

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh
Tuesday, January 28, 2014

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	12 %
NDOI, monthly average *	>= 4,500 cfs	4,994 cfs
NDOI, 7 day average*	>= 3,500 cfs	4,592 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	155 days	28 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	138 mg/l

Maximum 30 day running average of mean daily EC at:

Vernalis	<=1.0 mS/cm	1.0 mS/cm
Brandt Bridge	<=1.0 mS/cm	1.0 mS/cm
Old River Near Tracy	<=1.0 mS/cm	1.3 mS/cm
Old River Near Middle River	<=1.0 mS/cm	1.0 mS/cm

SUISUN MARSH:

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

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, Jan 1, 2014)

Previous Month's Index (8RI for Dec): 0.380 MAF

Water Year Type: Critical

Sacramento valley water year type index (40/30/30) @ 50%: 4.5 MAF (Critical)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.2 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:

(Note: below label begins on October 1, 2013)

c = excess Delta conditions

b = balanced Delta conditions

r = excess Delta conditions with restrictions:

* 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
12/30/2013	6.31	3.95	5,086	29.55	17.19	16.63	15.64	15.73	13.66	10.77	8.92
12/31/2013	6.44	4.00	5,337	29.66	17.12	16.53	15.63	15.72	13.80	11.24	9.08
01/01/2014	6.46	4.03	5,591	29.47	17.62	16.57	15.82	15.93	13.88	11.38	9.16
01/02/2014	6.29	3.97	5,645	28.94	17.53	16.47	15.52	15.60	13.92	10.99	9.15
01/03/2014	6.21	4.04	5,818	29.15	17.37	16.42	15.56	15.64	14.03	10.99	9.26
01/04/2014	5.95	4.08	5,633	28.69	16.98	16.40	15.52	15.59	14.20	10.94	9.43
01/05/2014	5.43	3.88	5,862	27.87	16.39	16.41	14.73	14.72	14.34	10.08	9.59
01/06/2014	5.34	3.68	6,022	26.82	14.97	16.43	13.90	13.81	14.49	9.33	9.72
01/07/2014	5.49	3.64	5,835	26.58	14.83	16.44	13.82	13.72	14.61	9.30	9.87
01/08/2014	5.64	3.63	5,411	26.20	13.93	16.37	13.62	13.50	14.72	9.42	10.04
01/09/2014	5.67	3.57	5,616	26.07	12.93	16.21	13.49	13.36	14.78	9.18	10.16
01/10/2014	5.58	3.49	5,110	26.46	12.25	15.95	13.17	13.01	14.75	8.45	10.14
01/11/2014	5.74	3.61	4,909	26.74	11.58	15.55	13.61	13.49	14.65	8.94	10.08
01/12/2014	5.67	3.64	4,292	26.57	10.88	15.11	13.41	13.28	14.51	9.58	10.04
01/13/2014	5.45	3.41	5,222	26.50	10.94	14.66	12.64	12.43	14.27	8.52	9.88
01/14/2014	5.53	4.09	4,702	27.86	10.34	14.18	13.37	13.23	14.09	8.59	9.69
01/15/2014	5.49	3.53	4,548	27.09	17.85	14.20	13.19	13.03	13.89	8.93	9.52
01/16/2014	5.61	4.16	4,799	28.74	23.64	14.63	14.23	14.17	13.78	9.47	9.41
01/17/2014	5.53	3.73	4,596	27.90	25.46	15.21	14.24	14.18	13.68	9.63	9.31
01/18/2014	5.54	3.78	4,584	27.86	26.22	15.87	14.47	14.44	13.60	10.07	9.25
01/19/2014	5.30	3.74	4,357	27.69	26.65	16.60	14.63	14.61	13.59	10.04	9.25
01/20/2014	5.05	3.68	4,468	27.86	26.94	17.46	14.55	14.52	13.64	9.79	9.28
01/21/2014	4.93	3.55	4,675	27.20	26.43	18.29	14.08	14.01	13.66	9.44	9.29
01/22/2014	5.10	3.54	4,539	27.46	26.97	19.22	14.39	14.35	13.72	9.52	9.30
01/23/2014	5.47	3.64	4,226	28.31	27.75	20.28	14.89	14.90	13.83	9.72	9.34
01/24/2014	5.70	3.70	4,391	27.80	28.78	21.46	15.00	15.02	13.97	9.91	9.44
01/25/2014	5.78	3.74	4,379	28.51	29.36	22.73	15.30	15.35	14.11	10.82	9.57
01/26/2014	6.10	3.97	4,587	29.71	30.55	24.13	16.19	16.34	14.33	11.51	9.71
01/27/2014	6.32	4.07	4,786	29.50	31.44	25.60	17.13	17.40	14.68	12.92	10.03
01/28/2014	6.29	3.99	5,235	29.76	31.08	27.08	16.54	16.73	14.93	12.58	10.31

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
12/30/2013	7.41	6.15	2.38	1.88	3.99	2.75	0.73	18.03	11.55	12.76	10.52	13.49
12/31/2013	7.64	6.26	2.55	1.94	4.25	2.85	0.70	18.35	11.58	13.66	11.66	13.87
01/01/2014	7.56	6.32	2.58	1.98	4.27	2.92	0.73	18.42	11.60	14.11	12.10	13.67
01/02/2014	7.20	6.35	2.39	2.00	4.00	3.00	0.70	18.22	11.47	13.58	12.23	12.85
01/03/2014	7.18	6.43	2.35	2.02	3.97	3.10	0.70	NR	11.41	13.75	12.26	13.09
01/04/2014	7.14	6.52	2.30	2.06	3.86	3.19	0.72	NR	11.35	13.25	11.92	13.08
01/05/2014	6.61	6.60	2.06	2.08	3.42	3.27	0.78	NR	11.18	12.66	11.42	12.03
01/06/2014	6.05	6.66	1.92	2.11	2.88	3.33	0.77	NR	11.04	12.14	11.24	11.05
01/07/2014	5.89	6.71	1.89	2.13	2.98	3.39	0.77	NR	11.25	11.98	11.03	11.42
01/08/2014	5.86	6.75	1.88	2.16	2.79	3.45	0.84	NR	11.58	11.86	10.77	11.38
01/09/2014	5.82	6.76	1.86	2.18	2.84	3.48	0.82	18.40	11.62	11.67	10.41	11.04
01/10/2014	5.62	6.72	1.80	2.17	2.52	3.47	0.76	18.90	11.41	11.61	10.29	10.52
01/11/2014	5.93	6.65	1.93	2.16	2.94	3.45	0.77	e	11.60	11.58	10.34	11.51
01/12/2014	5.77	6.55	1.81	2.12	2.73	3.39	0.70	e	e	11.30	10.28	11.00
01/13/2014	5.35	6.40	1.72	2.07	2.60	3.29	0.66	e	11.31	10.11	10.17	10.03
01/14/2014	5.58	6.25	1.79	2.02	2.97	3.20	0.66	e	e	10.22	10.26	9.50
01/15/2014	5.84	6.13	1.79	1.96	3.03	3.11	0.67	e	e	e	e	10.19
01/16/2014	6.32	6.07	1.92	1.93	3.51	3.07	0.65	16.28	11.23	12.01	10.51	10.67
01/17/2014	6.38	6.01	1.98	1.90	3.56	3.04	0.69	16.10	11.17	12.69	10.17	10.70
01/18/2014	6.51	5.96	2.02	1.88	3.68	3.03	0.70	16.04	11.12	12.00	9.84	11.38
01/19/2014	6.60	5.96	2.01	1.88	3.52	3.04	0.66	15.88	11.06	11.81	10.27	11.64
01/20/2014	6.56	6.00	1.95	1.88	3.63	3.09	0.74	15.94	11.01	11.70	10.34	11.08
01/21/2014	6.31	6.03	1.84	1.88	3.34	3.12	0.74	16.03	11.09	11.68	10.58	11.21
01/22/2014	6.50	6.08	1.92	1.88	3.51	3.17	0.70	16.01	11.25	12.02	10.87	12.13
01/23/2014	7.05	6.17	2.14	1.90	3.86	3.24	0.69	16.02	11.57	12.41	10.83	11.98
01/24/2014	7.48	6.30	2.40	1.94	4.08	3.35	0.67	16.16	11.72	12.60	10.87	13.23
01/25/2014	7.66	6.42	2.58	1.99	4.12	3.44	0.66	16.39	11.83	12.60	10.83	13.77
01/26/2014	8.24	6.60	3.00	2.07	4.80	3.59	0.63	16.67	12.17	12.80	11.09	13.97
01/27/2014	8.57	6.83	3.29	2.19	5.54	3.80	0.60	17.00	12.17	12.88	11.63	15.14
01/28/2014	8.27	7.02	3.14	2.28	5.39	3.97	0.55	17.13	12.04	12.93	12.03	14.48

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
12/30/2013	1.17	1.19	0.86	0.76	0.67	0.69	0.80	2,290	160	130	b
12/31/2013	1.21	1.23	0.87	0.76	0.67	0.70	0.80	2,363	161	128	b
01/01/2014	1.24	1.26	0.86	0.76	0.67	0.70	0.81	2,336	160	138	b
01/02/2014	1.27	1.26	0.88	0.76	0.68	0.74	0.82	2,225	161	130	b
01/03/2014	1.30	1.29	0.89	0.77	0.68	0.70	0.81	2,218	163	135	b
01/04/2014	1.32	1.29	0.91	0.78	0.68	0.72	0.80	2,204	166	127	b
01/05/2014	1.33	1.28	0.92	0.78	0.68	0.74	0.81	2,035	167	129	b
01/06/2014	1.33	1.27	0.92	0.79	0.68	0.77	0.85	1,855	168	129	b
01/07/2014	1.33	1.28	0.95	0.79	0.68	0.76	0.87	1,805	169	134	b
01/08/2014	1.34	1.29	0.97	0.81	0.68	0.77	0.85	1,795	174	134	b
01/09/2014	1.34	1.30	0.97	0.82	0.67	0.77	0.87	1,784	176	133	b
01/10/2014	1.33	1.32	0.98	0.82	0.68	0.76	0.87	1,721	178	134	b
01/11/2014	1.31	1.34	1.00	0.84	0.69	0.76	0.88	1,817	181	134 e	b
01/12/2014	1.30	1.35	1.02	0.84	0.68	0.74	0.84	1,768	183	134 e	b
01/13/2014	1.25	1.33	1.02	0.85	0.69	0.76	0.85	1,632	185	135	b
01/14/2014	1.22	1.33	1.03	0.86	0.69	0.76	0.86	1,706	187	134	b
01/15/2014	1.20	1.32	1.02	0.88	0.70	0.76	0.81	1,790	192	133	b
01/16/2014	1.18	1.31	1.01	0.89	0.70	0.77	0.81	1,942	194	133	b
01/17/2014	1.18	1.30	1.01	0.89	0.70	0.80	0.81	1,963	196	133	b
01/18/2014	1.20	1.30	1.01	0.90	0.70	0.82	0.81	2,005	197	133 e	b
01/19/2014	1.22	1.29	1.00	0.90	0.71	0.82	0.81	2,033	196	133 e	b
01/20/2014	1.24	1.29	1.01	0.90	0.71	0.87	0.81	2,021	197	133 e	b
01/21/2014	1.26	1.28	1.01	0.89	0.71	0.88	0.82	1,941	196	140	b
01/22/2014	1.27	1.29	1.01	0.90	0.71	0.88	0.83	2,000	197	138	b
01/23/2014	1.27	1.37	1.01	0.90	0.72	0.87	0.83	2,174	199	138	b
01/24/2014	1.30	1.43	1.01	0.91	0.72	0.86	0.82	2,312	200	140	b
01/25/2014	1.30	1.45	1.02	0.91	0.72	0.89	0.82	2,370	200	140 e	b
01/26/2014	1.39	1.51	1.03	0.92	0.72	0.86	0.98	2,554	202	140 e	b
01/27/2014	1.45	1.59	1.05	0.92	0.72	0.89	1.02	2,660	203	137	b
01/28/2014	1.50	1.63	1.06	0.92	0.72	0.91	0.96	2,563	202	138	b

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:

(Note: below label begins on October 1, 2013)

c = excess Delta conditions

b = balanced Delta conditions

r = excess Delta conditions with restrictions:

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
12/30/2013	0.92	0.86	0.95	0.90	1.15	1.05	0.94	0.90
12/31/2013	0.93	0.87	0.96	0.91	1.14	1.05	0.93	0.90
01/01/2014	0.94	0.87	0.96	0.91	1.14	1.06	0.91	0.90
01/02/2014	0.96	0.87	0.96	0.92	1.14	1.07	0.94	0.91
01/03/2014	0.98	0.88	0.96	0.92	1.13	1.07	0.96	0.91
01/04/2014	0.97	0.88	0.96	0.92	1.12	1.08	0.97	0.91
01/05/2014	0.98	0.89	0.97	0.92	1.12	1.08	0.99	0.92
01/06/2014	0.97	0.90	0.98	0.93	1.13	1.09	0.99	0.92
01/07/2014	1.02	0.90	0.99	0.93	1.16	1.09	1.00	0.93
01/08/2014	1.02	0.91	1.00	0.93	1.18	1.10	1.01	0.93
01/09/2014	1.02	0.91	1.01	0.94	1.19	1.10	1.02	0.94
01/10/2014	1.03	0.92	1.02	0.94	1.23	1.11	1.05	0.94
01/11/2014	1.04	0.93	1.03	0.95	1.24	1.12	1.05	0.94
01/12/2014	1.05	0.93	1.03	0.95	1.25	1.12	1.06	0.95
01/13/2014	1.05	0.94	1.04	0.95	1.26	1.13	1.07	0.96
01/14/2014	1.02	0.94	1.07	0.96	1.27	1.13	1.09	0.96
01/15/2014	1.04	0.95	1.07	0.96	1.31	1.14	1.08	0.97
01/16/2014	1.04	0.96	1.07	0.97	1.34	1.15	1.09	0.97
01/17/2014	0.95	0.96	1.08	0.98	1.37	1.16	1.08	0.98
01/18/2014	0.92	0.96	1.08	0.98	1.38	1.17	1.10	0.99
01/19/2014	0.95	0.96	1.09	0.99	1.35	1.18	1.07	0.99
01/20/2014	1.00	0.97	1.10	0.99	1.34	1.19	0.99	0.99
01/21/2014	0.99	0.97	1.10	1.00	1.36	1.20	0.97	1.00
01/22/2014	1.01	0.98	1.09	1.00	1.39	1.21	0.99	1.00
01/23/2014	0.98	0.98	1.07	1.01	1.41	1.22	1.01	1.00
01/24/2014	0.97	0.98	1.06	1.01	1.41	1.23	1.02	1.01
01/25/2014	0.98	0.98	1.04	1.02	1.39	1.24	1.00	1.01
01/26/2014	0.96	0.98	1.04	1.02	1.37	1.25	0.96	1.01
01/27/2014	0.99	0.99	1.03	1.02	1.36	1.26	0.97	1.01
01/28/2014	0.94	0.99	1.02	1.03	1.34	1.26	0.97	1.01

Electrical Conductivity (EC) units: milliSiemens per Centimeter

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