.0
1984	W	2.6	2.5	0.0	0.0
1985	D	2.5	2.5	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.7	2.7	0.0	0.0
1988	C	3.5	3.5	0.1	2.9
1989	D	2.6	2.6	0.0	0.0
1990	C	3.4	3.3	0.0	0.0
1991	C	3.0	3.0	0.0	0.0
	Mean:	2.7	2.7	0.0	0.2
	Median:	2.6	2.6	0.0	0.0
	Min:	2.5	2.5	0.0	0.0
	Max:	3.5	3.5	0.1	2.9
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Hwy 4 (CCWD Los Vaqueros) DOC

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.3	2.3	0.0	0.0
1976	C	2.5	2.5	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	2.4	2.4	0.0	0.0
1979	BN	2.4	2.4	0.0	0.0
1980	AN	2.4	2.4	0.0	0.0
1981	D	2.4	2.4	0.0	0.0
1982	W	2.4	2.4	0.0	0.0
1983	W	2.5	2.5	0.0	0.0
1984	W	2.4	2.4	0.0	0.0
1985	D	2.3	2.3	0.0	0.0
1986	W	2.3	2.3	0.0	0.0
1987	D	2.5	2.5	0.0	0.0
1988	C	3.1	3.2	0.1	3.2
1989	D	2.4	2.4	0.0	0.0
1990	C	3.0	3.0	0.0	0.0
1991	C	2.8	2.8	0.0	0.0
	Mean:	2.5	2.5	0.0	0.2
	Median:	2.4	2.4	0.0	0.0
	Min:	2.3	2.3	0.0	0.0
	Max:	3.1	3.2	0.1	3.2
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Long-term and Water Year Type Average DOC at the Old River at Rock Slough (CCWD Intake) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Dissolved Organic Carbon (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	2.3	2.5	3.1	4.0	4.9	4.8	4.3	3.8	3.2	2.7	2.5	2.3
CEQA Modified Flow Alternative	2.3	2.5	3.1	4.0	4.9	4.8	4.3	3.8	3.2	2.7	2.5	2.3
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference[3]	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.3	0.4	0.0	0.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	2.2	2.8	3.9	4.6	5.3	4.9	4.2	3.9	3.1	2.7	2.4	2.2
CEQA Modified Flow Alternative	2.2	2.8	3.9	4.6	5.3	4.9	4.2	3.9	3.1	2.7	2.3	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	-0.4	0.0
Above Normal												
CEQA No Project Alternative	2.4	2.4	2.8	5.9	8.0	6.8	4.7	3.9	3.3	2.6	2.3	2.2
CEQA Modified Flow Alternative	2.4	2.4	2.8	5.9	8.0	6.8	4.7	3.9	3.3	2.6	2.3	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	-0.4	0.0
Below Normal												
CEQA No Project Alternative	2.3	2.3	2.4	3.6	5.4	5.1	4.1	3.5	2.9	2.5	2.3	2.2
CEQA Modified Flow Alternative	2.3	2.3	2.4	3.6	5.4	5.1	4.1	3.5	2.9	2.4	2.3	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	-0.4	0.0	0.0
Dry												
CEQA No Project Alternative	2.3	2.5	2.8	3.0	3.4	4.2	4.4	3.8	3.1	2.6	2.4	2.2
CEQA Modified Flow Alternative	2.3	2.5	2.8	3.0	3.4	4.2	4.4	3.8	3.2	2.6	2.4	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	0.8	0.0	0.0
Critical												
CEQA No Project Alternative	2.3	2.4	2.7	3.7	4.3	4.2	4.1	3.8	3.3	2.9	2.7	2.5
CEQA Modified Flow Alternative	2.3	2.4	2.7	3.7	4.3	4.2	4.1	3.8	3.4	2.9	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Percent Difference	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.7	1.8	0.4	0.4

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Old River at Rock Slough (CCWD Intake) DOC

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	1.0	1.0	0.0	0.0
1976	C	2.1	2.1	0.0	0.0
1977	C	2.4	2.4	0.0	0.0
1978	AN	2.5	2.5	0.0	0.0
1979	BN	2.3	2.3	0.0	0.0
1980	AN	2.2	2.2	0.0	0.0
1981	D	2.3	2.3	0.0	0.0
1982	W	2.1	2.1	0.0	0.0
1983	W	2.6	2.6	0.0	0.0
1984	W	3.3	3.3	0.0	0.0
1985	D	2.2	2.2	0.0	0.0
1986	W	2.1	2.1	0.0	0.0
1987	D	2.2	2.2	0.0	0.0
1988	C	2.3	2.3	0.0	0.0
1989	D	2.6	2.6	0.0	0.0
1990	C	2.1	2.1	0.0	0.0
1991	C	2.5	2.5	0.0	0.0
	Mean:	2.3	2.3	0.0	0.0
	Median:	2.3	2.3	0.0	0.0
	Min:	1.0	1.0	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.2	2.2	0.0	0.0
1976	C	2.4	2.4	0.0	0.0
1977	C	2.3	2.3	0.0	0.0
1978	AN	2.6	2.6	0.0	0.0
1979	BN	2.3	2.3	0.0	0.0
1980	AN	2.3	2.3	0.0	0.0
1981	D	2.3	2.3	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.4	3.4	0.0	0.0
1985	D	2.8	2.7	0.0	0.0
1986	W	2.2	2.2	0.0	0.0
1987	D	2.3	2.3	0.0	0.0
1988	C	2.2	2.2	0.0	0.0
1989	D	2.5	2.5	0.0	0.0
1990	C	2.3	2.3	0.0	0.0
1991	C	2.6	2.6	0.0	0.0
	Mean:	2.5	2.5	0.0	0.0
	Median:	2.3	2.3	0.0	0.0
	Min:	2.2	2.2	0.0	0.0
	Max:	3.4	3.4	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.9	2.9	0.0	0.0
1976	C	2.9	2.9	0.0	0.0
1977	C	2.3	2.3	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.4	2.4	0.0	0.0
1980	AN	2.7	2.7	0.0	0.0
1981	D	2.4	2.4	0.0	0.0
1982	W	5.2	5.2	0.0	0.0
1983	W	4.7	4.7	0.0	0.0
1984	W	3.9	3.9	0.0	0.0
1985	D	3.7	3.7	0.0	0.0
1986	W	3.0	3.0	0.0	0.0
1987	D	2.4	2.4	0.0	0.0
1988	C	3.0	3.0	0.0	0.0
1989	D	2.5	2.5	0.0	0.0
1990	C	2.4	2.4	0.0	0.0
1991	C	2.9	2.9	0.0	0.0
	Mean:	3.1	3.1	0.0	0.0
	Median:	2.9	2.9	0.0	0.0
	Min:	2.3	2.3	0.0	0.0
	Max:	5.2	5.2	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.2	3.2	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.0	3.0	0.0	0.0
1978	AN	6.2	6.2	0.0	0.0
1979	BN	3.6	3.6	0.0	0.0
1980	AN	5.6	5.6	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	5.9	5.9	0.0	0.0
1983	W	4.5	4.5	0.0	0.0
1984	W	4.7	4.6	0.0	0.0
1985	D	3.7	3.7	0.0	0.0
1986	W	4.6	4.6	0.0	0.0
1987	D	2.8	2.8	0.0	0.0
1988	C	4.9	4.9	0.0	0.0
1989	D	2.7	2.7	0.0	0.0
1990	C	3.6	3.5	0.0	0.0
1991	C	3.9	3.9	0.0	0.0
	Mean:	4.0	4.0	0.0	0.0
	Median:	3.7	3.7	0.0	0.0
	Min:	2.7	2.7	0.0	0.0
	Max:	6.2	6.2	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.5	4.5	0.0	0.0
1976	C	2.9	2.9	0.0	0.0
1977	C	4.5	4.5	0.0	0.0
1978	AN	8.1	8.1	0.0	0.0
1979	BN	5.4	5.4	0.0	0.0
1980	AN	8.0	8.0	0.0	0.0
1981	D	3.3	3.3	0.0	0.0
1982	W	5.0	5.0	0.0	0.0
1983	W	4.9	4.9	0.0	0.0
1984	W	4.4	4.4	0.0	0.0
1985	D	3.3	3.3	0.0	0.0
1986	W	7.9	7.9	0.0	0.0
1987	D	3.6	3.6	0.0	0.0
1988	C	5.1	5.1	0.0	0.0
1989	D	3.5	3.5	0.0	0.0
1990	C	4.4	4.4	0.0	0.0
1991	C	4.6	4.6	0.0	0.0
	Mean:	4.9	4.9	0.0	0.0
	Median:	4.5	4.5	0.0	0.0
	Min:	2.9	2.9	0.0	0.0
	Max:	8.1	8.1	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	5.2	5.2	0.0	0.0
1976	C	2.9	2.9	0.0	0.0
1977	C	4.9	4.9	0.0	0.0
1978	AN	7.7	7.7	0.0	0.0
1979	BN	5.1	5.1	0.0	0.0
1980	AN	5.8	5.8	0.0	0.0
1981	D	3.4	3.4	0.0	0.0
1982	W	4.3	4.3	0.0	0.0
1983	W	5.5	5.5	0.0	0.0
1984	W	2.8	2.8	0.0	0.0
1985	D	3.4	3.4	0.0	0.0
1986	W	6.9	6.9	0.0	0.0
1987	D	5.1	5.1	0.0	0.0
1988	C	4.3	4.3	0.0	0.0
1989	D	4.9	4.9	0.0	0.0
1990	C	4.1	4.1	0.0	0.0
1991	C	4.8	4.8	0.0	0.0
	Mean:	4.8	4.8	0.0	0.0
	Median:	4.9	4.9	0.0	0.0
	Min:	2.8	2.8	0.0	0.0
	Max:	7.7	7.7	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.2	4.2	0.0	0.0
1976	C	3.0	3.0	0.0	0.0
1977	C	4.2	4.2	0.0	0.0
1978	AN	5.5	5.5	0.0	0.0
1979	BN	4.1	4.1	0.0	0.0
1980	AN	3.9	3.9	0.0	0.0
1981	D	3.5	3.5	0.0	0.0
1982	W	4.3	4.3	0.0	0.0
1983	W	5.2	5.2	0.0	0.0
1984	W	2.6	2.6	0.0	0.0
1985	D	3.5	3.5	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	4.9	4.9	0.0	0.0
1988	C	3.7	3.7	0.0	0.0
1989	D	5.6	5.6	0.0	0.0
1990	C	4.0	4.0	0.0	0.0
1991	C	5.7	5.7	0.0	0.0
	Mean:	4.3	4.3	0.0	0.0
	Median:	4.2	4.2	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	5.7	5.7	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.3	3.3	0.0	0.0
1976	C	3.2	3.2	0.0	0.0
1977	C	3.4	3.4	0.0	0.0
1978	AN	4.5	4.5	0.0	0.0
1979	BN	3.4	3.5	0.0	0.0
1980	AN	3.3	3.3	0.0	0.0
1981	D	3.3	3.4	0.0	0.0
1982	W	4.6	4.6	0.0	0.0
1983	W	4.9	4.9	0.0	0.0
1984	W	2.8	2.8	0.0	0.0
1985	D	3.3	3.3	0.0	0.0
1986	W	3.8	3.8	0.0	0.0
1987	D	3.6	3.7	0.0	0.0
1988	C	3.8	3.8	0.0	0.0
1989	D	4.8	4.8	0.0	0.0
1990	C	4.2	4.3	0.0	0.0
1991	C	4.4	4.4	0.0	0.0
	Mean:	3.8	3.8	0.0	0.0
	Median:	3.6	3.7	0.0	0.0
	Min:	2.8	2.8	0.0	0.0
	Max:	4.9	4.9	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.6	2.6	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.3	3.4	0.1	3.0
1978	AN	3.6	3.6	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	3.0	3.0	0.0	0.0
1981	D	2.9	3.0	0.0	0.0
1982	W	3.3	3.3	0.0	0.0
1983	W	3.5	3.5	0.0	0.0
1984	W	2.7	2.7	0.0	0.0
1985	D	3.0	3.0	0.0	0.0
1986	W	3.1	3.1	0.0	0.0
1987	D	3.2	3.3	0.1	3.2
1988	C	3.5	3.6	0.1	2.8
1989	D	3.4	3.4	0.0	0.0
1990	C	3.5	3.7	0.2	5.6
1991	C	3.1	3.2	0.1	3.2
	Mean:	3.2	3.2	0.0	1.0
	Median:	3.1	3.2	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.6	3.7	0.2	5.6
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.4	2.4	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	2.7	2.6	0.0	0.0
1979	BN	2.4	2.4	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.5	2.6	0.0	0.0
1982	W	2.5	2.5	0.0	0.0
1983	W	3.5	3.5	0.0	0.0
1984	W	2.5	2.5	0.0	0.0
1985	D	2.5	2.5	0.0	0.0
1986	W	2.6	2.6	0.0	0.0
1987	D	2.7	2.7	0.1	3.7
1988	C	3.0	3.0	0.1	3.4
1989	D	2.6	2.6	0.0	0.0
1990	C	3.0	3.1	0.0	0.0
1991	C	2.8	2.8	0.0	0.0
	Mean:	2.7	2.7	0.0	0.4
	Median:	2.6	2.6	0.0	0.0
	Min:	2.4	2.4	0.0	0.0
	Max:	3.5	3.5	0.1	3.7
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.3	2.3	0.0	0.0
1976	C	2.5	2.5	0.0	0.0
1977	C	2.7	2.7	0.0	0.0
1978	AN	2.3	2.3	0.0	0.0
1979	BN	2.3	2.3	0.0	0.0
1980	AN	2.3	2.3	0.0	0.0
1981	D	2.4	2.4	0.0	0.0
1982	W	2.3	2.3	0.0	0.0
1983	W	2.5	2.5	0.0	0.0
1984	W	2.3	2.3	0.0	0.0
1985	D	2.3	2.3	0.0	0.0
1986	W	2.3	2.3	0.0	0.0
1987	D	2.4	2.4	0.0	0.0
1988	C	3.0	3.0	0.1	3.4
1989	D	2.3	2.3	0.0	0.0
1990	C	2.9	2.9	0.0	0.0
1991	C	2.6	2.6	0.0	0.0
	Mean:	2.4	2.4	0.0	0.2
	Median:	2.3	2.3	0.0	0.0
	Min:	2.3	2.3	0.0	0.0
	Max:	3.0	3.0	0.1	3.4
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Old River at Rock Slough (CCWD Intake) DOC

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.2	2.2	0.0	0.0
1976	C	2.3	2.3	0.0	0.0
1977	C	2.5	2.5	0.0	0.0
1978	AN	2.2	2.2	0.0	0.0
1979	BN	2.2	2.2	0.0	0.0
1980	AN	2.2	2.2	0.0	0.0
1981	D	2.2	2.2	0.0	0.0
1982	W	2.2	2.1	0.0	0.0
1983	W	2.2	2.2	0.0	0.0
1984	W	2.2	2.2	0.0	0.0
1985	D	2.1	2.1	0.0	0.0
1986	W	2.2	2.2	0.0	0.0
1987	D	2.3	2.3	0.0	0.0
1988	C	2.7	2.7	0.0	0.0
1989	D	2.2	2.2	0.0	0.0
1990	C	2.6	2.6	0.0	0.0
1991	C	2.5	2.5	0.0	0.0
	Mean:	2.3	2.3	0.0	0.0
	Median:	2.2	2.2	0.0	0.0
	Min:	2.1	2.1	0.0	0.0
	Max:	2.7	2.7	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Long-term and Water Year Type Average DOC at West Canal at the mouth of CCF (SWP Banks) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Dissolved Organic Carbon (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	2.7	2.9	3.3	4.4	5.2	5.0	4.7	4.3	3.9	3.3	2.9	2.7
CEQA Modified Flow Alternative	2.7	2.9	3.3	4.4	5.2	5.0	4.7	4.3	4.0	3.3	2.9	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference[3]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.6	0.0	0.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	2.5	2.9	3.7	4.8	5.7	4.6	4.2	3.9	3.5	3.1	2.7	2.5
CEQA Modified Flow Alternative	2.5	2.9	3.7	4.8	5.7	4.6	4.2	3.9	3.5	3.1	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	-0.6	-0.7	0.0
Above Normal												
CEQA No Project Alternative	2.8	2.9	3.1	6.4	7.1	5.8	4.1	3.8	3.7	3.2	2.7	2.5
CEQA Modified Flow Alternative	2.8	2.9	3.1	6.4	7.1	5.8	4.1	3.8	3.7	3.1	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.0	-0.3	0.0	-0.1	0.0	0.0	0.0	0.0	-0.6	-0.4	-0.4
Below Normal												
CEQA No Project Alternative	2.8	2.9	2.9	3.9	5.3	5.8	4.8	3.8	3.4	2.9	2.6	2.6
CEQA Modified Flow Alternative	2.8	2.9	2.9	3.9	5.3	5.8	4.8	3.8	3.4	2.9	2.6	2.6
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0
Dry												
CEQA No Project Alternative	2.8	2.9	3.1	3.5	3.9	4.8	5.1	4.5	4.0	3.1	2.7	2.5
CEQA Modified Flow Alternative	2.8	2.9	3.1	3.5	3.9	4.8	5.1	4.5	4.1	3.2	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
Critical												
CEQA No Project Alternative	2.7	2.9	3.1	4.0	4.9	5.1	5.2	4.9	4.5	3.7	3.3	3.1
CEQA Modified Flow Alternative	2.7	2.9	3.1	4.0	4.9	5.1	5.2	4.9	4.5	3.7	3.3	3.1
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.8	2.2	0.6	0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

West Canal at the mouth of CCF (SWP Banks) DOC

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	1.2	1.2	0.0	0.0
1976	C	2.6	2.6	0.0	0.0
1977	C	2.8	2.8	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.6	2.6	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.5	2.5	0.0	0.0
1983	W	3.1	3.1	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.6	2.6	0.0	0.0
1988	C	2.7	2.7	0.0	0.0
1989	D	3.1	3.2	0.0	0.0
1990	C	2.5	2.5	0.0	0.0
1991	C	3.0	3.0	0.0	0.0
	Mean:	2.7	2.7	0.0	0.0
	Median:	2.7	2.7	0.0	0.0
	Min:	1.2	1.2	0.0	0.0
	Max:	3.1	3.2	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.6	2.6	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	3.1	3.1	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	2.6	2.6	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	2.9	2.9	0.0	0.0
1986	W	2.7	2.7	0.0	0.0
1987	D	2.8	2.8	0.0	0.0
1988	C	2.8	2.8	0.0	0.0
1989	D	3.1	3.1	0.0	0.0
1990	C	2.6	2.6	0.0	0.0
1991	C	3.0	3.0	0.0	0.0
	Mean:	2.9	2.9	0.0	0.0
	Median:	2.9	2.9	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.1	3.1	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.3	3.3	0.0	0.0
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.9	2.9	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	4.7	4.7	0.0	0.0
1983	W	3.7	3.7	0.0	0.0
1984	W	3.7	3.7	0.0	0.0
1985	D	3.9	3.9	0.0	0.0
1986	W	3.3	3.3	0.0	0.0
1987	D	2.8	2.8	0.0	0.0
1988	C	3.2	3.2	0.0	0.0
1989	D	3.0	3.0	0.0	0.0
1990	C	2.8	2.8	0.0	0.0
1991	C	3.3	3.3	0.0	0.0
	Mean:	3.3	3.3	0.0	0.0
	Median:	3.2	3.2	0.0	0.0
	Min:	2.8	2.8	0.0	0.0
	Max:	4.7	4.7	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.7	3.7	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	3.6	3.6	0.0	0.0
1978	AN	6.5	6.5	0.0	0.0
1979	BN	3.9	3.9	0.0	0.0
1980	AN	6.3	6.3	0.0	0.0
1981	D	3.3	3.3	0.0	0.0
1982	W	7.4	7.4	0.0	0.0
1983	W	3.8	3.8	0.0	0.0
1984	W	4.3	4.3	0.0	0.0
1985	D	4.3	4.3	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	3.3	3.3	0.0	0.0
1988	C	5.1	5.1	0.0	0.0
1989	D	3.3	3.3	0.0	0.0
1990	C	3.7	3.7	0.0	0.0
1991	C	3.8	3.8	0.0	0.0
	Mean:	4.4	4.4	0.0	0.0
	Median:	3.8	3.8	0.0	0.0
	Min:	3.3	3.3	0.0	0.0
	Max:	7.4	7.4	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.6	4.6	0.0	0.0
1976	C	3.6	3.6	0.0	0.0
1977	C	4.6	4.6	0.0	0.0
1978	AN	9.9	9.9	0.0	0.0
1979	BN	5.3	5.3	0.0	0.0
1980	AN	4.2	4.2	0.0	0.0
1981	D	3.9	3.9	0.0	0.0
1982	W	5.7	5.7	0.0	0.0
1983	W	4.5	4.5	0.0	0.0
1984	W	4.0	4.0	0.0	0.0
1985	D	4.0	4.0	0.0	0.0
1986	W	9.9	9.9	0.0	0.0
1987	D	4.0	4.0	0.0	0.0
1988	C	6.4	6.4	0.0	0.0
1989	D	3.8	3.8	0.0	0.0
1990	C	5.1	5.1	0.0	0.0
1991	C	4.7	4.7	0.0	0.0
	Mean:	5.2	5.2	0.0	0.0
	Median:	4.6	4.6	0.0	0.0
	Min:	3.6	3.6	0.0	0.0
	Max:	9.9	9.9	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	5.0	5.0	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.3	5.3	0.0	0.0
1978	AN	6.9	6.9	0.0	0.0
1979	BN	5.8	5.8	0.0	0.0
1980	AN	4.7	4.7	0.0	0.0
1981	D	4.1	4.1	0.0	0.0
1982	W	4.3	4.3	0.0	0.0
1983	W	5.3	5.3	0.0	0.0
1984	W	3.4	3.4	0.0	0.0
1985	D	4.2	4.2	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	5.4	5.4	0.0	0.0
1988	C	5.9	5.9	0.0	0.0
1989	D	5.3	5.4	0.0	0.0
1990	C	5.4	5.4	0.0	0.0
1991	C	5.4	5.4	0.0	0.0
	Mean:	5.0	5.0	0.0	0.0
	Median:	5.3	5.3	0.0	0.0
	Min:	3.4	3.4	0.0	0.0
	Max:	6.9	6.9	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.3	4.3	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.5	5.5	0.0	0.0
1978	AN	4.1	4.1	0.0	0.0
1979	BN	4.8	4.8	0.0	0.0
1980	AN	4.1	4.1	0.0	0.0
1981	D	4.0	4.0	0.0	0.0
1982	W	4.1	4.1	0.0	0.0
1983	W	5.2	5.2	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	4.3	4.3	0.0	0.0
1986	W	4.4	4.4	0.0	0.0
1987	D	5.9	5.9	0.0	0.0
1988	C	5.5	5.5	0.0	0.0
1989	D	6.3	6.3	0.0	0.0
1990	C	5.0	5.0	0.0	0.0
1991	C	6.3	6.3	0.0	0.0
	Mean:	4.7	4.7	0.0	0.0
	Median:	4.4	4.4	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	6.3	6.3	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.8	3.8	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.0	5.0	0.0	0.0
1978	AN	4.1	4.1	0.0	0.0
1979	BN	3.8	3.8	0.0	0.0
1980	AN	3.6	3.6	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	3.9	3.9	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	3.9	3.9	0.0	0.0
1987	D	4.8	4.8	0.0	0.0
1988	C	4.9	4.9	0.0	0.0
1989	D	5.7	5.7	0.0	0.0
1990	C	5.0	5.0	0.0	0.0
1991	C	5.9	5.9	0.0	0.0
	Mean:	4.3	4.3	0.0	0.0
	Median:	3.9	3.9	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	5.9	5.9	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.4	3.4	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.3	4.4	0.1	2.3
1978	AN	3.9	3.9	0.0	0.0
1979	BN	3.4	3.4	0.0	0.0
1980	AN	3.5	3.5	0.0	0.0
1981	D	3.4	3.5	0.0	0.0
1982	W	3.8	3.8	0.0	0.0
1983	W	3.6	3.6	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	3.5	3.5	0.0	0.0
1986	W	3.6	3.6	0.0	0.0
1987	D	4.2	4.3	0.1	2.4
1988	C	4.8	4.8	0.0	0.0
1989	D	4.8	4.8	0.0	0.0
1990	C	4.7	4.8	0.1	2.1
1991	C	4.7	4.9	0.2	4.2
	Mean:	3.9	4.0	0.0	0.6
	Median:	3.7	3.7	0.0	0.0
	Min:	3.2	3.2	0.0	0.0
	Max:	4.8	4.9	0.2	4.2
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.8	2.8	0.0	0.0
1976	C	3.3	3.4	0.0	0.0
1977	C	3.6	3.7	0.1	2.8
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	3.1	3.1	0.0	0.0
1981	D	3.0	3.0	0.0	0.0
1982	W	3.1	3.1	0.0	0.0
1983	W	3.5	3.5	0.0	0.0
1984	W	3.1	3.0	0.0	0.0
1985	D	3.0	3.0	0.0	0.0
1986	W	3.2	3.1	0.0	0.0
1987	D	3.4	3.5	0.1	3.0
1988	C	3.9	4.0	0.1	2.6
1989	D	3.2	3.2	0.0	0.0
1990	C	3.9	4.0	0.1	2.6
1991	C	3.6	3.7	0.1	2.8
	Mean:	3.3	3.3	0.0	0.8
	Median:	3.2	3.2	0.0	0.0
	Min:	2.8	2.8	0.0	0.0
	Max:	3.9	4.0	0.1	3.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.6	2.6	0.0	0.0
1976	C	3.0	3.0	0.0	0.0
1977	C	3.2	3.3	0.0	0.0
1978	AN	2.7	2.7	0.0	0.0
1979	BN	2.6	2.6	0.0	0.0
1980	AN	2.7	2.7	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	2.7	2.7	0.0	0.0
1983	W	2.9	2.9	0.0	0.0
1984	W	2.7	2.7	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.7	2.7	0.0	0.0
1987	D	2.9	2.9	0.0	0.0
1988	C	3.5	3.5	0.1	2.9
1989	D	2.7	2.7	0.0	0.0
1990	C	3.5	3.5	0.0	0.0
1991	C	3.2	3.2	0.0	0.0
	Mean:	2.9	2.9	0.0	0.2
	Median:	2.7	2.7	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.5	3.5	0.1	2.9
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

West Canal at the mouth of CCF (SWP Banks) DOC

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.5	2.4	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	2.5	2.5	0.0	0.0
1979	BN	2.5	2.5	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.6	2.6	0.0	0.0
1982	W	2.5	2.5	0.0	0.0
1983	W	2.6	2.6	0.0	0.0
1984	W	2.5	2.5	0.0	0.0
1985	D	2.4	2.4	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.6	2.7	0.0	0.0
1988	C	3.4	3.4	0.1	3.0
1989	D	2.5	2.5	0.0	0.0
1990	C	3.2	3.2	0.0	0.0
1991	C	2.9	2.9	0.0	0.0
	Mean:	2.7	2.7	0.0	0.2
	Median:	2.5	2.5	0.0	0.0
	Min:	2.4	2.4	0.0	0.0
	Max:	3.4	3.4	0.1	3.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Long-term and Water Year Type Average DOC at the Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Dissolved Organic Carbon (mg/L)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
					Long-term							
Full Simulation Period[2]												
CEQA No Project Alternative	2.7	2.9	3.4	4.6	5.0	4.7	4.4	4.2	3.8	3.3	3.0	2.8
CEQA Modified Flow Alternative	2.7	2.9	3.4	4.6	5.0	4.7	4.4	4.2	3.8	3.3	3.0	2.8
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference[3]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0
					Water Year Types[1]							
Wet												
CEQA No Project Alternative	2.6	2.9	3.8	5.1	5.7	4.2	4.0	3.8	3.4	3.2	2.8	2.8
CEQA Modified Flow Alternative	2.6	2.9	3.8	5.1	5.7	4.2	4.0	3.8	3.4	3.2	2.8	2.8
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	-0.7	-0.4
Above Normal												
CEQA No Project Alternative	2.8	2.9	3.0	7.3	7.4	4.4	3.8	3.8	3.4	3.2	2.8	2.7
CEQA Modified Flow Alternative	2.8	2.9	3.0	7.3	7.4	4.4	3.8	3.8	3.4	3.2	2.8	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.4	0.0
Below Normal												
CEQA No Project Alternative	2.8	2.8	3.0	4.1	5.2	5.8	4.1	3.7	3.4	2.9	2.7	2.7
CEQA Modified Flow Alternative	2.8	2.8	3.0	4.1	5.2	5.8	4.1	3.7	3.4	2.9	2.7	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0
Dry												
CEQA No Project Alternative	2.8	2.9	3.3	3.5	3.8	4.6	4.7	4.4	3.9	3.1	2.8	2.7
CEQA Modified Flow Alternative	2.8	2.9	3.3	3.5	3.8	4.6	4.7	4.4	4.0	3.2	2.8	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
Critical												
CEQA No Project Alternative	2.8	2.9	3.3	3.9	4.4	5.1	4.9	4.8	4.3	3.6	3.3	3.1
CEQA Modified Flow Alternative	2.8	2.9	3.3	3.9	4.4	5.1	4.9	4.8	4.4	3.7	3.4	3.1
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.9	0.6	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	1.3	1.3	0.0	0.0
1976	C	2.6	2.6	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.7	2.7	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.6	2.6	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.4	3.4	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.7	2.6	0.0	0.0
1988	C	2.8	2.8	0.0	0.0
1989	D	3.1	3.2	0.0	0.0
1990	C	2.5	2.5	0.0	0.0
1991	C	3.0	3.0	0.0	0.0
	Mean:	2.7	2.7	0.0	0.0
	Median:	2.8	2.8	0.0	0.0
	Min:	1.3	1.3	0.0	0.0
	Max:	3.4	3.4	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.6	2.6	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	3.1	3.1	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.6	2.6	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.1	3.1	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	3.0	3.0	0.0	0.0
1986	W	2.7	2.7	0.0	0.0
1987	D	2.8	2.7	0.0	0.0
1988	C	2.8	2.8	0.0	0.0
1989	D	3.1	3.1	0.0	0.0
1990	C	2.7	2.7	0.0	0.0
1991	C	3.1	3.1	0.0	0.0
	Mean:	2.9	2.9	0.0	0.0
	Median:	2.9	2.9	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.2	3.2	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.3	3.3	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	3.7	3.7	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	3.0	3.0	0.0	0.0
1980	AN	2.9	2.9	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	4.2	4.2	0.0	0.0
1983	W	3.6	3.6	0.0	0.0
1984	W	3.8	3.8	0.0	0.0
1985	D	3.9	3.9	0.0	0.0
1986	W	4.0	4.0	0.0	0.0
1987	D	3.0	3.0	0.0	0.0
1988	C	3.3	3.3	0.0	0.0
1989	D	3.2	3.2	0.0	0.0
1990	C	3.1	3.1	0.0	0.0
1991	C	3.2	3.2	0.0	0.0
	Mean:	3.4	3.4	0.0	0.0
	Median:	3.3	3.3	0.0	0.0
	Min:	2.9	2.9	0.0	0.0
	Max:	4.2	4.2	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.7	3.7	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	4.2	4.2	0.0	0.0
1978	AN	7.4	7.4	0.0	0.0
1979	BN	4.1	4.1	0.0	0.0
1980	AN	7.3	7.3	0.0	0.0
1981	D	3.4	3.4	0.0	0.0
1982	W	8.2	8.2	0.0	0.0
1983	W	4.0	4.0	0.0	0.0
1984	W	4.3	4.3	0.0	0.0
1985	D	4.1	4.1	0.0	0.0
1986	W	5.2	5.2	0.0	0.0
1987	D	3.2	3.2	0.0	0.0
1988	C	4.9	4.9	0.0	0.0
1989	D	3.4	3.4	0.0	0.0
1990	C	3.8	3.8	0.0	0.0
1991	C	3.2	3.2	0.0	0.0
	Mean:	4.6	4.6	0.0	0.0
	Median:	4.1	4.1	0.0	0.0
	Min:	3.2	3.2	0.0	0.0
	Max:	8.2	8.2	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.6	4.6	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	4.0	4.0	0.0	0.0
1978	AN	10.7	10.7	0.0	0.0
1979	BN	5.2	5.2	0.0	0.0
1980	AN	4.0	4.0	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	5.3	5.3	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.5	3.5	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	10.4	10.4	0.0	0.0
1987	D	3.7	3.7	0.0	0.0
1988	C	5.8	5.8	0.0	0.0
1989	D	3.9	3.9	0.0	0.0
1990	C	5.2	5.2	0.0	0.0
1991	C	3.3	3.3	0.0	0.0
	Mean:	5.0	5.0	0.0	0.0
	Median:	4.0	4.0	0.0	0.0
	Min:	3.3	3.3	0.0	0.0
	Max:	10.7	10.7	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.7	4.7	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	3.7	3.7	0.0	0.0
1978	AN	4.4	4.4	0.0	0.0
1979	BN	5.8	5.8	0.0	0.0
1980	AN	4.3	4.3	0.0	0.0
1981	D	3.8	3.8	0.0	0.0
1982	W	3.4	3.4	0.0	0.0
1983	W	5.4	5.4	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	4.5	4.5	0.0	0.0
1987	D	4.7	4.7	0.0	0.0
1988	C	7.0	7.0	0.0	0.0
1989	D	6.0	6.0	0.0	0.0
1990	C	5.8	5.8	0.0	0.0
1991	C	5.8	5.8	0.0	0.0
	Mean:	4.7	4.7	0.0	0.0
	Median:	4.5	4.5	0.0	0.0
	Min:	3.2	3.2	0.0	0.0
	Max:	7.0	7.0	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	4.0	4.0	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	4.3	4.3	0.0	0.0
1978	AN	3.9	3.9	0.0	0.0
1979	BN	4.1	4.1	0.0	0.0
1980	AN	3.6	3.6	0.0	0.0
1981	D	3.6	3.6	0.0	0.0
1982	W	4.1	4.1	0.0	0.0
1983	W	5.1	5.1	0.0	0.0
1984	W	3.0	3.0	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	3.9	3.9	0.0	0.0
1987	D	5.0	5.0	0.0	0.0
1988	C	5.6	5.6	0.0	0.0
1989	D	6.2	6.2	0.0	0.0
1990	C	5.4	5.4	0.0	0.0
1991	C	6.0	6.0	0.0	0.0
	Mean:	4.4	4.4	0.0	0.0
	Median:	4.1	4.1	0.0	0.0
	Min:	3.0	3.0	0.0	0.0
	Max:	6.2	6.2	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.8	3.8	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.4	4.4	0.0	0.0
1978	AN	3.9	3.9	0.0	0.0
1979	BN	3.7	3.7	0.0	0.0
1980	AN	3.7	3.7	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	3.8	3.8	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	3.3	3.3	0.0	0.0
1987	D	4.5	4.5	0.0	0.0
1988	C	5.0	5.0	0.0	0.0
1989	D	5.7	5.7	0.0	0.0
1990	C	5.1	5.1	0.0	0.0
1991	C	5.6	5.6	0.0	0.0
	Mean:	4.2	4.2	0.0	0.0
	Median:	3.8	3.8	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	5.7	5.7	0.0	0.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	3.4	3.4	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.1	4.1	0.1	2.5
1978	AN	3.4	3.4	0.0	0.0
1979	BN	3.4	3.4	0.0	0.0
1980	AN	3.4	3.4	0.0	0.0
1981	D	3.4	3.5	0.0	0.0
1982	W	3.4	3.4	0.0	0.0
1983	W	3.4	3.4	0.0	0.0
1984	W	3.3	3.3	0.0	0.0
1985	D	3.5	3.5	0.0	0.0
1986	W	3.4	3.4	0.0	0.0
1987	D	4.0	4.1	0.1	2.5
1988	C	4.8	4.9	0.1	2.1
1989	D	4.7	4.7	0.0	0.0
1990	C	4.6	4.7	0.1	2.2
1991	C	4.1	4.3	0.1	2.4
	Mean:	3.8	3.8	0.0	0.7
	Median:	3.4	3.5	0.0	0.0
	Min:	3.3	3.3	0.0	0.0
	Max:	4.8	4.9	0.1	2.5
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.9	2.9	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	3.6	3.6	0.1	2.8
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	3.2	3.2	0.0	0.0
1981	D	3.0	3.0	0.0	0.0
1982	W	3.2	3.2	0.0	0.0
1983	W	3.4	3.4	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.0	3.0	0.0	0.0
1986	W	3.2	3.2	0.0	0.0
1987	D	3.4	3.5	0.1	3.0
1988	C	3.8	3.9	0.1	2.6
1989	D	3.2	3.2	0.0	0.0
1990	C	3.8	3.9	0.1	2.6
1991	C	3.5	3.6	0.0	0.0
	Mean:	3.3	3.3	0.0	0.6
	Median:	3.2	3.2	0.0	0.0
	Min:	2.9	2.9	0.0	0.0
	Max:	3.8	3.9	0.1	3.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.7	2.7	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.3	3.3	0.0	0.0
1978	AN	2.8	2.8	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.8	2.8	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.8	2.8	0.0	0.0
1983	W	3.0	3.0	0.0	0.0
1984	W	2.8	2.8	0.0	0.0
1985	D	2.7	2.7	0.0	0.0
1986	W	2.8	2.8	0.0	0.0
1987	D	3.0	3.0	0.0	0.0
1988	C	3.6	3.7	0.1	2.8
1989	D	2.8	2.7	0.0	0.0
1990	C	3.6	3.5	0.0	0.0
1991	C	3.2	3.2	0.0	0.0
	Mean:	3.0	3.0	0.0	0.2
	Median:	2.8	2.8	0.0	0.0
	Min:	2.7	2.7	0.0	0.0
	Max:	3.6	3.7	0.1	2.8
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Absolute Difference	Relative Difference (%)
1975	W	2.6	2.6	0.0	0.0
1976	C	2.8	2.8	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	2.7	2.7	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.7	2.7	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	2.9	2.8	0.0	0.0
1983	W	3.1	3.1	0.0	0.0
1984	W	2.7	2.7	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.6	2.6	0.0	0.0
1987	D	2.7	2.7	0.0	0.0
1988	C	3.4	3.4	0.1	3.0
1989	D	2.7	2.7	0.0	0.0
1990	C	3.2	3.2	0.0	0.0
1991	C	3.0	3.0	0.0	0.0
	Mean:	2.8	2.8	0.0	0.2
	Median:	2.7	2.7	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.4	3.4	0.1	3.0
# Years Abs Diff	< -0.4			0	
# Years Abs Diff	> 0.4			0	
# Years Rel Diff	<= -10%				0
# Years Rel Diff	>= 10%				0

Long-term and Water Year Type Average Flow at the Old River at Bacon Island under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Flow (cfs)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	-2,995	-2,633	-2,283	-2,294	-1,006	-1,118	-533	-555	-1,215	-3,438	-3,547	-3,293
CEQA Modified Flow Alternative	-3,008	-2,634	-2,278	-2,299	-1,007	-1,118	-533	-555	-1,142	-3,478	-3,573	-3,291
Difference	-12.3	-1.1	5.0	-5.3	-0.6	-0.2	0.0	-0.1	72.3	-40.5	-25.7	2.1
Percent Difference[3]	0.4	0.0	-0.2	0.2	0.1	0.0	0.0	0.0	-6.0	1.2	0.7	-0.1
Water Year Types[1]												
Wet												
CEQA No Project Alternative	-2,593	-2,731	-1,464	-1,177	139	428	308	-241	-611	-3,500	-4,566	-4,063
CEQA Modified Flow Alternative	-2,592	-2,730	-1,464	-1,177	139	428	308	-241	-612	-3,654	-4,627	-4,064
Difference	1.3	0.4	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-153.5	-61.3	-0.8
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1.3	0.0
Above Normal												
CEQA No Project Alternative	-2,524	-2,352	-3,584	-2,651	-281	-460	-194	-390	-1,597	-4,427	-4,544	-4,396
CEQA Modified Flow Alternative	-2,573	-2,360	-3,590	-2,651	-281	-460	-194	-390	-1,597	-4,504	-4,567	-4,397
Difference	-48.8	-7.1	-5.6	-0.1	0.0	0.0	0.0	0.0	0.0	-76.8	-23.4	-1.4
Percent Difference	1.9	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.5	0.0
Below Normal												
CEQA No Project Alternative	-4,350	-2,622	-1,783	-3,560	-1,807	-1,365	-1,489	-1,357	-2,519	-4,843	-4,692	-3,397
CEQA Modified Flow Alternative	-4,351	-2,623	-1,783	-3,560	-1,807	-1,365	-1,489	-1,357	-2,519	-4,866	-4,679	-3,433
Difference	-1.3	-1.4	0.0	-0.1	0.0	-0.3	-0.2	0.0	0.0	-23.0	13.0	-35.3
Percent Difference	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-0.3	1.0
Dry												
CEQA No Project Alternative	-3,476	-2,793	-2,498	-3,150	-2,158	-2,703	-1,432	-799	-1,708	-4,139	-3,958	-3,644
CEQA Modified Flow Alternative	-3,509	-2,793	-2,498	-3,151	-2,160	-2,703	-1,432	-800	-1,604	-4,094	-3,990	-3,636
Difference	-33.1	-0.1	-0.1	-0.3	-2.3	0.3	0.3	-0.2	104.1	45.0	-32.8	8.2
Percent Difference	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	-6.1	-1.1	0.8	-0.2
Critical												
CEQA No Project Alternative	-2,931	-2,522	-2,511	-2,329	-1,359	-1,611	-600	-578	-1,009	-2,137	-1,572	-1,781
CEQA Modified Flow Alternative	-2,927	-2,522	-2,492	-2,347	-1,359	-1,612	-600	-578	-847	-2,122	-1,565	-1,772
Difference	3.3	-0.8	19.3	-17.7	-0.3	-0.7	0.0	-0.1	162.5	15.1	6.9	8.9
Percent Difference	-0.1	0.0	-0.8	0.8	0.0	0.0	0.0	0.0	-16.1	-0.7	-0.4	-0.5

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Old River at Bacon Island Flow

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4419.9	-4419.9	0.0	0.0
1976	C	-4625.7	-4625.6	0.0	0.0
1977	C	-2527.8	-2527.3	0.5	0.0
1978	AN	-1654.2	-1664.5	-10.3	0.6
1979	BN	-4349.8	-4351.1	-1.3	0.0
1980	AN	-3394.3	-3481.5	-87.3	2.6
1981	D	-4181.3	-4181.9	-0.6	0.0
1982	W	-3689.5	-3689.5	0.0	0.0
1983	W	-1674.1	-1674.0	0.1	0.0
1984	W	693.4	693.4	0.0	0.0
1985	D	-3881.7	-3881.7	0.1	0.0
1986	W	-3877.3	-3871.1	6.2	-0.2
1987	D	-4078.6	-4211.2	-132.6	3.3
1988	C	-2103.1	-2102.9	0.2	0.0
1989	D	-1762.3	-1761.5	0.8	0.0
1990	C	-3706.6	-3690.4	16.1	-0.4
1991	C	-1689.5	-1689.9	-0.5	0.0
	Mean:	-2995.4	-3007.7	-12.3	0.3
	Median:	-3689.5	-3689.5	0.0	0.0
	Min:	-4625.7	-4625.6	-132.6	-0.4
	Max:	693.4	693.4	16.1	3.3

Old River at Bacon Island Flow

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4413.8	-4414.4	-0.6	0.0
1976	C	-4624.0	-4624.3	-0.3	0.0
1977	C	-2560.4	-2560.4	0.0	0.0
1978	AN	-903.2	-912.8	-9.5	1.1
1979	BN	-2622.0	-2623.3	-1.4	0.1
1980	AN	-3801.7	-3806.3	-4.6	0.1
1981	D	-2507.1	-2507.7	-0.6	0.0
1982	W	-4549.7	-4549.8	-0.1	0.0
1983	W	-2676.0	-2676.3	-0.3	0.0
1984	W	1252.3	1252.3	0.0	0.0
1985	D	-4480.3	-4481.1	-0.8	0.0
1986	W	-3266.9	-3263.9	2.9	-0.1
1987	D	-2679.7	-2682.0	-2.3	0.1
1988	C	-2487.6	-2491.7	-4.1	0.2
1989	D	-1505.9	-1502.7	3.2	-0.2
1990	C	-2472.4	-2472.2	0.2	0.0
1991	C	-463.2	-463.2	0.0	0.0
	Mean:	-2633.0	-2634.1	-1.1	0.1
	Median:	-2622.0	-2623.3	-0.3	0.0
	Min:	-4624.0	-4624.3	-9.5	-0.2
	Max:	1252.3	1252.3	3.2	1.1

Old River at Bacon Island Flow

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3748.0	-3748.0	0.1	0.0
1976	C	-3859.8	-3860.1	-0.3	0.0
1977	C	-1232.2	-1232.2	0.0	0.0
1978	AN	-3420.9	-3431.1	-10.2	0.3
1979	BN	-1783.1	-1783.1	0.0	0.0
1980	AN	-3747.0	-3748.0	-1.1	0.0
1981	D	-2472.3	-2472.2	0.0	0.0
1982	W	-3727.2	-3726.7	0.5	0.0
1983	W	110.8	110.7	-0.1	-0.1
1984	W	3762.2	3762.2	0.0	0.0
1985	D	-3642.3	-3642.9	-0.5	0.0
1986	W	-3715.7	-3716.4	-0.7	0.0
1987	D	-1855.0	-1855.0	0.0	0.0
1988	C	-3727.1	-3723.5	3.6	-0.1
1989	D	-2023.0	-2023.0	0.0	0.0
1990	C	-3382.6	-3293.6	89.1	-2.6
1991	C	-354.4	-350.3	4.2	-1.2
	Mean:	-2283.4	-2278.4	5.0	-0.2
	Median:	-3382.6	-3293.6	0.0	0.0
	Min:	-3859.8	-3860.1	-10.2	-2.6
	Max:	3762.2	3762.2	89.1	0.3

Old River at Bacon Island Flow

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3909.4	-3910.4	-1.0	0.0
1976	C	-3227.0	-3227.4	-0.4	0.0
1977	C	-687.5	-687.5	0.0	0.0
1978	AN	-3318.2	-3318.2	0.1	0.0
1979	BN	-3560.4	-3560.4	-0.1	0.0
1980	AN	-1983.2	-1983.5	-0.3	0.0
1981	D	-3694.1	-3694.9	-0.8	0.0
1982	W	-2916.3	-2916.2	0.1	0.0
1983	W	3492.2	3492.2	0.0	0.0
1984	W	1190.3	1190.3	0.0	0.0
1985	D	-3542.8	-3543.2	-0.4	0.0
1986	W	-3740.4	-3740.1	0.4	0.0
1987	D	-3187.9	-3187.9	0.0	0.0
1988	C	-3832.8	-3832.7	0.0	0.0
1989	D	-2177.1	-2177.1	0.0	0.0
1990	C	-3741.6	-3829.9	-88.3	2.4
1991	C	-158.1	-157.9	0.2	-0.1
	Mean:	-2293.8	-2299.1	-5.3	0.1
	Median:	-3227.0	-3227.4	0.0	0.0
	Min:	-3909.4	-3910.4	-88.3	-0.1
	Max:	3492.2	3492.2	0.4	2.4

Old River at Bacon Island Flow

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-2915.4	-2915.7	-0.3	0.0
1976	C	-2392.1	-2392.2	-0.1	0.0
1977	C	-96.5	-96.5	0.0	0.0
1978	AN	-1223.3	-1223.2	0.1	0.0
1979	BN	-1807.4	-1807.4	0.0	0.0
1980	AN	660.7	660.7	-0.1	0.0
1981	D	-3477.0	-3477.0	-0.1	0.0
1982	W	-1704.7	-1704.7	0.0	0.0
1983	W	6862.4	6862.8	0.3	0.0
1984	W	-687.1	-687.1	0.0	0.0
1985	D	-2662.1	-2673.3	-11.2	0.4
1986	W	-860.7	-860.7	0.1	0.0
1987	D	-2168.1	-2168.1	0.0	0.0
1988	C	-1740.4	-1740.2	0.1	0.0
1989	D	-325.7	-323.3	2.3	-0.7
1990	C	-2486.7	-2488.4	-1.8	0.1
1991	C	-79.2	-79.2	0.0	0.0
	Mean:	-1006.1	-1006.7	-0.6	0.0
	Median:	-1704.7	-1704.7	0.0	0.0
	Min:	-3477.0	-3477.0	-11.2	-0.7
	Max:	6862.4	6862.8	2.3	0.4

Old River at Bacon Island Flow

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-2771.5	-2771.6	-0.1	0.0
1976	C	-2302.1	-2302.0	0.0	0.0
1977	C	-96.5	-96.5	0.0	0.0
1978	AN	-649.0	-649.0	0.0	0.0
1979	BN	-1365.0	-1365.3	-0.3	0.0
1980	AN	-271.2	-271.2	0.0	0.0
1981	D	-3044.5	-3044.8	-0.3	0.0
1982	W	-1324.0	-1324.0	0.0	0.0
1983	W	8147.3	8147.2	-0.1	0.0
1984	W	-3029.4	-3029.4	0.0	0.0
1985	D	-1707.8	-1707.6	0.1	0.0
1986	W	1119.7	1119.7	0.0	0.0
1987	D	-2000.9	-2000.9	0.0	0.0
1988	C	-118.8	-117.7	1.2	-1.0
1989	D	-4059.5	-4058.2	1.4	0.0
1990	C	-1516.2	-1520.8	-4.6	0.3
1991	C	-4020.5	-4020.5	0.0	0.0
	Mean:	-1118.2	-1118.4	-0.2	0.0
	Median:	-1516.2	-1520.8	0.0	0.0
	Min:	-4059.5	-4058.2	-4.6	-1.0
	Max:	8147.3	8147.2	1.4	0.3

Old River at Bacon Island Flow

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-1805.5	-1805.5	0.0	0.0
1976	C	-901.5	-901.6	0.0	0.0
1977	C	-338.3	-338.3	0.0	0.0
1978	AN	708.2	708.3	0.0	0.0
1979	BN	-1489.2	-1489.4	-0.2	0.0
1980	AN	-1095.9	-1095.9	0.0	0.0
1981	D	-1404.8	-1404.9	-0.1	0.0
1982	W	2618.6	2618.6	0.0	0.0
1983	W	3017.9	3017.9	0.0	0.0
1984	W	-1769.1	-1769.1	0.0	0.0
1985	D	-1209.6	-1208.7	0.8	-0.1
1986	W	-521.2	-521.2	0.0	0.0
1987	D	-1297.1	-1297.0	0.1	0.0
1988	C	-862.1	-862.2	0.0	0.0
1989	D	-1817.9	-1817.6	0.3	0.0
1990	C	-296.3	-296.3	0.0	0.0
1991	C	-599.2	-599.3	0.0	0.0
	Mean:	-533.1	-533.1	0.1	0.0
	Median:	-901.5	-901.6	0.0	0.0
	Min:	-1817.9	-1817.6	-0.2	-0.1
	Max:	3017.9	3017.9	0.8	0.0

Old River at Bacon Island Flow

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-1338.4	-1338.4	0.0	0.0
1976	C	-783.7	-783.8	-0.1	0.0
1977	C	-421.0	-421.0	0.0	0.0
1978	AN	-154.2	-154.2	0.0	0.0
1979	BN	-1357.4	-1357.4	0.0	0.0
1980	AN	-626.7	-626.7	0.0	0.0
1981	D	-1041.7	-1042.1	-0.4	0.0
1982	W	463.3	463.3	0.0	0.0
1983	W	2031.6	2031.6	0.0	0.0
1984	W	-1419.8	-1419.8	0.0	0.0
1985	D	-789.4	-789.3	0.0	0.0
1986	W	-942.1	-942.1	0.0	0.0
1987	D	-592.7	-592.9	-0.2	0.0
1988	C	-544.2	-544.2	0.0	0.0
1989	D	-774.0	-774.0	0.0	0.0
1990	C	-462.6	-462.8	-0.2	0.0
1991	C	-678.6	-678.8	-0.2	0.0
	Mean:	-554.8	-554.9	-0.1	0.0
	Median:	-678.6	-678.8	0.0	0.0
	Min:	-1419.8	-1419.8	-0.4	0.0
	Max:	2031.6	2031.6	0.0	0.0

Old River at Bacon Island Flow

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3384.9	-3384.9	0.0	0.0
1976	C	-1688.7	-1593.1	95.7	-5.7
1977	C	-773.8	-593.3	180.6	-23.3
1978	AN	-1047.0	-1047.0	0.0	0.0
1979	BN	-2518.7	-2518.7	0.0	0.0
1980	AN	-2147.8	-2147.8	0.0	0.0
1981	D	-2232.6	-2092.0	140.7	-6.3
1982	W	-1598.7	-1598.7	0.0	0.0
1983	W	5893.2	5893.2	0.0	0.0
1984	W	-2240.6	-2240.6	0.0	0.0
1985	D	-2217.3	-2207.7	9.6	-0.4
1986	W	-1726.4	-1726.5	0.0	0.0
1987	D	-1096.3	-830.1	266.2	-24.3
1988	C	-687.7	-524.7	163.0	-23.7
1989	D	-1284.8	-1284.8	0.0	0.0
1990	C	-794.9	-603.6	191.3	-24.1
1991	C	-1101.7	-919.6	182.1	-16.5
	Mean:	-1214.6	-1142.3	72.3	-7.3
	Median:	-1598.7	-1593.1	0.0	0.0
	Min:	-3384.9	-3384.9	0.0	-24.3
	Max:	5893.2	5893.2	266.2	0.0

Old River at Bacon Island Flow

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4667.2	-4857.3	-190.1	4.1
1976	C	-2642.6	-2587.2	55.5	-2.1
1977	C	-2353.6	-2291.7	62.0	-2.6
1978	AN	-4600.3	-4754.7	-154.5	3.4
1979	BN	-4842.6	-4865.6	-23.0	0.5
1980	AN	-4254.6	-4253.8	0.8	0.0
1981	D	-4448.6	-4420.4	28.2	-0.6
1982	W	-4337.8	-4490.6	-152.8	3.5
1983	W	-986.9	-986.9	0.0	0.0
1984	W	-3331.8	-3546.9	-215.1	6.5
1985	D	-4929.8	-4929.6	0.2	0.0
1986	W	-4178.2	-4387.8	-209.6	5.0
1987	D	-3073.3	-2857.0	216.3	-7.0
1988	C	-2113.5	-2017.6	95.9	-4.5
1989	D	-4105.8	-4170.5	-64.7	1.6
1990	C	-1751.1	-1837.0	-85.9	4.9
1991	C	-1824.8	-1876.8	-52.0	2.8
	Mean:	-3437.8	-3478.3	-40.5	0.9
	Median:	-4105.8	-4170.5	-23.0	0.5
	Min:	-4929.8	-4929.6	-215.1	-7.0
	Max:	-986.9	-986.9	216.3	6.5

Old River at Bacon Island Flow

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4798.5	-4825.6	-27.1	0.6
1976	C	-2394.5	-2342.6	51.9	-2.2
1977	C	-1399.5	-1341.7	57.7	-4.1
1978	AN	-4550.0	-4436.0	114.0	-2.5
1979	BN	-4691.7	-4678.7	13.0	-0.3
1980	AN	-4538.1	-4698.9	-160.8	3.5
1981	D	-3910.6	-3925.1	-14.5	0.4
1982	W	-4297.9	-4517.6	-219.7	5.1
1983	W	-4396.6	-4396.6	0.0	0.0
1984	W	-4651.9	-4680.1	-28.2	0.6
1985	D	-4791.6	-4791.6	0.0	0.0
1986	W	-4686.0	-4717.3	-31.4	0.7
1987	D	-3447.6	-3479.2	-31.6	0.9
1988	C	-774.4	-693.6	80.7	-10.4
1989	D	-3680.9	-3766.1	-85.2	2.3
1990	C	-1141.6	-1235.2	-93.6	8.2
1991	C	-2148.3	-2210.7	-62.4	2.9
	Mean:	-3547.0	-3572.7	-25.7	0.3
	Median:	-4297.9	-4396.6	-27.1	0.6
	Min:	-4798.5	-4825.6	-219.7	-10.4
	Max:	-774.4	-693.6	114.0	8.2

Old River at Bacon Island Flow

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4662.2	-4662.3	-0.2	0.0
1976	C	-2621.0	-2578.1	43.0	-1.6
1977	C	-1503.4	-1479.1	24.4	-1.6
1978	AN	-4263.2	-4263.3	-0.2	0.0
1979	BN	-3397.4	-3432.8	-35.3	1.0
1980	AN	-4528.7	-4531.3	-2.6	0.1
1981	D	-3891.7	-3891.8	-0.2	0.0
1982	W	-4029.6	-4031.8	-2.2	0.1
1983	W	-3099.2	-3099.2	0.0	0.0
1984	W	-4179.4	-4180.9	-1.4	0.0
1985	D	-4128.6	-4117.7	10.9	-0.3
1986	W	-4343.8	-4344.1	-0.3	0.0
1987	D	-3173.9	-3151.8	22.1	-0.7
1988	C	-1545.0	-1495.2	49.8	-3.2
1989	D	-3381.6	-3381.7	-0.1	0.0
1990	C	-1581.6	-1621.6	-40.0	2.5
1991	C	-1653.9	-1686.5	-32.6	2.0
	Mean:	-3293.2	-3291.1	2.1	-0.1
	Median:	-3397.4	-3432.8	-0.2	0.0
	Min:	-4662.2	-4662.3	-40.0	-3.2
	Max:	-1503.4	-1479.1	49.8	2.5

Long-term and Water Year Type Average Flow at the Middle River at Middle River under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Flow (cfs)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	-2,982	-2,770	-2,537	-2,553	-1,739	-1,771	-1,345	-1,408	-1,822	-3,315	-3,367	-3,181
CEQA Modified Flow Alternative	-2,990	-2,771	-2,533	-2,557	-1,740	-1,771	-1,344	-1,407	-1,775	-3,344	-3,386	-3,180
Difference	-8.1	-0.4	3.5	-3.1	-0.4	-0.2	0.1	0.3	46.8	-29.1	-18.6	1.3
Percent Difference[3]	0.3	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	-2.6	0.9	0.6	0.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	-2,744	-2,905	-2,062	-1,863	-1,046	-819	-834	-1,235	-1,481	-3,415	-4,110	-3,775
CEQA Modified Flow Alternative	-2,743	-2,904	-2,062	-1,863	-1,046	-819	-834	-1,235	-1,481	-3,521	-4,153	-3,775
Difference	0.8	0.5	-0.2	0.2	0.0	0.0	0.0	0.0	0.0	-106.2	-42.7	-0.6
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.0	0.0
Above Normal												
CEQA No Project Alternative	-2,644	-2,535	-3,332	-2,917	-1,439	-1,437	-1,168	-1,325	-2,044	-3,940	-4,009	-3,834
CEQA Modified Flow Alternative	-2,674	-2,539	-3,334	-2,917	-1,439	-1,437	-1,168	-1,325	-2,044	-3,994	-4,028	-3,835
Difference	-30.6	-4.3	-2.5	-0.1	-0.1	0.0	0.0	0.0	0.0	-54.1	-18.3	-0.9
Percent Difference	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.5	0.0
Below Normal												
CEQA No Project Alternative	-3,849	-2,722	-2,164	-3,408	-2,265	-1,983	-1,960	-1,914	-2,621	-4,130	-4,026	-3,165
CEQA Modified Flow Alternative	-3,850	-2,722	-2,164	-3,408	-2,265	-1,982	-1,960	-1,914	-2,621	-4,147	-4,019	-3,189
Difference	-0.9	-0.8	0.0	0.1	0.2	0.8	0.1	0.0	0.0	-17.0	6.3	-23.7
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.2	0.7
Dry												
CEQA No Project Alternative	-3,293	-2,846	-2,664	-3,044	-2,403	-2,757	-1,898	-1,569	-2,142	-3,787	-3,614	-3,373
CEQA Modified Flow Alternative	-3,316	-2,845	-2,664	-3,044	-2,405	-2,758	-1,898	-1,568	-2,075	-3,758	-3,637	-3,367
Difference	-22.8	0.4	0.2	0.4	-1.4	-0.5	0.2	0.7	67.2	28.7	-22.7	5.6
Percent Difference	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	-3.1	-0.8	0.6	-0.2
Critical												
CEQA No Project Alternative	-2,934	-2,680	-2,667	-2,535	-1,917	-2,026	-1,360	-1,383	-1,658	-2,423	-2,039	-2,177
CEQA Modified Flow Alternative	-2,932	-2,680	-2,654	-2,546	-1,917	-2,026	-1,360	-1,382	-1,553	-2,414	-2,035	-2,171
Difference	2.2	-0.4	13.0	-11.1	-0.2	-0.4	0.1	0.6	105.3	9.3	3.8	5.8
Percent Difference	-0.1	0.0	-0.5	0.4	0.0	0.0	0.0	0.0	-6.3	-0.4	-0.2	-0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Middle River at Middle River Flow

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3894.3	-3894.3	0.0	0.0
1976	C	-3989.3	-3989.3	0.0	0.0
1977	C	-2678.2	-2677.9	0.3	0.0
1978	AN	-2088.9	-2095.2	-6.3	0.3
1979	BN	-3848.8	-3849.6	-0.9	0.0
1980	AN	-3198.6	-3253.6	-54.9	1.7
1981	D	-3726.8	-3727.3	-0.4	0.0
1982	W	-3374.8	-3374.8	0.0	0.0
1983	W	-2189.3	-2189.3	0.0	0.0
1984	W	-742.1	-742.1	0.0	0.0
1985	D	-3540.8	-3540.8	0.0	0.0
1986	W	-3517.0	-3512.8	4.2	-0.1
1987	D	-3734.3	-3825.5	-91.3	2.4
1988	C	-2416.4	-2416.3	0.1	0.0
1989	D	-2171.8	-2171.4	0.4	0.0
1990	C	-3436.7	-3425.7	10.9	-0.3
1991	C	-2151.6	-2151.9	-0.3	0.0
	Mean:	-2982.3	-2990.5	-8.1	0.2
	Median:	-3374.8	-3374.8	0.0	0.0
	Min:	-3989.3	-3989.3	-91.3	-0.3
	Max:	-742.1	-742.1	10.9	2.4

Middle River at Middle River Flow

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3880.3	-3880.7	-0.4	0.0
1976	C	-3963.1	-3962.6	0.5	0.0
1977	C	-2702.1	-2702.1	0.0	0.0
1978	AN	-1618.8	-1624.5	-5.7	0.4
1979	BN	-2721.6	-2722.4	-0.8	0.0
1980	AN	-3450.2	-3453.2	-2.9	0.1
1981	D	-2580.1	-2580.5	-0.4	0.0
1982	W	-4061.8	-4061.7	0.0	0.0
1983	W	-3012.7	-3012.0	0.7	0.0
1984	W	-436.6	-436.6	0.0	0.0
1985	D	-4064.6	-4063.1	1.5	0.0
1986	W	-3131.2	-3129.3	2.0	-0.1
1987	D	-2784.1	-2785.4	-1.3	0.0
1988	C	-2688.1	-2690.6	-2.5	0.1
1989	D	-1954.8	-1952.9	1.9	-0.1
1990	C	-2659.7	-2659.6	0.1	0.0
1991	C	-1386.5	-1386.5	0.0	0.0
	Mean:	-2770.4	-2770.8	-0.4	0.0
	Median:	-2721.6	-2722.4	0.0	0.0
	Min:	-4064.6	-4063.1	-5.7	-0.1
	Max:	-436.6	-436.6	2.0	0.4

Middle River at Middle River Flow

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3389.0	-3389.0	0.0	0.0
1976	C	-3383.6	-3383.3	0.4	0.0
1977	C	-1877.1	-1877.1	0.0	0.0
1978	AN	-3195.3	-3201.6	-6.3	0.2
1979	BN	-2164.5	-2164.5	0.0	0.0
1980	AN	-3468.1	-3466.7	1.4	0.0
1981	D	-2613.3	-2613.3	0.0	0.0
1982	W	-3560.7	-3561.4	-0.7	0.0
1983	W	-1192.4	-1192.5	-0.1	0.0
1984	W	1253.1	1253.1	0.0	0.0
1985	D	-3452.3	-3451.7	0.5	0.0
1986	W	-3421.7	-3422.2	-0.5	0.0
1987	D	-2328.3	-2328.3	0.0	0.0
1988	C	-3504.0	-3501.6	2.4	-0.1
1989	D	-2261.3	-2261.3	0.0	0.0
1990	C	-3256.7	-3196.7	60.0	-1.8
1991	C	-1311.4	-1308.9	2.5	-0.2
	Mean:	-2536.9	-2533.4	3.5	-0.1
	Median:	-3195.3	-3196.7	0.0	0.0
	Min:	-3560.7	-3561.4	-6.3	-1.8
	Max:	1253.1	1253.1	60.0	0.2

Middle River at Middle River Flow

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3415.9	-3414.6	1.3	0.0
1976	C	-3005.3	-3004.7	0.5	0.0
1977	C	-1505.7	-1505.7	0.0	0.0
1978	AN	-3324.7	-3325.1	-0.4	0.0
1979	BN	-3408.1	-3408.0	0.1	0.0
1980	AN	-2509.6	-2509.3	0.3	0.0
1981	D	-3472.1	-3471.0	1.1	0.0
1982	W	-3010.4	-3010.3	0.1	0.0
1983	W	1009.0	1009.0	0.0	0.0
1984	W	-380.6	-380.6	0.0	0.0
1985	D	-3335.9	-3335.5	0.5	0.0
1986	W	-3516.2	-3516.8	-0.6	0.0
1987	D	-3056.0	-3056.0	0.0	0.0
1988	C	-3537.0	-3536.9	0.0	0.0
1989	D	-2311.6	-2311.6	0.0	0.0
1990	C	-3456.6	-3512.7	-56.1	1.6
1991	C	-1171.6	-1171.5	0.1	0.0
	Mean:	-2553.4	-2556.5	-3.1	0.1
	Median:	-3056.0	-3056.0	0.0	0.0
	Min:	-3537.0	-3536.9	-56.1	0.0
	Max:	1009.0	1009.0	1.3	1.6

Middle River at Middle River Flow

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-2942.0	-2941.8	0.2	0.0
1976	C	-2548.8	-2548.8	0.0	0.0
1977	C	-1071.2	-1071.2	0.0	0.0
1978	AN	-2104.0	-2104.3	-0.2	0.0
1979	BN	-2265.2	-2265.0	0.2	0.0
1980	AN	-773.4	-773.4	0.0	0.0
1981	D	-3246.3	-3246.3	0.0	0.0
1982	W	-2229.9	-2229.9	0.0	0.0
1983	W	3295.5	3295.5	0.0	0.0
1984	W	-1530.6	-1530.6	0.0	0.0
1985	D	-2693.8	-2700.9	-7.1	0.3
1986	W	-1824.6	-1824.6	0.0	0.0
1987	D	-2449.2	-2449.2	0.0	0.0
1988	C	-2220.5	-2220.4	0.1	0.0
1989	D	-1223.4	-1222.0	1.4	-0.1
1990	C	-2601.5	-2602.4	-1.0	0.0
1991	C	-1141.3	-1141.3	0.0	0.0
	Mean:	-1739.4	-1739.8	-0.4	0.0
	Median:	-2220.5	-2220.4	0.0	0.0
	Min:	-3246.3	-3246.3	-7.1	-0.1
	Max:	3295.5	3295.5	1.4	0.3

Middle River at Middle River Flow

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-2860.3	-2860.3	0.0	0.0
1976	C	-2397.5	-2397.5	0.0	0.0
1977	C	-999.6	-999.6	0.0	0.0
1978	AN	-1601.0	-1601.0	0.0	0.0
1979	BN	-1982.8	-1982.0	0.8	0.0
1980	AN	-1272.6	-1272.6	0.0	0.0
1981	D	-3014.0	-3013.5	0.4	0.0
1982	W	-2022.1	-2022.1	0.0	0.0
1983	W	4142.0	4142.0	0.0	0.0
1984	W	-2978.8	-2978.8	0.0	0.0
1985	D	-2049.7	-2050.2	-0.6	0.0
1986	W	-375.2	-375.2	0.0	0.0
1987	D	-2311.3	-2311.3	0.0	0.0
1988	C	-1131.9	-1131.2	0.7	-0.1
1989	D	-3654.0	-3655.9	-1.9	0.1
1990	C	-1950.8	-1953.5	-2.7	0.1
1991	C	-3648.2	-3648.2	0.0	0.0
	Mean:	-1771.0	-1771.2	-0.2	0.0
	Median:	-2022.1	-2022.1	0.0	0.0
	Min:	-3654.0	-3655.9	-2.7	-0.1
	Max:	4142.0	4142.0	0.8	0.1

Middle River at Middle River Flow

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-2165.5	-2165.5	0.0	0.0
1976	C	-1539.2	-1539.1	0.1	0.0
1977	C	-1141.2	-1141.2	0.0	0.0
1978	AN	-629.4	-629.4	-0.1	0.0
1979	BN	-1959.7	-1959.6	0.1	0.0
1980	AN	-1706.7	-1706.7	0.0	0.0
1981	D	-1893.7	-1893.5	0.3	0.0
1982	W	596.2	596.2	0.0	0.0
1983	W	832.6	832.6	0.0	0.0
1984	W	-2084.3	-2084.3	0.0	0.0
1985	D	-1748.8	-1748.3	0.5	0.0
1986	W	-1347.8	-1347.8	0.0	0.0
1987	D	-1787.6	-1787.6	0.0	0.0
1988	C	-1556.3	-1556.2	0.1	0.0
1989	D	-2161.1	-2161.0	0.1	0.0
1990	C	-1232.7	-1232.8	0.0	0.0
1991	C	-1332.6	-1332.3	0.3	0.0
	Mean:	-1344.6	-1344.5	0.1	0.0
	Median:	-1556.3	-1556.2	0.0	0.0
	Min:	-2165.5	-2165.5	-0.1	0.0
	Max:	832.6	832.6	0.5	0.0

Middle River at Middle River Flow

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-1908.7	-1908.7	0.0	0.0
1976	C	-1525.4	-1525.0	0.3	0.0
1977	C	-1250.4	-1250.3	0.1	0.0
1978	AN	-1147.6	-1147.6	0.0	0.0
1979	BN	-1913.6	-1913.6	0.0	0.0
1980	AN	-1502.3	-1502.3	0.0	0.0
1981	D	-1724.5	-1723.0	1.5	-0.1
1982	W	-844.7	-844.7	0.0	0.0
1983	W	160.8	160.8	0.0	0.0
1984	W	-1952.7	-1952.7	0.0	0.0
1985	D	-1526.6	-1526.6	0.0	0.0
1986	W	-1630.3	-1630.3	0.0	0.0
1987	D	-1488.4	-1487.1	1.3	-0.1
1988	C	-1358.3	-1358.3	0.0	0.0
1989	D	-1537.0	-1537.0	0.0	0.0
1990	C	-1360.8	-1359.3	1.5	-0.1
1991	C	-1419.2	-1418.0	1.2	-0.1
	Mean:	-1407.6	-1407.3	0.3	0.0
	Median:	-1502.3	-1502.3	0.0	0.0
	Min:	-1952.7	-1952.7	0.0	-0.1
	Max:	160.8	160.8	1.5	0.0

Middle River at Middle River Flow

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-3202.8	-3202.8	0.0	0.0
1976	C	-2095.3	-2033.6	61.7	-2.9
1977	C	-1477.9	-1362.1	115.8	-7.8
1978	AN	-1658.9	-1658.9	0.0	0.0
1979	BN	-2620.6	-2620.6	0.0	0.0
1980	AN	-2428.9	-2428.9	0.0	0.0
1981	D	-2442.6	-2353.1	89.6	-3.7
1982	W	-2152.1	-2152.1	0.0	0.0
1983	W	2636.4	2636.4	0.0	0.0
1984	W	-2525.4	-2525.4	0.0	0.0
1985	D	-2489.0	-2482.9	6.1	-0.2
1986	W	-2162.8	-2162.9	0.0	0.0
1987	D	-1751.9	-1578.9	173.0	-9.9
1988	C	-1427.2	-1322.8	104.4	-7.3
1989	D	-1884.4	-1884.4	0.0	0.0
1990	C	-1542.8	-1416.8	126.0	-8.2
1991	C	-1748.1	-1629.8	118.4	-6.8
	Mean:	-1822.0	-1775.3	46.8	-2.8
	Median:	-2095.3	-2033.6	0.0	0.0
	Min:	-3202.8	-3202.8	0.0	-9.9
	Max:	2636.4	2636.4	173.0	0.0

Middle River at Middle River Flow

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4032.9	-4162.0	-129.1	3.2
1976	C	-2800.7	-2764.5	36.1	-1.3
1977	C	-2526.0	-2486.3	39.6	-1.6
1978	AN	-4084.6	-4191.0	-106.4	2.6
1979	BN	-4129.9	-4146.9	-17.0	0.4
1980	AN	-3796.0	-3797.7	-1.8	0.0
1981	D	-3980.9	-3961.7	19.2	-0.5
1982	W	-3947.2	-4053.4	-106.2	2.7
1983	W	-1882.1	-1882.1	0.0	0.0
1984	W	-3352.6	-3498.1	-145.5	4.3
1985	D	-4337.9	-4337.8	0.1	0.0
1986	W	-3858.1	-4008.3	-150.2	3.9
1987	D	-3084.0	-2942.6	141.3	-4.6
1988	C	-2366.0	-2304.0	62.0	-2.6
1989	D	-3744.3	-3790.2	-45.9	1.2
1990	C	-2196.9	-2253.4	-56.6	2.6
1991	C	-2227.9	-2262.5	-34.5	1.5
	Mean:	-3314.6	-3343.7	-29.1	0.7
	Median:	-3744.3	-3790.2	-17.0	0.4
	Min:	-4337.9	-4337.8	-150.2	-4.6
	Max:	-1882.1	-1882.1	141.3	4.3

Middle River at Middle River Flow

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4108.6	-4129.1	-20.5	0.5
1976	C	-2585.3	-2551.6	33.7	-1.3
1977	C	-1925.6	-1888.9	36.7	-1.9
1978	AN	-3986.1	-3914.4	71.6	-1.8
1979	BN	-4025.6	-4019.3	6.3	-0.2
1980	AN	-4032.8	-4140.9	-108.2	2.7
1981	D	-3514.9	-3524.5	-9.6	0.3
1982	W	-3904.1	-4055.2	-151.1	3.9
1983	W	-4133.6	-4133.6	0.0	0.0
1984	W	-4205.4	-4225.0	-19.6	0.5
1985	D	-4153.4	-4153.4	0.0	0.0
1986	W	-4199.3	-4221.6	-22.3	0.5
1987	D	-3306.7	-3328.7	-22.0	0.7
1988	C	-1474.4	-1422.1	52.3	-3.5
1989	D	-3481.2	-3540.5	-59.2	1.7
1990	C	-1775.2	-1838.3	-63.1	3.6
1991	C	-2433.8	-2474.5	-40.8	1.7
	Mean:	-3367.4	-3386.0	-18.6	0.4
	Median:	-3904.1	-3914.4	-19.6	0.5
	Min:	-4205.4	-4225.0	-151.1	-3.5
	Max:	-1474.4	-1422.1	71.6	3.9

Middle River at Middle River Flow

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-4020.3	-4020.4	-0.1	0.0
1976	C	-2725.5	-2697.4	28.0	-1.0
1977	C	-1982.2	-1966.2	15.9	-0.8
1978	AN	-3716.9	-3717.0	-0.1	0.0
1979	BN	-3165.1	-3188.9	-23.7	0.7
1980	AN	-3951.5	-3953.2	-1.6	0.0
1981	D	-3451.9	-3452.0	-0.1	0.0
1982	W	-3779.3	-3780.9	-1.6	0.0
1983	W	-3291.6	-3291.6	0.0	0.0
1984	W	-3872.5	-3873.4	-1.0	0.0
1985	D	-3707.2	-3699.8	7.4	-0.2
1986	W	-3909.1	-3909.4	-0.2	0.0
1987	D	-3081.3	-3066.4	14.9	-0.5
1988	C	-1984.5	-1952.0	32.5	-1.6
1989	D	-3251.3	-3251.3	0.0	0.0
1990	C	-2069.4	-2095.8	-26.4	1.3
1991	C	-2122.1	-2143.3	-21.2	1.0
	Mean:	-3181.3	-3179.9	1.3	-0.1
	Median:	-3291.6	-3291.6	-0.1	0.0
	Min:	-4020.3	-4020.4	-26.4	-1.6
	Max:	-1982.2	-1952.0	32.5	1.3

Long-term and Water Year Type Average Flow at the Middle River at Mowry Bridge under CEQA No Project Alternative and CEQA Modified Flow Alternative Conditions

	Flow (cfs)											
Analysis Period	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Long-term												
Full Simulation Period[2]												
CEQA No Project Alternative	12.3	34.7	153.6	188.9	357.7	397.1	218.2	130.2	305.8	156.8	81.6	108.1
CEQA Modified Flow Alternative	12.3	34.7	153.6	188.9	357.7	397.1	218.2	130.2	305.8	157.0	81.7	108.1
Difference	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Percent Difference[3]	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Water Year Types[1]												
Wet												
CEQA No Project Alternative	179.3	145.0	432.9	461.9	784.4	1026.7	619.7	402.3	696.6	297.7	102.1	172.0
CEQA Modified Flow Alternative	179.3	145.0	432.9	461.9	784.3	1026.7	619.7	402.3	696.6	298.1	102.3	172.0
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0
Above Normal												
CEQA No Project Alternative	-53.8	-8.1	28.2	292.0	715.3	450.8	326.3	204.0	429.7	171.8	114.8	139.6
CEQA Modified Flow Alternative	-54.2	-8.2	28.2	292.0	715.3	450.8	326.3	204.0	429.7	172.0	115.0	139.6
Difference	-0.3	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0
Percent Difference	0.6	1.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal												
CEQA No Project Alternative	-63.5	-12.4	51.4	98.1	330.7	300.9	57.1	-23.0	122.5	114.0	103.7	100.6
CEQA Modified Flow Alternative	-63.5	-12.4	51.4	98.1	330.7	300.8	57.1	-23.0	122.5	114.1	103.6	100.6
Difference	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.0
Percent Difference	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Dry												
CEQA No Project Alternative	-59.2	-14.6	41.3	23.7	44.7	45.6	-6.8	-14.5	91.4	97.5	78.4	78.4
CEQA Modified Flow Alternative	-59.4	-14.5	41.3	23.7	44.7	45.6	-6.8	-14.5	91.4	97.4	78.5	78.4
Difference	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2	0.1	0.0
Percent Difference	0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	-0.2	0.1	0.0
Critical												
CEQA No Project Alternative	-55.8	-9.8	34.7	25.1	43.7	46.5	-14.3	-25.0	73.4	66.1	46.1	56.9
CEQA Modified Flow Alternative	-55.7	-9.8	34.9	24.9	43.6	46.5	-14.3	-25.0	73.4	66.0	46.0	56.9
Difference	0.0	0.0	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.1	0.5	-0.7	0.0	0.0	0.0	0.1	0.0	-0.1	-0.1	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

Middle River at Mowry Bridge Flow

October					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-66.4	-66.4	0.0	0.0
1976	C	-67.9	-67.9	0.0	0.0
1977	C	-55.8	-55.8	0.0	0.0
1978	AN	-41.6	-41.8	-0.2	0.5
1979	BN	-63.5	-63.5	0.0	0.0
1980	AN	-66.1	-66.6	-0.5	0.8
1981	D	-62.3	-62.3	0.0	0.0
1982	W	-67.2	-67.2	0.0	0.0
1983	W	538.5	538.5	0.0	0.0
1984	W	556.8	556.8	0.0	0.0
1985	D	-68.6	-68.6	0.0	0.0
1986	W	-65.5	-65.4	0.0	0.0
1987	D	-64.9	-65.6	-0.8	1.2
1988	C	-48.7	-48.7	0.0	0.0
1989	D	-41.2	-41.2	0.0	0.0
1990	C	-65.3	-65.2	0.1	-0.2
1991	C	-41.1	-41.1	0.0	0.0
	Mean:	12.3	12.3	-0.1	0.1
	Median:	-63.5	-63.5	0.0	0.0
	Min:	-68.6	-68.6	-0.8	-0.2
	Max:	556.8	556.8	0.1	1.2

Middle River at Mowry Bridge Flow

November					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-29.5	-29.5	0.0	0.0
1976	C	-30.5	-30.4	0.0	0.0
1977	C	-10.8	-10.8	0.0	0.0
1978	AN	8.6	8.5	-0.1	-1.2
1979	BN	-12.4	-12.4	0.0	0.0
1980	AN	-24.8	-24.8	0.0	0.0
1981	D	-6.5	-6.5	0.0	0.0
1982	W	-39.1	-39.1	0.0	0.0
1983	W	252.2	252.2	-0.1	0.0
1984	W	564.1	564.1	0.0	0.0
1985	D	-39.9	-39.9	0.1	-0.3
1986	W	-22.8	-22.8	0.0	0.0
1987	D	-12.7	-12.7	0.0	0.0
1988	C	-12.2	-12.2	-0.1	0.8
1989	D	1.0	1.0	0.0	0.0
1990	C	-10.4	-10.4	0.0	0.0
1991	C	14.9	14.9	0.0	0.0
	Mean:	34.7	34.7	0.0	0.0
	Median:	-12.2	-12.2	0.0	0.0
	Min:	-39.9	-39.9	-0.1	-1.2
	Max:	564.1	564.1	0.1	0.8

Middle River at Mowry Bridge Flow

December					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	35.1	35.1	0.0	0.0
1976	C	32.7	32.7	0.0	0.0
1977	C	54.9	54.9	0.0	0.0
1978	AN	25.4	25.3	-0.1	-0.4
1979	BN	51.4	51.4	0.0	0.0
1980	AN	31.1	31.1	0.0	0.0
1981	D	45.0	45.0	0.0	0.0
1982	W	26.0	26.0	0.0	0.0
1983	W	934.3	934.3	0.0	0.0
1984	W	1149.0	1149.0	0.0	0.0
1985	D	32.2	32.2	0.0	0.0
1986	W	19.9	19.9	0.0	0.0
1987	D	53.3	53.3	0.0	0.0
1988	C	16.4	16.4	0.0	0.0
1989	D	34.5	34.5	0.0	0.0
1990	C	20.0	20.9	0.9	4.5
1991	C	49.5	49.6	0.1	0.2
	Mean:	153.6	153.6	0.1	0.3
	Median:	34.5	34.5	0.0	0.0
	Min:	16.4	16.4	-0.1	-0.4
	Max:	1149.0	1149.0	0.9	4.5

Middle River at Mowry Bridge Flow

January					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	25.4	25.3	0.0	0.0
1976	C	26.5	26.4	0.0	0.0
1977	C	43.7	43.7	0.0	0.0
1978	AN	77.8	77.9	0.0	0.0
1979	BN	98.1	98.1	0.0	0.0
1980	AN	506.2	506.1	-0.1	0.0
1981	D	27.6	27.5	0.0	0.0
1982	W	216.8	216.8	0.0	0.0
1983	W	1363.2	1363.2	0.0	0.0
1984	W	677.0	677.0	0.0	0.0
1985	D	18.7	18.7	0.0	0.0
1986	W	27.0	27.0	0.0	0.0
1987	D	28.9	28.9	0.0	0.0
1988	C	3.6	3.6	0.0	0.0
1989	D	19.8	19.8	0.0	0.0
1990	C	8.8	8.0	-0.9	-10.2
1991	C	42.8	42.8	0.0	0.0
	Mean:	188.9	188.9	-0.1	-0.6
	Median:	28.9	28.9	0.0	0.0
	Min:	3.6	3.6	-0.9	-10.2
	Max:	1363.2	1363.2	0.0	0.0

Middle River at Mowry Bridge Flow

February					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	157.8	157.8	0.0	0.0
1976	C	44.9	44.9	0.0	0.0
1977	C	54.7	54.7	0.0	0.0
1978	AN	276.8	276.8	0.0	0.0
1979	BN	330.7	330.7	0.0	0.0
1980	AN	1153.8	1153.8	0.0	0.0
1981	D	46.4	46.4	0.0	0.0
1982	W	594.7	594.7	0.0	0.0
1983	W	2032.6	2032.5	-0.1	0.0
1984	W	361.8	361.8	0.0	0.0
1985	D	43.1	42.9	-0.1	-0.2
1986	W	774.8	774.8	0.0	0.0
1987	D	44.3	44.3	0.0	0.0
1988	C	37.1	37.1	0.0	0.0
1989	D	45.2	45.2	0.0	0.0
1990	C	28.1	28.1	0.0	0.0
1991	C	53.5	53.5	0.0	0.0
	Mean:	357.7	357.6	0.0	0.0
	Median:	54.7	54.7	0.0	0.0
	Min:	28.1	28.1	-0.1	-0.2
	Max:	2032.6	2032.5	0.0	0.0

Middle River at Mowry Bridge Flow

March					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	311.2	311.2	0.0	0.0
1976	C	50.6	50.6	0.0	0.0
1977	C	53.5	53.5	0.0	0.0
1978	AN	331.4	331.4	0.0	0.0
1979	BN	300.9	300.8	-0.1	0.0
1980	AN	570.2	570.2	0.0	0.0
1981	D	74.0	74.0	0.0	0.0
1982	W	683.2	683.2	0.0	0.0
1983	W	2651.8	2651.8	0.0	0.0
1984	W	171.1	171.1	0.0	0.0
1985	D	50.7	50.8	0.0	0.0
1986	W	1316.1	1316.1	0.0	0.0
1987	D	45.2	45.2	0.0	0.0
1988	C	59.2	59.2	0.0	0.0
1989	D	12.3	12.4	0.0	0.0
1990	C	42.8	42.7	-0.1	-0.2
1991	C	26.4	26.4	0.0	0.0
	Mean:	397.1	397.1	0.0	0.0
	Median:	74.0	74.0	0.0	0.0
	Min:	12.3	12.4	-0.1	-0.2
	Max:	2651.8	2651.8	0.0	0.0

Middle River at Mowry Bridge Flow

April					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	68.1	68.1	0.0	0.0
1976	C	-9.7	-9.7	0.0	0.0
1977	C	-8.7	-8.7	0.0	0.0
1978	AN	562.0	562.1	0.0	0.0
1979	BN	57.1	57.1	0.0	0.0
1980	AN	90.6	90.6	0.0	0.0
1981	D	10.7	10.7	0.0	0.0
1982	W	1403.3	1403.3	0.0	0.0
1983	W	1093.7	1093.7	0.0	0.0
1984	W	42.6	42.6	0.0	0.0
1985	D	1.3	1.3	0.0	0.0
1986	W	490.9	490.9	0.0	0.0
1987	D	-11.6	-11.6	0.0	0.0
1988	C	-25.2	-25.2	0.0	0.0
1989	D	-27.4	-27.4	0.0	0.0
1990	C	-10.2	-10.2	0.0	0.0
1991	C	-17.9	-17.9	0.0	0.0
	Mean:	218.2	218.2	0.0	0.0
	Median:	10.7	10.7	0.0	0.0
	Min:	-27.4	-27.4	0.0	0.0
	Max:	1403.3	1403.3	0.0	0.0

Middle River at Mowry Bridge Flow

May					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	-20.2	-20.2	0.0	0.0
1976	C	-3.2	-3.2	0.0	0.0
1977	C	-40.2	-40.2	0.0	0.0
1978	AN	428.2	428.2	0.0	0.0
1979	BN	-23.0	-23.0	0.0	0.0
1980	AN	-20.3	-20.3	0.0	0.0
1981	D	-22.3	-22.4	0.0	0.0
1982	W	765.9	765.9	0.0	0.0
1983	W	1034.0	1034.0	0.0	0.0
1984	W	-16.2	-16.2	0.0	0.0
1985	D	-16.2	-16.2	0.0	0.0
1986	W	247.7	247.7	0.0	0.0
1987	D	-4.6	-4.6	-0.1	2.2
1988	C	-24.7	-24.7	0.0	0.0
1989	D	-14.7	-14.7	0.0	0.0
1990	C	-35.2	-35.3	-0.1	0.3
1991	C	-21.7	-21.7	0.0	0.0
	Mean:	130.2	130.2	0.0	0.1
	Median:	-16.2	-16.2	0.0	0.0
	Min:	-40.2	-40.2	-0.1	0.0
	Max:	1034.0	1034.0	0.0	2.2

Middle River at Mowry Bridge Flow

June					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	230.5	230.5	0.0	0.0
1976	C	88.7	88.7	0.0	0.0
1977	C	70.1	70.1	0.1	0.1
1978	AN	587.6	587.6	0.0	0.0
1979	BN	122.5	122.5	0.0	0.0
1980	AN	271.8	271.8	0.0	0.0
1981	D	100.5	100.2	-0.2	-0.2
1982	W	507.5	507.5	0.0	0.0
1983	W	2283.0	2283.0	0.0	0.0
1984	W	142.4	142.4	0.0	0.0
1985	D	99.0	99.0	0.0	0.0
1986	W	319.7	319.7	0.0	0.0
1987	D	92.2	92.7	0.5	0.5
1988	C	69.8	69.7	-0.1	-0.1
1989	D	73.7	73.7	0.0	0.0
1990	C	72.6	72.6	0.0	0.0
1991	C	65.9	66.0	0.1	0.2
	Mean:	305.7	305.8	0.0	0.0
	Median:	100.5	100.2	0.0	0.0
	Min:	65.9	66.0	-0.2	-0.2
	Max:	2283.0	2283.0	0.5	0.5

Middle River at Mowry Bridge Flow

July					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	135.6	136.1	0.5	0.4
1976	C	87.6	87.5	-0.1	-0.1
1977	C	46.0	45.9	-0.1	-0.2
1978	AN	147.3	147.8	0.5	0.3
1979	BN	114.0	114.1	0.1	0.1
1980	AN	196.3	196.3	0.0	0.0
1981	D	105.8	105.7	-0.1	-0.1
1982	W	194.2	194.6	0.4	0.2
1983	W	893.1	893.1	0.0	0.0
1984	W	127.1	128.0	0.9	0.7
1985	D	105.7	105.7	0.0	0.0
1986	W	138.5	138.7	0.2	0.1
1987	D	92.3	91.6	-0.7	-0.8
1988	C	62.9	62.8	-0.1	-0.2
1989	D	86.2	86.4	0.2	0.2
1990	C	67.4	67.4	0.0	0.0
1991	C	66.5	66.5	0.1	0.2
	Mean:	156.8	156.9	0.1	0.0
	Median:	105.8	105.7	0.0	0.0
	Min:	46.0	45.9	-0.7	-0.8
	Max:	893.1	893.1	0.9	0.7

Middle River at Mowry Bridge Flow

August					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	116.6	116.6	0.1	0.1
1976	C	78.3	78.2	-0.1	-0.1
1977	C	32.9	33.0	0.1	0.3
1978	AN	111.9	111.7	-0.3	-0.3
1979	BN	103.6	103.6	0.0	0.0
1980	AN	117.7	118.3	0.6	0.5
1981	D	93.4	93.5	0.0	0.0
1982	W	125.3	126.2	0.8	0.6
1983	W	22.0	22.0	0.0	0.0
1984	W	123.1	123.1	0.0	0.0
1985	D	94.9	94.9	0.0	0.0
1986	W	123.3	123.4	0.1	0.1
1987	D	74.1	74.2	0.1	0.1
1988	C	35.5	35.6	0.1	0.3
1989	D	51.3	51.4	0.1	0.2
1990	C	43.1	42.8	-0.3	-0.7
1991	C	40.6	40.4	-0.2	-0.5
	Mean:	81.6	81.7	0.1	0.0
	Median:	93.4	93.5	0.0	0.0
	Min:	22.0	22.0	-0.3	-0.7
	Max:	125.3	126.2	0.8	0.6

Middle River at Mowry Bridge Flow

September					
		CEQA No Project Alternative	CEQA Modified Flow Alternative		
Water Year	Water Year Type	Flow (cfs)	Flow (cfs)	Absolute Difference	Relative Difference (%)
1975	W	112.2	112.2	0.0	0.0
1976	C	63.6	63.5	-0.1	-0.2
1977	C	51.8	51.9	0.1	0.2
1978	AN	135.4	135.4	0.0	0.0
1979	BN	100.6	100.6	0.1	0.1
1980	AN	143.7	143.7	0.0	0.0
1981	D	87.6	87.6	0.0	0.0
1982	W	202.5	202.5	0.0	0.0
1983	W	314.9	314.9	0.0	0.0
1984	W	111.2	111.2	0.0	0.0
1985	D	91.6	91.6	0.0	0.0
1986	W	118.9	118.9	0.0	0.0
1987	D	66.7	66.7	-0.1	-0.1
1988	C	54.1	54.2	0.2	0.4
1989	D	67.8	67.8	0.0	0.0
1990	C	58.4	58.3	-0.1	-0.2
1991	C	56.8	56.6	-0.2	-0.4
	Mean:	108.1	108.1	0.0	0.0
	Median:	91.6	91.6	0.0	0.0
	Min:	51.8	51.9	-0.2	-0.4
	Max:	314.9	314.9	0.2	0.4