

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh
Tuesday, June 23, 2009

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	18 %
Vernalis Base Flow : Monthly average *	>= 2108 cfs	1,269 cfs
7 Day average *	>= 1686 cfs	1,084 cfs
Habitat Protection, X2 / Flow	24 days at Chipps Island (21 days c/o from May)	9 days
	30 days at Collinsville	23 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	174 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	22 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.33 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.24 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<= 0.7 mS/cm	0.4 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.5 mS/cm
Old River Near Tracy	<= 0.7 mS/cm	0.7 mS/cm
Old River Near Middle River	<= 0.7 mS/cm	0.5 mS/cm

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2009)

Previous Month's Index (8RI for May) : 4.1 MAF
 Water Year Type: Dry
 Sacramento valley water year type index (40/30/30) @ 50% : 5.5 MAF (Dry)
 San Joaquin valley water year type index (60/20/20) @ 75% : 2.4 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:
 #xxx: where # is number of gates operating and xxx is one of the following
 FTF - full tide operation
 OPN - open always
 FTP - full tide partial operation
 CLO - closed always
 1C/2O - 1 gate closed always; 2 gates operating
 1C/1F/1O - 1 gate closed; 1 full tide; 1 open

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
 * 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.

*SLDMWA-1
6-25-09 offered/accepted*

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
05/25/2009	7.08	4.70	10,451	20.69	5.49	6.69	4.39	3.87	1.88	1.72	0.71
05/26/2009	7.18	4.75	10,482	20.75	3.35	6.64	4.25	3.73	2.12	1.89	0.83
05/27/2009	7.08	4.77	10,651	20.22	3.05	6.64	4.11	3.59	2.35	1.88	0.95
05/28/2009	6.97	4.92	11,686	20.23	2.58	6.56	4.34	3.82	2.60	1.82	1.06
05/29/2009	6.58	4.79	10,498	19.67	5.36	6.70	4.20	3.68	2.85	1.69	1.17
05/30/2009	6.12	4.60	10,452	19.19	9.98	7.15	3.60	3.10	3.05	1.56	1.27
05/31/2009	6.03	4.41	11,192	17.69	8.42	7.38	3.03	2.57	3.18	1.23	1.34
06/01/2009	6.19	4.32	10,417	17.59	8.30	7.42	2.81	2.36	3.22	0.98	1.38
06/02/2009	6.28	4.29	10,571	17.62	8.58	7.35	2.61	2.18	3.20	0.92	1.39
06/03/2009	6.34	4.36	10,460	18.10	9.34	7.36	2.92	2.46	3.22	0.97	1.42
06/04/2009	6.58	4.39	10,511	19.55	9.82	7.38	3.30	2.82	3.24	1.08	1.44
06/05/2009	6.40	4.32	10,097	19.56	10.04	7.39	3.31	2.83	3.20	1.07	1.42
06/06/2009	6.37	4.35	10,234	19.59	10.03	7.41	3.22	2.74	3.12	1.15	1.39
06/07/2009	6.57	4.51	10,325	19.39	11.01	7.52	3.61	3.11	3.06	1.30	1.38
06/08/2009	6.67	4.62	10,734	20.00	11.21	7.93	3.88	3.37	3.03	1.39	1.35
06/09/2009	6.67	4.67	11,190	20.00	10.81	8.47	3.81	3.30	3.00	1.27	1.31
06/10/2009	6.47	4.55	10,921	18.92	9.88	8.95	3.18	2.71	2.93	1.11	1.25
06/11/2009	6.32	4.49	10,407	18.28	9.49	9.45	2.93	2.47	2.84	0.99	1.19
06/12/2009	5.94	4.35	9,226	17.97	8.82	9.69	2.66	2.23	2.73	0.85	1.13
06/13/2009	5.58	4.26	8,037	17.35	8.47	9.59	2.56	2.13	2.66	0.78	1.08
06/14/2009	5.49	4.11	7,327	16.58	8.26	9.57	2.50	2.08	2.63	0.70	1.04
06/15/2009	5.68	4.09	7,198	17.30	8.55	9.59	2.66	2.22	2.62	0.72	1.02
06/16/2009	6.07	4.16	6,462	17.78	10.05	9.70	3.08	2.61	2.65	0.89	1.02
06/17/2009	6.25	4.23	5,877	20.32	12.04	9.89	3.77	3.27	2.71	1.19	1.04
06/18/2009	6.57	4.31	5,062	21.61	12.51	10.08	4.36	3.84	2.78	1.73	1.08
06/19/2009	6.47	NR	4,893	22.26	14.19	10.38	6.08	5.54	2.97	2.65	1.20
06/20/2009	NR	NR	4,648	24.94	16.15	10.82	6.75	6.22	3.22	2.98	1.33
06/21/2009	NR	NR	5,358	23.50	15.01	11.10	6.46	5.92	3.42	3.01	1.45
06/22/2009	NR	NR	5,767	23.62	13.97	11.30	6.29	5.75	3.59	3.23	1.58
06/23/2009	NR	NR	5,484	24.11	12.66	11.43	6.71	6.18	3.80	3.88	1.77

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		
05/25/2009	0.61	0.33	0.21	0.20	0.28	0.18	0.47	8.58	6.39	6.22	5.44	1.95		
05/26/2009	0.67	0.37	0.22	0.20	0.31	0.19	0.47	8.61	6.63	6.73	5.92	2.26		
05/27/2009	0.70	0.40	0.22	0.20	0.29	0.20	0.46	8.70	6.83	6.89	6.04	2.35		
05/28/2009	0.72	0.43	0.23	0.21	0.30	0.21	0.45	8.59	6.52	6.79	5.86	2.38		
05/29/2009	0.66	0.47	0.23	0.21	0.31	0.22	0.45	13.22	6.89	6.84	5.87	2.54		
05/30/2009	0.59	0.49	0.22	0.21	0.32	0.23	0.43	17.96	6.81	6.88	5.68	2.35		
05/31/2009	0.49	0.51	0.21	0.21	0.28	0.24	0.43	18.06	6.62	6.67	5.43	1.69		
06/01/2009	0.47	0.53	0.21	0.21	0.25	0.25	0.43	18.24	6.67	6.83	5.72	1.46		
06/02/2009	0.52	0.55	0.22	0.21	0.23	0.25	0.42		NR	6.52	6.95	6.02	1.19	
06/03/2009	0.54	0.57	0.22	0.21	0.21	0.26	0.42		NR	6.53	7.02	6.16	1.41	
06/04/2009	0.57	0.58	0.23	0.22	0.23	0.26	0.43	10.03	6.56	7.05	6.46	1.43		
06/05/2009	0.59	0.59	0.24	0.22	0.23	0.26	0.44	9.96	6.59	7.15	6.30	1.51		
06/06/2009	0.56	0.59	0.23	0.22	0.23	0.26	0.42	9.88	6.43	7.05	6.46	1.44		
06/07/2009	0.61	0.59	0.24	0.22	0.26	0.27	0.40	9.85	6.28	6.86	5.98	1.73		
06/08/2009	0.61	0.59	0.24	0.23	0.29	0.27	0.40	9.79	6.13	6.92	6.18	1.71		
06/09/2009	0.64	0.59	0.24	0.23	0.29	0.27	0.38	9.07	6.19	6.92	6.51	1.75		
06/10/2009	0.59	0.58	0.24	0.23	0.24	0.26	0.39	8.28	6.12	6.91	6.43	1.53		
06/11/2009	0.53	0.57	0.23	0.23	0.23	0.26	0.40	8.21	6.02	6.78	6.28	1.41		
06/12/2009	0.50	0.56	0.23	0.23	0.22	0.25	0.42	8.16	6.04	6.61	6.16	1.31		
06/13/2009	0.47	0.55	0.22	0.23	0.23	0.24	0.41	8.17	6.04	6.59	6.21	1.03		
06/14/2009	0.44	0.55	0.22	0.23	0.22	0.24	0.41	8.08	6.06	6.52	6.10	1.08		
06/15/2009	0.42	0.54	0.21	0.23	0.22	0.24	0.44	8.09	6.04	6.39	6.19	1.18		
06/16/2009	0.43	0.54	0.22	0.23	0.22	0.24	0.44	7.95	6.78	6.36	6.12	1.77		
06/17/2009	0.49	0.53	0.22	0.23	0.22	0.24	0.44	7.87		NC	6.40	6.09	2.28	
06/18/2009	0.57	0.53	0.23	0.23	0.25	0.24	0.47	8.01		NR	6.56	6.06	2.97	
06/19/2009		NR	0.53	0.24	0.23	0.33	0.25	0.45	9.25		NR	6.93	6.31	NR
06/20/2009		NR	0.52	0.27	0.23	0.48	0.27	0.43	10.16	6.99	7.65	6.58		NR
06/21/2009		NR	0.52	0.26	0.23	0.53	0.28	0.45	11.36	7.30	7.91	6.96		NR
06/22/2009		NR	0.51	0.28	0.24	0.51	0.30	0.48	11.33	8.65	8.53	7.76		NR
06/23/2009		NR	0.49	0.32	0.24	0.67	0.33	0.46	11.40	9.42	9.31	8.24		NR

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
05/25/2009	0.19	0.24	0.21	0.24	0.43	0.35	0.39	125	23	27	f
05/26/2009	0.19	0.24	0.21	0.24	0.39	0.36	0.39	144	23	48	f
05/27/2009	0.19	0.24	0.21	0.23	0.36	0.35	0.40	153	22	42	f
05/28/2009	0.19	0.24	0.21	0.23	0.35	NC	0.40	160	22	37	f
05/29/2009	0.20	0.23	0.21	0.23	0.32	0.37 e	0.40	139	23	25	f
05/30/2009	0.20	0.23	0.21	0.24	0.31	0.39	0.41	117	23	28	f
05/31/2009	0.19	0.23	0.21	0.24	0.31	0.42	0.40	86	25	27	s
06/01/2009	0.20	0.23	0.21	0.25	0.30	0.42	0.45	81	26	25	s
06/02/2009	0.20	0.23	0.21	0.24	0.28	0.40	0.47	97	25	25	s
06/03/2009	0.20	0.23	0.21	0.24	0.28	0.41	0.45	101	24	25	s
06/04/2009	0.20	0.22	0.21	0.24	0.28	0.40	0.44	112	23	25	s
06/05/2009	0.19	0.22	0.21	0.23	0.28	0.39	0.44	117	22	25	s
06/06/2009	0.19	0.22	0.21	0.23	0.28	0.40	0.43	108	22	27	s
06/07/2009	0.19	0.21	0.21	0.23	0.27	0.40	0.43	124	21	27	s
06/08/2009	0.20	0.20	0.21	0.23	0.27	0.40	0.44	125	21	26	s
06/09/2009	0.20	0.19	0.21	0.22	0.27	0.41	0.44	135	20	25	s
06/10/2009	0.20	0.18	0.21	0.23	0.27	0.46	0.46	118	20	25	s
06/11/2009	0.20	0.18	0.21	0.23	0.27	0.46	0.47	99	21	24	s
06/12/2009	0.20	0.17	0.21	0.23	0.27	0.49	0.48	88	20	24	s
06/13/2009	0.20	0.17	0.21	0.22	0.27	0.45	0.48	79	20	42	s
06/14/2009	0.20	0.16	0.21	0.23	0.27	0.46	0.49	69	21	42	s
06/15/2009	0.20	0.17	0.21	0.23	0.27	0.47	0.50	64	21	25	s
06/16/2009	0.20	0.16	0.21	0.23	0.27	0.44	0.49	68	21	25	s
06/17/2009	0.20	0.16	0.21	0.23	0.27	0.40	0.46	85	21	25	s
06/18/2009	0.20	0.16	0.21	0.22	0.27	0.33	0.43	111	20	25	s
06/19/2009	0.20	0.16	0.21	0.22	0.27	0.32	0.39	NR	19	24	s
06/20/2009	0.20	0.15	0.20	0.21	0.27	0.31	0.37	NR	17	29	s
06/21/2009	0.20	0.14	0.21	0.21	0.26	0.32	0.37	NR	17	25	s
06/22/2009	0.20	0.14	0.21	0.22	0.26	0.35	0.39	NR	18	24	s
06/23/2009	0.20	0.14	0.20	0.21	0.26	0.32	0.37	NR	17	22	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
05/25/2009	0.32	0.30	0.32	0.34	0.57	0.52	0.37	0.36
05/26/2009	0.31	0.30	0.33	0.34	0.61	0.52	0.39	0.36
05/27/2009	0.32	0.30	0.35	0.34	0.56	0.52	0.42	0.36
05/28/2009	0.34	0.30	0.36	0.34	0.61	0.52	0.41	0.36
05/29/2009	0.34	0.30	0.38	0.34	0.68	0.53	0.42	0.36
05/30/2009	0.35	0.30	0.39	0.34	0.59	0.53	0.44	0.36
05/31/2009	0.34	0.30	0.40	0.34	0.60	0.53	0.44	0.37
06/01/2009	0.34	0.30	0.41	0.35	0.61	0.53	0.44	0.37
06/02/2009	0.36	0.30	0.42	0.35	0.62	0.53	0.44	0.37
06/03/2009	0.38	0.31	0.42	0.35	0.61	0.53	0.44	0.37
06/04/2009	0.42	0.31	0.43	0.35	0.64	0.53	0.46	0.38
06/05/2009	0.43	0.31	0.43	0.35	0.69	0.54	0.47	0.38
06/06/2009	0.46	0.32	0.44	0.35	0.71	0.54	0.52	0.38
06/07/2009	0.45	0.32	0.45	0.36	0.74	0.55	0.55	0.39
06/08/2009	0.45	0.32	0.47	0.36	0.77	0.56	0.58	0.39
06/09/2009	0.45	0.33	0.51	0.37	0.76	0.57	0.57	0.40
06/10/2009	0.46	0.34	0.53	0.37	0.73	0.58	0.55	0.41
06/11/2009	0.47	0.34	0.54	0.38	0.74	0.58	0.58	0.42
06/12/2009	0.48	0.35	0.54	0.39	0.75	0.59	0.58	0.42
06/13/2009	0.49	0.36	0.55	0.39	0.77	0.61	0.60	0.43
06/14/2009	0.49	0.37	0.56	0.40	0.81	0.62	0.61	0.44
06/15/2009	0.52	0.37	0.57	0.41	0.82	0.63	0.64	0.45
06/16/2009	0.55	0.38	0.59	0.42	0.87	0.64	0.64	0.47
06/17/2009	0.56	0.39	0.60	0.43	0.88	0.66	0.64	0.48
06/18/2009	0.56	0.40	0.60	0.44	0.85	0.67	0.68	0.49
06/19/2009	0.60	0.41	0.59	0.45	0.89	0.68	0.71	0.50
06/20/2009	0.56	0.42	0.59	0.46	0.91	0.69	0.71	0.51
06/21/2009	0.51	0.43	0.59	0.47	0.95	0.71	0.71	0.52
06/22/2009	0.49	0.44	0.60	0.48	0.94	0.73	0.75	0.54
06/23/2009	0.46	0.44	0.61	0.49	0.90	0.74	0.70	0.55

Electrical Conductivity (EC) units: milliSiemens per Centimeter
 md : mean daily
 NR : No Record
 NC : Average not computed due to insufficient data
 BR : Below Rating
 e : estimated value