

	No Action Alternative (NAA)	H3	H4	Boundary 1	Boundary 2
South Delta Export Restrictions					
South Delta exports (Jones PP and Banks PP)	SWRCB D-1641. Vernalis flow-based export limits Apr 1 – May 31 as required by NMFS BiOp (Jun, 2009) Action IV.2.1 (additional 500 cfs allowed for Jul – Sep for reducing impact on SWP)	SWRCB D-1641. Pumping at the south Delta intakes are preferred during the July through September months up to a total pumping of 3,000 cfs to minimize potential water quality degradation in the south Delta channels. No specific intake preference is assumed beyond 3,000 cfs.	Same as H3	Same as H3	Same as H3
Combined Flow in Old and Middle River (OMR)	FWS BiOp (Dec 2008) Actions 1 through 3 and NMFS BiOp (Jun 2009) Action IV.2.3	New OMR criteria in Table 3 below or same as the NAA, whichever results in less negative OMR flows	Same as H3	Same as NAA	New OMR criteria in Table 5 below or same as the NAA, whichever results in less negative OMR flows
Head of Old River Barrier/Gate	Head of Old River Barrier (HORB) is only installed in the fall months per FWS Delta Smelt BiOp Action 5; it is assumed to be not installed in April or May.	HOR gate operations assumptions (% OPEN) Oct 50%, Nov 100%, Dec 100%, Jan 50%, Feb - Jun 15th 50%, Jun 16-30 100%, Jul - Sep 100%; HOR gate will be open 100% whenever flows are greater than 10,000 cfs at Vernalis.; Oct-Nov: Before the D-1641 pulse = HOR gate open, During the D-1641 pulse = for 2 weeks HOR gate closed; After D-1641 pulse: HORB open 50% for 2 weeks	Same as H3	Same as NAA	HOR gate operations assumptions (% OPEN) Oct - Dec 100%, Jan - Feb 50%, Mar - Jun 0%, Jul - Sep 100%; HOR gate will be open 100% whenever flows are greater than 10,000 cfs at Vernalis.; Oct-Nov: Before the D-1641 pulse = HOR gate open, During the D-1641 pulse = for 2 weeks HOR gate closed; After D-1641 pulse: HORB open 50% for 2 weeks
Delta Outflow Requirements					
Delta Outflow Index (Flow and Salinity)	SWRCB D-1641 and USFWS BiOp (Dec 2008) Action 4 (Fall X2 Requirement)	Same as NAA	Same as NAA; In addition, enhanced spring Delta outflow required during the Mar-May period. Mar-May average outflow requirement is determined based on 90% forecast of Mar-May Eight River Index (8RI). For modeling purposes the Mar-May 8RI was forecasted based on a correlation between the Jan-Feb 8RI and Mar-May 8RI at ELT. Each year in March,	SWRCB D-1641	Same as NAA; In addition, year-round Delta outflow goals (see Table 8 below); outflow above existing requirements, attempted to achieve through Delta export curtailments by an amount needed to meet the outflow goal, such that minimum exports are greater of 1500 cfs or to meet CVP San