

Delta Water Quality Conditions

for the Sacramento - San Joaquin Delta and Suisun Marsh

Wednesday, May 12, 2021

Flow/Operational	Standard	Current Status
% of inflow diverted	35 %	12 % 3 Day Average
NDOI, 14 day running average*	>=4,000 cfs	4,269 cfs
Vernalis Base Flow, monthly average *	>=710 cfs	772 cfs
Vernalis Base Flow, 7 Day average*	>=568 cfs	686 cfs
Vernalis Pulse Flow	>=3,110 cfs	858 cfs

Water Quality	Standard	Current Status
Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	155 days	132 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	59 mg/l
14dm EC at Emmaton	<= 2.78 mS/cm	1.79 mS/cm
14dm EC at Jersey Point	<= 2.2 mS/cm	0.71 mS/cm
14dm EC at San Andreas Landing	<= 0.87 mS/cm	0.31 mS/cm
14dm EC at Terminous	<= 0.54 mS/cm	0.18 mS/cm
30dm EC at Vernalis(VNS)	<= 0.7 mS/cm	0.3 mS/cm
30dm EC at Brandt Bridge(BDT)	<= 0.7 mS/cm	0.4 mS/cm
30dm EC at Old River Near Tracy(OLD)	<= 0.7 mS/cm	0.7 mS/cm
30dm EC at Old River Near Middle River(UNI)	<= 0.7 mS/cm	0.4 mS/cm
Suisun Marsh Western maximum monthly average* mhtEC	<= 12.5 mS/cm	9.3 mS/cm
Eastern maximum monthly average* mhtEC	<= 11.0 mS/cm	8.6 mS/cm

Suisun Marsh:

Suisun Marsh Salinity Control Gates : 0 Open / 0 Closed / 3 Tidally Operating

Flashboard Status : In Boat Lock Status : Open

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2021)

Previous Month's Index (8RI for Apr): 1411 TAF

Sacramento valley water year type index (40/30/30) @ 50%: 4.0 MAF (Critical)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.3 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

30 dm -thirty day running mean

Montezuma Slough Gate Operation:

Number of gates operation at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

*NDOI, Rio Vista & Vernalis Flows and Suisun Marsh mhtEC:

- 7 day average is progressive daily mean for the first six days of the month.

-Monthly average is progressive daily mean from the beginning of the month

Delta Water Quality Conditions

Date	ANT High	ANT Half	PCT@64km mdEC	PCT@64km 14dm	PCT@66km mdEC	MAL mdEC	CHP mdEC	CHP 14dm	CLL mdEC	CLL 14dm
04/13/2021	5.82	4.06	14.59	13.71	12.78	7.40	6.88	6.36	4.02	3.73
04/14/2021	5.85	4.03	14.01 e	13.80 e	12.12 e	7.31	6.79	6.45	4.00 e	3.81 e
04/15/2021	5.84	4.06	13.34	13.78 e	11.38	7.15	6.62	6.48	3.28	3.79 e
04/16/2021	5.90	4.12	15.04	13.81 e	13.29	7.75	7.24	6.48	4.52	3.79 e
04/17/2021	5.93	4.18	14.69	13.80 e	12.90	7.63	7.12	6.43	4.44	3.77 e
04/18/2021	5.44	3.96	13.75	13.78 e	11.83	6.29	5.75	6.35	3.64	3.73 e
04/19/2021	5.57	4.18	13.53	13.74 e	11.60	7.27	6.75	6.34	4.16	3.73 e
04/20/2021	5.45	4.16	15.37	13.86 e	13.67	7.54	7.03	6.36	4.07	3.74 e
04/21/2021	5.43	4.16	15.21	13.97 e	13.49	7.53	7.01	6.40	4.09	3.76 e
04/22/2021	5.56	4.19	15.51	14.16 e	13.84	8.42	7.94	6.56	4.79	3.87 e
04/23/2021	5.42	3.99	15.23	14.30 e	13.52	7.93	7.43	6.68	4.39	3.97 e
04/24/2021	5.53	4.00	15.95	14.50 e	14.35	8.46	7.98	6.87	4.67	4.08 e
04/25/2021	5.69	4.02	16.23	14.72 e	14.68	8.68	8.21	7.06	4.63	4.17 e
04/26/2021	5.97	4.04	16.33	14.91 e	14.80	8.86	8.39	7.22	5.09	4.27 e
04/27/2021	6.18	3.99	16.44	15.04 e	14.92	8.94	8.48	7.34	5.38	4.37 e
04/28/2021	6.20	3.86	16.05	15.19	14.46	8.71	8.24	7.44	5.38	4.47
04/29/2021	6.31	4.02	16.44	15.41	14.93	9.23	8.78	7.60	5.90	4.65
04/30/2021	6.37	4.20	17.30	15.57	15.96	9.99	9.58	7.76	6.62	4.80
05/01/2021	6.38	4.28	17.78	15.79	16.53	10.68	10.32	7.99	6.95	4.98
05/02/2021	6.17	4.24	17.63	16.07	16.36	10.23	9.84	8.28	6.85	5.21
05/03/2021	5.62	3.97	16.70	16.30	15.23	9.19	8.74	8.43	6.20	5.36
05/04/2021	5.22	3.81	16.31	16.36	14.77	8.95	8.49	8.53	5.74	5.48
05/05/2021	5.21	3.88	17.01	16.49	15.60	9.48	9.05	8.68	6.34	5.64
05/06/2021	5.44	3.96	17.59	16.64	16.30	10.99	10.66	8.87	7.33	5.82
05/07/2021	5.45	3.74	17.58	16.81	16.29	10.51	10.14	9.06	6.93	6.00
05/08/2021	5.32	3.60	16.96	16.88	15.54	10.00	9.60	9.18	6.97	6.17
05/09/2021	5.53	3.77	18.27	17.03	17.13	10.74	10.38	9.34	7.37	6.36
05/10/2021	5.82	3.97	18.52	17.18	17.43	11.39	11.09	9.53	8.10	6.58
05/11/2021	5.95	4.13	19.51	17.40	18.66	12.08	11.82	9.77	8.59	6.80
05/12/2021	6.25	4.42	20.24	17.70	19.58	13.15	12.98	10.11	9.55	7.10

Chipps Island EC and Port Chicago at 64km calculated from measurements recorded at Mallard Slough and Port Chicago at 66km respectively.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Not Computed due to insufficient data

BR : Below Rating

e - estimated value

ANT:Antioch Tides (ft)

PCT @64km: Port Chicago at 64 kilometer

PCT @66km: Port Chicago at 66 kilometer

MAL:Mallard

CHP: Chipps Island

CLL: Collinsville

Delta Water Quality Conditions

Date	ANH mdEC	ANH 14dm	JER mdEC	JER 14dm	EMM mdEC	EMM 14dm	TMS mdEC	TMS 14dm	SAL mdEC	SAL14dm	TER mdEC	TER 14dm
04/13/2021	1.59	1.46	0.43	0.42	0.60	0.58	0.31	0.34	0.28	0.29	0.18	0.19 e
04/14/2021	1.65	1.50	0.44	0.42	0.59	0.60	0.32 e	0.34 e	0.28 e	0.29 e	0.18 e	0.19 e
04/15/2021	1.67	1.52	0.41	0.42	0.45	0.59	0.32	0.34 e	0.27	0.29 e	0.18	0.19 e
04/16/2021	1.78	1.52	0.47	0.42	0.71	0.59	0.34	0.34 e	0.28	0.29 e	0.18	0.19 e
04/17/2021	1.78	1.51	0.48	0.43	0.73	0.59	0.35	0.33 e	0.28	0.28 e	0.19	0.19 e
04/18/2021	1.47	1.49	0.43	0.42	0.55	0.57	0.31	0.33 e	0.28	0.28 e	0.19	0.19 e
04/19/2021	1.66	1.48	0.45	0.43	0.67	0.57	0.34	0.33 e	0.28	0.28 e	0.19	0.19 e
04/20/2021	1.71	1.49	0.44	0.43	0.70	0.57	0.37	0.33 e	0.28	0.28 e	0.18	0.19 e
04/21/2021	1.74	1.51	0.42	0.43	0.73	0.58	0.35	0.33 e	0.28	0.28 e	0.18	0.18 e
04/22/2021	1.86	1.56	0.42	0.43	0.81	0.60	0.39	0.33 e	0.28	0.28 e	0.17	0.18 e
04/23/2021	1.65	1.59	0.40	0.43	0.82	0.63	0.41	0.34 e	0.27	0.28 e	0.17	0.18 e
04/24/2021	1.82	1.64	0.42	0.43	0.84	0.66	0.40	0.34 e	0.28	0.28 e	0.17	0.18 e
04/25/2021	1.99	1.70	0.43	0.43	0.89	0.69	0.39	0.35 e	0.27	0.28 e	0.17	0.18 e
04/26/2021	2.13	1.75	0.46	0.44	0.98	0.72	0.41	0.36 e	0.27	0.28 e	0.17	0.18 e
04/27/2021	2.28	1.80	0.48	0.44	1.03	0.75	0.44	0.37 e	0.28	0.28 e	0.17	0.18 e
04/28/2021	2.28	1.84	0.48	0.44	1.12	0.79	0.49	0.38	0.29	0.28	0.17	0.18
04/29/2021	2.65	1.91	0.52	0.45	1.30	0.85	0.56	0.40	0.29	0.28	0.18	0.18
04/30/2021	2.98	2.00	0.60	0.46	1.65	0.92	0.67	0.42	0.30	0.28	0.18	0.18
05/01/2021	3.34	2.11	0.67	0.47	2.01	1.01	0.84	0.46	0.30	0.28	0.17	0.18
05/02/2021	3.26	2.24	0.68	0.49	1.86	1.10	0.85	0.49	0.31	0.29	0.17	0.18
05/03/2021	2.67	2.31	0.61	0.50	1.46	1.16	0.65	0.52	0.30	0.29	0.18	0.18
05/04/2021	2.65	2.38	0.58	0.51	1.41	1.21	0.64	0.54	0.30	0.29	0.18	0.18
05/05/2021	3.05	2.47	0.62	0.53	1.54	1.27	0.71	0.56	0.31	0.29	0.18	0.18
05/06/2021	3.46	2.59	0.68	0.54	1.98	1.35	0.85	0.59	0.32	0.29	0.17	0.17
05/07/2021	3.24	2.70	0.65	0.56	1.72	1.41	0.80	0.62	0.31	0.30	0.17	0.17
05/08/2021	2.88	2.78	0.65	0.58	1.39	1.45	0.72	0.64	0.31	0.30	0.17	0.18
05/09/2021	3.44	2.88	0.74	0.60	1.80	1.52	0.80	0.67	0.32	0.30	0.17	0.18
05/10/2021	3.90	3.00	0.83	0.63	1.95	1.59	0.94	0.71	0.32	0.30	0.18	0.18
05/11/2021	4.36	3.15	0.98	0.66	2.37	1.68	1.08	0.76	0.33	0.31	0.18	0.18
05/12/2021	5.03	3.35	1.20	0.71	2.68	1.79	1.25	0.81	0.34	0.31	0.18	0.18

Electrical Conductivity (EC) units: milliSiemens per Centimeter C

Chloride (Cl) units: milligrams per liter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Not Computed due to insufficient data

BR : Below Rating

e : estimated value

ANH:Antioch

JER:Jersey Point

EMM: Emmaton

TMS: Three Mile Slough

SAL :San Andreas Landing

TER: Terminus

Delta Water Quality Conditions

Date	BET mdEC	FRP mdEC	HLL mdEC	BAC mdEC	CNT mdEC	CLC mdEC	DMC mdEC	ANH mdCl	BAC mdCl	CNT mdCl
04/13/2021	0.38	0.42	0.40	0.41	0.47	0.67	0.69	437	70	66
04/14/2021	0.38 e	0.43 e	0.39 e	0.41 e	0.46 e	0.66	0.70 e	455	69 e	66 e
04/15/2021	0.38	0.43	0.40	0.41	0.46	0.64	0.67	460	68	66 e
04/16/2021	0.39	0.42	0.39	0.41	0.46	0.61	0.68	497	68	66 e
04/17/2021	0.39	0.42	0.39	0.40	0.45	0.60	0.66	499	67	66 e
04/18/2021	0.38	0.42	0.39	0.41	0.44	0.62	0.66	397	69	66 e
04/19/2021	0.38	0.42	0.39	0.41	0.44	0.58	0.60	460	69	66 e
04/20/2021	0.38	0.42	0.39	0.41	0.43	0.54	0.50	473	69	66
04/21/2021	0.38	0.42	0.39	0.41	0.43	0.54	0.42	483	68	66
04/22/2021	0.38	0.41	0.38	0.41	0.43	0.45	0.39	522	68	66 e
04/23/2021	0.38	0.42	0.38	0.41	0.43	0.45	0.40	454	69	61
04/24/2021	0.37	0.41	0.38	0.41	0.43	0.43	0.40	509	69	61 e
04/25/2021	0.37	0.40	0.38	0.41	0.43	0.39	0.40	564	69	61 e
04/26/2021	0.37	0.39	0.38	0.41	0.43	0.42	0.39	610	68	61 e
04/27/2021	0.38	0.40	0.38	0.40	0.43	0.42	0.36	657	67	61
04/28/2021	0.39	0.41	0.38	0.40	0.43	0.43	0.36	656	67	61
04/29/2021	0.37	0.41	0.38	0.40	0.43	0.42	0.37	773	66	61 e
04/30/2021	0.38	0.42	0.38	0.40	0.43	0.47	0.42	879	65	59
05/01/2021	0.38	0.42	0.38	0.40	0.43	0.50	0.46	993	65	0 e
05/02/2021	0.39	0.43	0.39	0.39	0.43	0.51	0.48	968	65	0 e
05/03/2021	0.39	0.43	0.39	0.40	0.42	0.49	0.47	780	66	59 e
05/04/2021	0.40	0.43	0.40	0.40	0.42	0.49	0.47	776	67	59
05/05/2021	0.41	0.44	0.40	0.41	0.42	0.50	0.48	903	68	60
05/06/2021	0.41	0.45	0.40	0.41	0.42	0.51	0.49	1,032	68	60 e
05/07/2021	0.42	0.46	0.40	0.41	0.42	0.51	0.50	962	69	59
05/08/2021	0.42	0.46	0.41	0.41	0.42	0.51	0.50	846	69	59 e
05/09/2021	0.43	0.48	0.42	0.41	0.42	0.51	0.50	1,024	70	59 e
05/10/2021	0.45	0.49	0.43	0.42	0.42	0.51	0.50	1,171	71	59 e
05/11/2021	0.46	0.51	0.44	0.42	0.42	0.51	0.50	1,319	72	59
05/12/2021	0.48	0.55	0.45	0.43	0.42	0.51	0.50	1,532	74	59

Electrical Conductivity (EC) units: milliSiemens per Centimeter (mS/cm)

Chloride (Cl) units: milligrams per liter (mg/l)

md : mean daily

NC : Not Computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

BET: Bethel Island

FRP: Farrar Park

HLL: Holland Tract

BAC: Bacon Island

CNT: Contra Costa

CLC: Clifton Court

DMC: Tracy Pumping Plant

ANH: Antioch

Delta Water Quality Conditions

South Delta Stations

Date	VNS mdEC	VNS 30dm	BDT mdEC	BDT 30dm	OLD mdEC	OLD 30dm	UNI mdEC	UNI 30dm
04/13/2021	0.44	0.87	0.79	0.97	1.16	1.17	0.71	0.95
04/14/2021	0.37	0.85	0.74	0.97	1.10	1.17	0.61	0.94
04/15/2021	0.28	0.83	0.65	0.96	1.06	1.17	0.46	0.92
04/16/2021	0.20	0.81	0.58	0.95	1.04	1.18	0.40	0.90
04/17/2021	0.12	0.78	0.44	0.93	0.99	1.17	0.30	0.88
04/18/2021	0.26	0.76	0.22	0.91	0.85	1.17	0.11	0.86
04/19/2021	0.27	0.74	0.16	0.88	0.77	1.16	0.23	0.83
04/20/2021	0.19	0.71	0.26	0.86	0.71	1.15	0.28	0.81
04/21/2021	0.10	0.67	0.30	0.84	0.65	1.13	0.26	0.78
04/22/2021	0.14	0.64	0.25	0.81	0.59	1.12	0.13	0.75
04/23/2021	0.15	0.61	0.16	0.78	0.55	1.10	0.12	0.72
04/24/2021	0.17	0.58	0.14	0.75	0.52	1.08	0.17	0.68
04/25/2021	0.23	0.55	0.18	0.72	0.48	1.06	0.17	0.65
04/26/2021	0.29	0.52	0.19	0.69	0.46	1.03	0.20	0.62
04/27/2021	0.32	0.50	0.22	0.66	0.44	1.01	0.26	0.59
04/28/2021	0.26	0.48	0.27	0.63	0.43	0.98	0.33	0.57
04/29/2021	0.28	0.45	0.33	0.60	0.47	0.95	0.35	0.55
04/30/2021	0.33	0.44	0.35	0.58	0.52	0.93	0.31	0.52
05/01/2021	0.35	0.42	0.35	0.55	0.57	0.90	0.31	0.50
05/02/2021	0.31	0.40	0.35	0.53	0.60	0.88	0.34	0.48
05/03/2021	0.34	0.39	0.36	0.51	0.61	0.86	0.39	0.46
05/04/2021	0.39	0.37	0.39	0.49	0.61	0.83	0.36	0.44
05/05/2021	0.44	0.36	0.40	0.47	0.62	0.81	0.36	0.43
05/06/2021	0.50	0.35	0.39	0.45	0.64	0.79	0.40	0.41
05/07/2021	0.49	0.35	0.39	0.44	0.66	0.77	0.44	0.40
05/08/2021	0.40	0.34	0.40	0.42	0.69	0.76	0.48	0.39
05/09/2021	0.39	0.33	0.42	0.41	0.73	0.74	0.53	0.38
05/10/2021	0.36	0.32	0.43	0.39	0.75	0.72	0.59	0.37
05/11/2021	0.36	0.31	0.46	0.38	0.75	0.71	0.57	0.36
05/12/2021	0.28	0.30	0.47	0.37	0.78	0.69	0.49	0.36

Electrical Conductivity (EC) units: milliSiemens per Centimeter (mS/cm)

md : mean daily

30dm : thirty day running mean

NR : No Record

NC : Not Computed due to insufficient data

BR : Below Rating

>e : estimated value

VNS:Vernalis

BDT:Brandt Bridge

OLD: Old River near Tracy

UNI: Old River near Middle River

Delta Water Quality Conditions

Suisun Marsh Stations

Date	CLL mhtEC	NSL mhtEC	BDL mhtEC	SNC mhtEC	VOL mhtEC	GYS mhtEC
04/13/2021	5.34	3.96	3.65 e	5.86	6.30	10.19
04/14/2021	4.73 e	4.33	3.62 e	5.66	5.92	10.72
04/15/2021	4.68 e	4.50	3.61 e	5.61	5.81	11.06
04/16/2021	5.97	4.92	3.89 e	5.79	6.09	11.13
04/17/2021	5.70	5.65	4.09 e	6.07	6.47	11.53
04/18/2021	4.22	4.65	4.30 e	6.47	6.78	11.64
04/19/2021	5.91	4.24	4.55 e	6.85	7.18	11.38
04/20/2021	5.28	5.14	4.59	6.77	7.10	11.56
04/21/2021	4.81	5.14	4.84	6.53	7.23	11.84
04/22/2021	5.86	4.83	4.59 e	6.66	7.19	12.44
04/23/2021	5.86	4.94	4.41 e	6.37	6.68	12.71
04/24/2021	5.58	4.25	4.49 e	6.11	6.63	12.27
04/25/2021	6.04	4.30	4.66 e	5.96	6.80	13.03
04/26/2021	6.26	4.53	4.92 e	6.15	6.64	12.40
04/27/2021	6.91	5.04	5.07	6.50	7.06	11.89
04/28/2021	6.35	5.38	5.07	6.84	7.42	11.41
04/29/2021	7.38	5.82	5.62 e	7.27	7.62	11.40
04/30/2021	8.01	6.62	5.84 e	7.60	7.88	11.40
05/01/2021	8.38	7.43	5.98 e	7.77	8.24	11.86
05/02/2021	8.46	7.90	5.58 e	7.51	8.06	12.33
05/03/2021	7.75	7.10	5.90 e	7.59	8.53	13.10
05/04/2021	7.30	6.57	6.48	8.14	8.72	14.07
05/05/2021	7.75	6.68	6.96	8.36	8.72	13.46
05/06/2021	8.41	6.48	7.00 e	8.63	9.36	13.41
05/07/2021	8.41	7.58	6.81 e	8.36	8.93	13.69
05/08/2021	7.67	7.91	6.89 e	8.78	9.10	14.26
05/09/2021	8.79	7.26	7.27 e	9.34	9.71	14.38
05/10/2021	9.33	7.35	7.49 e	9.83	10.20	14.15
05/11/2021	9.44	8.13	8.43	10.13	10.59	14.72
05/12/2021	11.05	8.60	8.63	10.75	11.31	14.69

Electrical Conductivity (EC) units: milliSiemens per Centimeter (mS/cm)

mht : mean high tides

NR : No Record

NC : Not Computed due to insufficient data

BR : Below Rating

e : estimated value

CLL: Collinsville

NSL: National Steel

BDL: Beldon Landing

SNC: Sunrise Club

VOL: Volanti Slough

GYS: Goodyear Slough