

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1980</b>			
<b>10/21/80</b>	<b>1000</b>	<b>CLOSED</b>	<b>Only the south gate was closed.</b>
<b>10/23/80</b>	<b>1125</b>	<b>OPEN</b>	
<b>10/28/80</b>	<b>1025</b>	<b>CLOSED</b>	
<b>11/20/80</b>	<b>1000</b>	<b>OPEN</b>	

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DATE	TIME	ACTION	REMARKS
		1981	
01/23/81	1050	CLOSED	
04/15/81	1032	OPEN	
05/05/81	1446	CLOSED	
05/12/81	1130	OPEN	
11/14/81	1119	CLOSED	

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<b>1982</b>			
<b>06/11/82</b>	<b>1225</b>	<b>OPEN</b>	<b>Problems with gate #2. Gate #2 opened at 1610 hours.</b>
<b>06/14/82</b>	<b>1005</b>	<b>CLOSED</b>	
<b>06/18/82</b>	<b>1226</b>	<b>OPEN</b>	
<b>06/21/82</b>	<b>0945</b>	<b>CLOSED</b>	
<b>06/25/82</b>	<b>1221</b>	<b>OPEN</b>	
<b>11/16/82</b>	<b>1025</b>	<b>CLOSED</b>	

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		1983	
07/22/83	0936	OPEN	
11/13/83	1435	CLOSED	

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1984</b>			
<b>04/20/84</b>	<b>1005</b>	<b>OPEN</b>	
<b>05/08/84</b>	<b>1149</b>	<b>CLOSED</b>	<b>Closure for fish testing.</b>
<b>05/11/84</b>	<b>1057</b>	<b>OPEN</b>	
<b>05/14/84</b>	<b>1022</b>	<b>CLOSED</b>	
<b>05/17/84</b>	<b>1025</b>	<b>OPEN</b>	
<b>05/21/84</b>	<b>0940</b>	<b>CLOSED</b>	
<b>05/24/84</b>	<b>1015</b>	<b>OPEN</b>	
<b>11/13/84</b>	<b>0954</b>	<b>CLOSED</b>	

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1985</b>			
03/15/85	1425	OPEN	
05/07/85	1035	CLOSED	DELTA WATER QUALITY
05/09/85	1043	OPEN	FISH TESTING
05/29/85	1002	CLOSED	EMMATON WATER QUALITY
05/31/85	1355	OPEN	JERSEY WATER QUALITY
06/03/85	0925	CLOSED	EMMATON WATER QUALITY
06/06/85	1040	OPEN	JERSEY WATER QUALITY - EMMATON O.K.
06/12/85	0923	CLOSED	EMMATON WATER QUALITY
06/14/85	1324	OPEN	EMMATON O.K.
10/17/85	0909	CLOSED	EMMATON WATER QUALITY
10/19/85	1135	OPEN	EMMATON WATER QUALITY O.K.
10/23/85	1425	CLOSED	EMMATON WATER QUALITY INSURANCE
10/25/85	1400	OPEN	48 HOURS DURATION OF CLOSURE
11/07/85	1425	CLOSED	EMMATON WATER QUALITY (REQUEST OF DWR)
11/08/85	1425	OPEN	24-HOUR CLOSURE - OPEN FOR WEEKEND
11/12/85	1220	CLOSED	EMMATON WATER QUALITY (REQUEST OF DWR)
11/15/85	1423	OPEN	OPEN FOR WEEKEND
11/30/85	1130	CLOSED	HIGH WATER
12/06/85	1230	OPEN	CONTRA COSTA WATER QUALITY - RIVER STILL HIGH BUT FALLING

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1986</b>			
<b>01/17/86</b>	<b>1300</b>	<b>CLOSED</b>	<b>D-1485 - DELTA OUTFLOW &gt; 12,000 EXPECTED</b>
<b>05/22/86</b>	<b>1300</b>	<b>OPEN</b>	<b>OPEN FOR WEEKEND</b>
<b>09/23/86</b>	<b>1425</b>	<b>CLOSED</b>	<b>HIGH WATER</b>
<b>10/09/86</b>	<b>1355</b>	<b>OPEN</b>	<b>OPEN FOR BOATERS CONVENIENCE</b>
<b>12/05/86</b>	<b>1435</b>	<b>CLOSED</b>	<b>EMMATON WATER QUALITY (REQUEST OF DWR)</b>
<b>12/10/86</b>	<b>1025</b>	<b>OPEN</b>	
<b>12/30/86</b>	<b>1425</b>	<b>CLOSED</b>	<b>OUTFLOW 12,000 CFS</b>

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1987</b>			
02/27/87	0725	OPEN	OUTFLOW BELOW 12,000 CFS
03/06/87	0940	CLOSED	OUTFLOW OVER 12,000 CFS
04/01/87	0825	OPEN	OUTFLOW BELOW 12,000 AND TO EQUALIZE WATER QUALITY BETWEEN EMMATON AND JERSEY POINT
04/28/87	0755	CLOSED	FISH TESTING
05/01/87	0755	OPEN	
05/17/87	0725	CLOSED	FISH FLUSH
05/23/87	0725	OPEN	
10/01/87	1535	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
10/04/87	0925	OPEN	EMMATON O.K.
10/08/87	1122	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
10/10/87	0630	OPEN	EMMATON O.K.
10/27/87	1115	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
10/30/87	0735	OPEN	EMMATON WATER QUALITY O.K.
11/02/87	1455	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
11/05/87	1525	OPEN	EMMATON O.K.



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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1988</b>			
01/05/88	0825	CLOSED	OUTFLOW REQUIREMENT
01/27/88	1340	OPEN	OUTFLOW BELOW 12,000
05/03/88	0732	CLOSED	FISH TEST
05/06/88	0746	OPEN	FISH TEST
05/13/88	1325	CLOSED	FISH FLUSH
05/20/88	1525	OPEN	
05/31/88	0754	CLOSED	FISH TEST
05/31/88	1435	OPEN	TEST POSTPONED UNTIL 6/13/88
06/21/88	0740	CLOSED	FISH TEST
06/24/88	0725	OPEN	FISH TEST
11/25/88	1254	CLOSED	HIGH OUTFLOW
11/27/88	0743	OPEN	

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1989</b>			
02/19/89	1228	CLOSED	REQUESTED BY SHERIFF'S OFFICE SO THEY COULD SEARCH FOR A BODY -- NONE FOUND
02/19/89	1357	OPEN	
03/06/89	0925	CLOSED	OUTFLOW EXCEEDS 12,000 CFS
04/13/89	1507	OPEN	OUTFLOW BELOW 12,000 CFS
05/08/89	1226	CLOSED	EMMATON QUALITY NOT GOOD
05/10/89	0825	OPEN	EMMATON QUALITY IMPROVING
05/12/89	1425	CLOSED	FISH FLUSH - FISH HAVE REACHED DELTA
05/17/89	1022	OPEN	COLEMAN FISH FLUSH CONCLUDED
06/05/89	1325	CLOSED	EMMATON WATER QUALITY
06/07/89	0825	OPEN	EMMATON QUALITY IMPROVING
06/08/89	1454	CLOSED	EMMATON WATER QUALITY
06/10/89	0655	OPEN	EMMATON QUALITY IMPROVING
06/19/89	1025	CLOSED	EMMATON WATER QUALITY
06/21/89	1425	OPEN	EMMATON QUALITY IMPROVING

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1990</b>			
<b>01/11/90</b>	<b>0945</b>	<b>CLOSED</b>	<b>OUTFLOW ABOVE 12,000 CFS</b>
<b>01/22/90</b>	<b>1425</b>	<b>OPEN</b>	<b>OUTFLOW BELOW 12,000</b>
<b>04/25/90</b>	<b>1424</b>	<b>GATE 2 CLOSED</b>	<b>FLOW STUDY BY DWR</b>
<b>04/26/90</b>	<b>1540</b>	<b>OPEN</b>	<b>FLOW STUDY COMPLETE</b>
<b>05/15/90</b>	<b>0924</b>	<b>CLOSED</b>	<b>EMMATON WATER QUALITY</b>
<b>05/16/90</b>	<b>1325</b>	<b>OPEN</b>	<b>EMMATON IMPROVED</b>

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1991</b>			
03/05/91	1425	CLOSED	OUTFLOW ABOVE 12,000
03/11/91	1025	OPEN	OUTFLOW BELOW 12,000
03/14/91	1600	CLOSED	OUTFLOW ABOVE 12,000
04/04/91	1055	OPEN	OUTFLOW BELOW 12,000
05/02/91	1245	CLOSED	FISH FLUSH
05/03/91	1435	OPEN	
05/16/91	1440	CLOSED	EMMATON WATER QUALITY
05/18/91	0625	OPEN	EMMATON IMPROVED
05/20/91	1424	CLOSED	EMMATON WATER QUALITY
05/25/91	0625	OPEN	EMMATON IMPROVED
05/30/91	1125	CLOSED	EMMATON WATER QUALITY
06/01/91	0625	OPEN	EMMATON IMPROVED
06/03/91	1337	CLOSED	EMMATON WATER QUALITY
06/07/91	0845	OPEN	EMMATON IMPROVED
06/10/91	1024	CLOSED	EMMATON WATER QUALITY
06/13/91	0825	OPEN	EMMATON IMPROVED
06/27/91	1455	CLOSED	EMMATON WATER QUALITY
06/29/91	0625	OPEN	EMMATON IMPROVED

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1992</b>			
02/03/92	1025	CLOSED	OUT-MIGRATION OF JUVENILE WINTER-RUN SALMON
05/01/92	0932	OPEN	OUT-MIGRATION COMPLETE
05/15/92	0900	CLOSED	TO HELP MEET D-1485 RIO VISTA FLOW REQUIREMENTS
05/22/92	1000	OPEN	RIO VISTA FLOWS O.K.
05/26/92	0924	CLOSED	EMMATON WATER QUALITY
05/29/92	1649	OPEN	EMMATON IMPROVED
06/01/92	0920	CLOSED	EMMATON WATER QUALITY
06/03/92	0908	PARTIALLY OPENED	OPENED TO WATER SURFACE FOR GATE INSPECTION
06/03/92	1427	CLOSED	INSPECTION COMPLETED
06/08/92	1520	OPEN	EMMATON IMPROVED
12/12/92	1125	CLOSED	HIGH FLOW IN SACRAMENTO RIVER
12/14/92	1755	OPEN	FLOWS LOWER

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<b>1993</b>			
<b>01/03/93</b>	<b>1125</b>	<b>CLOSED</b>	<b>HIGH FLOWS IN SAC RIVER/ESA REQUIREMENTS</b>
<b>05/29/93</b>	<b>1755</b>	<b>OPEN</b>	<b>LOWER FLOWS</b>
<b>06/01/93</b>	<b>1436</b>	<b>CLOSED</b>	<b>HIGH FLOW IN SACRAMENTO RIVER</b>
<b>06/18/93</b>	<b>1001</b>	<b>OPEN</b>	<b>HIGH FLOWS RECEDING</b>
<b>10/29/93</b>	<b>0938</b>	<b>CLOSED</b>	<b>STATE EMMATON STANDARD</b>
<b>11/01/93</b>	<b>0930</b>	<b>OPEN</b>	<b>STATE EMMATON STANDARD IMPROVED</b>
<b>11/02/93</b>	<b>1101</b>	<b>CLOSED</b>	<b>STATE EMMATON STANDARD</b>
<b>11/07/93</b>	<b>0940</b>	<b>OPEN</b>	<b>STATE EMMATON STANDARD IMPROVED</b>

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1994</b>			
01/08/94	1041	CLOSED	ESA REQUIREMENT
05/27/94	1326	OPEN	WINTER RUN SALMON ASSUMED TO BE OUT OF SYSTEM
06/22/94	1420	CLOSED	EMMATON WATER QUALITY
06/24/94	1338	OPEN	
06/29/94	1335	CLOSED	TO IMPROVE STATE EMMATON STANDARD
07/01/94	1502	OPEN	FOR 3-DAY WEEKEND
07/05/94	1424	CLOSED	TO IMPROVE STATE EMMATON STANDARD
07/08/94	1335	OPEN	EMMATON STANDARD IMPROVED
07/26/94	1428	CLOSED	TO IMPROVE STATE EMMATON STANDARD
07/29/94	1325	OPEN	
11/11/94	1240	CLOSED	WINTER RUN OUT MIGRATION
11/14/94	1805	OPEN	
12/08/94	1029	CLOSED	WINTER RUN MOVEMENT - NMFS REQUEST TO CLOSE
12/14/94	1625	OPEN	
12/16/94	0835	CLOSED	
12/19/94	1354	OPEN	

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1995</b>			
<b>01/04/95</b>	<b>1034</b>	<b>CLOSED</b>	<b>REQUEST FROM FISHERY AGENCIES FOR EXPERIMENT ON MOVEMENT OF SALMON SMOLTS.</b>
<b>07/28/95</b>	<b>0700</b>	<b>OPEN</b>	
<b>09/19/95</b>	<b>1400</b>	<b>CLOSED</b>	<b>FLows IN SACRAMENTO RIVER OVER 25,000 CFS.</b>
<b>09/22/95</b>	<b>1100</b>	<b>OPEN</b>	
<b>12/11/95</b>	<b>0900</b>	<b>CLOSED</b>	<b>FORECASTED WEATHER NEXT WEEK WITH RESULTANT INCREASED FLOWS AND FISH MOVEMENT.</b>



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<b>1996</b>			
<b>06/12/96</b>	<b>0900</b>	<b>OPEN</b>	
<b>11/12/96</b>	<b>1300</b>	<b>CLOSED</b>	<b>TO AVOID DIVERSION OF FISH</b>
<b>11/15/96</b>	<b>1300</b>	<b>OPEN</b>	
<b>11/20/96</b>	<b>1200</b>	<b>CLOSED</b>	<b>FISH MOVEMENT</b>

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1997</b>			
05/16/97	1900	OPEN	
05/21/97	1120	CLOSED	
05/23/97	1325	OPEN	
05/28/97	0925	CLOSED	
05/30/97	1325	OPEN	
06/12/97	0925	CLOSED	
06/16/97	0955	OPEN	
07/01/97	0725	CLOSED	
07/03/97	1225	OPEN	
10/06/97	1555	CLOSED	EXPERIMENT TO CLOSE THE GATES FOR A 2 WEEK PERIOD TO MEASURE THE RATE OF INCREASE OF SALINITY.
10/15/97	0855	OPEN	
11/25/97	0624	CLOSED	

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<b>1998</b>			
<b>07/17/98</b>	<b>0925</b>	<b>OPEN</b>	
<b>09/08/98</b>	<b>1225</b>	<b>CLOSED</b>	<b>Flows in Sacramento River above 25,000 cfs.</b>

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<b>1999</b>			
<b>05/28/99</b>	<b>0852</b>	<b>OPEN</b>	
<b>11/26/99</b>	<b>0824</b>	<b>CLOSED</b>	<b>Fishery protection</b>
<b>12/14/99</b>	<b>0924</b>	<b>Open</b>	<b>Delta Water Quality</b>
<b>12/14/99</b>	<b>1425</b>	<b>Closed</b>	
<b>12/15/99</b>	<b>0922</b>	<b>Open</b>	

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<b>2000</b>			
01/16/00	1041	Closed	Monitoring of Spring Run sized Chinook salmon at lower Sacramento River sites.
05/26/00	1025	Open	
06/05/00	1025	Closed	
06/09/00	1020	Open	
06/12/00	1025	Closed	
06/16/00	1030	Open	
09/28/00	0654	closed	Begin Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	1325	open	
	1851	closed	
09/29/00	0206	open	
	0755	closed	
	1410	open	
	1941	closed	
09/30/00	0308	open	
	0902	closed	
	1449	open	
	2009	closed	
10/01/00	0416	open	
	0950	closed	
	1545	open	
	2054	closed	
10/02/00	0511	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	1025	closed	
	1540	open	
	2140	closed	

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<b>2000 continued</b>			
<b>10/03/00</b>	<b>0616</b>	<b>open</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1155</b>	<b>closed</b>	
	<b>1510</b>	<b>open</b>	
	<b>2224</b>	<b>closed</b>	
<b>10/04/00</b>	<b>0715</b>	<b>open</b>	
	<b>1240</b>	<b>closed</b>	
	<b>1804</b>	<b>open</b>	
	<b>2209</b>	<b>closed</b>	
<b>10/05/00</b>	<b>0755</b>	<b>open</b>	
	<b>1325</b>	<b>closed</b>	
	<b>1854</b>	<b>open</b>	
<b>10/06/00</b>	<b>0011</b>	<b>closed</b>	
	<b>0840</b>	<b>open</b>	
	<b>1410</b>	<b>closed</b>	
	<b>1937</b>	<b>open</b>	
<b>10/07/00</b>	<b>0055</b>	<b>closed</b>	
	<b>0926</b>	<b>open</b>	
	<b>1454</b>	<b>closed</b>	
	<b>2040</b>	<b>open</b>	
<b>10/08/00</b>	<b>0154</b>	<b>closed</b>	
	<b>0956</b>	<b>open</b>	
	<b>1538</b>	<b>closed</b>	
	<b>2123</b>	<b>open</b>	
<b>10/09/00</b>	<b>0250</b>	<b>closed</b>	
	<b>1025</b>	<b>open</b>	
	<b>1610</b>	<b>closed</b>	
	<b>2220</b>	<b>open</b>	
<b>10/10/00</b>	<b>0351</b>	<b>closed</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1110</b>	<b>open</b>	
	<b>1640</b>	<b>closed</b>	
	<b>2310</b>	<b>open</b>	

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<b>2000 continued</b>			
10/11/00	0440	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	1155	open	
	1710	closed	
10/12/00	0010	open	
	0539	closed	
	1225	open	
10/13/00	1755	closed	
	0058	open	
	0640	closed	
10/14/00	1240	open	
	1824	closed	
	0155	open	
10/15/00	0754	closed	
	1324	open	
	1054	closed	
10/16/00	0304	open	
	0902	closed	
	1410	open	
10/17/00	1939	closed	
	0354	open	
	0925	closed	
10/18/00	1455	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	2024	closed	
	0454	open	
10/17/00	1025	closed	
	1540	open	
	2124	closed	
10/18/00	0555	open	
	1125	closed	
	1640	open	
	2212	closed	

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<b>2000 continued</b>			
<b>10/19/00</b>	<b>0638</b>	<b>open</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1210</b>	<b>closed</b>	
	<b>1745</b>	<b>open</b>	
	<b>2309</b>	<b>closed</b>	
<b>10/20/00</b>	<b>0740</b>	<b>open</b>	
	<b>1255</b>	<b>closed</b>	
<b>10/21/00</b>	<b>0821</b>	<b>open</b>	
	<b>1454</b>	<b>closed</b>	
<b>10/22/00</b>	<b>0909</b>	<b>open</b>	
	<b>1438</b>	<b>closed</b>	
<b>10/23/00</b>	<b>0955</b>	<b>open</b>	
	<b>1525</b>	<b>closed</b>	
<b>10/24/00</b>	<b>1015</b>	<b>open</b>	
	<b>1610</b>	<b>closed</b>	
<b>10/25/00</b>	<b>1125</b>	<b>open</b>	
	<b>1655</b>	<b>closed</b>	
<b>10/26/00</b>	<b>1155</b>	<b>open</b>	
	<b>1725</b>	<b>closed</b>	
<b>10/27/00</b>	<b>1240</b>	<b>open</b>	
	<b>1810</b>	<b>closed</b>	
<b>10/28/00</b>		<b>No moves</b>	
<b>10/29/00</b>	<b>1310</b>	<b>open</b>	
	<b>1840</b>	<b>closed</b>	
<b>10/30/00</b>	<b>1355</b>	<b>open</b>	
	<b>1925</b>	<b>closed</b>	
<b>10/31/00</b>	<b>1440</b>	<b>open</b>	
	<b>1955</b>	<b>closed</b>	
<b>11/01/00</b>	<b>1525</b>	<b>open</b>	
	<b>2040</b>	<b>closed</b>	
<b>11/02/00</b>	<b>1625</b>	<b>open</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>2125</b>	<b>closed</b>	
<b>11/03/00</b>	<b>0610</b>	<b>open</b>	
	<b>1155</b>	<b>closed</b>	



**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2000 continued</b>			
11/04/00	0655	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	1239	closed	
11/05/00	0724	open	
	1510	closed	
11/06/00	0810	open	
	1340	closed	
11/07/00	0840	open	
	1410	closed	
11/08/00	0925	open	Opened until further notice. End of study.
12/22/00	1025	closed	
12/26/00	1425	open	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2001</b>			
01/14/01	1025	closed	Fishery concerns
01/23/01	1025	open	
01/26/01	1025	closed	
05/25/01	1215	open	
05/29/01	0525	closed	
06/09/01	0620	open	
06/11/01	0620	closed	
06/14/01	1350	open	
08/10/01	1740	closed	Begin Gate study to determine how best to operate CC
08/10/01	2352	open	Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
08/12/01	1909	closed	
08/13/01	0110	open	
08/14/01	2057	closed	
08/15/01	0222	open	
08/16/01	2221	closed	Continue Gate study to determine how best to operate CC
08/17/01	0354	open	Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
08/19/01	0009	closed	Started to close gates on 8/18/2001 at 2345 hours.

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2001 continued</b>			
08/19/01	0539	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
08/21/01	0224	closed	
08/21/01	0725	open	
08/23/01	0522	closed	
08/23/01	0925	open	
08/25/01	1721	closed	
08/26/01	0009	open	Started to close gates on 8/25/2001 at 2344 hours.
08/26/01	1902	closed	
08/27/01	0055	open	End Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/08/01	0645	closed	Begin Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/08/01	1225	open	
10/09/01	0739	closed	
10/09/01	1325	open	
10/10/01	0824	closed	
10/10/01	1410	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2001 continued</b>			
10/11/01	2024	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/12/01	0125	open	
10/12/01	2119	closed	
10/13/01	0235	open	
10/13/01	2204	closed	
10/14/01	0335	open	
10/14/01	2304	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/15/01	0425	open	
10/16/01	0038	closed	
10/16/01	0514	open	
10/17/01	0154	closed	
10/17/01	0615	open	
10/18/01	0249	closed	
10/18/01	0820	open	
10/19/01	0404	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/19/01	0920	open	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2001 continued</b>			
10/20/01	0459	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/20/01	1030	open	
10/20/01	1518	closed	
10/20/01	2035	open	
10/21/01	1605	closed	
10/21/01	2134	open	
10/22/01	1700	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/22/01	2206	open	
10/23/01	1735	Gate was to close but operator missed the closure.	
10/24/01	1852	closed	
10/24/01	2359	open	
10/25/01	2004	close	
10/26/01	0054	open	
10/26/01	2030	close	
10/27/01	0139	open	End Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2001 continued</b>			
11/21/01	1024	closed	Fish concerns
11/29/01	1426	open	Delta water quality concern
12/04/01	0931	closed	Forcast high flow Sac River as well as fishery protection. Note: Gates could have been open on 12/11, but kept closed for fishery concerns.

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2002</b>			
05/24/02	1024	open	
05/28/02	1024	close	
05/31/02	1025	open	Begin Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/03/02	2017	close	
06/04/02	0529	open	
06/04/02	2026	close	
06/05/02	0526	open	
06/05/02	2024	close	
06/06/02	0525	open	
06/06/02	2027	close	
06/07/02	0528	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/09/02	2324	close	
06/10/02	0727	open	
06/10/02	2325	close	
06/11/02	0729	open	
06/11/02	2325	close	
06/12/02	0727	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/12/02	2325	close	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2002 continued</b>			
06/13/02	0728	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/13/02	2325	close	
06/14/02	0724	open	End Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/16/02	0835	closed	Fish study
10/19/02	0825	open	End of fish study. Gate #2 fell closed from full open position at 0830. #2 Gate (south) remains closed until repairs complete.
11/12/02	0815	closed	To complete maintenance and repairs.
11/12/02	1730	open	Maintenance and repairs complete.
12/03/02	1010	closed	Fishery Agencies Request.
12/10/02	1355	open	Fishery Agencies Request Complete.
12/16/02	1124	closed	High Flows.



**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2003</b>			
<b>05/30/03</b>	<b>1625</b>	<b>open</b>	<b>High flows - open for weekend and closed again on Monday.</b>
<b>06/02/03</b>	<b>0824</b>	<b>closed</b>	
<b>06/06/03</b>	<b>1112</b>	<b>open</b>	<b>Gates open on weekends until flow drops below 25,000 cfs</b>
<b>06/09/03</b>	<b>0908</b>	<b>closed</b>	<b>High flows</b>
<b>06/12/03</b>	<b>0925</b>	<b>open</b>	
<b>12/01/03</b>	<b>1024</b>	<b>closed</b>	<b>Fishery Protection</b>

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2004</b>			
05/28/04	1032	open	
06/01/04	1032	closed	Gate 2 fully closed at 1229 due to operational problems.
06/03/04	1141	open	Gate 2 fully opened at 1250 due to operational problems.
12/05/04	1215	closed	Fishery Experiment
12/28/04	1127	open	Water Quality, before substantial increase flows at Freeport.
12/29/04	1723	closed	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2005</b>			
<b>06/25/05</b>	<b>914</b>	<b>open</b>	
<b>11/16/05</b>	<b>825</b>	<b>closed</b>	<b>DAT recommendation for Winter Run Protection</b>
<b>11/20/05</b>	<b>830</b>	<b>open</b>	
<b>12/03/05</b>	<b>823</b>	<b>closed</b>	<b>Fishery Protection</b>

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2006</b>			
<b>06/30/06</b>	<b>1003</b>	<b>open</b>	
<b>10/30/06</b>	<b>1030</b>	<b>closed</b>	<b>Testing and adjustment after contract work completed</b>
<b>10/30/06</b>	<b>1230</b>	<b>open</b>	
<b>12/15/06</b>	<b>952</b>	<b>closed</b>	<b>Flows forecasted to get above 25,000 cfs.</b>

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2007</b>			
05/25/07	0949	open	
05/30/07	1240	closed	Decreasing water quality at Emmaton.
06/02/07	0825	open	
06/05/07	1045	closed	To improve water quality at Emmaton.
06/09/07	0830	open	
06/11/07	0830	closed	To comply with SWRCB Standards.
06/16/07	0855	open	
12/14/07	1138	closed	Requested by Fishery Agencies.

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2008</b>			
05/23/08	1058	open	Opening or Memorial Day weekend recreation activities.
05/27/08	1054	closed	
05/30/08	1024	open	Opening for weekend recreation activities.
06/02/08	1024	closed	
06/06/08	1025	open	Opening for weekend recreation activities.
06/09/08	1024	closed	
06/13/08	1024	open	
11/10/08	0820	closed	Begin fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/12/08	0800	open	
11/12/08	1634	closed	
11/13/08	0800	open	
11/13/08	1555	closed	
11/14/08	0811	open	
11/14/08	1555	closed	
11/15/08	0800	open	
11/15/08	1554	closed	
11/16/08	0818	open	
11/16/08	1554	closed	
11/17/08	0815	open	
11/17/08	1633	closed	
11/18/08	0817	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/18/08	1551	closed	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2008 continued</b>			
11/19/08	0825	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/19/08	1550	closed	
11/20/08	0805	open	
11/20/08	1540	closed	
11/21/08	0820	open	
11/21/08	1541	closed	
11/22/08	0821	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/22/08	1619	closed	
11/23/08	0824	open	
11/23/08	1548	closed	
11/24/08	0825	open	
11/24/08	1547	closed	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/25/08	0824	open	
11/25/08	1547	closed	
11/26/08	0825	open	Suspend experiment due to Water Quality concerns.
12/13/08	1540	closed	Begin fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/14/08	0825	open	
12/14/08	1546	closed	
12/15/08	0825	open	
12/15/08	1544	closed	
12/16/08	0840	open	
12/16/08	1544	closed	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2008 continued</b>			
12/17/08	0842	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/17/08	1547	closed	
12/18/08	0850	open	
12/18/08	1549	closed	
12/19/08	0843	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/19/08	1550	closed	
12/20/08	0844	open	
12/20/08	1548	closed	
12/21/08	0844	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/21/08	1548	closed	
12/22/08	0844	open	
12/22/08	1549	closed	