

## Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh  
 Tuesday, July 31, 2012

Criteria	Standard	Status
<b>Flow/Operational</b>		
% of inflow diverted	65 %	37 %
NDOI, monthly average *	>= 6,500 cfs	7,817 cfs
NDOI, 7 day average*	>= 5,200 cfs	9,928 cfs

### Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	175 days	186 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	63 mg/l
14dm EC at Emmaton	<= 1.14 mS/cm	0.27 mS/cm
14dm EC at Jersey Point	<= 0.74 mS/cm	0.72 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.6 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.7 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.6 mS/cm

#### SUISUN MARSH:

Suisun Marsh Salinity Control Gates :                    3 Open / 0 Closed / 0 Full Tide Open  
 Flashboard Status : Out  
 Boat Lock Status : Closed

### California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2012)

Previous Month's Index (8RI for Apr.): 3.701 MAF  
 Water Year Type: Below Normal  
 Sacramento valley water year type index (40/30/30) @ 50%: 6.9 MAF (Below Normal )  
 San Joaquin valley water year type index (60/20/20) @ 75%: 2.2 MAF ( Dry)

Electrical Conductivity (EC) in milliSiemens per Centimeter.  
 Chlorides (Cl) in milligrams per liter  
 mht - mean high tides  
 md - mean daily  
 14 dm - fourteen day running mean  
 28 dm - twenty-eight day running mean  
 NR - No Record  
 NC - Average not computed due to insufficient data.  
 BR : Below Rating  
 e - estimated value

Montezuma Slough Gate Operation:  
 Number of gates operating at either Open, Closed, or Full Tide Open  
 Flashboard Status : In, Out, or Modified In  
 Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:  
 c = excess Delta conditions  
 b = balanced Delta cond. w/ no storage withdrawal  
 s = balanced Delta cond. w/ storage withdrawal  
 Excess Delta conditions with restrictions:  
 f = fish concerns  
 r = E/I ratio concerns

\* NDOI, Rio Vista & Vernalis Flows:  
 - Monthly average is progressive daily mean.  
 - 7 day average is progressive daily mean for the first six days of the month.

## Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
07/02/2012	6.83	4.43	7,003	24.08	12.04	12.83	6.59	6.05	5.95	2.99	2.95
07/03/2012	6.83	4.37	5,805	23.70	13.62	12.63	6.71	6.17	5.82	3.14	2.84
07/04/2012	6.88	4.60	6,538	24.16	11.81	12.34	7.62	7.11	5.80	3.82	2.82
07/05/2012	6.80	4.49	6,887	24.93	8.17	11.80	7.99	7.49	5.77	3.72	2.77
07/06/2012	6.32	4.20	6,968	23.09	11.36	11.72	6.76	6.23	5.69	3.10	2.72
07/07/2012	5.88	4.16	7,434	21.94	11.06	11.62	6.17	5.63	5.64	2.81	2.70
07/08/2012	5.78	4.25	7,076	22.27	11.70	11.71	6.61	6.07	5.68	3.07	2.73
07/09/2012	5.74	4.16	6,911	21.85	10.03	11.58	6.12	5.58	5.74	2.89	2.78
07/10/2012	5.77	3.94	7,162	20.74	8.07	11.32	5.48	4.94	5.79	2.43	2.82
07/11/2012	5.96	4.00	7,063	20.67	7.80	11.09	5.55	5.01	5.84	2.46	2.85
07/12/2012	6.29	4.30	6,910	22.30	8.09	10.83	6.65	6.12	5.93	3.15	2.92
07/13/2012	6.40	4.47	7,232	24.30	9.85	10.60	7.96	7.46	6.09	3.66	3.02
07/14/2012	6.42	4.44	6,485	24.52	10.38	10.40	7.57	7.06	6.20	3.55	3.10
07/15/2012	6.50	4.53	7,167	24.04	10.75	10.34	7.94	7.44	6.31	3.84	3.19
07/16/2012	6.73	4.75	7,470	26.10	13.90	10.47	8.99	8.53	6.49	4.41	3.29
07/17/2012	6.69	4.46	6,935	24.70	15.52	10.61	7.82	7.32	6.57	3.55	3.32
07/18/2012	6.39	4.29	7,655	23.77	14.79	10.82	6.94	6.41	6.52	3.15	3.27
07/19/2012	6.37	4.32	7,850	23.57	15.21	11.32	7.09	6.57	6.45	3.29	3.24
07/20/2012	6.29	4.18	7,799	23.54	14.40	11.54	6.51	5.97	6.44	3.04	3.24
07/21/2012	6.01	4.15	7,879	22.55	13.83	11.74	6.25	5.71	6.44	2.76	3.23
07/22/2012	5.94	4.33	7,916	22.87	13.18	11.84	6.71	6.18	6.45	3.07	3.23
07/23/2012	6.06	4.57	7,834	23.99	14.70	12.18	7.13	6.61	6.52	3.48	3.28
07/24/2012	6.06	4.42	8,329	23.08	14.20	12.61	6.81	6.28	6.62	3.12	3.32
07/25/2012	6.22	4.33	8,728	23.04	13.63	13.03	6.20	5.66	6.66	2.74	3.34
07/26/2012	6.49	4.38	9,480	23.51	13.58	13.42	6.39	5.85	6.65	2.82	3.32
07/27/2012	6.62	4.45	9,910	23.66	13.38	13.68	6.36	5.82	6.53	2.82	3.26
07/28/2012	6.69	4.47	10,233	23.43	13.26	13.88	6.05	5.51	6.42	2.63	3.20
07/29/2012	6.61	4.36	10,515	22.47	13.23	14.06	5.73	5.19	6.26	2.37	3.09
07/30/2012	6.74	4.34	10,400	21.84	12.65	13.97	5.36	4.82	5.99	2.28	2.94
07/31/2012	6.72	4.39	10,230	22.00	12.98	13.79	5.60	5.05	5.83	2.43	2.86

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

## Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
07/02/2012	1.50	1.50	0.44	0.45	0.36	0.39	0.36	12.08	10.16	10.38	9.60	4.25
07/03/2012	1.54	1.44	0.45	0.44	0.39	0.37	0.38	12.24	10.35	10.26	9.98	4.51
07/04/2012	1.77	1.41	0.52	0.44	0.42	0.37	0.34	12.27	10.76	10.46	10.31	5.14
07/05/2012	1.85	1.39	0.54	0.43	0.43	0.36	0.33	12.39	10.93	10.27	10.20	4.63
07/06/2012	1.60	1.37	0.51	0.43	0.33	0.34	0.38	12.23	10.70	10.46	10.00	3.91
07/07/2012	1.49	1.36	0.51	0.43	0.28	0.33	0.41	12.07	10.60	10.15	10.00	3.78
07/08/2012	1.48	1.37	0.53	0.44	0.29	0.33	0.41	11.95	10.61	10.17	10.00	4.29
07/09/2012	1.38	1.39	0.53	0.45	0.22	0.32	0.46	11.76	10.35	9.94	9.92	3.92
07/10/2012	1.30	1.41	0.50	0.46	0.21	0.32	0.54	11.75	10.46	9.94	9.81	3.55
07/11/2012	1.38	1.44	0.53	0.47	0.20	0.32	0.55	12.00	10.36	9.93	9.90	3.78
07/12/2012	1.57	1.48	0.58	0.49	0.23	0.31	0.52	11.80	10.37	10.68	9.97	4.12
07/13/2012	1.74	1.52	0.64	0.51	0.29	0.31	0.43	11.62	10.47	10.61	9.95	4.54
07/14/2012	1.85	1.56	0.66	0.52	0.32	0.31	0.37	11.73	10.59	10.63	10.02	4.17
07/15/2012	1.94	1.60	0.71	0.55	0.34	0.31	0.34	11.87	10.57	10.84	9.96	4.68
07/16/2012	2.30	1.66	0.78	0.57	0.45	0.31	0.30	11.94	11.05	11.06	10.19	5.34
07/17/2012	2.15	1.70	0.72	0.59	0.45	0.32	0.31	12.34	11.28	10.92	9.96	4.73
07/18/2012	1.85	1.71	0.68	0.60	0.34	0.31	0.41	13.15	11.30	10.94	10.09	4.18
07/19/2012	1.78	1.70	0.73	0.61	0.35	0.31	0.54	13.44	10.85	10.83	10.21	4.18
07/20/2012	1.70	1.71	0.70	0.63	0.30	0.30	0.55	13.10	10.68	10.78	10.03	3.97
07/21/2012	1.62	1.72	0.69	0.64	0.27	0.30	0.53	12.80	10.64	10.61	10.16	3.89
07/22/2012	1.64	1.73	0.72	0.65	0.25	0.30	0.46	11.91	10.28	10.63	10.18	3.66
07/23/2012	1.77	1.76	0.78	0.67	0.25	0.30	0.42	11.71	9.79	10.68	9.91	4.51
07/24/2012	1.65	1.78	0.76	0.69	0.24	0.31	0.41	11.60	9.51	10.46	10.02	4.00
07/25/2012	1.58	1.80	0.74	0.71	0.21	0.31	0.45	11.73	8.94	10.55	9.94	3.85
07/26/2012	1.60	1.80	0.75	0.72	0.22	0.31	0.46	12.13	8.94	10.97	9.64	4.04
07/27/2012	1.57	1.79	0.74	0.72	0.22	0.30	0.46	12.17	9.01	11.01	10.09	3.87
07/28/2012	1.52	1.76	0.72	0.73	0.28	0.30	0.39	12.23	9.45	11.00	9.92	3.66
07/29/2012	1.47	1.73	0.69	0.73	0.30	0.29	0.38	12.10	9.75	10.95	9.98	2.79
07/30/2012	1.38	1.66	0.67	0.72	0.30	0.28	0.38	11.93	9.46	10.70	9.82	3.30
07/31/2012	1.38	1.61	0.66	0.72	0.32	0.27	0.35	11.53	10.33	10.73	10.04	3.68

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

## Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
07/02/2012	0.31	0.36	0.28	0.43	0.29	0.29	0.34	409	73	42	s
07/03/2012	0.31	0.36	0.28	0.38	0.29	0.27	0.33	422	62	45	s
07/04/2012	0.32	0.37	0.28	0.41	0.28	0.26	0.31	495	68	45 e	s
07/05/2012	0.33	0.37	0.28	0.43	0.28	0.25	0.30	518	74	47	s
07/06/2012	0.33	0.37	0.28	0.45	0.28	0.24	0.30	440	79	48	s
07/07/2012	0.34	0.38	0.29	0.46	0.27	0.24	0.29	404	82	48 e	s
07/08/2012	0.35	0.39	0.29	0.47	0.27	0.23	0.27	402	85	48 e	s
07/09/2012	0.36	0.39	0.30	0.48	0.27	0.23	0.27	369	88	29	s
07/10/2012	0.37	0.39	0.30	0.49	0.27	0.25	0.26	346	90	55	s
07/11/2012	0.38	0.40	0.31	0.50	0.28	0.26	0.10	368	91	52	s
07/12/2012	0.39	0.43	0.30	0.50	0.28	0.26	0.14	429	92	51	s
07/13/2012	0.41	0.45	0.31	0.51	0.29	0.26	0.26	483	94	52	s
07/14/2012	0.42	0.46	0.33	0.51	0.29	0.25	0.26	519	95	52 e	s
07/15/2012	0.44	0.49	0.35	0.51	0.29	0.25	0.27	549	95	52 e	s
07/16/2012	0.46	0.51	0.36	0.38	0.30	0.25	0.27	663	62	53	s
07/17/2012	0.47	0.51	0.36	0.31	0.30	0.25	0.28	615	44	53	s
07/18/2012	0.47	0.52	0.38	0.33	0.31	0.26	0.29	519	48	52	s
07/19/2012	0.48	0.54	0.41	0.36 e	0.31	0.26	0.28	496	59	52	s
07/20/2012	0.49	0.55	0.41	0.37 e	0.32	0.27	0.28	471	75	52	s
07/21/2012	0.49	0.54	0.41	0.37 e	0.33	0.29	0.29	448	78	52 e	s
07/22/2012	0.51	0.55	0.41	0.38 e	0.35	0.29	0.28	452	86	52 e	s
07/23/2012	0.53	0.59	0.43	0.38 e	0.36	0.28	0.29	494	74	54	s
07/24/2012	0.54	0.43	0.43	0.39	NR	0.28	0.31	455	63	53	s
07/25/2012	0.56	0.65	0.45	0.41	0.39	0.29	0.29	433	68	52	s
07/26/2012	0.57	0.66	0.47	0.41	0.39	0.29	0.27	439	70	53	s
07/27/2012	0.58	0.67	0.48	0.50	0.40	0.30	0.31	429	92	54	s
07/28/2012	0.57	0.67	0.49	0.66	0.41	0.31	0.33	414	134	54 e	s
07/29/2012	0.57	0.66	0.49	0.74	0.43	0.32	0.34	397	155	54 e	s
07/30/2012	0.55	0.65	0.47	0.58	0.45	0.33	0.36	370	115	59	s
07/31/2012	0.54	0.64	0.46	0.42	0.46	0.34	0.35	371	72	63	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter  
 Chloride (Cl) units: milligrams per liter  
 md : mean daily  
 NR : No Record  
 NC : Average not computed due to insufficient data  
 BR : Below Rating  
 e : estimated value  
 Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:  
 c = excess Delta conditions  
 b = balanced Delta cond. w/ no storage withdrawal  
 s = balanced Delta cond. w/ storage withdrawal  
 Excess Delta conditions with restrictions:  
 f = fish concerns  
 r = E/I ratio concerns

**Delta Water Quality Conditions****South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
07/02/2012	0.44	0.40	0.42	0.51	0.51	0.65	0.41	0.44
07/03/2012	0.46	0.40	0.42	0.51	0.50	0.65	0.49	0.44
07/04/2012	0.47	0.40	0.43	0.50	0.57	0.64	0.52	0.44
07/05/2012	0.46	0.40	0.43	0.50	0.59	0.63	0.54	0.45
07/06/2012	0.51	0.40	0.46	0.50	0.62	0.63	0.54	0.45
07/07/2012	0.51	0.40	0.49	0.49	0.66	0.63	0.56	0.45
07/08/2012	0.49	0.40	0.51	0.49	0.68	0.63	0.59	0.45
07/09/2012	0.54	0.41	0.53	0.49	0.66	0.63	0.62	0.46
07/10/2012	0.59	0.41	0.56	0.49	0.70	0.63	0.63	0.46
07/11/2012	0.54 e	0.42	0.59	0.49	0.76	0.63	0.60	0.46
07/12/2012	0.51 e	0.42	0.56	0.48	0.76	0.63	0.66	0.47
07/13/2012	0.58	0.42	0.53	0.48	0.74	0.63	0.67	0.48
07/14/2012	0.60	0.43	0.53	0.48	0.77	0.63	0.67	0.48
07/15/2012	0.57	0.43	0.54	0.48	0.81	0.63	0.64	0.49
07/16/2012	0.54	0.44	0.58	0.48	0.77	0.63	0.66	0.49
07/17/2012	0.59	0.44	0.59	0.48	0.74	0.63	0.68	0.50
07/18/2012	0.57	0.45	0.60	0.48	0.76	0.63	0.65	0.50
07/19/2012	0.52	0.46	0.60	0.49	0.76	0.64	0.66	0.51
07/20/2012	0.57	0.46	0.61	0.49	0.77	0.64	0.68	0.52
07/21/2012	0.52	0.47	0.61	0.50	0.78	0.64	0.65	0.53
07/22/2012	0.53	0.47	0.61	0.50	0.77	0.65	0.65	0.54
07/23/2012	0.54	0.48	0.62	0.51	0.75	0.66	0.66	0.55
07/24/2012	0.56	0.49	0.64	0.51	0.74	0.66	0.64	0.55
07/25/2012	0.51	0.49	0.64	0.52	0.77	0.67	0.64	0.56
07/26/2012	0.48	0.50	0.64	0.53	0.79	0.68	0.64	0.57
07/27/2012	0.50	0.50	0.64	0.54	0.80	0.69	0.67	0.59
07/28/2012	0.53	0.51	0.64	0.54	0.79	0.70	0.64	0.60
07/29/2012	0.50	0.52	0.64	0.55	0.79	0.70	0.61	0.60
07/30/2012	0.49	0.52	0.64	0.56	0.76	0.71	0.62	0.61
07/31/2012	0.52	0.52	0.64	0.57	0.72	0.72	0.63	0.62

Electrical Conductivity (EC) units: milliSiemens per Centimeter

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