

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh
Sunday, April 29, 2012

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	5 %
Vernalis Base Flow : Monthly average *	>= 1,140 cfs	2,486 cfs
7 Day average *	>= 912 cfs	2,405 cfs
Habitat Protection, X2 / Flow		
26 days as carryover from March	30 days at Chipps Island	29 day

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	93 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	46 mg/l
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	1.2 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 : In
Boat Lock Status : Open

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

Previous Month's Index (8RI for Mar.): 3.045 MAF
Water Year Type: Dry
Sacramento valley water year type index (40/30/30) @ 50%: 6.4 MAF (Dry)
San Joaquin valley water year type index (60/20/20) @ 75%: 1.9 MAF (Critical)

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
03/31/2012	6.02	4.69	34,298	11.84	4.33	3.18	0.46	0.32	0.46	0.20	0.20
04/01/2012	5.37	4.17	40,091	9.24	2.21	2.79	0.34	0.23	0.32	0.20	0.17
04/02/2012	5.08	3.68	37,380	6.80	1.26	2.62	0.26	0.17	0.29	0.18	0.17
04/03/2012	5.45	3.94	33,881	8.64	1.66	2.58	0.25	0.16	0.27	0.18	0.17
04/04/2012	5.69	3.98	33,972	8.25	1.68	2.58	0.25	0.16	0.26	0.19	0.17
04/05/2012	5.60	3.82	30,936	6.86	1.03	2.54	0.24	0.16	0.26	0.18	0.18
04/06/2012	5.69	3.65	26,538	6.35	1.02	2.49	0.25	0.16	0.25	0.17	0.18
04/07/2012	5.84	3.76	24,274	6.99	1.15	2.40	0.27	0.17	0.24	0.18	0.18
04/08/2012	6.22	4.06	21,280	9.27	1.94	2.36	0.34	0.23	0.24	0.18	0.18
04/09/2012	6.43	4.29	19,141	10.07	2.54	2.33	0.41	0.28	0.24	0.19	0.18
04/10/2012	6.69	4.45	18,158	10.94	3.14	2.27	0.49	0.34	0.24	0.19	0.18
04/11/2012	6.52	4.38	17,515	10.67	3.36	2.21	0.59	0.42	0.24	0.19	0.18
04/12/2012	6.23	4.33	17,474	10.18	3.39	2.23	0.54	0.38	0.24	0.19	0.19
04/13/2012	6.14	4.59	23,399	8.95	2.94	2.26	0.48	0.34	0.25	0.19	0.19
04/14/2012	5.56	4.14	35,041	6.02	1.52	2.06	0.30	0.20	0.24	0.19	0.19
04/15/2012	5.33	3.90	42,542	4.43	0.74	1.96	0.25	0.16	0.24	0.20	0.19
04/16/2012	5.41	3.86	44,838	4.75	0.52	1.90	0.23	0.15	0.24	0.20	0.19
04/17/2012	5.46	3.88	42,257	5.32	0.59	1.83	0.22	0.14	0.24	0.18	0.19
04/18/2012	5.67	3.96	32,892	6.42	0.82	1.76	0.22	0.14	0.24	0.17	0.19
04/19/2012	5.74	3.91	25,304	6.35	0.85	1.75	0.22	0.14	0.23	0.17	0.19
04/20/2012	5.67	3.88	22,172	6.57	1.08	1.76	0.22	0.14	0.23	0.18	0.19
04/21/2012	5.85	4.04	20,889	8.39	1.90	1.81	0.24	0.16	0.23	0.18	0.19
04/22/2012	6.10	4.40	21,490	9.49	2.75	1.87	0.33	0.22	0.23	0.19	0.19
04/23/2012	6.57	4.74	21,041	11.48	3.83	1.96	0.56	0.40	0.24	0.20	0.19
04/24/2012	6.30	4.36	20,240	8.93	2.22	1.89	0.34	0.23	0.23	0.20	0.19
04/25/2012	6.06	4.41	22,763	8.89	2.16	1.81	0.32	0.21	0.22	0.20	0.19
04/26/2012	6.19	4.51	27,263	8.51	2.28	1.73	0.34	0.23	0.20	0.20	0.19
04/27/2012	5.40	3.98	28,259	6.40	0.97	1.59	0.25	0.16	0.19	0.20	0.19
04/28/2012	5.07	3.95	32,043	5.93	0.89	1.54	0.24	0.16	0.19	0.19	0.19
04/29/2012	5.20	4.04	35,452	7.82	1.70	1.61	0.24	0.16	0.19	0.17	0.19

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
03/31/2012	0.25	0.34	0.24	0.27	0.18	0.16	0.59	3.49	2.32	3.52	3.80	0.21
04/01/2012	0.25	0.31	0.23	0.26	0.17	0.16	0.67	3.94	1.87	3.38	3.77	0.21
04/02/2012	0.25	0.29	0.23	0.25	0.17	0.16	0.67	4.52	2.91	3.45	3.65	0.18
04/03/2012	0.24	0.28	0.23	0.25	0.17	0.16	0.72	3.35	3.43	3.34	3.69	0.17
04/04/2012	0.23	0.27	0.22	0.24	0.16	0.16	0.79	NC	3.40	3.11	3.58	0.19
04/05/2012	0.23	0.26	0.22	0.24	0.16	0.16	0.84	NC	3.17	3.02	3.42	0.18
04/06/2012	0.23	0.26	0.22	0.24	0.16	0.16	0.87	NC	3.15	2.86	3.21	0.17
04/07/2012	0.23	0.25	0.22	0.23	0.16	0.16	0.79	NC	2.84	2.53	3.05	0.18
04/08/2012	0.22	0.25	0.22	0.23	0.16	0.16	0.88	NC	2.48	2.17	2.52	0.18
04/09/2012	0.22	0.24	0.22	0.23	0.17	0.17	0.88	NC	2.15	1.99	2.20	0.19
04/10/2012	0.23	0.24	0.22	0.23	0.17	0.17	0.86	NC	1.94	1.84	2.12	0.19
04/11/2012	0.24	0.24	0.22	0.23	0.17	0.17	0.87	NC	2.05	1.96	2.17	0.21
04/12/2012	0.24	0.24	0.22	0.22	0.18	0.17	0.81	NC	2.30	2.07	2.21	0.20
04/13/2012	0.24	0.24	0.22	0.22	0.18	0.17	0.43	NC	1.30	2.29	2.34	0.20
04/14/2012	0.23	0.24	0.23	0.22	0.18	0.17	0.33	N	1.81	2.39	2.66	0.19
04/15/2012	0.23	0.23	0.24	0.22	0.18	0.17	0.47	NC	1.71	2.47	2.77	0.20
04/16/2012	0.23	0.23	0.24	0.22	0.17	0.17	0.60	N	2.21	2.51	2.82	0.20
04/17/2012	0.23	0.23	0.25	0.22	0.16	0.17	0.68	NC	2.54	2.46	2.77	0.19
04/18/2012	0.23	0.23	0.25	0.23	0.16	0.17	0.76	NC	2.51	2.29	2.67	0.18
04/19/2012	0.23	0.23	0.25	0.23	0.17	0.17	0.81	NC	2.44	2.18	2.52	0.18
04/20/2012	0.23	0.23	0.26	0.23	0.17	0.17	0.83	N	2.33	2.11	2.49	0.18
04/21/2012	0.23	0.23	0.26	0.23	0.17	0.17	0.86	NC	2.17	1.96	2.26	0.18
04/22/2012	0.23	0.23	0.26	0.24	0.18	0.17	0.87	NC	1.93	1.81	2.08	0.19
04/23/2012	0.23	0.23	0.25	0.24	0.18	0.17	0.82	NC	1.78	1.56	1.81	0.20
04/24/2012	0.24	0.23	0.26	0.24	0.19	0.17	0.78	2.02	1.84	1.70	2.00	0.21
04/25/2012	0.24	0.23	0.26	0.25	0.19	0.17	0.77	2.14	2.00	1.88	2.04	0.20
04/26/2012	0.24	0.23	0.26	0.25	0.19	0.18	0.77	2.58	2.00	1.94	2.10	0.21
04/27/2012	0.24	0.23	0.26	0.25	0.18	0.18	0.77	3.49	2.08	2.05	2.17	0.20
04/28/2012	0.25	0.23	0.26	0.25	0.18	0.18	0.81	3.41	2.11	2.09	2.17	0.20
04/29/2012	0.24	0.24	0.26	0.25	0.17	0.17	0.81	3.23	2.07	2.06	2.14	0.18

Electrical Conductivity (EC) units: milliSiemens per Centimeter
 Chloride (Cl) units: milligrams per liter
 mht : mean high tides
 md : mean daily
 NR : No Record
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 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
03/31/2012	0.25	0.35	0.30	0.36	0.36	0.54	0.70	11	55	49 e	f
04/01/2012	0.27	0.35	0.29	0.34	0.36	0.51	0.60	10	51	49 e	f
04/02/2012	0.27	0.34	0.29	0.35	0.36	0.59	0.77	8	53	48	f
04/03/2012	0.26	0.34	0.28	0.34	0.36	0.53	0.72	6	51	47	f
04/04/2012	0.26	0.33	0.28	0.34	0.36	0.50	0.64	4	50	48	f
04/05/2012	0.26	0.31	0.27	0.40	0.37	0.51	0.64	4	66	47	f
04/06/2012	0.25	0.31	0.27	0.41	0.37	0.57	0.67	3	69	48	f
04/07/2012	0.24	0.31	0.27	0.35	0.37	0.55	0.68	2	52	48 e	f
04/08/2012	0.23	0.30	0.27	0.37	0.37	0.53	0.64	1	58	48 e	f
04/09/2012	0.23	0.30	0.26	0.35	0.37	0.53	0.60	2	54	49	f
04/10/2012	0.23	0.30	0.26	0.35	0.36	0.49	0.56	3	53	49	f
04/11/2012	0.22	0.30	0.26	0.36	0.37	0.48	0.54	6	56	48	f
04/12/2012	0.22	0.30	0.27	0.34	0.37	0.46	0.52	7	52	48	f
04/13/2012	0.22	0.30	0.28	0.36	0.36	0.43	0.51	7	56	47	f
04/14/2012	0.24	0.31	0.29	0.38	0.36	0.46	0.50	5	60	47 e	f
04/15/2012	0.23	0.32	0.29	0.36	0.36	0.47	0.50	3	54	47 e	f
04/16/2012	0.24	0.32	0.29	0.36	0.36	0.46	0.48	3	55	48	f
04/17/2012	0.24	0.33	0.30	0.35	0.36	0.47	0.48	3	54	48	f
04/18/2012	0.25	0.32	0.31	0.42	0.37	0.48	0.49	4	72	49	f
04/19/2012	0.26	0.32	0.32	0.50	0.37	0.49	0.51	4	92	48	f
04/20/2012	0.26	0.32	0.31	0.54	0.38	0.51	0.53	4	103	49	f
04/21/2012	0.26	0.32	0.31	0.58	0.38	0.52	0.52	3	113	49 e	f
04/22/2012	0.26	0.32	0.31	0.61	0.37	0.52	0.51	3	121	49 e	f
04/23/2012	0.28	0.31	0.30	0.63	0.36	0.50	0.52	3	127	47	f
04/24/2012	0.28	0.31	0.31	0.64	0.35	0.52	0.52	6	130	47	f
04/25/2012	0.27	0.31	0.30	0.65	0.35	0.52	0.54	6	133	47	f
04/26/2012	0.27	0.31	0.30	0.67	0.34	0.52	0.54	6	137	44	f
04/27/2012	0.29	0.32	0.31	0.67	0.35	0.53	0.54	8	138	46	f
04/28/2012	0.29	0.32	0.31	0.68	0.35	0.51	0.55	9	140	46 e	f
04/29/2012	0.28	0.32	0.30	0.64	0.36	0.52	0.54	7	128	46 e	f

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
03/31/2012	0.88	0.87	0.97	0.96	1.04	1.09	0.95	0.92
04/01/2012	0.86	0.87	0.98	0.96	1.12	1.09	0.95	0.92
04/02/2012	0.84	0.87	0.99	0.96	1.18	1.09	0.96	0.92
04/03/2012	0.78	0.86	0.96	0.96	1.22	1.09	0.95	0.92
04/04/2012	0.66	0.85	0.94	0.96	1.18	1.09	0.93	0.92
04/05/2012	0.59	0.84	0.85	0.95	1.12	1.08	0.85	0.91
04/06/2012	0.52	0.83	0.72	0.94	1.14	NC	0.73	0.90
04/07/2012	0.44	0.81	0.64	0.93	1.18	NC	0.65	0.89
04/08/2012	0.41	0.79	0.54	0.91	1.18	NC	0.55	0.88
04/09/2012	0.38	0.78	0.50	0.89	1.18	1.08	0.49	0.86
04/10/2012	0.39	0.76	0.46	0.87	1.15	1.08	0.45	0.84
04/11/2012	0.39	0.74	0.47	0.86	1.15	1.08	0.45	0.83
04/12/2012	0.38	0.73	0.46	0.84	1.22	1.08	0.43	0.81
04/13/2012	0.40	0.71	0.45	0.82	1.25	1.08	0.42	0.80
04/14/2012	0.40	0.70	0.47	0.80	1.28	1.09	0.43	0.78
04/15/2012	0.42	0.69	0.48	0.79	1.33	1.10	0.47	0.77
04/16/2012	0.46	0.68	0.51	0.78	1.35	1.11	0.46	0.76
04/17/2012	0.34	0.66	0.56	0.77	1.36	1.12	0.53	0.75
04/18/2012	0.37	0.65	0.42	0.75	1.37	1.14	0.45	0.74
04/19/2012	0.45	0.64	0.45	0.74	1.37	1.15	0.42	0.72
04/20/2012	0.46	0.62	0.51	0.73	1.38	1.16	0.48	0.71
04/21/2012	0.43	0.61	0.53	0.72	1.32	1.17	0.52	0.70
04/22/2012	0.41	0.59	0.49	0.70	1.25	1.18	0.50	0.69
04/23/2012	0.40	0.58	0.46	0.68	1.17	1.19	0.47	0.67
04/24/2012	0.40	0.56	0.46	0.67	1.16	1.19	0.45	0.66
04/25/2012	0.41	0.55	0.46	0.65	1.22	1.20	0.43	0.64
04/26/2012	0.39	0.53	0.48	0.64	1.26	1.21	0.44	0.62
04/27/2012	0.38	0.51	0.46	0.62	1.30	1.22	0.42	0.61
04/28/2012	0.38	0.50	0.44	0.60	1.32	1.23	0.43	0.59
04/29/2012	0.36	0.48	0.45	0.58	1.29	1.23	0.44	0.57

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