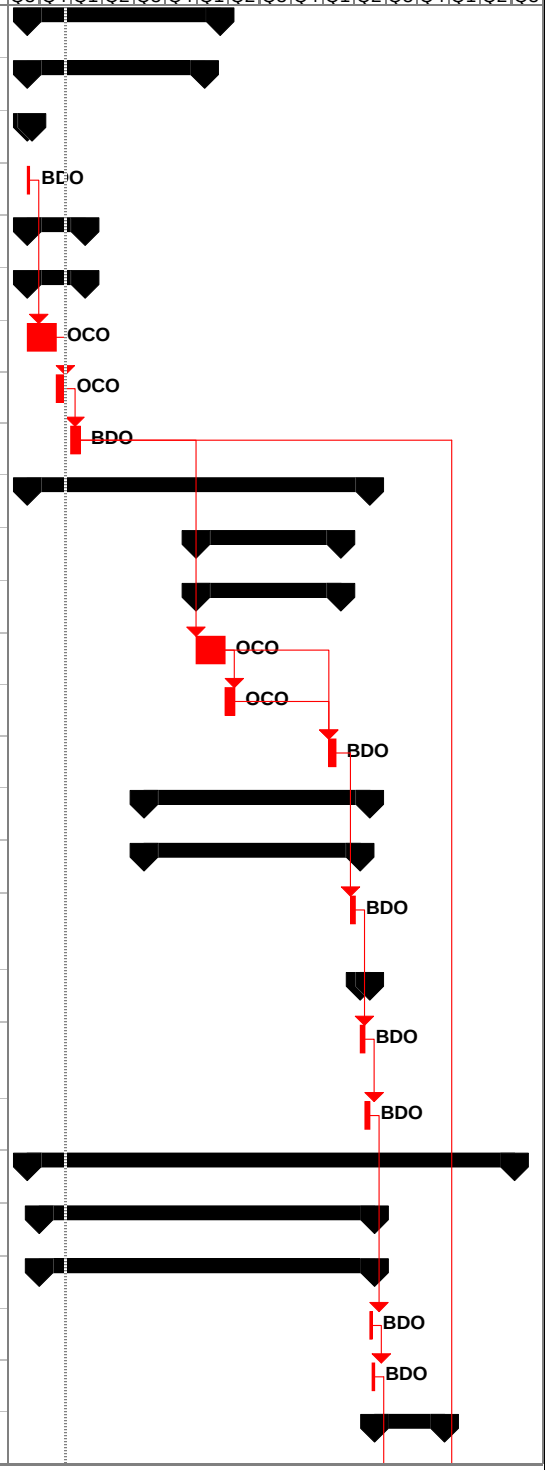
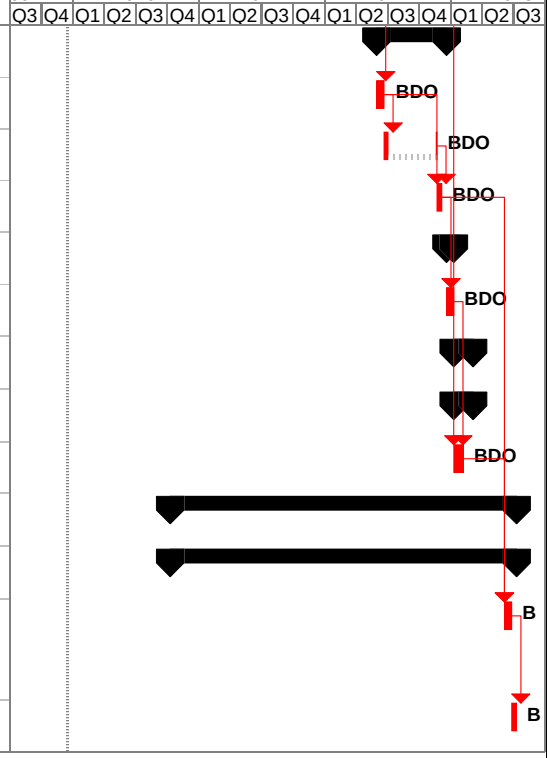
ID	Task Name	Duration	Start	Finish	Critical	Resource Names	Predecessors
5	**Simulation of Historical Conditions, 1990 - present**				**Yes**		
7	**Bromide**	**367 days**	**Fri 8/28/09**	**Mon 1/24/11**	**Yes**		
8	**Phase 1**	**10 days**	**Fri 8/28/09**	**Thu 9/10/09**	**Yes**		
10	Calculate historical bromide based on EC simulation	5 days	Fri 8/28/09	Thu 9/3/09	Yes	BDO	
25	**Hydraulics**	**120 days**	**Fri 8/28/09**	**Thu 2/11/10**	**Yes**		
26	**Phase 1**	**120 days**	**Fri 8/28/09**	**Thu 2/11/10**	**Yes**		
27	Assemble and synthesize data including system operations needed to conduct simulation of	60 days	Fri 8/28/09	Thu 11/19/09	Yes	OCO	10FS-5 days
28	Assemble historical hydraulic data within Aqueduct system for validation	20 days	Fri 11/20/09	Thu 12/17/09	Yes	OCO	27
30	Finalize simulation of historical Aqueduct hydraulics	20 days	Fri 1/1/10	Thu 1/28/10	Yes	BDO	28,29
110	**Seasonal Forecast of Water Quality Conditions based on Calsim Simulations**				**No**		
124	**Hydraulics**	**300 days**	**Fri 12/31/10**	**Thu 2/23/12**	**Yes**		
125	**Phase 3**	**300 days**	**Fri 12/31/10**	**Thu 2/23/12**	**Yes**		
126	Use study of historical SWP operations to refine assumptions of operations	60 days	Fri 12/31/10	Thu 3/24/11	Yes	OCO	30
127	Develop method for assuming pump-in amounts	20 days	Fri 3/25/11	Thu 4/21/11	Yes	OCO	126
128	Conduct seasonal forecast hydraulics simulation using refined operation assumptions	15 days	Fri 1/20/12	Thu 2/9/12	Yes	BDO	126,127
136	**Bromide**	**469 days**	**Mon 8/2/10**	**Thu 5/17/12**	**No**		
137	**Phase 1**	**449 days**	**Mon 8/2/10**	**Thu 4/19/12**	**No**		
140	Make test seasonal forecast of bromide with bromide at Banks and Jones PP converted from EC generated by DSM2	10 days	Fri 3/23/12	Thu 4/5/12	Yes	BDO	128,139
142	**Phase 2**	**20 days**	**Fri 4/20/12**	**Thu 5/17/12**	**Yes**		
143	Make test seasonal forecast of bromide with bromide at Banks and Jones PP directly simulated by DSM2 based on current Delta EC boundary methods	10 days	Fri 4/20/12	Thu 5/3/12	Yes	BDO	2,140,3
144	Document methodology	10 days	Fri 5/4/12	Thu 5/17/12	Yes	BDO	143
145	**Planning Studies of Water Quality Conditions based on Calsim Simulations**				**Yes**		
147	**Bromide**	**695 days**	**Fri 10/2/09**	**Thu 5/31/12**	**Yes**		
148	**Phase 2**	**695 days**	**Fri 10/2/09**	**Thu 5/31/12**	**Yes**		
150	Test conducting planning study using EC-derived boundary bromide	5 days	Fri 5/18/12	Thu 5/24/12	Yes	BDO	2,149,144
151	Document methodology	5 days	Fri 5/25/12	Thu 5/31/12	Yes	BDO	150
152	**DOC**	**145 days**	**Fri 6/1/12**	**Thu 12/20/12**	**Yes**		



ID	Task Name	Duration	Start	Finish	Critical	Resource Names	Predecessors
153	**Phase 3**	**145 days**	**Fri 6/1/12**	**Thu 12/20/12**	**Yes**		
154	Using the WARMF model, develop methods to generate Delta DOC for Sac and SJR	15 days	Fri 6/1/12	Thu 6/21/12	Yes	BDO	78,151
155	Develop methods to generate DOC conditions at other Delta boundaries	10 days	Fri 6/22/12	Thu 11/22/12	Yes	BDO	23,154
156	Test conducting planning study using WARMF-derived boundary DOC	10 days	Fri 11/23/12	Thu 12/6/12	Yes	BDO	154,155
158	**Tools**	**15 days**	**Fri 12/21/12**	**Thu 1/10/13**	**Yes**		
159	Devlop tools to enable rapid generation of DOC boundary conditions for given planning study	15 days	Fri 12/21/12	Thu 1/10/13	Yes	BDO	156
161	**Hydraulics**	**40 days**	**Fri 1/11/13**	**Thu 3/7/13**	**Yes**		
162	**Phase 3**	**40 days**	**Fri 1/11/13**	**Thu 3/7/13**	**Yes**		
163	Use study of historical SWP operations to refine assumptions of operations	20 days	Fri 1/11/13	Thu 2/7/13	Yes	BDO	30,159
180	**DOC**	**719 days**	**Mon 10/11/10**	**Thu 7/11/13**	**Yes**		
181	**Phase 3**	**719 days**	**Mon 10/11/10**	**Thu 7/11/13**	**Yes**		
183	Make test planning study simulation of DOC with DOC at Banks and Jones PP directly simulated by DSM2 based on WARMF simulation for Delta bound.	15 days	Fri 6/7/13	Thu 6/27/13	Yes	BDO	156,163,182,78
184	Document methodolgy	10 days	Fri 6/28/13	Thu 7/11/13	Yes	BDO	183