

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall Inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
9/6/2015	8,247	188	178	238	0.00	992	1,812	116	56	13
9/7/2015	8,202	189	153	233	0.00	995	1,813	128	62	8
9/8/2015	8,186	188	187	251	0.00	996	1,818	109	67	11
9/9/2015	8,142	186	200	194	0.00	990	1,820	104	68	16
9/10/2015	8,125	185	158	185	0.00	999	1,819	110	73	16
9/11/2015	8,093	185	66	219	0.00	889	1,746	131	70	13
9/12/2015	7,978	185	64	245	0.00	791	1,704	131	72	20
9/13/2015	7,817	188	59	281	0.00	789	1,704	127	74	24
9/14/2015	7,794	154	53	351	0.00	791	1,710	108	74	17
9/15/2015	8,101	101	49	338	0.00	686	1,722	134	72	16
9/16/2015	8,584	90 e	49	311 e	0.00	696	1,613	133	57	13
9/17/2015	8,377	79 e	49	317	0.00	698	1,606	126	67	12
9/18/2015	8,080	69 e	55	280	0.00	694	1,604	101	67	14
9/19/2015	7,884	58 e	59	238	0.00	692	1,604	63	61	29
9/20/2015	7,835	47 e	59	237	0.00	691	803	66	84	0
9/21/2015	7,554	36 e	60	264	0.00	296	806	89	79	37
9/22/2015	7,351	26 e	58	229	0.00	297	814	94	75	44
9/23/2015	8,138	15	57	198	0.00	293	807	121	82	65
9/24/2015	8,010	4	59	203	0.00	289	804	136	79	83
9/25/2015	7,606	4	58	212	0.00	296	782	160	73	79
9/26/2015	8,000	4	58	198	0.00	296	805	156	80	68
9/27/2015	7,724	4	59	198	0.00	291	807	131	74	64
9/28/2015	7,380	4	58	260	0.00	289	807	145	72	50
9/29/2015	7,516	4	54	270	0.00	294	808	157	71	52
9/30/2015	7,887	4	44	268	0.00	285	808	150	77	56
10/1/2015	7,650	5	45	342	0.28	295	806	141	89	64
10/2/2015	7,840	5	45	342	0.00	293	806	141	67	44
10/3/2015	7,001	5	44	326	0.00	293	806	106	65	23
10/4/2015	7,714	6	45	361	0.00	294	811	106	68	27
10/5/2015	7,648	7	46	355	0.00	290	806	123	75	20

SRWTP : Sacramento Regional Water Treatment Plant effluent.

Yolo Bypass : combined measurements of Cache Creek at Rumsey and Freemont Weir.

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8/3/2015	7,560	628	308	208	0.00	341	306	132	88	8
8/4/2015	7,560	614	264	169	0.00	344	305	109	76	11
8/5/2015	7,856	608	218	170	0.00	345	303	98	73	19
8/6/2015	7,773	559	224	159	0.00	341	304	100	84	26
8/7/2015	7,850	513	237	173	0.00	347	309	104	82	18
8/8/2015	7,805	494	237	162	0.00	346	304	111	83	10
8/9/2015	7,852	489	191	176	0.00	349	307	101	79	9
8/10/2015	7,675	474	117	172	0.00	341	307	120	73	10
8/11/2015	7,924	205	56	142	0.00	348	304	121	74	14
8/12/2015	8,213	131	55	173	0.00	346	306	122	69	17
8/13/2015	8,142	101	53	161	0.00	345	304	122	66	19
8/14/2015	8,088	85	53	153	0.00	337	303	124	68	19
8/15/2015	7,889	77	63	168	0.00	339	308	123	66	21
8/16/2015	7,372	75	70	200	0.00	341	320	120	84	23
8/17/2015	6,904	73	72	201	0.00	492	304	118	60	21
8/18/2015	6,222	68	72	159	0.00	495	240	127	73	14
8/19/2015	6,448	68	72	145	0.00	891	0	122	69	11
8/20/2015	6,634	70	72	110	0.00	892	3	115	71	13
8/21/2015	6,297	69	73	136	0.00	492	412	99	64	14
8/22/2015	6,633	69	73	158	0.00	496	413	72	70	13
8/23/2015	6,832	69	74	198	0.00	499	405	65	68	16
8/24/2015	7,353	68	75	216	0.00	490	405	57	65	28
8/25/2015	8,308	65	77	198	0.00	489	810	69	68	26
8/26/2015	8,402	63	82	180	0.00	0	1,781	115	63	6
8/27/2015	8,804	65	73	151	0.00	0	1,857	126	63	0
8/28/2015	8,997	65	73	108	0.00	1,998	1,861	114	71	14
8/29/2015	9,123	65	72	113	0.00	2,993	965	107	64	17
8/30/2015	9,124	66	348	130	0.00	3,193	956	107	73	0
8/31/2015	8,773	66	471	190	0.00	3,590	961	133	60	20
9/1/2015	8,538	66	321	215	0.00	2,496	979	141	64	21

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7/11/2015	7,986	627	44	151	0.00	250	306	74	57	0
7/12/2015	8,273	601	51	162	0.00	250	307	73	55	0
7/13/2015	8,568	491	51	134	0.00	239	307	73	50	0
7/14/2015	8,352	474	53	111	0.00	250	306	78	42	0
7/15/2015	8,309	468	50	113	0.00	250	305	85	39	0
7/16/2015	8,166	439	51	100	0.00	239	305	88	43	17
7/17/2015	8,620	431	59	114	0.00	245	308	94	43	17
7/18/2015	8,571	530	81	123	0.00	248	304	101	53	20
7/19/2015	8,708	551	92	137	0.00	247	309	107	56	16
7/20/2015	7,733	454	86	149	0.00	242	306	107	56	11
7/21/2015	7,525	447	82	116	0.00	247	304	106	56	0
7/22/2015	7,271	488	79	125	0.00	0	305	105	51	0
7/23/2015	7,465	554	75	148	0.00	0	309	105	50	0
7/24/2015	7,409	529	76	169	0.00	342	306	120	49	4
7/25/2015	7,455	612	80	139	0.00	345	304	102	57	0
7/26/2015	7,055	600	81	133	0.00	343	313	106	48	7
7/27/2015	7,880	489	81	163	0.00	337	304	108	55	11
7/28/2015	7,766	471	75	124	0.00	341	306	108	64	16
7/29/2015	7,815	437	70	111	0.00	343	310	109	76	18
7/30/2015	7,598	547	368	97	0.00	344	307	112	93	29
7/31/2015	7,737	670	432	115	0.00	342	306	129	90	27
8/1/2015	7,642	743	325	151	0.00	342	306	127	89	17
8/2/2015	7,461	658	385	200	0.00	343	304	108	89	14
8/3/2015	7,560	628	308	208	0.00	341	306	132	88	8
8/4/2015	7,560	614	264	169	0.00	344	305	109	76	11
8/5/2015	7,856	608	218	170	0.00	345	303	98	73	19
8/6/2015	7,773	559	224	159	0.00	341	304	100	84	26
8/7/2015	7,850	513	237	173	0.00	347	309	104	82	18
8/8/2015	7,805	494	237	162	0.00	346	304	111	83	10
8/9/2015	7,852	489	191	176	0.00	349	307	101	79	9

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7/6/2015	7,477	560	264	140	0.00	391	309	117	46	0
7/7/2015	7,261	509	299	130	0.00	246	303	124	57	0
7/8/2015	7,132	483	224	125	0.00	241	305	123	58	0
7/9/2015	7,733	505	201	157	0.00	239	304	111	56	0
7/10/2015	8,096	529	164	149	0.00	250	304	90	54	0
7/11/2015	7,986	627	44	151	0.00	250	306	74	57	0
7/12/2015	8,273	601	51	162	0.00	250	307	73	55	0
7/13/2015	8,568	491	51	134	0.00	239	307	73	50	0
7/14/2015	8,352	474	53	111	0.00	250	306	78	42	0
7/15/2015	8,309	468	50	113	0.00	250	305	85	39	0
7/16/2015	8,166	439	51	100	0.00	239	305	88	43	17
7/17/2015	8,620	431	59	114	0.00	245	308	94	43	17
7/18/2015	8,571	530	81	123	0.00	248	304	101	53	20
7/19/2015	8,708	551	92	137	0.00	247	309	107	56	16
7/20/2015	7,733	454	86	149	0.00	242	306	107	56	11
7/21/2015	7,525	447	82	116	0.00	247	304	106	56	0
7/22/2015	7,271	488	79	125	0.00	0	305	105	51	0
7/23/2015	7,465	554	75	148	0.00	0	309	105	50	0
7/24/2015	7,409	529	76	169	0.00	342	306	120	49	4
7/25/2015	7,455	612	80	139	0.00	345	304	102	57	0
7/26/2015	7,055	600	81	133	0.00	343	313	106	48	7
7/27/2015	7,880	489	81	163	0.00	337	304	108	55	11
7/28/2015	7,766	471	75	124	0.00	341	306	108	64	16
7/29/2015	7,815	437	70	111	0.00	343	310	109	76	18
7/30/2015	7,598	547	368	97	0.00	344	307	112	93	29
7/31/2015	7,737	670	432	115	0.00	342	306	129	90	27
8/1/2015	7,642	743	325	151	0.00	342	306	127	89	17
8/2/2015	7,461	658	385	200	0.00	343	304	108	89	14
8/3/2015	7,560	628	308	208	0.00	341	306	132	88	8
8/4/2015	7,560	614	264	169	0.00	344	305	109	76	11

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5/4/2015	6,393	616	225	420	0.00	294	571	87	62	56
5/5/2015	6,671	660	186	411	0.00	298	240	90	66	50
5/6/2015	6,630	690	151	408	0.00	287	618	50	63	49
5/7/2015	7,220	803	142	399	0.00	278	183	69	68	62
5/8/2015	7,019	838	174	405	0.00	290	649	70	66	63
5/9/2015	6,966	853	198	452	0.00	278	150	63	67	72
5/10/2015	6,671	858	146	458	0.00	282	567	43	67	77
5/11/2015	6,714	876	88	449	0.00	285	241	69	66	47
5/12/2015	7,207	893	90	401	0.00	385	566	80	56	69
5/13/2015	6,962	881	106	377	0.00	389	241	76	44	79
5/14/2015	7,495	925	128	409	0.00	378	619	79	28	71
5/15/2015	7,421	913	116	413	0.00	389	189	68	35	38
5/16/2015	7,747	826	108	408	0.00	393	622	46	36	31
5/17/2015	7,710	743	111	440	0.00	389	178	44	35	48
5/18/2015	7,834	737	108	467	0.00	398	624	48	38	31
5/19/2015	8,267	728	110	450	0.00	594	177	45	47	33
5/20/2015	8,242	776	109	422	0.00	794	0	39	72	48
5/21/2015	8,528	795	110	384	0.00	790	0	47	85	72
5/22/2015	8,300	715	107	385	0.00	794	0	45	81	75
5/23/2015	8,384	664	106	386	0.00	799	0	46	81	73
5/24/2015	8,053	608	106	411	0.00	784	0	44	63	58
5/25/2015	8,092	587	117	435	0.00	781	0	35	53	47
5/26/2015	7,638	608	123	422	0.00	1,279	0	45	57	62
5/27/2015	7,459	688	118	385	0.00	1,295	0	43	55	62
5/28/2015	7,214	731	116	331	0.00	895	655	45	56	79
5/29/2015	7,082	727	130	323	0.00	893	150	48	56	66
5/30/2015	6,866	666	135	254	0.00	891	619	49	53	108
5/31/2015	6,294	652	127	281	0.00	892	182	37	50	94
6/1/2015	6,781	652	317	320	0.00	392	655	36	61	53
6/2/2015	6,706	661	366	319	0.00	392	171	43	54	71

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4/8/2015	8,569	187	212	975	0.00	524	989	87	54	31
4/9/2015	7,454	163	219	849	0.00	540	987	89	52	26
4/10/2015	7,142	153	199	810	0.00	520	988	81	52	27
4/11/2015	7,021	147	187	807	0.00	516	988	61	54	51
4/12/2015	6,942	144	184	829	0.00	515	989	64	43	0
4/13/2015	5,995	140	186	1,186	0.00	519	989	66	48	113
4/14/2015	7,068	136	177	1,433	0.00	345	989	69	50	68
4/15/2015	6,862	132	168	1,368	0.00	537	986	119	51	42
4/16/2015	5,885	129	181	1,279	0.00	538	986	136	56	47
4/17/2015	5,805	128	181	1,264	0.00	536	987	154	68	49
4/18/2015	5,464	127	176	1,277	0.00	538	989	148	61	56
4/19/2015	5,468	125	172	1,193	0.00	548	992	147	62	54
4/20/2015	6,136	124	163	1,052	0.00	549	993	168	65	35
4/21/2015	6,039	123	158	907	0.00	519	992	152	65	42
4/22/2015	6,188	123	151	769	0.00	518	992	151	63	41
4/23/2015	5,284	125	154	642	0.00	524	902	156	61	63
4/24/2015	5,201	124	166	577	0.04	521	808	155	58	59
4/25/2015	6,318	126	229	536	0.44	516	808	141	52	66
4/26/2015	7,129	130	335	505	0.00	692	804	118	52	94
4/27/2015	6,739	124	268	488	0.00	695	802	112	55	69
4/28/2015	6,158	122	228	457	0.00	734	803	161	54	83
4/29/2015	6,774	121	216	444	0.00	742	803	132	56	88
4/30/2015	6,864	120	204	396	0.00	745	804	101	56	75
5/1/2015	6,000	119	286	387	0.00	462	805	88	60	93
5/2/2015	5,611	283	382	392	0.00	293	810	78	66	87
5/3/2015	5,763	516	281	397	0.00	286	240	86	63	86
5/4/2015	6,393	616	225	420	0.00	294	571	87	62	56
5/5/2015	6,671	660	186	411	0.00	298	240	90	66	50
5/6/2015	6,630	690	151	408	0.00	287	618	50	63	49
5/7/2015	7,220	803	142	399	0.00	278	183	69	68	62

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3/4/2015	10,128	207	240	629	0.00	3,163	1,828	101	0	26
3/5/2015	10,025	203	230	594	0.00	2,786	1,823	234	0	30
3/6/2015	9,397	199	221	569	0.00	1,985	2,430	249	0	18
3/7/2015	8,970	196	226	552	0.00	1,791	2,692	252	0	8
3/8/2015	8,759	195	231	574	0.00	1,398	2,587	254	0	24
3/9/2015	8,642	192	226	561	0.00	1,389	2,698	279	0	13
3/10/2015	8,583	190	247	512	0.00	1,398	2,702	258	0	21
3/11/2015	8,850	191	262	466	0.16	992	2,710	249	0	31
3/12/2015	9,014	188	244	467	0.00	631	3,187	262	0	33
3/13/2015	8,406	183	248	439	0.00	297	3,342	256	3	46
3/14/2015	8,048	180	234	464	0.00	299	3,337	282	15	48
3/15/2015	7,719	180	216	510	0.00	284	3,334	274	36	37
3/16/2015	8,117	178	209	517	0.00	1,484	934	266	15	36
3/17/2015	7,773	176	202	501	0.00	932	977	266	23	59
3/18/2015	7,934	171	222	493	0.00	535	975	262	39	72
3/19/2015	7,635	167	228	482	0.00	683	977	272	43	61
3/20/2015	7,229	165	213	452	0.00	536	974	266	53	59
3/21/2015	7,358	164	203	433	0.00	525	980	269	44	58
3/22/2015	6,924	162	211	447	0.00	549	994	271	51	54
3/23/2015	7,118	171	214	460	0.00	541	994	274	51	58
3/24/2015	7,027	170	218	466	0.00	544	993	261	47	50
3/25/2015	7,019	161	229	448	0.00	549	982	260	40	45
3/26/2015	6,911	159	219	651	0.00	539	992	265	39	53
3/27/2015	6,368	157	205	999	0.00	541	993	267	57	54
3/28/2015	6,770	153	191	1,188	0.00	541	992	262	46	63
3/29/2015	6,088	151	176	1,280	0.00	533	993	273	54	66
3/30/2015	6,001	149	174	1,207	0.00	535	993	278	47	48
3/31/2015	6,058	147	159	1,060	0.00	531	995	241	49	44
4/1/2015	6,268	143	152	880	0.00	547	990	87	53	54
4/2/2015	6,421	141	163	763	0.00	544	989	87	64	75

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
2/4/2015	9,185	185	335	863	0.00	1,497	991	41	28	15
2/5/2015	9,464	183	241	885	0.00	1,598	995	43	31	13
2/6/2015	9,722	856	244	887	0.48	1,598	998	43	31	2
2/7/2015	13,248	4,047	1,197	889	0.40	3,092	992	41	28	2
2/8/2015	17,823	1,611	3,594	927	0.40	4,199	987	41	33	2
2/9/2015	31,408	1,824	5,138	1,018	0.00	4,795	996	41	30	2
2/10/2015	35,895	985	2,067	1,207	0.00	4,993	895	50	33	4
2/11/2015	36,943	661	1,292	1,062	0.00	5,850	815	41	24	2
2/12/2015	36,871	518	958	1,003	0.00	6,090	814	40	21	0
2/13/2015	34,072	447	783	893	0.00	6,090	819	37	22	4
2/14/2015	29,712	402	669	834	0.00	4,988	820	34	21	2
2/15/2015	25,766	370	585	805	0.00	5,495	827	29	19	2
2/16/2015	22,369	344	526	799	0.00	5,490	824	32	24	1
2/17/2015	19,477	324	478	786	0.00	4,890	827	48	26	2
2/18/2015	17,832	306	446	795	0.00	4,335	816	71	18	2
2/19/2015	16,252	294	429	785	0.00	3,674	1,524	63	27	2
2/20/2015	15,463	284	388	771	0.00	3,333	1,843	27	26	18
2/21/2015	14,927	274	370	817	0.00	3,889	1,834	60	24	11
2/22/2015	14,297	264	366	826	0.00	3,891	1,295	61	22	8
2/23/2015	13,484	252	354	848	0.00	3,244	611	62	29	16
2/24/2015	12,565	242	333	908	0.00	3,240	858	62	24	13
2/25/2015	12,041	238	304	852	0.00	3,249	857	55	36	19
2/26/2015	11,975	235	245	793	0.00	4,048	858	42	43	15
2/27/2015	11,168	233	236	781	0.00	4,796	860	45	34	20
2/28/2015	11,242	230	248	804	0.00	4,799	860	47	26	19
3/1/2015	10,774	223	275	815	0.00	4,783	858	46	28	17
3/2/2015	10,064	217	264	794	0.00	3,589	1,547	70	29	13
3/3/2015	10,304	213	265	689	0.00	3,203	1,828	98	11	24
3/4/2015	10,128	207	240	629	0.00	3,163	1,828	101	0	26
3/5/2015	10,025	203	230	594	0.00	2,786	1,823	234	0	30

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
1/5/2015	13,764	268	224	1,048	0.00	3,189	2,474	83	14	4
1/6/2015	12,820	261	222	1,055	0.00	3,247	1,852	79	14	10
1/7/2015	12,297	256	218	1,044	0.00	3,886	1,826	87	14	10
1/8/2015	11,940	250	230	1,046	0.00	4,594	1,091	89	18	0
1/9/2015	11,697	247	220	1,055	0.00	4,886	955	82	14	2
1/10/2015	11,458	240	222	1,069	0.00	4,890	839	78	13	0
1/11/2015	11,311	236	222	1,056	0.00	4,891	912	77	23	2
1/12/2015	11,097	231	230	1,048	0.00	4,879	873	86	14	2
1/13/2015	10,649	225	224	1,014	0.00	4,868	836	69	18	0
1/14/2015	10,051	223	224	926	0.00	4,885	907	10	15	6
1/15/2015	9,753	220	220	956	0.00	4,691	873	43	15	3
1/16/2015	9,556	219	216	942	0.00	3,997	875	37	14	3
1/17/2015	9,685	221	218	894	0.00	3,798	877	53	13	0
1/18/2015	9,588	218	217	888	0.00	3,895	878	48	18	0
1/19/2015	9,620	215	214	875	0.00	3,888	877	49	14	12
1/20/2015	9,424	212	213	857	0.00	3,889	877	58	19	2
1/21/2015	9,648	210	216	829	0.00	3,685	877	52	15	2
1/22/2015	9,813	207	217	808	0.00	3,878	874	46	14	0
1/23/2015	9,467	203	208	798	0.00	4,087	873	46	13	2
1/24/2015	9,384	200	210	776 e	0.00	3,880	874	46	20	0
1/25/2015	9,226	200	213	769 e	0.00	3,794	874	42	14	2
1/26/2015	9,229	199	213	774	0.00	3,690	875	39	19	1
1/27/2015	9,314	197	212	805	0.00	3,595	871	41	31	2
1/28/2015	9,255	195	209	764	0.00	3,684	875	39	29	2
1/29/2015	9,191	192	203	749	0.00	3,686	877	40	34	3
1/30/2015	9,057	191	208	807	0.00	3,690	950	40	32	2
1/31/2015	9,308	188	214	776	0.00	3,492	977	42	33	3
2/1/2015	9,152	186	225	796	0.00	2,485	976	39	35	21
2/2/2015	9,134	185	422	867	0.00	2,489	989	37	32	15
2/3/2015	9,095	183	509	866	0.00	2,489	990	41	30	15

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Delta Hydrology Conditions

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12/15/2014	52,861	1,542	447	1,595	0.08	5,995	3,514	41	18	2
12/16/2014	55,992	1,815	410	1,698	0.44	4,095	2,693	40	20	2
12/17/2014	51,581	1,708	581	1,843	0.00	3,191	2,698	41	31	0
12/18/2014	49,771	1,205	461	1,848	0.04	2,695	2,324	37	22	2
12/19/2014	49,836	1,946	577	1,738	0.08	2,697	1,953	27	14	0
12/20/2014	50,752	1,382	732	1,662	0.00	2,692	1,953	30	9	3
12/21/2014	50,708	1,211	639	1,618	0.00	2,692	1,950	33	14	0
12/22/2014	51,133	955	493	1,590	0.00	2,996	2,258	29	14	4
12/23/2014	50,382	717	432	1,501	0.00	3,198	2,678	37	18	2
12/24/2014	47,516	596	386	1,440	0.00	3,395	2,817	39	14	2
12/25/2014	42,637	520	378	1,389	0.00	3,888	2,490	39	18	2
12/26/2014	36,689	456	384	1,329	0.00	3,386	2,815	39	9	2
12/27/2014	32,581	413	317	1,290	0.00	3,289	2,802	39	20	3
12/28/2014	29,032	383	299	1,251	0.00	2,891	2,796	39	14	0
12/29/2014	25,780	363	283	1,223	0.00	3,385	2,798	39	14	0
12/30/2014	23,181	342	276	1,197	0.00	3,792	2,804	40	14	4
12/31/2014	20,496	319	244	1,160	0.00	3,787	2,788	64	14	3
1/1/2015	18,108	304	242	1,139	0.00	2,898	2,793	58	19	0
1/2/2015	16,348	294	233	1,121	0.00	2,888	2,794	72	14	2
1/3/2015	15,224	286	229	1,091	0.00	2,894	2,795	76	15	0
1/4/2015	14,446	276	231	1,068	0.00	2,886	2,793	59	14	3
1/5/2015	13,764	268	224	1,048	0.00	3,189	2,474	83	14	4
1/6/2015	12,820	261	222	1,055	0.00	3,247	1,852	79	14	10
1/7/2015	12,297	256	218	1,044	0.00	3,886	1,826	87	14	10
1/8/2015	11,940	250	230	1,046	0.00	4,594	1,091	89	18	0
1/9/2015	11,697	247	220	1,055	0.00	4,886	955	82	14	2
1/10/2015	11,458	240	222	1,069	0.00	4,890	839	78	13	0
1/11/2015	11,311	236	222	1,056	0.00	4,891	912	77	23	2
1/12/2015	11,097	231	230	1,048	0.00	4,879	873	86	14	2
1/13/2015	10,649	225	224	1,014	0.00	4,868	836	69	18	0

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
11/12/2014	8,102	18	114	879	0.00	1,287	806	56	6	8
11/13/2014	7,959	21	129	839	0.28	1,787	805	56	12	9
11/14/2014	7,764	24	114	786	0.00	2,290	803	56	22	9
11/15/2014	7,955	27	115	760	0.00	2,274	467	56	21	0
11/16/2014	7,854	23	115	747	0.00	2,296	800	56	29	0
11/17/2014	7,540	20	161	732	0.00	2,286	798	52	32	11
11/18/2014	7,303	20	181	716	0.00	2,284	1,137	45	28	14
11/19/2014	7,337	22	456	713	0.08	2,288	804	47	40	16
11/20/2014	7,739	26	215	714	0.04	1,985	805	48	39	16
11/21/2014	7,726	27	156	725	0.04	2,493	806	43	19	4
11/22/2014	7,554	35	142	777	0.12	2,495	805	37	14	5
11/23/2014	8,362	30	153	781	0.04	2,491	804	25	21	1
11/24/2014	8,256	30	195	793	0.00	3,191	801	35	15	3
11/25/2014	8,898	26	342	784	0.00	3,490	799	44	18	10
11/26/2014	8,488	24	127	767	0.00	3,794	838	41	18	14
11/27/2014	8,107	22	121	788	0.00	3,798	861	42	14	21
11/28/2014	7,752	22	119	795	0.00	3,492	861	45	17	14
11/29/2014	8,082	27	173	801	0.00	2,992	861	45	18	19
11/30/2014	8,286	35	190	826	0.40	2,987	859	45	14	19
12/1/2014	8,287	44	343	863	0.00	2,989	859	48	15	11
12/2/2014	8,965	43	218	903	1.08	3,491	861	38	30	10
12/3/2014	12,054	646	240	969	0.52	3,983	847	34	23	10
12/4/2014	16,443	821	325	975	0.00	4,488	835	26	20	10
12/5/2014	22,888	129	374	911	0.04	4,482	836	40	0	5
12/6/2014	28,391	337	291	874	0.12	4,495	944	59	0	2
12/7/2014	26,362	180	242	846	0.00	4,495	869	59	9	3
12/8/2014	25,242	84	196	826	0.00	4,984	869	61	0	2
12/9/2014	23,293	64	157	826	0.00	6,477	1,670	46	0	2
12/10/2014	19,845	55	150	851	0.00	6,675	2,290	38	0	2
12/11/2014	17,237	8,796	516	871	1.80	6,669	2,511	39	0	0

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10/6/2014	6,876	3	166	572	0.00	799	809	173	42	23
10/7/2014	6,578	3	313	526	0.00	790	811	171	40	30
10/8/2014	6,536	3	251	534	0.00	296	822	176	39	33
10/9/2014	6,361	3	135	427	0.00	287	254	163	39	38
10/10/2014	6,428	3	123	402	0.00	288	576	152	42	38
10/11/2014	6,365	3	100	403	0.00	291	814	136	40	34
10/12/2014	6,568	3	101	426	0.00	289	236	127	40	36
10/13/2014	5,699	3	89	409	0.00	292	571	102	53	30
10/14/2014	5,401	3	258	378	0.00	295	812	81	57	34
10/15/2014	6,523	3	354	353	0.00	285	239	76	55	54
10/16/2014	5,981	3	194	353	0.00	294	660	80	44	61
10/17/2014	6,145	3	156	349	0.00	295	940	77	35	61
10/18/2014	6,142	3	122	350	0.00	294	0	76	55	61
10/19/2014	6,099	3	147	383	0.00	291	622	82	75	42
10/20/2014	5,944	3	166	426	0.00	291	884	76	64	58
10/21/2014	6,496	3	451	411	0.00	297	96	76	74	40
10/22/2014	6,261	3	276	424	0.00	287	571	135	76	49
10/23/2014	6,385	3	193	562	0.00	286	811	185	63	53
10/24/2014	6,171	3	162	558	0.00	284	236	261	63	50
10/25/2014	6,057	3	119	521	0.00	290	629	116	64	45
10/26/2014	7,189	4	105	928	0.00	295	890	118	42	45
10/27/2014	6,745	4	113	1,207	0.00	298	82	115	31	43
10/28/2014	6,845	4	128	1,248	0.00	295	607	121	34	50
10/29/2014	7,139	0	444	1,323	0.00	287	806	124	37	53
10/30/2014	6,749	0	161	1,368	0.00	283	808	123	37	60
10/31/2014	7,117	0	121	1,423	0.24	281	808	110	47	57
11/1/2014	7,005	0	131	1,491	0.04	776	807	96	48	31
11/2/2014	7,841	0	134	1,775	0.00	793	840	74	38	0
11/3/2014	7,882	0	169	1,725	0.00	1,294	805	69	28	16
11/4/2014	7,997	8	185	1,538	0.00	1,292	805	69	22	11

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9/2/2014	8,306	3	202	287	0.00	2,490	238	198	42	48
9/3/2014	8,658	3	202	278	0.00	2,484	568	203	42	59
9/4/2014	8,912	3	208	302	0.00	1,988	812	206	41	62
9/5/2014	9,270	3	213	304	0.00	1,983	242	197	42	64
9/6/2014	9,201	3	214	357	0.00	2,988	613	192	42	63
9/7/2014	9,069	3	163	389	0.00	2,989	887	181	44	57
9/8/2014	8,800	3	166	398	0.00	1,487	101	187	42	49
9/9/2014	9,210	3	180	372	0.00	1,489	659	184	47	78
9/10/2014	8,973	3	183	391	0.00	2,993	939	179	47	39
9/11/2014	9,077	3	233	371	0.00	2,719	4	177	26	46
9/12/2014	8,961	3	255	354	0.00	2,625	1,164	173	34	42
9/13/2014	8,772	3	215	352	0.00	1,714	1,945	162	50	54
9/14/2014	8,626	3	191	412	0.00	1,986	3,001	159	49	51
9/15/2014	8,284	3	172	426	0.00	1,190	3,303	143	45	38
9/16/2014	8,410	3	155	376	0.00	1,186	2,726	142	46	53
9/17/2014	8,047	3	148	354	0.00	1,491	1,886	159	53	63
9/18/2014	8,342	3	150	395	0.00	1,487	1,640	171	59	68
9/19/2014	7,983	3	168	396	0.00	1,489	1,647	147	57	51
9/20/2014	7,989	3	142	424	0.00	1,495	1,654	147	42	48
9/21/2014	7,987	3	134	426	0.00	1,489	1,646	122	37	36
9/22/2014	8,254	3	137	421	0.00	1,496	1,625	121	42	29
9/23/2014	7,979	3	131	396	0.00	1,486	1,624	130	41	27
9/24/2014	7,860	3	126	390	0.00	1,524	1,622	167	41	37
9/25/2014	8,125	4	116	391	0.28	1,489	1,661	156	38	46
9/26/2014	7,892	4	97	430	0.00	2,482	1,673	134	38	42
9/27/2014	8,136	3	89	520	0.00	2,481	1,672	105	37	38
9/28/2014	8,026	4	89	550	0.00	2,493	1,673	112	38	30
9/29/2014	7,432	4	90	524	0.00	2,488	1,650	120	40	12
9/30/2014	7,437	3	113	506	0.00	2,487	1,665	125	49	35
10/1/2014	7,413	3	156	541	0.00	789	1,678	106	39	38

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
8/9/2014	10,318	2	219	276	0.00	1,691	240	152	69	49
8/10/2014	10,340	3	212	329	0.00	2,500	569	136	58	16
8/11/2014	9,848	3	217	333	0.00	2,498	819	135	62	37
8/12/2014	9,161	3	207	320	0.00	2,496	236	126	66	57
8/13/2014	8,787	3	210	306	0.00	2,476	663	120	77	54
8/14/2014	8,936	3	200	264	0.00	2,483	935	112	69	49
8/15/2014	8,426	3	200	263	0.00	1,975	3	74	75	49
8/16/2014	7,997	2	210	294	0.00	1,984	570	58	75	58
8/17/2014	7,861	2	208	353	0.00	1,984	807	58	65	28
8/18/2014	7,662	3	211	370	0.00	1,488	239	109	74	29
8/19/2014	7,609	3	196	326	0.00	987	571	116	73	41
8/20/2014	7,908	3	173	298	0.00	995	839	125	73	46
8/21/2014	8,231	3	172	283	0.00	990	243	138	71	52
8/22/2014	7,878	3	195	252	0.00	998	622	149	73	52
8/23/2014	8,646	3	218	260	0.00	994	887	130	81	0
8/24/2014	8,206	3	229	303	0.00	990	93	137	85	39
8/25/2014	8,454	3	215	320	0.00	993	571	131	67	29
8/26/2014	8,732	3	199	293	0.00	1,491	808	133	63	33
8/27/2014	8,765	3	197	309	0.00	1,990	236	125	64	31
8/28/2014	8,703	3	195	280	0.00	1,993	633	125	57	39
8/29/2014	8,909	3	212	293	0.00	1,998	899	143	44	41
8/30/2014	9,228	3	222	294	0.00	2,499	69	150	42	62
8/31/2014	9,324	3	221	285	0.00	2,988	572	147	43	59
9/1/2014	8,857	3	208	320	0.00	2,490	809	152	41	42
9/2/2014	8,306	3	202	287	0.00	2,490	238	198	42	48
9/3/2014	8,658	3	202	278	0.00	2,484	568	203	42	59
9/4/2014	8,912	3	208	302	0.00	1,988	812	206	41	62
9/5/2014	9,270	3	213	304	0.00	1,983	242	197	42	64
9/6/2014	9,201	3	214	357	0.00	2,988	613	192	42	63
9/7/2014	9,069	3	163	389	0.00	2,989	887	181	44	57

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
7/20/2014	8,445	3	226	261	0.00	1,187	572	0	59	61
7/21/2014	8,787	3	234	281	0.00	1,186	814	0	69	48
7/22/2014	8,934	3	221	252	0.00	1,180	243	0	71	64
7/23/2014	9,684	3	202	255	0.00	1,189	566	0	61	66
7/24/2014	10,161	3	195	266	0.00	1,188	808	69	67	61
7/25/2014	9,942	2	214	238	0.00	1,192	239	112	77	70
7/26/2014	9,347	2	231	234	0.00	1,185	573	112	75	66
7/27/2014	9,108	3	233	250	0.00	1,170	813	112	70	0
7/28/2014	8,957	3	237	277	0.00	1,170	241	110	72	107
7/29/2014	8,956	3	227	258	0.00	1,184	571	112	70	45
7/30/2014	8,652	2	195	259	0.00	1,188	808	122	71	55
7/31/2014	8,059	2	189	262	0.00	1,691	236	142	67	56
8/1/2014	7,982	2	219	300	0.00	1,191	636	161	70	56
8/2/2014	7,848	2	232	306	0.00	1,189	901	147	67	50
8/3/2014	7,717	2	229	330	0.00	1,193	78	138	67	0
8/4/2014	8,134	2	219	351	0.00	1,188	570	142	73	39
8/5/2014	8,711	3	205	352	0.00	1,184	812	127	66	46
8/6/2014	8,675	3	210	358	0.00	1,186	241	142	66	49
8/7/2014	9,144	3	237	326	0.00	1,186	566	139	63	54
8/8/2014	10,138	3	233	283	0.00	1,186	810	152	72	49
8/9/2014	10,318	2	219	276	0.00	1,691	240	152	69	49
8/10/2014	10,340	3	212	329	0.00	2,500	569	136	58	16
8/11/2014	9,848	3	217	333	0.00	2,498	819	135	62	37
8/12/2014	9,161	3	207	320	0.00	2,496	236	126	66	57
8/13/2014	8,787	3	210	306	0.00	2,476	663	120	77	54
8/14/2014	8,936	3	200	264	0.00	2,483	935	112	69	49
8/15/2014	8,426	3	200	263	0.00	1,975	3	74	75	49
8/16/2014	7,997	2	210	294	0.00	1,984	570	58	75	58
8/17/2014	7,861	2	208	353	0.00	1,984	807	58	65	28
8/18/2014	7,662	3	211	370	0.00	1,488	239	109	74	29

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Delta Hydrology Conditions

Date	Sacramento River at Freoport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
6/3/2014	8,332	4	316	452	0.00	285	809	209	129	81
6/4/2014	7,971	4	446	439	0.00	287	807	170	125	76
6/5/2014	7,816	4	506	400 e	0.00	292	836	186	133	85
6/6/2014	8,015	4	544	382	0.00	289	883	189	84	106
6/7/2014	8,197	4	512	382	0.00	283	592	188	69	102
6/8/2014	8,402	4	446	394	0.00	740	0	179	70	90
6/9/2014	7,892	4	355	391	0.00	746	0	201	70	60
6/10/2014	7,458	4	259	369	0.00	741	0	205	75	81
6/11/2014	7,702	4	254	342	0.00	735	0	219	59	101
6/12/2014	8,239	4	233	316	0.00	736	0	217	70	82
6/13/2014	8,180 e	4 e	267	310 e	0.00	740	0	214	71	86
6/14/2014	8,355	4	253	316	0.00	738	0	210	70	94
6/15/2014	8,701	4	222	316	0.00	745	0	196	70	87
6/16/2014	9,099	4	226	324	0.00	745	0	205	66	75
6/17/2014	9,986	4	205	309	0.00	740	0	209	69	68
6/18/2014	9,790	4	191	275	0.00	747	5	211	69	67
6/19/2014	9,749	4	203	276	0.00	742	0	185	75	81
6/20/2014	9,508	4	220	260	0.00	743	0	200	77	78
6/21/2014	9,521	4	236	244	0.00	744	0	206	81	91
6/22/2014	9,610	4	248	248	0.00	748	0	177	74	73
6/23/2014	9,878	4	226	287	0.00	743	6	186	80	54
6/24/2014	10,004	4	207	258	0.00	729	0	191	72	82
6/25/2014	10,308	4	228	219	0.00	744	0	207	75	74
6/26/2014	10,812	4	234	235	0.00	743	0	196	78	69
6/27/2014	10,669	4	273	228	0.00	738	0	187	81	64
6/28/2014	10,770	4	286	224	0.00	735	0	153	78	98
6/29/2014	10,607	4	261	225	0.00	589	873	155	62	102
6/30/2014	9,929	4	228	259	0.00	585	876	172	42	74
7/1/2014	9,489	4	192	240	0.00	1,137	816	160	54	88
7/2/2014	9,707	4	226	278	0.00	1,191	814	157	48	89

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Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
5/5/2014	4,874	6	408	2,263	0.00	0	1,028	266	103	220
5/6/2014	5,301	6	410	2,226	0.00	192	1,003	280	98	65
5/7/2014	4,549	6	405	2,215	0.00	197	1,001	277	96	53
5/8/2014	4,108	6	398	2,174	0.00	195	996	278	108	71
5/9/2014	4,597	6	424	2,170	0.00	190	999	272	79	67
5/10/2014	5,605	6	444	2,143	0.00	195	999	266	99	0
5/11/2014	5,510	6	417	2,174	0.00	195	999	136	103	0
5/12/2014	5,570	5	384	2,190	0.00	196	999	267	102	193
5/13/2014	5,369	5	420	2,101	0.00	195	998	295	112	65
5/14/2014	5,127	5	436	2,061	0.00	188	1,000	274	115	58
5/15/2014	4,348	5	448	2,067	0.00	174	1,002	288	124	54
5/16/2014	5,005	4	451	1,929	0.00	180	1,003	302	128	71
5/17/2014	5,654	4	422	1,550	0.00	186	870	307	100	0
5/18/2014	5,493	4	386	1,179	0.00	203	813	301	123	0
5/19/2014	5,894	4	378	987	0.00	181	812	260	126	205
5/20/2014	6,753	4	373	888	0.00	178	810	189	96	71
5/21/2014	6,202	4	370	834	0.00	289	807	185	86	50
5/22/2014	6,191	4	379	786	0.00	297	808	169	60	62
5/23/2014	6,208	4	384	724	0.00	291	809	201	124	58
5/24/2014	6,388	4	394	699	0.00	294	810	203	126	38
5/25/2014	6,687	4	374	723	0.00	276	810	195	109	50
5/26/2014	6,610	5	352	692	0.00	286	811	189	135	50
5/27/2014	6,809	4	371	612	0.00	275	810	180	101	123
5/28/2014	7,557	4	383	562	0.00	292	850	187	100	94
5/29/2014	7,518	4	390	524	0.00	294	810	189	120	95
5/30/2014	7,569	4	405	510	0.00	488	810	203	143	81
5/31/2014	7,885	4	399	526	0.00	493	810	191	131	85
6/1/2014	7,584	4	362	485	0.00	485	809	203	111	76
6/2/2014	7,184	4	248	472	0.00	291	811	199	132	76
6/3/2014	8,332	4	316	452	0.00	285	809	209	129	81

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Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
4/20/2014	7,282	7	446	2,868	0.00	494	1,993	255	57	0
4/21/2014	6,536	7	429	2,896	0.00	798	1,994	262	66	114
4/22/2014	7,224	7	409	2,844	0.00	495	2,364	265	71	61
4/23/2014	8,004	8	420	2,768	0.00	504	2,500	261	76	81
4/24/2014	6,733	7	430	2,735	0.00	189	2,496	263	85	64
4/25/2014	6,564	9	440	2,898	0.64	291	2,498	238	64	80
4/26/2014	6,425	12	638	3,011	0.00	394	2,502	228	73	76
4/27/2014	6,585	11	533	3,035	0.04	482	2,500	227	70	70
4/28/2014	6,872	9	457	2,984	0.00	483	2,499	235	79	56
4/29/2014	6,395	9	455	2,925	0.00	489	2,496	230	80	37
4/30/2014	6,135	9	469	2,867	0.00	495	2,496	244	83	33
5/1/2014	5,966	8	474	2,795	0.00	588	2,138	246	90	50
5/2/2014	5,467	7	476	2,488	0.00	783	1,987	263	105	56
5/3/2014	4,698	7	436	2,288	0.00	490	1,826	270	103	0
5/4/2014	5,058	6	413	2,276	0.00	1,043	1,234	267	91	0
5/5/2014	4,874	6	408	2,263	0.00	-10	1,028	266	103	220
5/6/2014	5,301	6	410	2,226	0.00	192	1,003	280	98	65
5/7/2014	4,549	6	405	2,215	0.00	197	1,001	277	96	53
5/8/2014	4,108	6	398	2,174	0.00	195	996	278	108	71
5/9/2014	4,597	6	424	2,170	0.00	190	999	272	79	67
5/10/2014	5,605	6	444	2,143	0.00	195	999	266	99	0
5/11/2014	5,510	6	417	2,174	0.00	195	999	136	103	0
5/12/2014	5,570	5	384	2,190	0.00	196	999	267	102	193
5/13/2014	5,369	5	420	2,101	0.00	195	998	295	112	65
5/14/2014	5,127	5	436	2,061	0.00	188	1,000	274	115	58
5/15/2014	4,348	5	448	2,067	0.00	174	1,002	288	124	54
5/16/2014	5,005	4	451	1,929	0.00	180	1,003	302	128	71
5/17/2014	5,654	4	422	1,550	0.00	186	870	307	100	0
5/18/2014	5,493	4	386	1,179	0.00	203	813	301	123	0
5/19/2014	5,894	4	375	987	0.00	181	812	260	126	205

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3/16/2014	13,172	20	327	961	0.00	3,288	3,338	109	29	0
3/17/2014	11,807	18	313	949	0.00	2,090	3,345	94	29	155
3/18/2014	10,639	17	303	868	0.00	2,283	3,350	95	29	51
3/19/2014	9,585	16	264	784	0.00	1,488	3,346	101	30	51
3/20/2014	8,647	16	257	729	0.00	1,486	2,753	107	24	90
3/21/2014	8,118	16	277	708	0.00	1,194	1,448	121	62	68
3/22/2014	8,111	15	271	675	0.00	1,191	1,001	119	31	0
3/23/2014	8,114	15	265	656	0.00	705	1,000	130	35	0
3/24/2014	8,002	14	237	676	0.00	689	998	131	11	188
3/25/2014	7,292	14	223	605	0.00	998	1,004	131	0	42
3/26/2014	6,908	16	256	560	0.36	993	1,004	116	1	56
3/27/2014	8,047	20	327	578	0.04	694	866	122	0	37
3/28/2014	8,088	18	342	591	0.00	699	801	123	2	37
3/29/2014	8,525	22	337	579	0.64	692	804	114	6	0
3/30/2014	9,688	131	719	726	0.00	694	805	107	0	0
3/31/2014	12,234	76	608	794	0.20	692	804	115	14	89
4/1/2014	17,930	247	818	767	0.48	690	2,746	90	26	14
4/2/2014	19,054	356	858	806	0.04	1,191	4,205	99	35	14
4/3/2014	18,062	246	667	840	0.00	1,189	4,241	127	36	13
4/4/2014	17,240	148	561	836	0.00	1,189	4,218	182	44	16
4/5/2014	15,667	130	515	833	0.00	1,195	4,199	220	48	0
4/6/2014	13,887	92	476	824	0.00	1,189	4,216	220	46	49
4/7/2014	12,273	70	449	816	0.00	1,196	4,193	221	48	17
4/8/2014	10,877	52	466	734	0.00	688	4,225	220	53	18
4/9/2014	10,163	42	511	700	0.00	396	4,206	184	65	26
4/10/2014	9,833	30	556	731	0.00	495	4,181	249	49	32
4/11/2014	9,177	25	591	786	0.00	490	4,205	250	59	28
4/12/2014	9,142	21	590	829	0.00	494	4,217	233	55	0
4/13/2014	9,721	19	554	850	0.00	494	3,586	228	51	0
4/14/2014	9,024	15	506	833	0.00	498	3,300	242	56	133

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall Inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
2/3/2014	6,768	10	254	897	0.00	397	257	58	24	101
2/4/2014	7,037	9	239	894	0.00	392	252	63	37	14
2/5/2014	6,973	9	384	861	0.00	395	252	58	41	35
2/6/2014	7,276	13	592	875	0.24	389	247	51	41	27
2/7/2014	7,608	18	311	912	0.32	392	242	50	33	12
2/8/2014	8,630	27	314	952	0.48	398	254	46	25	0
2/9/2014	12,883	256	2,401	997	0.56	397	809	46	25	0
2/10/2014	18,919	115	2,755	1,000	0.00	394	804	51	8	24
2/11/2014	23,062	49	1,206	1,007	0.00	2,491	1,604	49	12	7
2/12/2014	24,295	30	640	989	0.00	3,345	2,269	47	13	7
2/13/2014	20,336	21	479	964	0.00	2,998	2,591	49	17	0
2/14/2014	15,875	17	406	938	0.00	2,998	2,588	45	15	29
2/15/2014	13,334	14	365	892	0.00	2,991	2,592	48	15	0
2/16/2014	12,749	13	352	862	0.00	2,993	2,596	50	20	0
2/17/2014	11,879	12	349	845	0.00	2,996	2,608	45	11	0
2/18/2014	11,173	11	327	803	0.00	2,496	2,601	48	15	0
2/19/2014	10,628	11	267	739	0.00	1,497	2,605	44	20	42
2/20/2014	10,042	11	224	698	0.00	1,495	1,975	45	25	18
2/21/2014	9,413	10	218	650	0.00	991	1,714	54	18	20
2/22/2014	8,483	10	208	604	0.00	990	1,715	53	23	0
2/23/2014	7,859	10	204	599	0.00	288	1,074	47	19	0
2/24/2014	7,541	10	200	595	0.00	696	798	53	16	48
2/25/2014	7,174	10	196	597	0.00	693	801	60	24	0
2/26/2014	7,328	13	191	604	0.36	698	800	49	18	19
2/27/2014	7,582	71	247	652	0.00	693	805	54	19	18
2/28/2014	8,896	112	1,038	836	1.16	691	827	58	14	11
3/1/2014	14,873	436	1,182	1,174	0.00	694	811	43	15	0
3/2/2014	20,772	137	608	1,082	0.00	2,496	1,458	50	19	0
3/3/2014	21,557	65	504	977	0.16	2,198	2,085	63	17	26
3/4/2014	19,531	230	817	970	0.04	2,195	2,447	66	14	4

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall Inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
1/12/2014	6,968	8	227	781	0.00	689	799	101	54	0
1/13/2014	6,541	8	227	773	0.00	695	796	107	63	148
1/14/2014	6,528	8	239	718	0.00	692	805	111	57	18
1/15/2014	6,642	7	236	682	0.00	1,498	72	112	64	0
1/16/2014	6,415	8	236	687	0.00	1,490	0	97	61	30
1/17/2014	6,315	7	234	718	0.00	1,492	0	84	71	46
1/18/2014	6,051	7	235	755	0.00	1,493	0	85	66	53
1/19/2014	6,111	8	235	811	0.00	1,495	0	85	68	58
1/20/2014	6,226	7	236	835	0.00	1,494	0	82	61	40
1/21/2014	6,089	7	235	831	0.00	1,489	0	78	61	49
1/22/2014	5,718	7	232	832	0.00	1,497	0	72	65	62
1/23/2014	5,882	7	231	835	0.00	1,489	0	77	64	67
1/24/2014	5,862	7	231	872	0.00	1,490	4	72	50	52
1/25/2014	5,724	7	231	912	0.00	1,491	0	73	77	48
1/26/2014	5,543	8	232	939	0.00	393	758	73	63	0
1/27/2014	5,676	8	217	937	0.00	395	476	72	73	30
1/28/2014	5,834	8	229	918	0.00	290	246	80	68	30
1/29/2014	5,822	8	231	983	0.00	290	248	68	66	37
1/30/2014	6,182	9	230	927	0.08	297	264	61	58	40
1/31/2014	7,110	8	251	892	0.00	289	251	59	43	37
2/1/2014	7,275	8	286	879	0.00	393	248	52	21	46
2/2/2014	7,003	8	260	872	0.20	391	251	99	22	0
2/3/2014	6,768	10	254	897	0.00	397	257	58	24	101
2/4/2014	7,037	9	239	894	0.00	392	252	63	37	14
2/5/2014	6,973	9	384	861	0.00	395	252	58	41	35
2/6/2014	7,276	13	592	875	0.24	389	247	51	41	27
2/7/2014	7,608	18	311	912	0.32	392	242	50	33	12
2/8/2014	8,630	27	314	952	0.48	398	254	46	25	0
2/9/2014	12,883	256	2,401	997	0.56	397	809	46	25	0
2/10/2014	18,919	115	2,755	1,000	0.00	394	804	51	8	24

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barkor Slough Pumping Plant cfs	BBID Diversion cfs
12/8/2013	9,089	13	244	1,074	0.00	1,192	992	110	60	0
12/9/2013	8,931	12	238	1,075	0.00	1,493	987	118	63	8
12/10/2013	8,719	11	230	1,048	0.00	1,491	986	104	63	3
12/11/2013	8,542	11	231	1,017	0.00	1,496	987	107	54	3
12/12/2013	8,471	11	233	992	0.00	1,495	994	119	51	3
12/13/2013	8,577	11	235	988	0.00	1,798	993	104	53	3
12/14/2013	8,683	11	235	992	0.00	1,793	993	99	62	0
12/15/2013	8,641	10	233	1,028	0.00	1,795	992	100	65	0
12/16/2013	8,573	9	230	1,034	0.00	1,987	987	111	55	6
12/17/2013	8,583	8	230	1,010	0.00	1,992	984	104	57	3
12/18/2013	8,432	8	222	995	0.00	1,989	985	106	57	3
12/19/2013	9,333	8	228	972	0.00	1,990	989	104	47	3
12/20/2013	8,583	8	230	959	0.00	1,995	984	101	53	3
12/21/2013	8,894	7	232	970	0.00	2,000	984	96	63	0
12/22/2013	9,009	8	231	976	0.00	1,990	982	94	57	0
12/23/2013	8,818	8	230	976	0.00	1,990	980	102	54	8
12/24/2013	8,715	8	227	980	0.00	1,991	980	99	45	0
12/25/2013	8,736	7	230	983	0.00	1,995	980	93	47	0
12/26/2013	8,471	7	224	983	0.00	1,996	980	91	54	0
12/27/2013	8,336	8	226	986	0.00	1,996	982	86	56	0
12/28/2013	8,223	8	225	969	0.00	1,499	984	83	56	0
12/29/2013	8,360	7	229	970	0.00	1,495	985	85	65	0
12/30/2013	8,155	8	229	981	0.00	1,497	986	91	56	0
12/31/2013	8,193	8	229	990	0.00	1,235	861	84	56	0
1/1/2014	8,203	8	229	987	0.00	1,199	801	78	50	0
1/2/2014	8,332	8	229	981	0.00	1,191	801	85	55	0
1/3/2014	8,090	8	224	979	0.00	1,196	799	81	56	0
1/4/2014	8,202	8	226	957	0.00	1,190	801	70	57	0
1/5/2014	8,384	8	229	944	0.00	1,197	799	82	56	104
1/6/2014	8,216	8	227	939	0.00	1,191	797	81	55	31

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
10/7/2013	8,464	7	213	975	0.00	1,489	2,612	179	91	5
10/8/2013	8,458	8	556	964	0.00	997	2,616	170	101	39
10/9/2013	8,530	16	400	955	0.00	995	2,616	179	96	38
10/10/2013	8,514	8	259	910	0.00	996	2,619	187	99	34
10/11/2013	8,425	8	155	913	0.00	992	2,620	179	78	27
10/12/2013	8,288	8	154	951	0.00	990	2,592	175	82	0
10/13/2013	8,634	8	141	972	0.00	993	2,627	178	84	0
10/14/2013	8,175	8	154	963	0.00	993	2,622	177	92	0
10/15/2013	7,926	8	311	1,054	0.00	992	2,596	174	98	82
10/16/2013	8,053	7	237	1,212	0.00	970	2,593	172	104	25
10/17/2013	7,872	7	190	1,225	0.00	995	2,624	168	109	24
10/18/2013	7,738	7	176	1,218	0.00	993	2,610	164	123	22
10/19/2013	7,442	7	152	1,132	0.00	795	2,534	163	115	0
10/20/2013	7,144	7	152	1,199	0.00	799	2,491	156	123	0
10/21/2013	7,028	7	160	1,216	0.00	793	2,494	165	119	32
10/22/2013	7,197	8	466	1,179	0.00	800	2,491	178	117	8
10/23/2013	6,827	7	248	1,215	0.00	790	1,889	142	111	8
10/24/2013	7,170	7	204	1,524	0.00	799	1,623	124	103	25
10/25/2013	7,392	7	197	2,242	0.00	797	1,616	119	107	18
10/26/2013	7,035	8	200	2,511	0.00	794	1,612	121	106	25
10/27/2013	5,421	8	200	2,642	0.00	799	1,614	118	100	25
10/28/2013	7,887	8	160	2,671	0.00	799	1,129	118	101	16
10/29/2013	7,862	8	418	2,575	0.00	991	818	132	45	23
10/30/2013	8,334	8	295	2,306	0.00	1,992	809	139	89	0
10/31/2013	8,720	9	269	2,012	0.00	2,991	1,499	144	82	73
11/1/2013	9,100	9	218	1,739	0.00	1,493	1,789	151	75	21
11/2/2013	9,307	8	195	1,578	0.00	1,991	1,807	159	33	0
11/3/2013	10,217	8	210	1,430	0.00	1,995	1,881	165	44	0
11/4/2013	10,147	8	219	1,343	0.00	2,991	1,897	155	57	24
11/5/2013	9,549	8	488	1,277	0.00	2,997	1,958	160	62	11

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall Inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
9/25/2013	10,716	9	153	1,393	0.00	4,494	2,762	239	78	0
9/26/2013	10,997	8	144	1,398	0.00	3,998	3,351	240	80	23
9/27/2013	10,656	7	140	1,436	0.00	2,493	3,327	237	88	0
9/28/2013	10,441	7	128	1,508	0.00	2,492	3,302	235	90	0
9/29/2013	10,194	8	130	1,425	0.00	1,997	3,307	231	95	0
9/30/2013	10,065	8	170	1,211	0.00	1,993	3,308	233	80	73
10/1/2013	9,887	8	218	1,061	0.00	1,490	3,306	157	89	40
10/2/2013	9,416	8	215	997	0.00	1,998	2,815	169	81	45
10/3/2013	9,709	8	203	940	0.00	1,493	2,593	155	84	52
10/4/2013	9,140	7	204	965	0.00	1,995	2,585	167	91	54
10/5/2013	8,483	7	211	980	0.00	1,490	2,607	170	80	0
10/6/2013	8,632	7	215	984	0.00	1,491	2,602	182	91	50
10/7/2013	8,464	7	213	975	0.00	1,489	2,612	179	91	5
10/8/2013	8,458	8	556	964	0.00	997	2,616	170	101	39
10/9/2013	8,530	16	400	955	0.00	995	2,616	179	96	38
10/10/2013	8,514	8	259	910	0.00	996	2,619	187	99	34
10/11/2013	8,425	8	155	913	0.00	992	2,620	179	78	27
10/12/2013	8,288	8	154	951	0.00	990	2,592	175	82	0
10/13/2013	8,634	8	141	972	0.00	993	2,627	178	84	0
10/14/2013	8,175	8	154	963	0.00	993	2,622	177	92	0
10/15/2013	7,926	8	311	1,054	0.00	992	2,596	174	98	82
10/16/2013	8,053	7	237	1,212	0.00	970	2,593	172	104	25
10/17/2013	7,872	7	190	1,225	0.00	995	2,624	168	109	24
10/18/2013	7,738	7	176	1,218	0.00	993	2,610	164	123	22
10/19/2013	7,442	7	152	1,132	0.00	795	2,534	163	115	0
10/20/2013	7,144	7	152	1,199	0.00	799	2,491	156	123	0
10/21/2013	7,028	7	160	1,216	0.00	793	2,494	165	119	32
10/22/2013	7,197	8	466	1,179	0.00	800	2,491	178	117	8
10/23/2013	6,827	7	248	1,215	0.00	790	1,889	142	111	8
10/24/2013	7,170	7	204	1,524	0.00	799	1,623	124	103	25

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7/17/2013	17,066	636	237	505	0.00	4,498	3,691	335	103	61
7/18/2013	16,931	648	255	495	0.00	4,490	3,699	345	104	69
7/19/2013	16,940	597	254	524	0.00	4,497	3,700	339	105	76
7/20/2013	17,011	580	267	526	0.00	4,493	4,020	337	114	0
7/21/2013	16,854	548	246	548	0.00	4,487	4,125	332	115	0
7/22/2013	17,213	538	234	559	0.00	4,194	4,176	342	99	163
7/23/2013	17,646	548	223	489	0.00	4,286	4,190	338	102	75
7/24/2013	17,675	584	234	501	0.00	4,998	4,204	334	104	73
7/25/2013	17,512	668	250	519	0.00	4,995	4,197	337	112	78
7/26/2013	17,557	687	262	540	0.00	4,495	3,998	327	114	66
7/27/2013	17,315	693	262	519	0.00	4,500	3,604	316	114	76
7/28/2013	17,016	710	263	576	0.00	4,493	3,598	310	109	0
7/29/2013	16,992	708	287	618	0.00	5,489	3,456	319	106	18
7/30/2013	17,540	701	247	542	0.00	5,498	3,462	313	98	50
7/31/2013	16,771	660	212	517	0.00	5,491	3,462	319	100	51
8/1/2013	16,685	629	223	472	0.00	4,993	3,460	310	111	41
8/2/2013	16,962	569	245	492	0.00	4,492	3,273	322	112	58
8/3/2013	16,861	566	253	517	0.00	3,992	3,498	330	106	50
8/4/2013	16,703	512	236	531	0.00	3,993	3,510	309	104	0
8/5/2013	16,806	502	221	515	0.00	4,989	3,494	319	106	76
8/6/2013	16,535	513	222	504	0.00	4,996	3,518	314	97	79
8/7/2013	16,437	521	218	474	0.00	4,991	3,504	301	92	82
8/8/2013	16,656	553	219	479	0.00	4,995	3,521	264	111	83
8/9/2013	16,094	571	226	517	0.00	4,990	3,525	297	111	70
8/10/2013	16,770	573	246	531	0.00	4,993	3,533	310	108	0
8/11/2013	16,992	533	237	608	0.00	5,495	3,503	308	104	0
8/12/2013	17,061	478	217	597	0.00	5,718	3,304	307	99	198
8/13/2013	17,354	470	205	541	0.00	5,499	3,313	313	102	0
8/14/2013	17,244	472	207	495	0.00	4,688	3,618	310	102	0
8/15/2013	17,434	554	206	465	0.00	5,498	3,599	305	113	198

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6/16/2013	12,362	565	306	785	0.00	1,992	804	389	160	0
6/17/2013	11,919	576	302	798	0.00	1,490	804	400	108	176
6/18/2013	11,612	589	235	714	0.00	993	804	402	107	69
6/19/2013	12,973	629	231	640	0.00	789	804	406	110	71
6/20/2013	12,343	619	235	602	0.00	1,993	805	405	119	72
6/21/2013	12,088	575	255	604	0.00	1,283	807	358	110	93
6/22/2013	12,266	552	278	625	0.00	795	347	216	114	0
6/23/2013	12,647	535	283	676	0.00	782	465	220	102	78
6/24/2013	13,789	520	240	752	0.00	1,493	812	341	105	43
6/25/2013	14,501	513	221	711	0.00	2,493	808	368	78	57
6/26/2013	15,652	480	278	686	0.00	2,989	808	390	90	61
6/27/2013	17,318	494	331	648	0.00	4,499	805	401	98	69
6/28/2013	18,815	506	330	638	0.00	5,488	801	397	115	69
6/29/2013	19,087	530	326	647	0.00	5,999	801	340	106	0
6/30/2013	18,707	534	298	705	0.00	5,950	801	317	107	101
7/1/2013	18,571	559	277	729	0.00	6,497	2,287	307	102	134
7/2/2013	17,976	570	276	664	0.00	6,673	2,910	303	96	90
7/3/2013	18,148	558	288	636	0.00	6,647	2,923	325	105	89
7/4/2013	17,526	601	293	657	0.00	6,499	3,469	323	104	0
7/5/2013	16,772	662	258	678	0.00	5,457	3,649	328	110	169
7/6/2013	17,171	721	239	671	0.00	4,995	3,658	314	103	0
7/7/2013	17,564	707	255	731	0.00	4,990	3,710	316	101	0
7/8/2013	17,526	708	254	666	0.00	6,727	3,718	334	97	152
7/9/2013	17,576	709	235	631	0.00	5,494	3,703	334	97	79
7/10/2013	17,146	692	246	571	0.00	5,495	3,686	337	104	88
7/11/2013	17,111	700	238	504	0.00	4,998	3,694	347	79	89
7/12/2013	16,997	689	261	537	0.00	4,999	3,689	353	102	71
7/13/2013	17,007	675	287	572	0.00	4,999	3,683	342	96	50
7/14/2013	16,881	630	286	551	0.00	4,991	3,682	329	99	50
7/15/2013	16,700	627	61	557	0.00	4,996	3,685	338	96	50

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
5/13/2013	11,425	500	451	3,376	0.00	993	980	266	110	206
5/14/2013	10,886	553	416	2,828	0.00	993	980	252	99	76
5/15/2013	10,928	603	400	2,090	0.00	992	979	236	97	86
5/16/2013	10,499	579	410	1,678	0.00	993	863	207	92	84
5/17/2013	11,073	605	445	1,521	0.00	688	811	190	103	65
5/18/2013	11,534	643	439	1,423	0.00	689	808	185	112	0
5/19/2013	11,854	618	418	1,309	0.00	699	808	202	103	0
5/20/2013	11,913	594	416	1,278	0.00	694	809	215	111	167
5/21/2013	11,280	570	389	1,161	0.00	693	811	216	121	58
5/22/2013	11,953	579	378	1,062	0.00	698	811	191	112	77
5/23/2013	11,707	568	401	1,009	0.00	696	810	226	112	72
5/24/2013	11,718	574	404	951	0.00	691	810	223	105	68
5/25/2013	11,703	552	401	962	0.00	696	811	206	115	0
5/26/2013	11,618	563	401	957	0.00	699	813	203	106	76
5/27/2013	11,963	596	381	998	0.00	685	813	191	104	50
5/28/2013	12,118	587	375	975	0.00	694	811	196	100	71
5/29/2013	12,527	633	399	906	0.00	690	811	198	108	154
5/30/2013	13,248	644	428	901	0.00	699	810	206	109	87
5/31/2013	13,373	672	440	859	0.00	695	807	213	111	93
6/1/2013	12,976	698	344	856	0.00	1,491	806	301	113	0
6/2/2013	12,289	727	303	896	0.00	1,492	809	312	108	0
6/3/2013	10,862	723	272	954	0.00	1,492	813	355	112	271
6/4/2013	10,658	709	260	894	0.00	998	816	376	116	81
6/5/2013	11,020	682	260	845	0.00	723	815	369	120	0
6/6/2013	11,044	672	274	814	0.00	992	813	373	109	88
6/7/2013	11,054	670	299	813	0.00	789	813	316	108	79
6/8/2013	10,496	680	286	809	0.00	790	814	197	109	0
6/9/2013	11,119	672	259	831	0.00	792	822	196	111	0
6/10/2013	12,743	663	258	851	0.00	991	816	290	99	187
6/11/2013	12,589	650	244	803	0.00	2,490	810	372	107	76

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
4/1/2013	14,131	404	790	1,607	0.12	691	866	37	7	0
4/2/2013	15,591	345	738	1,583	0.00	1,493	0	30	0	25
4/3/2013	17,013	335	672	1,484	0.00	1,496	0	27	7	17
4/4/2013	17,280	325	704	1,495	0.36	1,489	0	24	4	28
4/5/2013	17,499	244	685	1,618	0.00	1,494	0	24	7	15
4/6/2013	16,543	206	649	1,594	0.00	1,490	0	23	9	22
4/7/2013	15,960	181	618	1,550	0.08	1,493	0	23	18	25
4/8/2013	16,894	176	654	1,515	0.00	1,491	0	25	7	66
4/9/2013	16,949	153	694	1,463	0.00	1,498	0	25	14	25
4/10/2013	16,192	147	651	1,449	0.00	1,490	0	25	29	29
4/11/2013	15,813	173	618	1,396	0.00	1,499	0	25	23	38
4/12/2013	15,126	226	630	1,398	0.00	1,498	0	25	21	47
4/13/2013	14,456	319	620	1,253	0.00	1,494	0	25	33	0
4/14/2013	13,553	308	583	1,299	0.00	1,493	0	25	29	0
4/15/2013	13,180	284	599	1,337	0.00	895	586	24	31	113
4/16/2013	12,813	265	642	1,382	0.00	692	811	24	35	57
4/17/2013	11,253	288	590	1,615	0.00	696	809	23	33	51
4/18/2013	10,200	376	552	1,729	0.00	692	808	24	51	62
4/19/2013	9,213	402	578	2,000	0.00	992	807	25	55	61
4/20/2013	8,441	395	591	2,334	0.00	1,193	807	25	56	0
4/21/2013	7,858	398	548	2,545	0.00	1,494	810	25	62	0
4/22/2013	7,645 e	410	519	2,678	0.00	1,694	810	25	62	200
4/23/2013	7,194	439	529	2,935	0.00	1,690	813	25	48	73
4/24/2013	6,360	496	559	3,414	0.00	1,695	821	26	72	72
4/25/2013	7,006	530	570	3,582	0.00	996	817	25	70	67
4/26/2013	8,078	529	542	3,675	0.00	991	815	25	65	53
4/27/2013	9,423	585	502	3,765	0.00	995	814	24	78	66
4/28/2013	10,870	584	509	3,893	0.00	963	815	24	77	0
4/29/2013	11,478	602	512	4,130	0.00	2,421	815	26	83	66
4/30/2013	12,147	616	499	4,064	0.00	2,998	817	27	83	0

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
3/25/2013	13,206	494	546	1,425	0.00	1,993	2,609	127	0	61
3/26/2013	13,081	485	549	1,358	0.00	1,998	2,517	133	0	53
3/27/2013	12,828	518	569	1,209	0.00	1,994	2,515	145	0	52
3/28/2013	12,400	512	606	1,160	0.00	2,794	2,695	140	13	40
3/29/2013	11,685	489	623	1,164	0.00	2,592	2,911	134	0	35
3/30/2013	11,347	437	631	1,159	0.24	2,597	2,904	131	0	0
3/31/2013	12,768	423	673	1,360	0.44	2,593	2,906	119	0	0
4/1/2013	14,131	404	790	1,607	0.12	691	866	37	7	0
4/2/2013	15,591	345	738	1,583	0.00	1,493	0	30	0	25
4/3/2013	17,013	335	672	1,484	0.00	1,496	0	27	7	17
4/4/2013	17,280	325	704	1,495	0.36	1,489	0	24	4	28
4/5/2013	17,499	244	685	1,618	0.00	1,494	0	24	7	15
4/6/2013	16,543	206	649	1,594	0.00	1,490	0	23	9	22
4/7/2013	15,960	181	618	1,550	0.08	1,493	0	23	18	25
4/8/2013	16,894	176	654	1,515	0.00	1,491	0	25	7	66
4/9/2013	16,949	153	694	1,463	0.00	1,498	0	25	14	25
4/10/2013	16,192	147	651	1,449	0.00	1,490	0	25	29	29
4/11/2013	15,813	173	618	1,396	0.00	1,499	0	25	23	38
4/12/2013	15,126	226	630	1,398	0.00	1,498	0	25	21	47
4/13/2013	14,456	319	620	1,253	0.00	1,494	0	25	33	0
4/14/2013	13,553	308	583	1,299	0.00	1,493	0	25	29	0
4/15/2013	13,180	284	599	1,337	0.00	895	0	24	31	113
4/16/2013	12,813	265	642	1,382	0.00	692	811	24	35	57
4/17/2013	11,253	288	590	1,615	0.00	696	809	23	33	51
4/18/2013	10,200	376	552	1,729	0.00	692	808	24	51	62
4/19/2013	9,213	402	578	2,000	0.00	992	807	25	55	61
4/20/2013	8,441	395	591	2,334	0.00	1,193	807	25	56	0
4/21/2013	7,858	398	548	2,545	0.00	1,494	810	25	62	0
4/22/2013	7,645 e	410	519	2,678	0.00	1,694	810	25	62	200
4/23/2013	7,194	439	531	2,935	0.00	1,690	813	25	48	73

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Delta Hydrology Conditions

Date	Sacramento River at Freeport + SRWTP cfs	Yolo Bypass cfs	East Side Streams cfs	San Joaquin River at Vernalis cfs	Rainfall inches	Clifton Court Forebay Intake cfs	Tracy Pumping Plant cfs	CCWD Pumping Plants cfs	Barker Slough Pumping Plant cfs	BBID Diversion cfs
2/17/2013	14,713	64	409	2,407	0.00	1,499	2,401	127	26	0
2/18/2013	14,269	64	401	2,410	0.00	1,495	2,383	105	26	18
2/19/2013	14,448	64	390	2,414	0.20	1,493	2,387	103	24	5
2/20/2013	14,907	65	410	2,452	0.00	1,492	2,562	115	18	2
2/21/2013	14,751	63	359	2,461	0.00	2,488	2,788	129	23	5
2/22/2013	14,374	61	344	2,458	0.00	2,055	3,065	121	29	5
2/23/2013	14,408	58	338	2,479	0.00	2,956	3,458	116	18	0
2/24/2013	14,248	58	351	2,501	0.00	2,494	3,458	103	27	0
2/25/2013	13,826	57	354	2,498	0.00	2,498	3,454	101	27	20
2/26/2013	13,571	56	322	2,437	0.00	2,498	3,456	108	24	13
2/27/2013	13,522	55	347	2,397	0.00	2,494	3,464	115	30	16
2/28/2013	13,397	55	342	2,272	0.00	2,491	3,056	120	24	25
3/1/2013	13,207	53	348	2,054	0.00	2,497	2,872	285	27	31
3/2/2013	12,915	52	331	1,940	0.00	2,998	2,867	273	23	0
3/3/2013	12,655	53	338	1,938	0.00	2,992	2,873	281	29	31
3/4/2013	12,901	52	378	1,944	0.00	2,491	2,877	298	27	0
3/5/2013	12,454	52	397	1,833	0.00	2,696	2,882	300	14	46
3/6/2013	12,121	74	433	1,917	0.04	2,989	2,899	294	23	43
3/7/2013	12,644	82	476	1,789	0.00	2,696	2,633	275	15	46
3/8/2013	12,119	65	438	1,745	0.00	2,897	2,529	290	23	65
3/9/2013	13,053	59	413	1,745	0.00	2,691	2,684	307	23	0
3/10/2013	12,373	54	402	1,853	0.00	2,692	2,562	300	28	45
3/11/2013	12,934	51	401	1,832	0.00	2,498	2,648	333	21	44
3/12/2013	14,972	50	424	1,563	0.00	2,491	2,661	341	11	52
3/13/2013	15,647	50	445	1,495	0.00	1,489	1,762	337	8	57
3/14/2013	15,516	114	453	1,418	0.00	999	1,703	325	8	68
3/15/2013	15,347	224	456	1,485	0.00	2,493	1,728	160	11	66
3/16/2013	15,367	283	460	1,506	0.00	2,496	1,719	170	8	0
3/17/2013	15,844	320	446	1,541	0.00	2,492	1,702	165	16	50
3/18/2013	15,969	342	405	1,542	0.00	2,997	1,693	171	6	54

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Delta Hydrology Conditions

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1/23/2013	17,638	85	424	1,502	0.04	3,491	989	281	15	0
1/24/2013	17,920	119	430	1,485	0.08	2,491	1,664	272	15	0
1/25/2013	17,906	114	450	1,480	0.04	993	1,730	260	15	0
1/26/2013	18,361	94	531	1,465	0.00	996	1,969	266	14	0
1/27/2013	19,774	87	555	1,452	0.00	990	1,973	222	16	0
1/28/2013	20,142	80	590	1,419	0.00	993	1,966	277	19	0
1/29/2013	20,354	77	557	1,426	0.00	990	1,956	279	14	0
1/30/2013	20,307	74	537	1,425	0.00	1,496	1,947	290	15	0
1/31/2013	19,835	74	547	1,454	0.00	1,499	1,946	292	16	0
2/1/2013	19,342	76	724	1,714	0.00	1,489	2,263	287	20	7
2/2/2013	18,915	74	710	1,813	0.00	1,497	2,401	266	14	0
2/3/2013	18,728	72	700	1,844	0.00	1,489	2,384	276	15	0
2/4/2013	18,414	71	548	1,858	0.00	1,493	2,386	278	20	0
2/5/2013	17,926	69	464	1,872	0.00	1,493	2,396	273	13	0
2/6/2013	18,652	68	489	1,872	0.00	1,488	2,392	270	16	0
2/7/2013	18,368	69	471	1,975	0.00	1,489	2,445	286	19	0
2/8/2013	18,029	76	472	2,275	0.00	1,492	2,494	288	15	0
2/9/2013	17,758	76	460	2,413	0.00	1,490	2,484	289	15	0
2/10/2013	17,646	71	444	2,436	0.00	1,490	2,474	290	20	0
2/11/2013	17,285	70	438	2,428	0.00	988	1,858	302	21	40
2/12/2013	16,806	70	431	2,403	0.00	986	1,609	301	15	17
2/13/2013	16,415	71	424	2,373	0.00	1,489	2,155	279	19	0
2/14/2013	15,823	69	419	2,360	0.00	1,490	2,387	120	14	24
2/15/2013	15,400	66	401	2,376	0.00	1,497	2,370	126	27	20
2/16/2013	14,991	64	405	2,398	0.00	1,500	2,388	133	18	0
2/17/2013	14,763	64	409	2,407	0.00	1,499	2,401	127	26	0
2/18/2013	14,319	64	401	2,410	0.00	1,495	2,383	105	26	18
2/19/2013	14,498	64	390	2,414	0.20	1,493	2,387	103	24	5
2/20/2013	14,957	65	410	2,452	0.00	1,492	2,562	115	18	2
2/21/2013	14,801	63	359	2,461	0.00	2,488	2,788	129	23	5

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Delta Hydrology Conditions

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12/10/2012	46,444	107	765	1,591	0.00	3,194	2,758	98	24	0
12/11/2012	40,291	91	654	1,549	0.00	6,673	3,904	105	18	0
12/12/2012	35,481	82	610	1,505	0.16	6,671	4,417	100	24	0
12/13/2012	32,091	74	625	1,471	0.00	6,671	4,413	90	24	0
12/14/2012	29,841	67	540	1,437	0.00	6,680	4,421	91	20	0
12/15/2012	27,794	66	503	1,408	0.12	6,676	4,368	103	21	0
12/16/2012	25,515	76	465	1,400	0.00	7,091	4,361	79	23	0
12/17/2012	24,300	88	530	1,390	0.08	7,091	4,357	90	26	0
12/18/2012	25,846	127	1,081	1,406	0.00	7,093	4,231	82	23	0
12/19/2012	30,314	94	855	1,407	0.00	1,488	2,388	84	20	0
12/20/2012	31,493	79	731	1,385	0.00	1,498	983	79	24	0
12/21/2012	30,085	1,733	812	1,365	0.08	1,493	985	78	20	0
12/22/2012	33,839	2,752	1,345	1,390	0.80	698	871	74	20	0
12/23/2012	46,469	5,890	2,167	1,555	0.44	697	817	85	24	0
12/24/2012	57,703	1,955	2,355	2,044	0.00	1,492	911	88	22	7
12/25/2012	65,581	12,601	1,638	3,507	0.20	1,490	986	81	22	0
12/26/2012	69,264	27,768	2,814	3,423	0.00	1,990	991	79	15	0
12/27/2012	68,377	23,846	1,972	3,008	0.00	1,879	1,307	82	15	7
12/28/2012	66,716	13,954	1,343	3,353	0.00	1,996	1,644	81	15	0
12/29/2012	62,863	3,931	1,112	3,208	0.00	1,986	1,656	83	15	0
12/30/2012	57,774	1,474	979	2,904	0.00	1,996	1,635	86	18	0
12/31/2012	50,623	1,459	888	2,620	0.04	1,992	1,586	84	15	0
1/1/2013	43,924	1,433	824	2,342	0.00	1,998	1,603	267	15	6
1/2/2013	38,549	1,381	808	2,120	0.00	2,410	2,479	263	14	3
1/3/2013	35,600	1,245	775	1,951	0.00	2,992	2,803	286	15	2
1/4/2013	33,558	710	710	1,867	0.00	1,997	1,984	238	15	3
1/5/2013	30,522	379	703	1,814	0.68	1,996	1,637	251	15	3
1/6/2013	28,616	366	789	1,868	0.44	1,554	2,475	244	16	0
1/7/2013	27,296	294	728	1,983	0.00	2,315	2,812	256	13	4
1/8/2013	26,274	221	677	2,173	0.00	3,358	698	258	16	0

SRWTP : Sacramento Regional Water Treatment Plant effluent.

Yolo Bypass : combined measurements of Cache Creek at Rumsey and Freemont Weir.

East Side Streams : combined stream flows of Cosumnes River at Michigan Bar, Mokelumne River at Woodbridge, miscellaneous streams estimated from Dry Creek at Galt (discontinued since Dec. 1997), and Calaveras River based on releases from New Hogan Dam.

Rainfall : incremental daily precipitation measured at Stockton Fire Station #4.

CCWD Pumping Plants : combined pumping at the Old River, Rock Slough and Middle River Plants.

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	mdEC	30dm	mdEC	30dm	mdEC	30dm	mdEC	30dm
09/06/2015	0.49	0.57	0.81	0.93	1.03	0.98	0.91	1.07
09/07/2015	0.48	0.57	0.81	0.92	1.05	0.98	0.89	1.06
09/08/2015	0.52	0.56	0.82	0.91	1.06	0.98	0.88	1.05
09/09/2015	0.59	0.56	0.83	0.90	1.02	0.98	0.88	1.05
09/10/2015	0.60	0.56	0.84	0.90	0.98	0.98	0.91	1.04
09/11/2015	0.49	0.56	0.84	0.89	0.95	0.98	0.91	1.03
09/12/2015	0.55	0.56	0.84	0.88	0.90	0.98	0.89	1.03
09/13/2015	0.59	0.57	0.84	0.88	0.89	0.97	0.89	1.02
09/14/2015	0.55	0.57	0.84	0.87	0.90	0.97	0.88	1.01
09/15/2015	0.55	0.57	0.82	0.87	0.90	0.97	0.87	1.00
09/16/2015	0.57	0.57	0.78	0.87	0.90	0.96	0.84	0.99
09/17/2015	0.53	0.56	0.74	0.86	0.91	0.96	0.82	0.98
09/18/2015	0.55	0.56	0.73	0.85	0.92	0.96	0.80	0.97
09/19/2015	0.55	0.55	0.71	0.85	0.92	0.96	0.79	0.96
09/20/2015	0.54	0.55	0.69	0.84	0.91	0.96	0.79	0.95
09/21/2015	0.52	0.55	0.67	0.83	0.91	0.96	0.80	0.94
09/22/2015	0.61	0.56	0.67	0.82	0.91	0.96	0.85	0.93
09/23/2015	0.68	0.57	0.66	0.82	0.91	0.96	0.83	0.92
09/24/2015	0.66	0.58	0.66	0.81	0.91	0.95	0.83	0.91
09/25/2015	0.59	0.58	0.66	0.80	0.90	0.95	0.84	0.90
09/26/2015	0.59	0.59	0.67	0.79	0.88	0.95	0.88	0.89
09/27/2015	0.59	0.58	0.67	0.79	0.85	0.95	0.94	0.88
09/28/2015	0.58	0.57	0.66	0.78	0.84	0.94	0.95	0.88
09/29/2015	0.57	0.57	0.66	0.77	0.82	0.94	0.97	0.88
09/30/2015	0.61	0.57	0.66	0.77	0.81	0.93	0.96	0.88
10/01/2015	0.59	0.57	0.71	0.76	0.82	0.92	0.91	0.88
10/02/2015	0.60	0.57	0.74	0.75	0.82	0.92	0.89	0.88
10/03/2015	0.59	0.57	0.73	0.75	0.83	0.91	0.88	0.88
10/04/2015	0.54	0.57	0.72	0.74	0.83	0.91	0.85	0.87
10/05/2015	0.56	0.57	0.69	0.74	0.84	0.90	0.81	0.87

Electrical Conductivity (EC) units: milliSiemens per Centimeter

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	mdEC	30dm	mdEC	30dm	mdEC	30dm	mdEC	30dm
08/03/2015	0.45	0.67	1.09	1.10	0.96	0.97	1.09	1.12
08/04/2015	0.54	0.67	1.08	1.09	0.98	0.97	1.09	1.11
08/05/2015	0.55	0.66	1.07	1.09	1.00	0.97	1.08	1.11
08/06/2015	0.66	0.66	1.06	1.09	1.09	0.97	1.08	1.11
08/07/2015	0.69	0.65	1.07	1.08	1.16	0.98	1.08	1.11
08/08/2015	0.68	0.65	1.07	1.08	1.13	0.98	1.08	1.10
08/09/2015	0.61	0.65	1.05	1.08	1.06	0.99	1.08	1.10
08/10/2015	0.61	0.65	1.05	1.08	0.98	0.99	1.09	1.10
08/11/2015	0.68	0.65	1.04	1.08	0.97	0.99	1.09	1.10
08/12/2015	0.49	0.65	1.03	1.07	0.97	0.99	1.10	1.10
08/13/2015	0.49	0.65	1.01	1.07	0.99	0.99	1.11	1.10
08/14/2015	0.50	0.65	0.99	1.07	1.02	1.00	1.12	1.10
08/15/2015	0.52	0.64	0.95	1.06	1.00	1.00	1.12	1.10
08/16/2015	0.53	0.64	0.92	1.06	1.01	1.00	1.12	1.10
08/17/2015	0.58	0.63	0.91	1.05	1.01	1.00	1.13	1.10
08/18/2015	0.65	0.63	0.92	1.05	0.99	1.00	1.13	1.10
08/19/2015	0.63	0.63	0.92	1.04	0.97	1.00	1.13	1.10
08/20/2015	0.74	0.62	0.91	1.04	0.94	1.00	1.14	1.11
08/21/2015	0.58	0.62	0.91	1.03	0.91	1.00	1.14	1.11
08/22/2015	0.45	0.61	0.91	1.03	0.91	1.00	1.14	1.11
08/23/2015	0.42	0.61	0.91	1.02	0.92	0.99	1.14	1.11
08/24/2015	0.36	0.61	0.90	1.01	0.94	0.99	1.14	1.11
08/25/2015	0.42	0.60	0.89	1.01	0.96	0.99	1.15	1.11
08/26/2015	0.46	0.59	0.89	1.00	0.96	0.98	1.15	1.11
08/27/2015	0.53	0.57	0.88	1.00	0.96	0.98	1.15	1.11
08/28/2015	0.75	0.57	0.88	0.99	0.96	0.98	1.13	1.11
08/29/2015	0.75	0.56	0.88	0.98	0.98	0.98	1.05	1.11
08/30/2015	0.80	0.57	0.89	0.98	0.99	0.99	0.96	1.11
08/31/2015	0.60	0.57	0.89	0.97	1.00	0.99	0.92	1.10
09/01/2015	0.56	0.58	0.89	0.96	0.99	0.99	0.91	1.09

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	mdEC	30dm	mdEC	30dm	mdEC	30dm	mdEC	30dm
07/11/2015	0.57	0.70	1.12	1.08	0.95	1.03	1.11	1.11
07/12/2015	0.57	0.69	1.11	1.09	0.93	1.03	1.11	1.12
07/13/2015	0.56	0.69	1.10	1.09	0.92	1.02	1.11	1.13
07/14/2015	0.53	0.69	1.09	1.10	0.93	1.02	1.11	1.14
07/15/2015	0.52	0.68	1.08	1.10	0.95	1.02	1.12	1.15
07/16/2015	0.66	0.68	1.08	1.10	0.99	1.01	1.12	1.16
07/17/2015	0.78	0.68	1.08	1.10	0.99	1.01	1.11	1.16
07/18/2015	0.78	0.68	1.09	1.10	0.98	1.01	1.11	1.17
07/19/2015	0.75	0.68	1.08	1.10	0.96	1.01	1.11	1.17
07/20/2015	0.61	0.68	1.07	1.10	0.95	1.01	1.11	1.17
07/21/2015	0.83	0.69	1.07	1.10	0.95	1.01	1.11	1.16
07/22/2015	0.75	0.69	1.08	1.10	0.95	1.00	1.10	1.16
07/23/2015	0.55	0.68	1.08	1.10	0.98	1.00	1.11	1.15
07/24/2015	0.41	0.67	1.06	1.11	1.01	1.00	1.11	1.15
07/25/2015	0.54	0.67	1.06	1.11	1.06	0.99	1.12	1.14
07/26/2015	0.74	0.67	1.07	1.11	1.04	0.99	1.12	1.14
07/27/2015	0.80	0.67	1.07	1.11	1.01	0.99	1.11	1.13
07/28/2015	0.94	0.68	1.07	1.11	1.01	0.99	1.12	1.13
07/29/2015	0.87	0.69	1.08	1.10	0.97	0.99	1.09	1.13
07/30/2015	0.93	0.70	1.09	1.10	0.95	0.98	1.11	1.12
07/31/2015	0.71	0.71	1.10	1.10	0.93	0.98	1.11	1.12
08/01/2015	0.51	0.70	1.10	1.10	0.94	0.98	1.10	1.12
08/02/2015	0.36	0.68	1.10	1.10	0.94	0.97	1.09	1.12
08/03/2015	0.45	0.67	1.09	1.10	0.96	0.97	1.09	1.12
08/04/2015	0.54	0.67	1.08	1.09	0.98	0.97	1.09	1.11
08/05/2015	0.55	0.66	1.07	1.09	1.00	0.97	1.08	1.11
08/06/2015	0.66	0.66	1.06	1.09	1.09	0.97	1.08	1.11
08/07/2015	0.69	0.65	1.07	1.08	1.16	0.98	1.08	1.11
08/08/2015	0.68	0.65	1.07	1.08	1.13	0.98	1.08	1.10
08/09/2015	0.61	0.65	1.05	1.08	1.06	0.99	1.08	1.10

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Delta Water Quality Conditions**South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	mdEC	30dm	mdEC	30dm	mdEC	30dm	mdEC	30dm
06/14/2015	0.68	0.62	0.98	0.79	1.04	0.96	0.82	0.72
06/15/2015	0.69	0.62	1.02	0.80	1.06	0.97	0.85	0.73
06/16/2015	0.81	0.63	1.04	0.81	1.03	0.98	0.86	0.73
06/17/2015	0.77	0.64	1.06	0.83	1.02	0.98	0.89	0.74
06/18/2015	0.67	0.65	1.09	0.84	1.00	0.99	0.93	0.75
06/19/2015	0.63	0.65	1.08	0.85	1.01	0.99	1.11	0.76
06/20/2015	0.72	0.66	1.07	0.87	1.01	1.00	1.23	0.78
06/21/2015	0.67	0.66	1.07	0.88	1.00	1.00	1.25	0.80
06/22/2015	0.68	0.66	1.04	0.89	1.02	1.01	1.24	0.82
06/23/2015	0.75	0.67	1.01	0.90	1.04	1.01	1.25	0.84
06/24/2015	0.75	0.67	1.01	0.91	1.11	1.02	1.25	0.86
06/25/2015	0.58	0.67	1.03	0.92	1.29	1.03	1.25	0.88
06/26/2015	0.61	0.67	1.05	0.93	1.12	1.03	1.26	0.90
06/27/2015	0.73	0.67	1.08	0.95	1.07	1.04	1.24	0.91
06/28/2015	0.69	0.67	1.12	0.96	1.01	1.04	1.22	0.93
06/29/2015	0.65	0.67	1.13	0.97	1.01	1.04	1.21	0.95
06/30/2015	0.54	0.67	1.12	0.98	1.02	1.04	1.19	0.97
07/01/2015	0.58	0.68	1.13	0.99	1.02	1.04	1.17	0.98
07/02/2015	0.70	0.68	1.15	1.00	1.06	1.04	1.17	1.00
07/03/2015	0.87	0.69	1.16	1.02	1.06	1.04	1.16	1.01
07/04/2015	0.77	0.70	1.17	1.03	1.06 e	1.04	1.14	1.02
07/05/2015	0.68	0.69	1.18	1.04	1.06 e	1.04	1.15	1.04
07/06/2015	0.74	0.69	1.16	1.05	0.96	1.04	1.17	1.05
07/07/2015	0.87	0.70	1.14	1.05	0.96	1.04	1.17	1.06
07/08/2015	0.98	0.71	1.13	1.06	0.96	1.04	1.15	1.07
07/09/2015	0.66	0.71	1.13	1.07	0.95	1.03	1.12	1.09
07/10/2015	0.59	0.70	1.12	1.08	0.96	1.03	1.11	1.10
07/11/2015	0.57	0.70	1.12	1.08	0.95	1.03	1.11	1.11
07/12/2015	0.57	0.69	1.11	1.09	0.93	1.03	1.11	1.12
07/13/2015	0.56	0.69	1.10	1.09	0.92	1.02	1.11	1.13

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Delta Water Quality Conditions**South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	mdEC	30dm	mdEC	30dm	mdEC	30dm	mdEC	30dm
05/04/2015	0.43	0.28	0.42	0.26	0.74	0.74	0.57	0.30
05/05/2015	0.46	0.29	0.43	0.26	0.72	0.74	0.61	0.31
05/06/2015	0.50	0.30	0.45	0.26	0.73	0.74	0.61	0.32
05/07/2015	0.45	0.31	0.47	0.27	0.74	0.74	0.60	0.32
05/08/2015	0.48	0.32	0.49	0.27	0.75	0.74	0.62	0.33
05/09/2015	0.43	0.33	0.52	0.28	0.78	0.74	0.64	0.34
05/10/2015	0.41	0.34	0.55	0.30	0.77	0.74	0.67	0.36
05/11/2015	0.41	0.35	0.60	0.31	0.81	0.74	0.71	0.38
05/12/2015	0.46	0.36	0.63	0.32	0.82	0.74	0.72	0.39
05/13/2015	0.50	0.37	0.64	0.34	0.86	0.75	0.71	0.41
05/14/2015	0.50	0.38	0.65	0.35	0.87	0.75	0.71	0.43
05/15/2015	0.53	0.39	0.65	0.37	0.87	0.76	0.71	0.44
05/16/2015	0.50	0.41	0.66	0.39	0.84	0.76	0.71	0.46
05/17/2015	0.44	0.42	0.66	0.40	0.83	0.77	0.71	0.48
05/18/2015	0.44	0.42	0.67	0.42	0.85	0.77	0.71	0.50
05/19/2015	0.51	0.43	0.68	0.44	0.85	0.77	0.70	0.52
05/20/2015	0.54	0.45	0.68	0.45	0.87	0.77	0.69	0.54
05/21/2015	0.57	0.46	0.70	0.47	0.89	0.78	0.68	0.55
05/22/2015	0.63	0.47	0.70	0.49	0.89	0.78	0.65	0.57
05/23/2015	0.62	0.48	0.70	0.50	0.89	0.79	0.68	0.58
05/24/2015	0.60	0.48	0.70	0.52	0.91	0.79	0.68	0.60
05/25/2015	0.54	0.49	0.71	0.53	0.92	0.80	0.68	0.61
05/26/2015	0.58	0.49	0.71	0.55	0.93	0.81	0.68	0.62
05/27/2015	0.69	0.50	0.70	0.56	0.95	0.82	0.68	0.63
05/28/2015	0.78	0.51	0.71	0.57	0.98	0.82	0.69	0.64
05/29/2015	0.65	0.52	0.73	0.59	1.00	0.83	0.68	0.65
05/30/2015	0.58	0.52	0.75	0.60	1.00	0.84	0.68	0.66
05/31/2015	0.50	0.52	0.78	0.62	1.00	0.85	0.71	0.66
06/01/2015	0.51	0.52	0.80	0.63	1.02	0.86	0.71	0.67
06/02/2015	0.58	0.53	0.81	0.64	1.01	0.87	0.72	0.68

Electrical Conductivity (EC) units: milliSiemens per Centimeter

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Delta Water Quality Conditions**South Delta Stations**

Date	Vernalls		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
04/08/2015	0.13	0.51	0.38	0.90	0.78	1.07	0.43	0.68
04/09/2015	0.15	0.49	0.21	0.87	0.78	1.05	0.26	0.66
04/10/2015	0.16	0.47	0.15	0.83	0.82	1.04	0.15	0.63
04/11/2015	0.16	0.45	0.16	0.80	0.78	1.02	0.17	0.61
04/12/2015	0.17	0.44	0.21	0.76	0.74	1.01	0.21	0.58
04/13/2015	0.12	0.42	0.23	0.73	0.71	0.99	0.23	0.56
04/14/2015	0.11	0.40	0.23	0.69	0.71	0.97	0.23	0.53
04/15/2015	0.14	0.38	0.14	0.66	0.68	0.95	0.19	0.50
04/16/2015	0.14	0.36	0.13	0.62	0.69	0.93	0.13	0.48
04/17/2015	0.15	0.34	0.15	0.58	0.72	0.91	0.16	0.45
04/18/2015	0.18	0.32	0.15	0.55	0.76	0.90	0.17	0.43
04/19/2015	0.20	0.31	0.16	0.51	0.79	0.88	0.17	0.41
04/20/2015	0.22	0.29	0.17	0.48	0.79	0.86	0.18	0.38
04/21/2015	0.25	0.27	0.19	0.44	0.78	0.84	0.19	0.36
04/22/2015	0.29	0.26	0.21	0.41	0.75	0.82	0.21	0.34
04/23/2015	0.35	0.25	0.22	0.38	0.73	0.81	0.23	0.32
04/24/2015	0.41	0.24	0.24	0.34	0.73	0.79	0.25	0.30
04/25/2015	0.42	0.24	0.25	0.31	0.72	0.77	0.28	0.28
04/26/2015	0.44	0.25	0.28	0.29	0.71	0.75	0.31	0.27
04/27/2015	0.45	0.25	0.30	0.26	0.71	0.74	0.35	0.26
04/28/2015	0.46	0.26	0.32	0.25	0.73	0.73	0.39	0.26
04/29/2015	0.44	0.26	0.33	0.24	0.72	0.72	0.43	0.27
04/30/2015	0.48	0.27	0.34	0.25	0.72	0.72	0.47	0.28
05/01/2015	0.51	0.27	0.35	0.25	0.71	0.72	0.50	0.28
05/02/2015	0.45	0.28	0.37	0.25	0.74	0.72	0.53	0.29
05/03/2015	0.44	0.28	0.40	0.26	0.75	0.73	0.55	0.30
05/04/2015	0.43	0.28	0.42	0.26	0.74	0.74	0.57	0.30
05/05/2015	0.46	0.29	0.43	0.26	0.72	0.74	0.61	0.31
05/06/2015	0.50	0.30	0.45	0.26	0.73	0.74	0.61	0.32
05/07/2015	0.45	0.31	0.47	0.27	0.74	0.74	0.60	0.32

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalls		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
03/04/2015	0.98	0.98	1.14	0.97	1.11	1.21	1.02	0.96
03/05/2015	0.85	0.97	1.18	0.98	1.10	1.20	1.08	0.97
03/06/2015	0.67	0.95	1.21	0.98	1.13	1.20	1.10	0.97
03/07/2015	0.62	0.93	1.23	0.99	1.16	1.19	1.07	0.96
03/08/2015	0.70	0.91	1.24	1.00	1.21	1.19	1.02	0.96
03/09/2015	0.87	0.91	1.24	1.01	1.23	1.19	0.94	0.95
03/10/2015	0.88	0.90	1.25	1.01	1.22	1.18	0.89	0.95
03/11/2015	0.73	0.90	1.25	1.02	1.23	1.18	0.88	0.94
03/12/2015	0.68	0.89	1.26	1.02	1.24	1.18	0.95	0.94
03/13/2015	0.67	0.88	1.25	1.03	1.22	1.18	0.98	0.94
03/14/2015	0.62	0.87	1.25	1.04	1.23	1.17	1.03	0.95
03/15/2015	0.73	0.86	1.24	1.04	1.25	1.17	1.04	0.95
03/16/2015	0.77	0.85	1.23	1.05	1.26	1.18	0.99	0.95
03/17/2015	0.79	0.84	1.24	1.06	1.28	1.18	0.93	0.95
03/18/2015	0.69	0.83	1.25	1.07	1.29	1.18	0.86	0.94
03/19/2015	0.63	0.81	1.24	1.09	1.29	1.19	0.85	0.94
03/20/2015	0.72	0.81	1.23	1.10	1.30	1.19	0.86	0.93
03/21/2015	0.74	0.80	1.24	1.11	1.32	1.20	0.88	0.93
03/22/2015	0.70	0.80	1.23	1.13	1.33	1.20	0.88	0.93
03/23/2015	0.73	0.79	1.21	1.14	1.31	1.21	0.86	0.93
03/24/2015	0.77	0.79	1.20	1.15	1.28	1.21	0.83	0.93
03/25/2015	0.72	0.79	1.18	1.16	1.25	1.21	0.82	0.93
03/26/2015	0.34	0.77	1.15	1.17	1.23	1.22	0.80	0.92
03/27/2015	0.20	0.75	1.11	1.17	1.20	1.22	0.79	0.92
03/28/2015	0.20	0.73	1.01	1.18	1.18	1.22	0.62	0.91
03/29/2015	0.25	0.71	0.79	1.17	1.08	1.21	0.24	0.89
03/30/2015	0.38	0.69	0.45	1.15	0.96	1.21	0.20	0.87
03/31/2015	0.41	0.67	0.26	1.13	0.85	1.20	0.23	0.85
04/01/2015	0.36	0.65	0.22	1.10	0.62	1.18	0.31	0.83
04/02/2015	0.30	0.62	0.26	1.07	0.54	1.16	0.36	0.81

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalls		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
02/04/2015	1.27	0.98	1.01	1.06	1.33	1.35	1.11	0.96
02/05/2015	1.14	0.98	1.01	1.06	1.32	1.35	1.23	0.97
02/06/2015	1.09	0.98	1.01	1.05	1.30	1.34	1.22	0.97
02/07/2015	1.05	0.98	1.03	1.05	1.33	1.34	1.12	0.97
02/08/2015	1.01	0.98	1.07	1.04	1.35	1.34	1.02	0.97
02/09/2015	0.97	0.98	1.05	1.04	1.38	1.34	1.02	0.97
02/10/2015	0.89	0.98	1.09	1.04	1.24	1.34	0.95	0.97
02/11/2015	0.97	0.98	1.07	1.04	1.26	1.33	0.90	0.97
02/12/2015	0.97	0.98	1.05	1.04	1.28	1.32	0.84	0.96
02/13/2015	1.08	0.98	1.02	1.03	1.26	1.31	0.93	0.96
02/14/2015	1.10	0.99	0.97	1.03	1.21	1.30	0.94	0.96
02/15/2015	1.05	0.99	0.93	1.03	1.14	1.28	1.04	0.96
02/16/2015	1.01	1.00	0.88	1.02	1.14	1.27	1.07	0.97
02/17/2015	0.98	1.00	0.85	1.01	1.14	1.27	1.05	0.97
02/18/2015	0.92	1.01	0.84	1.01	1.16	1.26	1.02	0.98
02/19/2015	0.87	1.01	0.86	1.00	1.17	1.26	1.00	0.98
02/20/2015	0.83	1.00	0.87	0.99	1.19	1.26	0.92	0.98
02/21/2015	0.87	1.01	0.88	0.99	1.21	1.26	0.86	0.98
02/22/2015	0.87	1.01	0.88	0.99	1.21	1.26	0.81	0.98
02/23/2015	0.90	1.01	0.90	0.98	1.20	1.26	0.88	0.98
02/24/2015	0.84	1.01	0.90	0.98	1.11	1.25	0.87	0.98
02/25/2015	0.81	1.00	0.90	0.98	1.13	1.24	0.89	0.98
02/26/2015	0.82	0.99	0.90	0.97	1.19	1.24	0.86	0.98
02/27/2015	0.84	0.99	0.92	0.97	1.20	1.24	0.84	0.98
02/28/2015	0.87	0.99	0.96	0.97	1.16	1.23	0.86	0.97
03/01/2015	0.99	0.98	1.00	0.97	1.10	1.23	0.87	0.97
03/02/2015	1.07	0.99	1.06	0.97	1.10	1.22	0.88	0.96
03/03/2015	1.07	0.99	1.10	0.97	1.12	1.21	0.95	0.96
03/04/2015	0.98	0.98	1.14	0.97	1.11	1.21	1.02	0.96
03/05/2015	0.85	0.97	1.18	0.98	1.10	1.20	1.08	0.97

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

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
01/05/2015	1.08	0.95	1.16	0.91	1.33	1.09	1.09	0.89
01/06/2015	1.07	0.96	1.16	0.93	1.39	1.12	1.08	0.91
01/07/2015	1.05	0.98	1.16	0.95	1.37	1.14	1.09	0.92
01/08/2015	1.04	0.98	1.15	0.96	1.37	1.16	1.08	0.94
01/09/2015	1.02	0.98	1.15	0.98	1.41	1.19	1.07	0.95
01/10/2015	0.98	0.99	1.15	0.99	1.35	1.21	1.06	0.96
01/11/2015	0.97	1.00	1.14	1.00	1.38	1.22	1.03	0.97
01/12/2015	0.97	1.02	1.12	1.00	1.43	1.24	0.99	0.98
01/13/2015	0.97	1.03	1.10	1.01	1.49	1.26	0.98	0.99
01/14/2015	0.96	1.05	1.09	1.02	1.62	1.28	0.98	1.01
01/15/2015	0.91	1.05	1.08	1.03	1.64	1.31	0.98	1.03
01/16/2015	0.85	1.05	1.07	1.04	1.53	1.33	0.97	1.04
01/17/2015	0.87	1.06	1.07	1.06	1.47	1.35	0.90	1.05
01/18/2015	0.86	1.05	1.05	1.07	1.37	1.37	0.87	1.05
01/19/2015	0.86	1.05	1.04	1.08	1.26	1.38	0.88	1.05
01/20/2015	0.87	1.04	1.03	1.09	1.22	1.39	0.87	1.05
01/21/2015	0.85	1.04	1.02	1.09	1.18	1.39	0.87	1.04
01/22/2015	0.83	1.03	1.00	1.10	1.20	1.40	0.88	1.04
01/23/2015	0.83	1.01	1.00	1.10	1.23	1.40	0.87	1.03
01/24/2015	0.87	1.00	1.00	1.10	1.31	1.40	0.86	1.03
01/25/2015	0.91	0.99	1.00	1.10	1.35	1.40	0.85	1.02
01/26/2015	0.95	0.99	1.01	1.10	1.35	1.40	0.88	1.01
01/27/2015	1.01	0.98	1.02	1.09	1.30	1.39	0.91	1.00
01/28/2015	1.01	0.98	1.02	1.09	1.27	1.38	0.94	0.99
01/29/2015	0.98	0.97	1.02	1.08	1.26	1.37	0.99	0.99
01/30/2015	1.04	0.97	1.04	1.08	1.33	1.36	1.00	0.98
01/31/2015	1.00	0.96	1.05	1.08	1.31	1.36	0.98	0.98
02/01/2015	1.02	0.96	1.04	1.07	1.26	1.35	0.97	0.97
02/02/2015	1.18	0.96	1.03	1.07	1.24	1.35	0.97	0.97
02/03/2015	1.32	0.97	1.02	1.07	1.26	1.35	0.98	0.96

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalls		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
12/07/2014	0.64	0.56	0.61	0.51	0.68	0.69	0.55	NC
12/08/2014	0.72	0.57	0.63	0.52	0.66	0.70	0.60	NC
12/09/2014	0.88	0.59	0.65	0.53	0.65	0.70	0.63	NC
12/10/2014	0.91	0.60	0.71	0.54	0.69	0.71	0.67	NC
12/11/2014	0.81	0.61	0.84	0.56	0.79	0.72	0.80	NC
12/12/2014	0.64	0.62	0.90	0.58	0.83	0.73	0.78	NC
12/13/2014	0.45	0.61	0.89	0.59	0.83	0.73	0.74	NC
12/14/2014	0.47	0.61	0.85	0.60	1.01	0.75	0.49	NC
12/15/2014	0.59	0.61	0.81	0.62	0.93	0.76	0.43	NC
12/16/2014	0.70	0.62	0.79	0.63	0.93	0.76	0.52	NC
12/17/2014	0.82	0.63	0.67	0.63	0.84	0.77	0.61	NC
12/18/2014	0.85	0.64	0.59	0.63	0.77	0.77	0.71	NC
12/19/2014	0.91	0.65	0.68	0.64	0.84	0.77	0.81	NC
12/20/2014	1.00	0.67	0.79	0.65	0.97	0.78	0.82	NC
12/21/2014	1.01	0.69	0.80	0.66	1.01	0.79	0.91	NC
12/22/2014	1.09	0.70	0.85	0.67	1.04	0.80	0.96	NC
12/23/2014	1.17	0.72	0.92	0.68	1.12	0.81	0.99	NC
12/24/2014	1.18	0.74	0.94	0.69	1.19	0.83	1.07	NC
12/25/2014	1.17	0.76	0.97	0.71	1.21	0.85	1.12	NC
12/26/2014	1.17	0.78	1.05	0.72	1.30	0.86	1.13	NC
12/27/2014	1.18	0.80	1.11	0.74	1.50	0.89	1.13	NC
12/28/2014	1.18	0.81	1.12	0.76	1.55	0.92	1.14	NC
12/29/2014	1.18	0.83	1.13	0.78	1.58	0.94	1.16	NC
12/30/2014	1.17	0.85	1.14	0.80	1.53	0.97	1.15	0.79
12/31/2014	1.15	0.86	1.15	0.82	1.47	0.99	1.16	0.80
01/01/2015	1.13	0.88	1.15	0.84	1.55	1.02	1.15	0.82
01/02/2015	1.12	0.90	1.15	0.85	1.37	1.03	1.13	0.84
01/03/2015	1.07	0.92	1.15	0.87	1.32	1.05	1.13	0.85
01/04/2015	1.06	0.93	1.16	0.89	1.32	1.07	1.12	0.87
01/05/2015	1.08	0.95	1.16	0.91	1.33	1.09	1.09	0.89

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Delta Water Quality Conditions**South Delta Stations**

Date	Vernalls		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
11/10/2014	0.47	0.36	0.32	0.42	0.54	0.87	0.38	0.44
11/11/2014	0.50	0.36	0.37	0.41	0.53	0.86	0.45	0.43
11/12/2014	0.52	0.36	0.42	0.40	0.52	0.85	0.46	0.42
11/13/2014	0.54	0.36	0.44	0.40	0.55	0.84	0.50	0.42
11/14/2014	0.54	0.36	0.45	0.39	0.62	0.83	0.54	0.41
11/15/2014	0.53	0.36	0.47	0.39	0.67	0.83	0.57	0.41
11/16/2014	0.53	0.36	0.49	0.39	0.68	0.82	0.57	0.41
11/17/2014	0.53	0.37	0.50	0.39	0.72	0.82	0.56	0.41
11/18/2014	0.52	0.37	0.51	0.38	0.74	0.81	0.57	0.41
11/19/2014	0.52	0.37	0.51	0.38	0.77	0.81	0.57	0.42
11/20/2014	0.53	0.37	0.51	0.38	0.76	0.81	0.56	0.42
11/21/2014	0.54	0.38	0.52	0.38	0.73	0.80	0.55	0.42
11/22/2014	0.56	0.39	0.54	0.38	0.71	0.80	0.55	0.42
11/23/2014	0.59	0.40	0.53	0.38	0.72	0.79	0.56	0.41
11/24/2014	0.61	0.41	0.54	0.37	0.70	0.78	0.57	0.41
11/25/2014	0.62	0.42	0.54	0.37	0.72	0.77	0.59	0.42
11/26/2014	0.62	0.43	0.55	0.38	0.74	0.77	0.62	0.42
11/27/2014	0.64	0.44	0.56	0.39	0.76	0.76	0.62	0.43
11/28/2014	0.66	0.45	0.58	0.40	0.75	0.75	NR	NC
11/29/2014	0.68	0.47	0.59	0.41	0.75	0.74	NR	NC
11/30/2014	0.68	0.48	0.59	0.42	0.75	0.73	NR	NC
12/01/2014	0.63	0.50	0.58	0.43	0.76	0.72	0.67	NC
12/02/2014	0.61	0.51	0.57	0.44	0.80	0.71	0.67	NC
12/03/2014	0.58	0.52	0.58	0.46	0.85	0.70	0.62	NC
12/04/2014	0.51	0.53	0.59	0.47	0.82	0.70	0.61	NC
12/05/2014	0.56	0.54	0.59	0.48	0.73	0.69	0.59	NC
12/06/2014	0.61	0.55	0.61	0.50	0.69	0.69	0.52	NC
12/07/2014	0.64	0.56	0.61	0.51	0.68	0.69	0.55	NC
12/08/2014	0.72	0.57	0.63	0.52	0.66	0.70	0.60	NC
12/09/2014	0.88	0.59	0.65	0.53	0.65	0.70	0.63	NC

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Delta Water Quality Conditions**South Delta Stations**

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	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
10/06/2014	0.44	0.61	0.69	0.70	1.09	1.11	0.69	0.66
10/07/2014	0.48	0.61	0.70	0.70	1.08	1.11	0.71	0.67
10/08/2014	0.47	0.62	0.71	0.70	1.02	1.12	0.73	0.67
10/09/2014	0.43	0.61	0.72	0.70	0.95	1.12	0.74	0.67
10/10/2014	0.44	0.61	0.71	0.70	0.91	1.12	0.74	0.68
10/11/2014	0.51	0.61	0.69	0.70	0.89	1.11	0.72	0.68
10/12/2014	0.47	0.61	0.65	0.70	0.85	1.10	0.70	0.68
10/13/2014	0.50	0.60	0.60	0.70	0.84	1.09	0.67	0.69
10/14/2014	0.50	0.60	0.60	0.70	0.83	1.09	0.64	0.69
10/15/2014	0.50	0.59	0.58	0.69	0.83	1.07	0.61	0.69
10/16/2014	0.47	0.59	0.55	0.69	0.84	1.06	0.58	0.69
10/17/2014	0.46	0.58	0.54	0.68	0.84	1.05	0.56	0.69
10/18/2014	0.46	0.57	0.54	0.67	0.82	1.03	0.55	0.68
10/19/2014	0.46	0.57	0.55	0.67	0.82	1.02	0.54	0.68
10/20/2014	0.45	0.56	0.56	0.66	0.86	1.00	0.53	0.67
10/21/2014	0.41	0.56	0.56	0.65	0.88	0.99	0.54	0.67
10/22/2014	0.41	0.55	0.58	0.65	0.90	0.98	0.56	0.67
10/23/2014	0.28	0.53	0.60	0.65	0.91	0.98	0.56	0.66
10/24/2014	0.29	0.52	0.60	0.64	0.92	0.97	0.59	0.66
10/25/2014	0.34	0.50	0.58	0.64	0.90	0.97	0.59	0.65
10/26/2014	0.30	0.49	0.55	0.64	0.91	0.96	0.56	0.65
10/27/2014	0.30	0.48	0.41	0.63	0.95	0.96	0.48	0.64
10/28/2014	0.29	0.47	0.32	0.61	1.00	0.95	0.35	0.63
10/29/2014	0.28	0.46	0.27	0.60	1.05	0.94	0.30	0.61
10/30/2014	0.23	0.44	0.26	0.58	1.06	0.94	0.27	0.60
10/31/2014	0.21	0.43	0.25	0.57	1.06	0.94	0.27	0.58
11/01/2014	0.20	0.41	0.22	0.55	1.09	0.94	0.25	0.57
11/02/2014	0.20	0.40	0.21	0.54	1.14	0.94	0.23	0.55
11/03/2014	0.22	0.38	0.19	0.52	1.13	0.95	0.21	0.54
11/04/2014	0.25	0.37	0.19	0.50	0.91	0.94	0.21	0.52

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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
09/02/2014	0.55	0.41	0.65	0.69	1.06	1.14	0.62	0.62
09/03/2014	0.56	0.42	0.65	0.69	1.04	1.13	0.63	0.62
09/04/2014	0.50	0.42	0.66	0.69	1.03	1.12	0.63	0.61
09/05/2014	0.45	0.43	0.70	0.69	1.00	1.11	0.64	0.61
09/06/2014	0.42	0.43	0.70	0.69	0.96	1.09	0.64	0.61
09/07/2014	0.38	0.43	0.70	0.69	0.96	1.08	0.64	0.60
09/08/2014	0.40	0.43	0.69	0.69	0.95	1.08	0.65	0.60
09/09/2014	0.48	0.43	0.68	0.69	0.91	1.07	0.65	0.59
09/10/2014	0.46	0.44	0.66	0.69	0.94	1.07	0.66	0.59
09/11/2014	0.58	0.44	0.67	0.69	1.08	1.06	0.64	0.60
09/12/2014	0.64	0.45	0.67	0.69	1.08	1.06	0.59	0.60
09/13/2014	0.60	0.46	0.68	0.69	1.13	1.06	0.55	0.60
09/14/2014	0.57	0.47	0.70	0.69	1.07	1.05	0.55	0.60
09/15/2014	0.68	0.48	0.71	0.69	1.20	1.05	0.58	0.60
09/16/2014	0.68	0.49	0.73	0.69	1.24	1.06	0.60	0.60
09/17/2014	0.67	0.49	0.75	0.69	1.25	1.05	0.62	0.60
09/18/2014	0.66	0.50	0.76	0.69	1.24	1.05	0.65	0.61
09/19/2014	0.63	0.51	0.74	0.69	1.27	1.05	0.67	0.61
09/20/2014	0.61	0.51	0.73	0.69	1.30	1.06	0.66	0.61
09/21/2014	0.62	0.52	0.74	0.69	1.23	1.06	0.66	0.62
09/22/2014	0.63	0.53	0.71	0.69	1.12	1.06	0.69	0.62
09/23/2014	0.70	0.53	0.69	0.69	1.07	1.06	0.71	0.63
09/24/2014	0.73	0.54	0.69	0.69	1.11	1.06	0.72	0.63
09/25/2014	0.78	0.56	0.69	0.69	1.09	1.07	0.70	0.63
09/26/2014	0.68	0.56	0.69	0.69	1.09	1.07	0.68	0.64
09/27/2014	0.61	0.57	0.69	0.69	1.09	1.08	0.68	0.64
09/28/2014	0.62	0.58	0.69	0.69	1.16	1.08	0.71	0.64
09/29/2014	0.64	0.58	0.69	0.69	1.24	1.09	0.75	0.65
09/30/2014	0.71	0.59	0.71	0.69	1.23	1.10	0.76	0.65
10/01/2014	0.73	0.60	0.73	0.70	1.13	1.11	0.73	0.66

Electrical Conductivity (EC) units: milliSiemens per Centimeter

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

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
08/09/2014	0.41	0.33	0.70	0.71	1.11	1.14	0.78	0.82
08/10/2014	0.38	0.33	0.69	0.71	1.07	1.14	0.80	0.82
08/11/2014	0.38	0.33	0.68	0.70	1.14	1.15	0.61	0.81
08/12/2014	0.34	0.32	0.69	0.70	1.17	1.15	0.58	0.79
08/13/2014	0.36	0.32	0.68	0.70	1.16	1.16	0.56	0.78
08/14/2014	0.40	0.33	0.68	0.70	1.19	1.16	0.54	0.77
08/15/2014	0.40	0.33	0.69	0.70	1.22	1.17	0.54	0.75
08/16/2014	0.40	0.33	0.70	0.70	1.19	1.18	0.55	0.74
08/17/2014	0.38	0.34	0.71	0.69	1.22	1.19	0.55	0.73
08/18/2014	0.40	0.34	0.73	0.69	1.26	1.20	0.56	0.72
08/19/2014	0.42	0.34	0.74	0.69	1.26	1.21	0.56	0.71
08/20/2014	0.44	0.35	0.75	0.69	1.27	1.22	0.55	0.70
08/21/2014	0.44	0.35	0.74	0.70	1.23	1.23	0.55	0.69
08/22/2014	0.47	0.36	0.74	0.70	1.16	1.24	0.56	0.68
08/23/2014	0.45	0.36	0.74	0.70	1.09	1.24	0.57	0.67
08/24/2014	0.44	0.37	0.74	0.70	1.08	1.24	0.58	0.66
08/25/2014	0.44	0.37	0.73	0.70	1.01	1.23	0.59	0.66
08/26/2014	0.42	0.37	0.71	0.70	0.96	1.23	0.59	0.65
08/27/2014	0.43	0.38	0.68	0.70	0.95	1.22	0.59	0.64
08/28/2014	0.45	0.38	0.66	0.70	0.94	1.20	0.58	0.64
08/29/2014	0.42	0.39	0.65	0.70	0.94	1.19	0.59	0.63
08/30/2014	0.48	0.39	0.65	0.70	0.94	1.18	0.62	0.63
08/31/2014	0.48	0.40	0.64	0.69	0.94	1.16	0.64	0.63
09/01/2014	0.46	0.40	0.64	0.69	0.99	1.15	0.63	0.63
09/02/2014	0.55	0.41	0.65	0.69	1.06	1.14	0.62	0.62
09/03/2014	0.56	0.42	0.65	0.69	1.04	1.13	0.63	0.62
09/04/2014	0.50	0.42	0.66	0.69	1.03	1.12	0.63	0.61
09/05/2014	0.45	0.43	0.70	0.69	1.00	1.11	0.64	0.61
09/06/2014	0.42	0.43	0.70	0.69	0.96	1.09	0.64	0.61
09/07/2014	0.38	0.43	0.70	0.69	0.96	1.08	0.64	0.60

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	mdEC	30dm	mdEC	30dm	mdEC	30dm	mdEC	30dm
07/06/2015	0.74	0.69	1.16	1.05	0.96	1.04	1.17	1.05
07/07/2015	0.87	0.70	1.14	1.05	0.96	1.04	1.17	1.06
07/08/2015	0.98	0.71	1.13	1.06	0.96	1.04	1.15	1.07
07/09/2015	0.66	0.71	1.13	1.07	0.95	1.03	1.12	1.09
07/10/2015	0.59	0.70	1.12	1.08	0.96	1.03	1.11	1.10
07/11/2015	0.57	0.70	1.12	1.08	0.95	1.03	1.11	1.11
07/12/2015	0.57	0.69	1.11	1.09	0.93	1.03	1.11	1.12
07/13/2015	0.56	0.69	1.10	1.09	0.92	1.02	1.11	1.13
07/14/2015	0.53	0.69	1.09	1.10	0.93	1.02	1.11	1.14
07/15/2015	0.52	0.68	1.08	1.10	0.95	1.02	1.12	1.15
07/16/2015	0.66	0.68	1.08	1.10	0.99	1.01	1.12	1.16
07/17/2015	0.78	0.68	1.08	1.10	0.99	1.01	1.11	1.16
07/18/2015	0.78	0.68	1.09	1.10	0.98	1.01	1.11	1.17
07/19/2015	0.75	0.68	1.08	1.10	0.96	1.01	1.11	1.17
07/20/2015	0.61	0.68	1.07	1.10	0.95	1.01	1.11	1.17
07/21/2015	0.83	0.69	1.07	1.10	0.95	1.01	1.11	1.16
07/22/2015	0.75	0.69	1.08	1.10	0.95	1.00	1.10	1.16
07/23/2015	0.55	0.68	1.08	1.10	0.98	1.00	1.11	1.15
07/24/2015	0.41	0.67	1.06	1.11	1.01	1.00	1.11	1.15
07/25/2015	0.54	0.67	1.06	1.11	1.06	0.99	1.12	1.14
07/26/2015	0.74	0.67	1.07	1.11	1.04	0.99	1.12	1.14
07/27/2015	0.80	0.67	1.07	1.11	1.01	0.99	1.11	1.13
07/28/2015	0.94	0.68	1.07	1.11	1.01	0.99	1.12	1.13
07/29/2015	0.87	0.69	1.08	1.10	0.97	0.99	1.09	1.13
07/30/2015	0.93	0.70	1.09	1.10	0.95	0.98	1.11	1.12
07/31/2015	0.71	0.71	1.10	1.10	0.93	0.98	1.11	1.12
08/01/2015	0.51	0.70	1.10	1.10	0.94	0.98	1.10	1.12
08/02/2015	0.36	0.68	1.10	1.10	0.94	0.97	1.09	1.12
08/03/2015	0.45	0.67	1.09	1.10	0.96	0.97	1.09	1.12
08/04/2015	0.54	0.67	1.08	1.09	0.98	0.97	1.09	1.11

Electrical Conductivity (EC) units: milliSiemens per Centimeter

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30dm : thirty day running mean

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalls		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
06/03/2014	0.31	0.21	0.42	0.27	0.87	1.00	0.47	0.27
06/04/2014	0.30	0.22	0.44	0.28	1.02	0.99	0.49	0.28
06/05/2014	0.30	0.22	0.45	0.28	1.10	0.99	0.51	0.29
06/06/2014	0.36	0.23	0.46	0.29	1.20	1.00	0.51	0.30
06/07/2014	0.38	0.23	0.46	0.30	1.22	1.00	0.51	0.31
06/08/2014	0.37	0.24	0.47	0.31	1.24	1.00	0.51	0.33
06/09/2014	0.37	0.25	0.48	0.32	1.25	1.01	0.52	0.34
06/10/2014	0.43	0.26	0.46	0.33	1.01	1.00	0.51	0.35
06/11/2014	0.43	0.27	0.44	0.34	0.90	0.99	0.54	0.36
06/12/2014	0.44	0.28	0.46	0.35	0.84	0.98	0.55	0.37
06/13/2014	0.40 e	0.29	0.48 e	0.36	0.80 e	0.97	0.55 e	0.38
06/14/2014	0.40	0.30	0.50	0.37	0.79	0.96	0.58	0.40
06/15/2014	0.38	0.31	0.50	0.38	0.80	0.95	0.59	0.41
06/16/2014	0.37	0.31	0.52	0.40	0.85	0.94	0.60	0.43
06/17/2014	0.37	0.32	0.54	0.41	0.91	0.94	0.60	0.44
06/18/2014	0.36	0.32	0.56	0.42	0.94	0.93	0.62	0.46
06/19/2014	0.35	0.33	0.57	0.43	0.94	0.93	0.62	0.47
06/20/2014	0.45	0.34	0.57	0.44	1.00	0.93	0.63	0.48
06/21/2014	0.42	0.34	0.56	0.45	0.95	0.93	0.63	0.49
06/22/2014	0.39	0.35	0.55	0.46	0.94	0.93	0.63	0.50
06/23/2014	0.45	0.35	0.56	0.46	0.91	0.93	0.64	0.51
06/24/2014	0.43	0.36	0.57	0.47	0.87	0.93	0.64	0.52
06/25/2014	0.46	0.37	0.58	0.48	0.85	0.93	0.64	0.53
06/26/2014	0.45	0.37	0.59	0.49	0.86	0.93	0.69	0.54
06/27/2014	0.44	0.38	0.60	0.49	0.89	0.93	0.79	0.55
06/28/2014	0.45	0.38	0.61	0.50	0.96	0.94	0.88	0.57
06/29/2014	0.42	0.39	0.63	0.51	0.99	0.95	0.91	0.59
06/30/2014	0.38	0.39	0.63	0.52	1.08	0.95	0.90	0.60
07/01/2014	0.40	0.39	0.63	0.52	1.05	0.96	0.86	0.62
07/02/2014	0.35	0.39	0.63	0.53	1.00	0.97	0.86	0.63

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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
05/05/2014	0.18	0.44	0.19	0.45	1.09	1.17	0.19	0.50
05/06/2014	0.18	0.41	0.20	0.43	1.10	1.17	0.20	0.48
05/07/2014	0.18	0.38	0.20	0.41	1.12	1.17	0.21	0.45
05/08/2014	0.15	0.34	0.21	0.40	1.13	1.17	0.21	0.42
05/09/2014	0.15	0.31	0.19	0.37	1.14	1.17	0.21	0.39
05/10/2014	0.14	0.28	0.18	0.35	1.16	1.16	0.19	0.35
05/11/2014	0.13	0.25	0.17	0.32	1.15	1.16	0.19	0.32
05/12/2014	0.13	0.23	0.16	0.28	1.14	1.16	0.18	0.29
05/13/2014	0.12	0.21	0.16	0.25	1.16	1.15	0.17	0.26
05/14/2014	0.13	0.19	0.15	0.22	1.16	1.15	0.17	0.24
05/15/2014	0.11	0.17	0.15	0.20	1.14	1.15	0.16	0.22
05/16/2014	0.12	0.16	0.15	0.19	1.13	1.14	0.16	0.20
05/17/2014	0.16	0.16	0.14	0.17	1.09	1.13	0.14	0.18
05/18/2014	0.21	0.15	0.17	0.17	1.07	1.13	0.15	0.18
05/19/2014	0.24	0.16	0.20	0.17	1.03	1.12	0.19	0.17
05/20/2014	0.23	0.16	0.24	0.17	1.02	1.11	0.23	0.18
05/21/2014	0.21	0.16	0.29	0.18	0.99	1.10	0.28	0.18
05/22/2014	0.24	0.16	0.32	0.18	0.95	1.09	0.33	0.19
05/23/2014	0.25	0.17	0.34	0.19	0.93	1.08	0.34	0.19
05/24/2014	0.26	0.17	0.34	0.19	0.89	1.07	0.35	0.20
05/25/2014	0.27	0.18	0.35	0.20	0.89	1.07	0.35	0.21
05/26/2014	0.24	0.18	0.36	0.21	0.84	1.06	0.37	0.21
05/27/2014	0.26	0.19	0.38	0.22	0.85	1.05	0.38	0.22
05/28/2014	0.30	0.19	0.39	0.23	0.81	1.04	0.39	0.23
05/29/2014	0.32	0.19	0.39	0.23	0.80	1.04	0.39	0.24
05/30/2014	0.28	0.20	0.40	0.24	0.81	1.03	0.40	0.24
05/31/2014	0.28	0.20	0.40	0.25	0.80	1.02	0.39	0.25
06/01/2014	0.30	0.20	0.40	0.25	0.81	1.01	0.41	0.26
06/02/2014	0.32	0.21	0.41	0.26	0.85	1.00	0.43	0.27
06/03/2014	0.31	0.21	0.42	0.27	0.87	1.00	0.47	0.27

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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
03/16/2014	0.92	0.98	0.99	0.93	1.15	1.27	0.91	1.02
03/17/2014	0.90	0.98	1.04	0.93	1.17	1.27	0.90	1.01
03/18/2014	0.87	0.97	1.04	0.94	1.11	1.26	0.89	1.00
03/19/2014	0.82	0.97	1.06	0.94	1.07	1.26	0.89	1.01
03/20/2014	0.73	0.96	1.10	0.95	1.08	1.25	0.88	1.01
03/21/2014	0.69	0.95	1.13	0.95	1.10	1.24	0.87	1.00
03/22/2014	0.64	0.94	1.13	0.96	1.12	1.23	0.85	1.00
03/23/2014	0.65	0.93	1.12	0.96	1.13	1.23	0.80	0.99
03/24/2014	0.68	0.92	1.08	0.97	1.14	1.22	0.76	0.98
03/25/2014	0.59	0.92	1.04	0.97	1.14	1.21	0.73	0.97
03/26/2014	0.52	0.91	1.02	0.97	1.14	1.20	0.71	0.96
03/27/2014	0.49	0.90	0.97	0.97	1.09	1.19	0.73	0.95
03/28/2014	0.45	0.89	0.91	0.96	1.06	1.18	0.70	0.94
03/29/2014	NR	NC	0.89	0.96	1.03	1.17	0.66	0.93
03/30/2014	NR	NC	0.87	0.96	1.03	1.16	0.62	0.92
03/31/2014	0.83	NC	0.80	0.95	1.01	1.15	0.59	0.92
04/01/2014	0.93	NC	0.74	0.95	0.98	1.15	0.65	0.91
04/02/2014	0.97	NC	0.73	0.94	0.92	1.14	0.81	0.91
04/03/2014	0.97	NC	0.72	0.94	0.94	1.14	0.87	0.91
04/04/2014	1.05	NC	0.73	0.93	0.98	1.14	0.94	0.90
04/05/2014	1.10	NC	0.72	0.93	1.00	1.13	0.94	0.90
04/06/2014	1.14	NC	0.73	0.93	1.06	1.13	1.03	0.89
04/07/2014	1.20	NC	0.74	0.92	1.10	1.12	1.08	0.89
04/08/2014	1.22	NC	0.76	0.92	1.18	1.12	1.10	0.88
04/09/2014	1.16	NC	0.83	0.92	1.21	1.11	1.12	0.88
04/10/2014	1.01	NC	1.00	0.92	1.23	1.11	1.16	0.88
04/11/2014	0.86	NC	1.11	0.93	1.24	1.11	1.18	0.88
04/12/2014	0.77	NC	1.14	0.93	1.26	1.11	1.16	0.88
04/13/2014	0.75	NC	1.11	0.94	1.26	1.10	1.03	0.88
04/14/2014	0.77	NC	0.92	0.94	1.25	1.11	0.85	0.88

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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
02/03/2014	0.83	0.97	0.88	1.02	1.20	1.29	0.87	1.00
02/04/2014	0.82	0.96	0.91	1.02	1.20	1.29	0.81	0.99
02/05/2014	0.81	0.96	0.91	1.02	1.21	1.29	0.73	0.98
02/06/2014	0.78	0.95	0.89	1.02	1.21	1.30	0.80	0.97
02/07/2014	0.83	0.94	0.88	1.01	1.21	1.30	0.79	0.97
02/08/2014	0.89	0.94	0.87	1.01	1.24	1.30	0.69	0.96
02/09/2014	0.92	0.94	0.85	1.00	1.25	1.30	0.68	0.94
02/10/2014	0.97	0.93	0.85	1.00	1.16	1.30	0.74	0.93
02/11/2014	1.02	0.93	0.87	0.99	1.10	1.29	0.83	0.92
02/12/2014	1.01	0.93	0.89	0.99	1.09	1.29	0.77	0.91
02/13/2014	1.08	0.93	0.90	0.98	1.16	1.28	0.95	0.91
02/14/2014	1.07	0.93	0.91	0.97	1.19	1.28	1.04	0.91
02/15/2014	1.05	0.93	0.92	0.97	1.21	1.27	1.09	0.91
02/16/2014	1.05	0.94	0.92	0.96	1.22	1.27	1.08	0.91
02/17/2014	1.05	0.94	0.93	0.96	1.23	1.26	0.83	0.90
02/18/2014	1.03	0.94	0.94	0.95	1.28	1.26	0.81	0.89
02/19/2014	0.97	0.94	0.95	0.95	1.34	1.26	1.03	0.89
02/20/2014	0.94	0.94	0.96	0.94	1.35	1.26	1.08	0.90
02/21/2014	0.90	0.94	0.97	0.94	1.36	1.26	1.06	0.90
02/22/2014	0.82	0.93	0.99	0.94	1.40	1.26	1.04	0.90
02/23/2014	0.80	0.93	1.00	0.94	1.42	1.26	1.03	0.90
02/24/2014	0.79	0.92	1.01	0.93	1.43	1.26	1.02	0.90
02/25/2014	0.79	0.91	1.01	0.93	1.41	1.26	0.98	0.90
02/26/2014	0.79	0.91	1.01	0.93	1.39	1.26	0.93	0.90
02/27/2014	0.80	0.90	1.01	0.93	1.34	1.26	0.91	0.90
02/28/2014	0.81	0.90	0.98	0.93	1.26	1.26	0.89	0.90
03/01/2014	0.77	0.90	0.95	0.93	1.20	1.26	0.84	0.89
03/02/2014	0.90	0.90	0.89	0.93	1.13	1.25	0.84	0.89
03/03/2014	1.11	0.91	0.87	0.93	1.04	1.25	0.78	0.89
03/04/2014	1.21	0.92	0.85	0.92	1.02	1.24	0.90	0.89

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

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
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
01/29/2014	0.80	0.98	1.01	1.03	1.31	1.27	0.96	1.01
01/30/2014	0.87	0.98	0.99	1.03	1.29	1.28	0.90	1.01
01/31/2014	0.90	0.98	0.98	1.03	1.27	1.28	0.83	1.01
02/01/2014	0.88	0.98	0.93	1.03	1.23	1.28	0.82	1.00
02/02/2014	0.86	0.97	0.87	1.03	1.23	1.29	0.89	1.00
02/03/2014	0.83	0.97	0.88	1.02	1.20	1.29	0.87	1.00
02/04/2014	0.82	0.96	0.91	1.02	1.20	1.29	0.81	0.99
02/05/2014	0.81	0.96	0.91	1.02	1.21	1.29	0.73	0.98
02/06/2014	0.78	0.95	0.89	1.02	1.21	1.30	0.80	0.97
02/07/2014	0.83	0.94	0.88	1.01	1.21	1.30	0.79	0.97
02/08/2014	0.89	0.94	0.87	1.01	1.24	1.30	0.69	0.96
02/09/2014	0.92	0.94	0.85	1.00	1.25	1.30	0.68	0.94
02/10/2014	0.97	0.93	0.85	1.00	1.16	1.30	0.74	0.93

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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
12/08/2013	0.83	0.76	0.89	0.79	1.01	0.91	0.87	0.80
12/09/2013	0.85	0.76	0.89	0.80	1.00	0.92	0.86	0.81
12/10/2013	0.85	0.76	0.88	0.81	1.01	0.93	0.88	0.81
12/11/2013	0.84	0.77	0.88	0.82	1.06	0.93	0.90	0.82
12/12/2013	0.86	0.77	0.89	0.82	1.08	0.94	0.90	0.82
12/13/2013	0.86	0.78	0.91	0.83	1.09	0.95	0.89	0.82
12/14/2013	0.86	0.78	0.92	0.83	1.07	0.96	0.91	0.83
12/15/2013	0.87	0.79	0.92	0.83	1.08	0.96	0.90	0.83
12/16/2013	0.87	0.79	0.92	0.84	1.07	0.96	0.90	0.83
12/17/2013	0.86	0.79	0.92	0.84	1.08	0.97	0.91	0.84
12/18/2013	0.86	0.80	0.92	0.85	1.07	0.97	0.91	0.84
12/19/2013	0.87	0.81	0.92	0.85	1.05	0.98	0.91	0.85
12/20/2013	0.87	0.81	0.92	0.85	1.05	0.98	0.90	0.85
12/21/2013	0.86	0.82	0.92	0.86	1.05	0.99	0.91	0.86
12/22/2013	0.85	0.82	0.92	0.86	1.06	0.99	0.91	0.86
12/23/2013	0.87	0.83	0.93	0.87	1.07	1.00	0.91	0.87
12/24/2013	0.88	0.83	0.93	0.88	1.09	1.00	0.90	0.88
12/25/2013	0.91	0.84	0.92	0.88	1.10	1.01	0.92	0.88
12/26/2013	0.92	0.84	0.92	0.89	1.10	1.02	0.93	0.88
12/27/2013	0.96	0.85	0.93	0.89	1.11	1.03	0.95	0.89
12/28/2013	0.92	0.86	0.93	0.90	1.13	1.03	0.96	0.89
12/29/2013	0.91	0.86	0.94	0.90	1.15	1.04	0.97	0.90
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

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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
10/07/2013	0.61	0.51	0.68	0.57	0.74	0.78	0.67	0.56
10/08/2013	0.64	0.51	0.66	0.57	0.81	0.78	0.65	0.56
10/09/2013	0.58	0.51	0.66	0.57	0.86	0.78	0.66	0.56
10/10/2013	0.61	0.51	0.70	0.57	0.88	0.78	0.69	0.56
10/11/2013	0.66	0.52	0.71	0.57	0.90	0.79	0.69	0.56
10/12/2013	0.61	0.52	0.68	0.57	0.89	0.79	0.68	0.57
10/13/2013	0.65	0.53	0.70	0.58	0.86	0.79	0.71	0.57
10/14/2013	0.67	0.53	0.74	0.58	0.86	0.79	0.74	0.57
10/15/2013	0.62	0.53	0.71	0.58	0.86	0.79	0.71	0.58
10/16/2013	0.51	0.53	0.75	0.58	0.89	0.79	0.74	0.58
10/17/2013	0.52	0.53	0.75	0.59	0.91	0.79	0.72	0.59
10/18/2013	0.54	0.52	0.62	0.59	0.90	0.79	0.60	0.59
10/19/2013	0.63	0.53	0.59	0.59	0.90	0.79	0.58	0.59
10/20/2013	0.63	0.53	0.60	0.59	0.88	0.79	0.60	0.58
10/21/2013	0.58	0.52	0.68	0.59	0.83	0.79	0.68	0.58
10/22/2013	0.57	0.52	0.71	0.59	0.80	0.78	0.70	0.59
10/23/2013	0.55	0.53	0.67	0.59	0.80	0.78	0.67	0.59
10/24/2013	0.47	0.53	0.65	0.59	0.84	0.78	0.65	0.58
10/25/2013	0.31	0.53	0.62	0.59	0.84	0.78	0.61	0.59
10/26/2013	0.29	0.53	0.40	0.59	0.81	0.78	0.39	0.59
10/27/2013	0.30	0.53	0.32	0.59	0.78	0.78	0.31	0.59
10/28/2013	0.25	0.53	0.33	0.59	0.62	0.78	0.33	0.59
10/29/2013	0.22	0.53	0.31	0.59	0.46	0.78	0.30	0.59
10/30/2013	0.24	0.52	0.27	0.59	0.48	0.77	0.27	0.58
10/31/2013	0.28	0.51	0.28	0.59	0.51	0.77	0.29	0.58
11/01/2013	0.35	0.51	0.31	0.58	0.59	0.77	0.34	0.58
11/02/2013	0.42	0.50	0.34	0.58	0.66	0.77	0.40	0.57
11/03/2013	0.49	0.50	0.38	0.57	0.63	0.77	0.46	0.57
11/04/2013	0.55	0.50	0.43	0.56	0.59	0.77	0.52	0.57
11/05/2013	0.60	0.50	0.48	0.56	0.62	0.77	0.58	0.56

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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
09/25/2013	0.31	0.55	0.54	0.67	0.85	0.84	0.45	0.63
09/26/2013	0.32	0.54	0.40	0.66	0.80	0.84	0.36	0.62
09/27/2013	0.31	0.53	0.36	0.65	0.71	0.84	0.35	0.61
09/28/2013	0.28	0.52	0.37	0.64	0.66	0.83	0.37	0.61
09/29/2013	0.30	0.51	0.36	0.63	0.65	0.83	0.36	0.60
09/30/2013	0.40	0.51	0.34	0.62	0.60	0.82	0.34	0.59
10/01/2013	0.50	0.50	0.35	0.60	0.63	0.82	0.36	0.58
10/02/2013	0.55	0.50	0.42	0.59	0.60	0.81	0.43	0.57
10/03/2013	0.58	0.50	0.50	0.58	0.60	0.80	0.52	0.56
10/04/2013	0.62	0.50	0.58	0.58	0.63	0.80	0.57	0.56
10/05/2013	0.58	0.50	0.64	0.58	0.64	0.79	0.63	0.56
10/06/2013	0.58	0.51	0.65	0.57	0.69	0.78	0.66	0.56
10/07/2013	0.61	0.51	0.68	0.57	0.74	0.78	0.67	0.56
10/08/2013	0.64	0.51	0.66	0.57	0.81	0.78	0.65	0.56
10/09/2013	0.58	0.51	0.66	0.57	0.86	0.78	0.66	0.56
10/10/2013	0.61	0.51	0.70	0.57	0.88	0.78	0.69	0.56
10/11/2013	0.66	0.52	0.71	0.57	0.90	0.79	0.69	0.56
10/12/2013	0.61	0.52	0.68	0.57	0.89	0.79	0.68	0.57
10/13/2013	0.65	0.53	0.70	0.58	0.86	0.79	0.71	0.57
10/14/2013	0.67	0.53	0.74	0.58	0.86	0.79	0.74	0.57
10/15/2013	0.62	0.53	0.71	0.58	0.86	0.79	0.71	0.58
10/16/2013	0.51	0.53	0.75	0.58	0.89	0.79	0.74	0.58
10/17/2013	0.52	0.53	0.75	0.59	0.91	0.79	0.72	0.59
10/18/2013	0.54	0.52	0.62	0.59	0.90	0.79	0.60	0.59
10/19/2013	0.63	0.53	0.59	0.59	0.90	0.79	0.58	0.59
10/20/2013	0.63	0.53	0.60	0.59	0.88	0.79	0.60	0.58
10/21/2013	0.58	0.52	0.68	0.59	0.83	0.79	0.68	0.58
10/22/2013	0.57	0.52	0.71	0.59	0.80	0.78	0.70	0.59
10/23/2013	0.55	0.53	0.67	0.59	0.80	0.78	0.67	0.59
10/24/2013	0.47	0.53	0.65	0.59	0.84	0.78	0.65	0.58

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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
07/17/2013	0.49	0.53	0.70	0.67	0.82	0.94	0.65	0.62
07/18/2013	0.51	0.53	0.68	0.68	0.85	0.94	0.68	0.62
07/19/2013	0.54	0.53	0.68	0.68	0.86	0.94	0.66	0.62
07/20/2013	0.52	0.53	0.75	0.68	0.86	0.94	0.69	0.63
07/21/2013	0.53	0.53	0.81	0.69	0.85	0.93	0.68	0.63
07/22/2013	0.51	0.52	0.82	0.69	0.88	0.92	0.69	0.63
07/23/2013	0.48	0.52	0.81	0.70	0.86	0.91	0.70	0.63
07/24/2013	0.49	0.52	0.79	0.70	0.86	0.91	0.69	0.63
07/25/2013	0.54	0.52	0.76	0.70	0.86	0.89	0.70	0.63
07/26/2013	0.49	0.51	0.73	0.70	0.86	0.88	0.72	0.64
07/27/2013	0.51	0.51	0.70	0.71	0.86	0.87	0.73	0.65
07/28/2013	0.49	0.51	0.67	0.71	0.87	0.86	0.74	0.66
07/29/2013	0.52	0.50	0.67	0.70	0.89	0.85	0.73	0.67
07/30/2013	0.53	0.50	0.66	0.70	0.89	0.85	0.72	0.67
07/31/2013	0.53	0.50	0.65	0.70	0.90	0.85	0.71	0.67
08/01/2013	0.45	0.50	0.65	0.70	0.91	0.85	0.69	0.68
08/02/2013	0.53	0.50	0.65	0.71	0.92	0.85	0.68	0.68
08/03/2013	0.47	0.50	0.66	0.71	0.92	0.85	0.69	0.68
08/04/2013	0.47	0.50	0.68	0.71	0.87	0.85	0.70	0.68
08/05/2013	0.51	0.50	0.70	0.71	0.85	0.85	0.70	0.68
08/06/2013	0.53	0.50	0.71	0.71	0.87	0.85	0.70	0.69
08/07/2013	0.51	0.51	0.71	0.71	0.86	0.85	0.67	0.69
08/08/2013	0.49	0.50	0.71	0.71	0.85	0.85	0.63	0.69
08/09/2013	0.45	0.50	0.70	0.71	0.84	0.85	0.65	0.69
08/10/2013	0.49	0.50	0.69	0.71	0.86	0.86	0.68	0.69
08/11/2013	0.53	0.50	0.69	0.71	0.83	0.86	0.69	0.69
08/12/2013	0.51	0.50	0.69	0.71	0.80	0.86	0.68	0.69
08/13/2013	0.53	0.51	0.68	0.71	0.82	0.86	0.63	0.69
08/14/2013	0.49	0.51	0.66	0.71	0.89	0.86	0.64	0.69
08/15/2013	0.50	0.50	0.63	0.70	0.88	0.86	0.63	0.68

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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
06/23/2013	0.53	0.55	0.65	0.62	1.11	0.88	0.69	0.64
06/24/2013	0.58	0.55	0.67	0.62	1.13	0.89	0.66	0.65
06/25/2013	0.63	0.55	0.69	0.63	1.18	0.90	0.60	0.65
06/26/2013	0.64	0.56	0.69	0.63	1.20	0.92	0.46	0.64
06/27/2013	0.59	0.56	0.68	0.63	1.21	0.93	0.42	0.64
06/28/2013	0.59	0.56	0.67	0.64	1.18	0.94	0.47	0.64
06/29/2013	0.58	0.56	0.68	0.64	1.09	0.95	0.53	0.63
06/30/2013	0.53	0.56	0.68	0.64	1.05	0.96	0.54	0.63
07/01/2013	0.53	0.56	0.66	0.64	0.92	0.96	0.62	0.63
07/02/2013	0.48	0.56	0.65	0.64	0.92	0.97	0.61	0.63
07/03/2013	0.49	0.56	0.58	0.64	0.93	0.97	0.67	0.63
07/04/2013	0.53	0.55	0.59	0.64	0.90	0.96	0.67	0.63
07/05/2013	0.49	0.55	0.63	0.64	0.89	0.96	0.65	0.63
07/06/2013	0.47	0.55	0.68	0.64	0.85	0.96	0.56	0.63
07/07/2013	0.47	0.55	0.71	0.64	0.84	0.96	0.64	0.63
07/08/2013	0.50	0.55	0.71	0.65	0.82	0.95	0.66	0.63
07/09/2013	0.52	0.55	0.71	0.65	0.78	0.95	0.64	0.62
07/10/2013	0.48	0.54	0.69	0.65	0.78	0.95	0.60	0.62
07/11/2013	0.49	0.54	0.68	0.66	0.79	0.95	0.62	0.62
07/12/2013	0.55	0.54	0.71	0.66	0.79	0.95	0.67	0.62
07/13/2013	0.46	0.54	0.73	0.66	0.79	0.95	0.69	0.63
07/14/2013	0.48	0.54	0.74	0.66	0.80	0.95	0.70	0.63
07/15/2013	0.50	0.54	0.73	0.67	0.81	0.95	0.70	0.63
07/16/2013	0.53	0.54	0.72	0.67	0.81	0.94	0.68	0.63
07/17/2013	0.49	0.53	0.70	0.67	0.82	0.94	0.65	0.62
07/18/2013	0.51	0.53	0.68	0.68	0.85	0.94	0.68	0.62
07/19/2013	0.54	0.53	0.68	0.68	0.86	0.94	0.66	0.62
07/20/2013	0.52	0.53	0.75	0.68	0.86	0.94	0.69	0.63
07/21/2013	0.53	0.53	0.81	0.69	0.85	0.93	0.68	0.63
07/22/2013	0.51	0.52	0.82	0.69	0.88	0.92	0.69	0.63

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State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

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
05/13/2013	0.22	0.29	0.22	0.36	0.30	0.53	0.23	NC
05/14/2013	0.26	0.28	0.24	0.34	0.30	0.50	0.25	NC
05/15/2013	0.33	0.27	0.27	0.32	0.31	0.48	0.29	NC
05/16/2013	0.38	0.26	0.32	0.30	0.36	0.45	0.37	NC
05/17/2013	0.40	0.26	0.37	0.28	0.43	0.43	0.44	NC
05/18/2013	0.44	0.26	0.44	0.27	0.47	0.42	0.47	NC
05/19/2013	0.48	0.26	0.47	0.27	0.54	0.40	0.51	NC
05/20/2013	0.48	0.26	0.50	0.26	0.60	0.39	0.55	NC
05/21/2013	0.50	0.27	0.52	0.27	0.67	0.39	0.57	NC
05/22/2013	0.52	0.28	0.54	0.27	0.68	0.39	0.58	NC
05/23/2013	0.53	0.29	0.56	0.28	0.66	0.39	0.59	NC
05/24/2013	0.54	0.30	0.56	0.29	0.70	0.40	0.62	NC
05/25/2013	0.53	0.31	0.57	0.30	0.74	0.41	0.63	NC
05/26/2013	0.51	0.32	0.57	0.31	0.77	0.42	0.56	NC
05/27/2013	0.52	0.32	0.59	0.32	0.77	0.43	0.54	NC
05/28/2013	0.56	0.34	0.61	0.34	0.78	0.45	0.58	NC
05/29/2013	0.54	0.35	0.62	0.35	0.81	0.46	0.55	NC
05/30/2013	0.53	0.36	0.62	0.37	0.81	0.48	0.62	NC
05/31/2013	0.57	0.37	0.62	0.38	0.82	0.50	0.59	NC
06/01/2013	0.56	0.38	0.62	0.39	0.84	0.51	0.63	NC
06/02/2013	0.56	0.39	0.63	0.41	0.89	0.53	0.62	NC
06/03/2013	0.55	0.41	0.62	0.42	0.92	0.55	0.69	NC
06/04/2013	0.59	0.42	0.61	0.44	0.93	0.57	0.68	NC
06/05/2013	0.55	0.43	0.62	0.45	0.95	0.59	0.66	NC
06/06/2013	0.56	0.44	0.62	0.47	0.95	0.62	0.66	NC
06/07/2013	0.52	0.45	0.62	0.48	0.94	0.64	0.66	NC
06/08/2013	0.52	0.46	0.63	0.49	0.91	0.66	0.67	NC
06/09/2013	0.52	0.47	0.59	0.51	0.90	0.68	0.67	NC
06/10/2013	0.52	0.48	0.59	0.52	0.81	0.70	0.65	NC
06/11/2013	0.54	0.50	0.63	0.53	0.78	0.71	0.63	0.56

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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
04/01/2013	0.81	0.85	0.93	0.83	1.21	0.98	0.94	0.80
04/02/2013	0.78	0.85	0.94	0.84	1.21	0.99	0.89	0.80
04/03/2013	0.79	0.85	0.89	0.84	1.14	1.01	0.81	0.81
04/04/2013	0.85	0.86	0.84	0.85	1.11	1.02	0.82	0.81
04/05/2013	0.82	0.86	0.83	0.85	1.09	1.02	0.88	0.82
04/06/2013	0.83	0.87	0.87	0.86	1.05	1.03	0.89	0.82
04/07/2013	0.82	0.87	0.88	0.86	1.02	1.04	0.89	0.83
04/08/2013	0.82	0.87	0.88	0.87	1.04	1.05	0.90	0.84
04/09/2013	0.83	0.88	0.89	0.87	1.02	1.06	0.90	0.84
04/10/2013	0.83	0.88	0.90	0.88	1.06	1.06	0.93	0.85
04/11/2013	0.81	0.88	0.91	0.88	1.13	1.07	0.94	0.86
04/12/2013	0.76	0.88	0.93	0.89	1.16	1.08	0.95	0.87
04/13/2013	0.75	0.87	0.94	0.89	1.15	1.09	0.94	0.88
04/14/2013	0.73	0.87	0.94	0.90	1.16	1.09	0.88	0.89
04/15/2013	0.67	0.86	0.92	0.90	1.13	1.10	0.87	0.90
04/16/2013	0.62	0.85	0.88	0.90	1.07	1.10	0.79	0.90
04/17/2013	0.48	0.84	0.84	0.90	1.02	1.10	0.76	0.90
04/18/2013	0.43	0.83	0.76	0.90	1.02	1.11	0.63	0.90
04/19/2013	0.35	0.81	0.65	0.89	1.04	1.11	0.55	0.89
04/20/2013	0.39	0.79	0.52	0.88	0.90	1.10	0.40	0.87
04/21/2013	0.30	0.77	0.41	0.86	0.76	1.09	0.43	0.85
04/22/2013	0.30	0.75	0.42	0.84	0.64	1.08	0.33	0.84
04/23/2013	0.27	0.72	0.32	0.82	0.62	1.07	0.31	0.81
04/24/2013	0.25	0.70	0.30	0.80	0.47	1.05	0.26	0.79
04/25/2013	0.24	0.68	0.24	0.78	0.41	1.02	0.22	0.77
04/26/2013	0.24	0.65	0.22	0.76	0.34	1.00	0.21	0.74
04/27/2013	0.23	0.62	0.21	0.73	0.38	0.97	0.21	0.72
04/28/2013	0.23	0.60	0.21	0.71	0.38	0.94	0.21	0.69
04/29/2013	0.22	0.58	0.21	0.68	0.37	0.91	0.20	0.66
04/30/2013	0.22	0.56	0.20	0.66	0.35	0.88	0.20	0.64

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Delta Water Quality Conditions**South Delta Stations**

Date	Vernalls		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
03/25/2013	0.97	0.78	0.93	0.75	1.07	0.88	0.94	0.71
03/26/2013	0.99	0.79	0.93	0.77	1.11	0.90	0.98	0.73
03/27/2013	0.98	0.80	0.94	0.78	1.11	0.91	0.97	0.74
03/28/2013	1.02	0.81	0.94	0.79	1.14	0.92	0.96	0.75
03/29/2013	0.96	0.82	0.93	0.80	1.20	0.93	0.96	0.76
03/30/2013	0.91	0.83	0.90	0.81	1.30	0.95	1.02	0.78
03/31/2013	0.87	0.84	0.89	0.82	1.30	0.97	0.99	0.79
04/01/2013	0.81	0.85	0.93	0.83	1.21	0.98	0.94	0.80
04/02/2013	0.78	0.85	0.94	0.84	1.21	0.99	0.89	0.80
04/03/2013	0.79	0.85	0.89	0.84	1.14	1.01	0.81	0.81
04/04/2013	0.85	0.86	0.84	0.85	1.11	1.02	0.82	0.81
04/05/2013	0.82	0.86	0.83	0.85	1.09	1.02	0.88	0.82
04/06/2013	0.83	0.87	0.87	0.86	1.05	1.03	0.89	0.82
04/07/2013	0.82	0.87	0.88	0.86	1.02	1.04	0.89	0.83
04/08/2013	0.82	0.87	0.88	0.87	1.04	1.05	0.90	0.84
04/09/2013	0.83	0.88	0.89	0.87	1.02	1.06	0.90	0.84
04/10/2013	0.83	0.88	0.90	0.88	1.06	1.06	0.93	0.85
04/11/2013	0.81	0.88	0.91	0.88	1.13	1.07	0.94	0.86
04/12/2013	0.76	0.88	0.93	0.89	1.16	1.08	0.95	0.87
04/13/2013	0.75	0.87	0.94	0.89	1.15	1.09	0.94	0.88
04/14/2013	0.73	0.87	0.94	0.90	1.16	1.09	0.88	0.89
04/15/2013	0.67	0.86	0.92	0.90	1.13	1.10	0.87	0.90
04/16/2013	0.62	0.85	0.88	0.90	1.07	1.10	0.79	0.90
04/17/2013	0.48	0.84	0.84	0.90	1.02	1.10	0.76	0.90
04/18/2013	0.43	0.83	0.76	0.90	1.02	1.11	0.63	0.90
04/19/2013	0.35	0.81	0.65	0.89	1.04	1.11	0.55	0.89
04/20/2013	0.39	0.79	0.52	0.88	0.90	1.10	0.40	0.87
04/21/2013	0.30	0.77	0.41	0.86	0.76	1.09	0.43	0.85
04/22/2013	0.30	0.75	0.42	0.84	0.64	1.08	0.33	0.84
04/23/2013	0.27	0.72	0.32	0.82	0.62	1.07	0.31	0.81

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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
02/17/2013	0.61	0.83	0.61	0.86	0.81	1.10	0.59	0.85
02/18/2013	0.62	0.82	0.60	0.85	0.75	1.08	0.58	0.84
02/19/2013	0.60	0.81	0.59	0.84	0.73	1.06	0.59	0.82
02/20/2013	0.57	0.79	0.59	0.83	0.72	1.04	0.57	0.81
02/21/2013	0.58	0.78	0.57	0.81	0.70	1.02	0.55	0.80
02/22/2013	0.60	0.77	0.55	0.80	0.72	1.01	0.56	0.78
02/23/2013	0.62	0.76	0.57	0.78	0.73	0.99	0.57	0.77
02/24/2013	0.61	0.75	0.59	0.77	0.72	0.98	0.59	0.75
02/25/2013	0.64	0.73	0.59	0.75	0.78	0.96	0.59	0.74
02/26/2013	0.63	0.72	0.60	0.74	0.82	0.95	0.62	0.73
02/27/2013	0.62	0.71	0.62	0.73	0.77	0.94	0.62	0.71
02/28/2013	0.63	0.70	0.62	0.71	0.78	0.92	0.61	0.70
03/01/2013	0.67	0.69	0.61	0.70	0.79	0.91	0.62	0.68
03/02/2013	0.68	0.68	0.62	0.69	0.80	0.89	0.68	0.67
03/03/2013	0.69	0.67	0.66	0.67	0.81	0.88	0.70	0.66
03/04/2013	0.70	0.67	0.69	0.66	0.79	0.86	0.72	0.65
03/05/2013	0.66	0.66	0.71	0.65	0.82	0.85	0.72	0.65
03/06/2013	0.64	0.66	0.71	0.65	0.82	0.84	0.70	0.65
03/07/2013	0.68	0.65	0.71	0.65	0.81	0.83	0.66	0.64
03/08/2013	0.72	0.65	0.71	0.64	0.80	0.82	0.70	0.64
03/09/2013	0.76	0.65	0.70	0.64	0.79	0.81	0.73	0.64
03/10/2013	0.75	0.65	0.71	0.64	0.80	0.80	0.76	0.64
03/11/2013	0.76	0.65	0.75	0.64	0.87	0.80	0.74	0.64
03/12/2013	0.84	0.66	0.78	0.64	0.91	0.80	0.68	0.64
03/13/2013	0.82	0.66	0.77	0.64	0.91	0.80	0.64	0.64
03/14/2013	0.88	0.67	0.78	0.65	0.90	0.80	0.59	0.64
03/15/2013	0.84	0.68	0.81	0.65	0.92	0.80	0.58	0.64
03/16/2013	0.84	0.69	0.83	0.66	0.95	0.81	0.64	0.64
03/17/2013	0.83	0.69	0.85	0.67	0.96	0.81	0.60	0.64
03/18/2013	0.87	0.70	0.88	0.68	0.98	0.81	0.75	0.64

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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
01/23/2013	0.95	0.71	1.01	0.74	1.19	0.97	1.00	0.73
01/24/2013	0.94	0.73	1.02	0.74	1.16	0.98	1.00	0.74
01/25/2013	0.96	0.75	1.01	0.76	1.18	0.99	1.00	0.76
01/26/2013	0.96	0.77	1.00	0.78	1.20	1.00	1.01	0.78
01/27/2013	0.98	0.79	1.00	0.80	1.17	1.02	1.02	0.80
01/28/2013	0.99	0.81	1.01	0.82	1.16	1.04	1.03	0.82
01/29/2013	1.00	0.83	1.01	0.84	1.18	1.06	1.04	0.84
01/30/2013	0.99	0.85	1.02	0.85	1.19	1.08	1.06	0.86
01/31/2013	1.01	0.86	1.04	0.87	1.25	1.10	1.03	0.88
02/01/2013	0.85	0.87	1.03	0.89	1.26	1.12	1.03	0.89
02/02/2013	0.82	0.87	1.04	0.90	1.26	1.13	0.90	0.90
02/03/2013	0.81	0.88	0.93	0.91	1.23	1.14	0.83	0.91
02/04/2013	0.81	0.88	0.84	0.91	1.15	1.15	0.82	0.91
02/05/2013	0.81	0.88	0.82	0.92	1.09	1.14	0.82	0.91
02/06/2013	0.78	0.88	0.82	0.92	1.06	1.14	0.81	0.91
02/07/2013	0.75	0.89	0.81	0.92	1.08	1.15	0.79	0.91
02/08/2013	0.70	0.89	0.80	0.92	1.04	1.15	0.76	0.91
02/09/2013	0.69	0.89	0.74	0.92	0.94	1.15	0.68	0.91
02/10/2013	0.68	0.89	0.67	0.92	0.87	1.15	0.65	0.91
02/11/2013	0.68	0.88	0.66	0.92	0.87	1.15	0.64	0.91
02/12/2013	0.66	0.87	0.64	0.91	0.88	1.14	0.63	0.90
02/13/2013	0.65	0.87	0.63	0.91	0.90	1.14	0.61	0.89
02/14/2013	0.65	0.86	0.62	0.90	0.90	1.13	0.61	0.88
02/15/2013	0.66	0.85	0.61	0.89	0.88	1.12	0.60	0.87
02/16/2013	0.64	0.84	0.61	0.88	0.82	1.11	0.61	0.86
02/17/2013	0.61	0.83	0.61	0.86	0.81	1.10	0.59	0.85
02/18/2013	0.62	0.82	0.60	0.85	0.75	1.08	0.58	0.84
02/19/2013	0.60	0.81	0.59	0.84	0.73	1.06	0.59	0.82
02/20/2013	0.57	0.79	0.59	0.83	0.72	1.04	0.57	0.81
02/21/2013	0.58	0.78	0.57	0.81	0.70	1.02	0.55	0.80

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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
12/17/2012	0.85	0.70	0.65	0.71	1.01	0.87	0.87	0.74
12/18/2012	0.84	0.71	0.64	0.70	1.03	0.88	0.88	0.75
12/19/2012	0.83	0.71	0.65	0.70	1.06	0.89	0.90	0.75
12/20/2012	0.83	0.72	0.77	0.70	1.13	0.90	0.86	0.76
12/21/2012	0.83	0.72	0.86	0.71	1.14	0.91	0.88	0.76
12/22/2012	0.83	0.73	0.88	0.71	1.10	0.92	0.87	0.77
12/23/2012	0.78	0.74	0.87	0.71	1.05	0.92	0.86	0.77
12/24/2012	0.67	0.74	0.86	0.72	1.02	0.92	0.85	0.78
12/25/2012	0.45	0.73	0.81	0.72	1.00	0.92	0.72	0.78
12/26/2012	0.41	0.72	0.57	0.72	0.89	0.92	0.43	0.77
12/27/2012	0.40	0.71	0.43	0.70	0.72	0.92	0.44	0.76
12/28/2012	0.35	0.69	0.45	0.69	0.63	0.91	0.43	0.75
12/29/2012	0.39	0.68	0.38	0.68	0.61	0.90	0.39	0.73
12/30/2012	0.41	0.67	0.43	0.67	0.58	0.90	0.42	0.72
12/31/2012	0.49	0.67	0.44	0.66	0.58	0.89	0.45	0.71
01/01/2013	0.57	0.67	0.49	0.66	0.64	0.88	0.52	0.71
01/02/2013	0.62	0.67	0.58	0.65	0.71	0.88	0.59	0.70
01/03/2013	0.68	0.67	0.63	0.65	0.85	0.88	0.65	0.70
01/04/2013	0.72	0.67	0.68	0.65	0.95	0.89	0.72	0.71
01/05/2013	0.74	0.68	0.73	0.65	1.08	0.90	0.75	0.71
01/06/2013	0.74	0.68	0.76	0.66	1.12	0.90	0.78	0.71
01/07/2013	0.68	0.68	0.80	0.66	1.10	0.91	0.79	0.72
01/08/2013	0.68	0.68	0.80	0.66	1.01	0.92	0.73	0.72
01/09/2013	0.65	0.67	0.75	0.67	0.99	0.92	0.73	0.71
01/10/2013	0.70	0.67	0.75	0.67	0.93	0.92	0.71	0.71
01/11/2013	0.73	0.67	0.70	0.67	0.89	0.92	0.68	0.71
01/12/2013	0.80	0.67	0.70	0.67	0.91	0.92	0.75	0.71
01/13/2013	0.85	0.67	0.75	0.67	0.93	0.92	0.81	0.70
01/14/2013	0.89	0.67	0.83	0.68	1.03	0.92	0.86	0.71
01/15/2013	0.90	0.68	0.87	0.68	1.12	0.93	0.90	0.71

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

TERRY L. PRICHARD*Certified Consulting Professional Agronomist and Soil Scientist and Crop Advisor***6601 South Stanley Road, Stockton, California 95215
(209) 886-5301**

October 13, 2005

Mr. John Herrick
4255 Pacific Avenue, Suite 2
Stockton, CA 95207

Re: "SWRCB's Hearing on a Cease and Desist Order Against DWR and USBR."

Dear John:

As the SWRCB hears testimony and takes evidence on whether and under what conditions a Cease and Desist Order should issue, you have asked me to comment on the necessity and underlying reasons why the 0.7/1.0 EC standards were adopted."

In setting the water quality objectives for the Southern Delta an array of crops was selected. The crops represented were annual and perennial. The annual crop (beans) water use timings are early spring to mid summer where as the perennial (alfalfa) uses water for the entire growing season. Secondly, the seasonal water use is considerably different with beans at about one-half that of alfalfa. Therefore, the required leaching volume is higher in the alfalfa using the same irrigation water quality. There are also factors which can limit the amount of irrigation water application. The first is related to the stand survival. Alfalfa is sensitive to over watering conditions which can significantly reduce stands from water logging and Phytopthera root rot, ultimately reducing yield. Secondly, the number of required cultural operations such as drying down the soil to support equipment for harvest, along with the time required to to cure and bale can limit irrigation opportunities. Additionally, variation in soil permeability in the Southern Delta and the depth to groundwater can limit the achievable leaching fraction.

The South Delta contains soils with significant variation with respect to texture and structure which leads to differences in permeability. The variability in permeability exists on an area wide and field basis. This variability is pointed out in the "Water Quality Considerations for the South Delta Water Agency 1981" report showing 84 distinctly different soil series (SCS 1992). These soils vary widely in permeability and water retention levels. Adding to the difficulty to achieve the required leaching fraction is the existence of high water tables especially during the winter, which cause upward movement of salts and lack of effective leaching.

For the bulk of the summer (April 1st to August 31st) the objectives were set at 0.7 mmhos/cm EC following with the last 2 months of the irrigation season (September 1st through October) at 1.0 mmhos/cm EC. This objective resulted in the bulk of the alfalfa seasonal irrigation to be 0.7 and a small portion at 1.0 allowing for adequate leaching under most conditions.

Terry L. Prichard
*Certified Professional Soil Scientist
Certified Professional Agronomist
Certified Professional Crop Advisor*

SDWA-5

Hence, although beans and alfalfa were selected as representative of crops needing protection from high salinity concentrations, the combination of varying soil types and limitations on application and leaching also require that a certain level of quality be maintained for many other crops. For example, although the many acres of grapes and walnuts may be able to withstand a higher salinity concentration under other conditions, the nature of the South Delta soils, water tables and management practices determines that those and other crops also need to have the current objective maintained or crop yields will decline.

Sincerely,

Terry L. Prichard, Certified Professional Soil Scientist, Agronomist, and Crop Advisor

Terry L. Prichard
Certified Professional Soil Scientist
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Attorneys for Petitioner
 The West Side Irrigation District

SUPERIOR COURT OF THE STATE OF CALIFORNIA
 IN AND FOR THE COUNTY OF SACRAMENTO

THE WEST SIDE IRRIGATION DISTRICT;
 CENTRAL DELTA WATER AGENCY;
 SOUTH DELTA WATER AGENCY;
 WOODS IRRIGATION COMPANY

Plaintiffs/Petitioners,

vs.

CALIFORNIA STATE WATER
 RESOURCES CONTROL BOARD;
 THOMAS HOWARD, EXECUTIVE
 DIRECTOR OF CALIFORNIA STATE
 WATER RESOURCES CONTROL BOARD;
 AND DOES 1 THROUGH 100, INCLUSIVE,

Defendants/Respondents.

Case No.: 34-2015-800002121

DECLARATION OF TERRY L. PRICHARD
 IN SUPPORT OF ORDER TO SHOW
 CAUSE

Hearing Date: July 30, 2015

Dept.: 24

Time: 9:00 a.m.

Judge: Hon. Shellyanne W. L. Change

Action Filed: June 29, 2015

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25 Attorney for Woods Irrigation Company

1 1. I, Terry L. Prichard, declare under penalty of perjury that the following
2 information is based upon my personal knowledge and research as a Water Management
3 Specialist. I could and would testify to these facts if called upon to do so. I am an expert in a
4 number of fields of study including soils, agriculture and the effects on plants and crops of
5 varying salinities in applied and ground water. A summary of my education and experience is
6 attached as Exhibit A. In preparation for this Declaration I have reviewed the declaration by Les
7 Grober submitted by the Respondents in their Opposition to the Petitioners' Request for a
8 Temporary Restraining Order, which Order was granted by the Court.

9 2. Mr. Grober's declaration discusses allowable salinity levels for crop production.
10 The levels that he presents are incorrect for a number of different reasons. One, the data
11 represents a continuous supply of saline water to the crops over the whole growing season;
12 something which never happens. In the Delta, the highest or worst salinity levels will only occur
13 during the latter part of the growing season, and plants are better able to tolerate the high salt
14 levels given the shorter application time (more on this below). Second, water with salinity levels
15 greater than the allowable limits shown in the UNFAO tables (which Mr. Grober cites) are
16 presently being used in the Delta. The degree to which any salinity level actually affects crop
17 production is a different issue than the one asking the point at which a given salinity will so
18 damage the plant that no economic crop will be produced. Farmers certainly prefer the highest
19 quality water but can or are forced to tolerate worse quality. I am assisting in an ongoing
20 leaching study to determine the extent to which salts may be collecting in the soils of southern
21 Delta lands and can confirm that in some areas the farmers periodically are forced to apply water
22 at or near 2 mS/cm (EC). Lower salinity levels would provide greater productivity, but the
23 existing high salinity levels still yield a positive economic return, especially when the poor
24 quality is mostly during the final stages of crop production.

25 3. Mr. Grober's declaration discusses the degradation to the soil from the application
26 of water with high salinity levels. This assumption is wrong, first because he assume applied
27 water salinity levels approaching 10 times worse than has ever occurred in the area. As
28 referenced above the poor quality water resulting from salinity intrusion from the bay during a

1 drought would not be applied all season (only during the latter part of the summer). In addition,
2 Mr. Grober ignores how rains will leach salts from the soil (in calculations designated "ECw").
3 The salts in the soil are from prior years or earlier in the year via applied water, are to some
4 extent flushed out of the soil during the winter rainy season. Winter and/or spring rains will
5 occur every year, even drought years.

6 4. Mr. Grober's declaration makes reference to the 0.7 dS/m and 1.0 dS/m as water
7 quality criteria objectives to protect crops during the growing season. As referenced above, these
8 are the current water quality objectives are to protect agriculture with some or not loss of crop
9 production. They are not some sort of tolerable limit beyond which crops cease to produce.

10 5. In other ways was Mr. Grober also does not consider the early applied water
11 salinity. This earlier applied water can remain in or near the root zone (the ground water in the
12 Delta is generally very shallow) and thus available for the plants to use (or dilute) instead of only
13 being able to use the poorer applied water quality later in the season. In addition, Mr. Grober
14 ignores how plants have varying susceptibility to salt depending on the stage of plant growth.
15 For example although salt can affect corn production/growth when the plant is young, it can
16 tolerate significantly high salinities in applied water after it has tasseled.

17 6. Based on my analysis, Mr. Grober's declaration is not a reliable source for
18 examining the effects of high salinity applied water on crops, especially in the Delta. The effects
19 of high salinity applied water and its effects on local crop production is a complicated issue and
20 not subject to the generalities expressed by Mr. Grober.

21 I declare under penalty of perjury under the laws of the State of California that the
22 foregoing is true and correct.

23 Executed this 21st day of July, 2015 at Stockton, California.

24
25
26 _____
Terry L. Prichard
27
28

The Economic Impact on San Joaquin County of Yield Decrement from Reduction in San
Joaquin River Quality

Prepared for South Delta Water Agency et al.

By

**Prairie
Economics
LLC**



SDWA-6

I. Introduction

This study provides a partial estimate of the economic impact of degraded water quality in the San Joaquin River. Building upon a previous study¹ by G.T. Orlob, this study analyzes the estimated crop decrement of six crop types in the South Delta resulting from increases in salinity of the San Joaquin River. The six crop types include: beans, corn, alfalfa, tomatoes, fruit and nuts and grapes. The estimated value of the lost crops is subsequently analyzed using an input-output model to estimate the overall economic impact from the loss of yields due to water degradation.

The study is an attempt to quantify the economic impact of higher salinity water flows in the San Joaquin River, the estimates presented herein must be interpreted with care. Some caveats regarding the results of this study:

- Additional crop types may also be affected by increased salinity but are not included in this analysis.
- Assumptions are necessarily made regarding soil conditions and distribution in the study area and the crops planted under each type of soil conditions that will differ from actual planting behavior and may somewhat distort the final estimates.
- It is unknown what the exact salinity of irrigation water will be at different points downstream of Vernalis. This study assumes for tractability, that a single salinity level prevails at all points downstream over the region of examined.

¹ Impact of San Joaquin River Quality on Crop Values in the South Delta

- Although we know that water qualities in the Central Delta will be better than those in the South Delta, salt impacts occur in that area at lower levels. For purposes of this analysis, I concluded that treating the whole study area the same was appropriate as indicating what results from incremental increases in salinity.

While all of these factors affect, to varying degrees, the precision of the estimates in this study, they do not change the qualitative or sign of the impacts nor do they have a great influence on the magnitude of the changes arising from increased salinity in the San Joaquin River.

II. Yield Decrement Due to Increased Salinity

This study does not involve primary research into the effects of salinity changes on crop yields nor does it investigate the ability of various soil types to leach properly. Instead it builds upon the research into the relationship between soil types, leaching and yield decrements conducted in the report by Dr. Orlob and referenced in section I.

Dr. Orlob's study investigates the relationship between the permeability of the soils in the South Delta and the leaching characteristics of these soils. Dr. Orlob details the percent of soil groups in the South Delta by permeability. The overwhelming share of soil groups fall in the slow to moderate permeability classification (91%).

Leaching characteristics were derived from the 1976 South Delta Salinity Status Study (as referenced in the Orlob study) using observed EC_e s and applied water EC_w s for 51 sites at 10 different locations. Leaching fractions (LF) were calculated for both spring and fall EC_e

profiles at all sites (102 determinations) using the following relation:

$$LF = \frac{EC_w}{2(EC_e)_d}$$

LF = Leaching Fraction

EC_w = electrical conductivity of applied water, mmhos / cm (dS / m)

*$(EC_e)_d$ = electrical conductivity of soil solution extract at drainage horizon
(assumed to be the maximum in the EC_e profiles) mmhos / cm (dS / m)*

Mean leaching fractions ($\overline{LF}$) and standard deviations (σ) were determined for each location. It was found that there was a large range for the standard deviation ranging from 25 to 65 percent of mean leaching fraction. Dr. Orlob adopted an average standard deviation equal to ($\overline{LF} / 3$) as representative of in-field variation in leaching during the growing season.

Soil permeabilities and leaching fractions were related to one another by identifying specific locations from the Salinity Study (as referenced in the Orlob study) with permeability groups from a Soil Permeability Map (as referenced in the Orlob study). A consistent direct relationship between permeability and leaching fractions emerged with some variability that Dr. Orlob attributed to in-field variation.

From subsequent calculations he classifies soils in the South Delta into three groups; A, B, and C with mean leaching fractions equal to 0.053, 0.093 and 0.188 and standard deviations of 0.0177, 0.0310, and 0.0627 respectively. These parameters of the probability density function for LF are used in subsequent calculation of yield decrement by soil type and water quality that are subsequently calculated by Dr. Orlob.

The relationship between yield decrement, leaching fraction and applied water quality are given by the following equation (equation 2 in Orlob's study):

$$\Delta Y = S(EC_w \left\{ \frac{1+LF}{5LF} \right\} - B)$$

Where :

ΔY = yield decrement, percent

S = unit decrement, percent / mmho / cm

B = threshold EC_e , mmhos / cm.

Values of S and B for various crops are taken from FAO Irrigation and Drainage Paper 29 (as referenced in the Orlob study) and supplemented by the Water Quality Advisory Panel for the South Delta Salinity Status Study (as referenced in the Orlob study).

Since the LF can vary over a given field, the yield decrement is determined by combining the above relationship with the probability density function for LF (assumed to be normal by Dr. Orlob) and integrating over a range from 0 to LF_c , a fraction above which there is no decrement in yield. The new equation for yield decrement thus becomes (equation 3 in Orlob's study):

$$\Delta Y = \int_0^{LF_c} S \left[EC_w \left\{ \frac{1+LF}{5LF} \right\} - B \right] \frac{1}{\sigma\sqrt{2\pi}} \left(\frac{1}{2} \frac{(LF - \overline{LF})}{\sigma^2} \right) dLF.$$

The yield decrement-water quality relationship for a given soil group is obtained by integrating over the range of EC_w that is of interest. For the South Delta he uses a range of 0.7 to 1.3 mmhos/cm. The characteristics of the soil are summarized by mean leaching fraction ($\overline{LF}$) and standard deviation (σ) and the susceptibility of the crop is parameterized by S and B. Orlob provides representative yield decrement-water quality relationships for the six crops and three soil types in Table 2 of his report. The yield decrements are summarized provided for three values of EC_w : 0.4, 0.7 and 1.0 dS/m. Since historically 0.7 has been maintained at Vernalis we use this salinity level as the baseline for this study.

Using Orlob's yield decrement table we examine crop decrement for increases of salinity levels equal to 0.8, 0.9 and 1.0 dS/m. This is accomplished by interpolating the crop decrement from salinity levels between the baseline 0.7 dS/m and 1.0 dS/m for increments of 0.1 dS/m. Results are displayed in Table A.

Table A; Yield Decrement (Percent), By Soil Group and Salinity Levels

Soil Group A

LF = 0.053, sigma = 0.0177

ECw	Beans	Corn	Alfalfa	Tomatoes	Fruit & Nuts	Grapes
0.7	0.00	0.00	0.00	0.00	0.00	0.00
0.8	8.67	5.33	3.33	4.33	9.00	4.33
0.9	17.33	10.67	6.67	8.67	18.00	8.67
1.0	26.00	16.00	10.00	13.00	27.00	13.00

Soil Group B

LF = 0.093, sigma = 0.0310

ECw	Beans	Corn	Alfalfa	Tomatoes	Fruit & Nuts	Grapes
0.7	0.00	0.00	0.00	0.00	0.00	0.00
0.8	5.00	2.67	1.33	0.67	4.67	2.67
0.9	10.00	5.33	2.67	1.33	9.33	5.33
1.0	15.00	8.00	4.00	2.00	14.00	8.00

Soil Group C
LF = 0.188, sigma = 0.0627

Beans Corn Alfalfa Tomatoes Fruit & Nuts Grapes

ECw

0.7	0.00	0.00	0.00	0.00	0.00	0.00
0.8	2.00	0.33	0.33	0.33	0.67	0.67
0.9	4.00	0.67	0.67	0.67	1.33	1.33
1.0	6.00	1.00	1.00	1.00	2.00	2.00

Table A is read as follows. If the salinity level remains at 0.7, the current baseline, no additional yield decrement would occur. As salinity is increased, yield decrements increase for all crops. The decline is more pronounced for soil group A, less pronounced for soil group C.

In order to know precisely what the yield decrement would be for each crop requires knowledge of the soil type(s) in which each crop is planted. Since this data was not available a simplifying assumption that each crops acreage is planted uniformly and in the same proportion as the three types of soil in the South Delta.

Commodities and farmed acreages were extracted from the 2004 San Joaquin County Agricultural Commissioner's Office Pesticide Permitting Program Database and commodity valuation was obtained from the San Joaquin County 2004 Annual Crop Report, which is being offered as evidence in this proceeding. Using these data and distributing each crop over the three soil types as described above, yields the following distribution of the total value of the six crop yields by soil type.

Table B; South Delta Crop Value by Soil Grouping (Dollars)

	Beans	Corn	Alfalfa	Tomatoes	Fruit & Nuts	Grapes
Soil Group A	\$3,916,938	\$14,764,135	\$17,271,999	\$29,897,231	\$17,155,066	\$2,601,210
Soil Group B	\$3,329,397	\$12,549,515	\$14,681,199	\$25,412,646	\$14,581,806	\$2,211,029
Soil Group C	\$2,546,010	\$9,596,688	\$11,226,799	\$19,433,200	\$11,150,793	\$1,690,787

Multiplying the yield decrements derived from the Orlob Study (Table A) with the value of crops planted in each soil group (Table B) for each of the salinity levels yields the estimated value of lost yields for each crop, soil type and salinity level. These estimates are detailed in Table C and aggregated over soil type in Table D.

Table C; Dollar Value of Estimated Loss in Crop Yields by Soil Group and Salinity

Soil Group A

ECw	Beans	Corn	Alfalfa	Tomatoes	Fruit & Nuts	Grapes
0.7	\$0	\$0	\$0	\$0	\$0	\$0
0.8	\$339,468	\$787,421	\$575,733	\$1,295,547	\$1,543,956	\$112,719
0.9	\$678,936	\$1,574,841	\$1,151,467	\$2,591,093	\$3,087,912	\$225,438
1.0	\$1,018,404	\$2,362,262	\$1,727,200	\$3,886,640	\$4,631,868	\$338,157

Soil Group B

ECw	Beans	Corn	Alfalfa	Tomatoes	Fruit & Nuts	Grapes
0.7	\$0	\$0	\$0	\$0	\$0	\$0
0.8	\$166,470	\$334,654	\$195,749	\$169,418	\$680,484	\$58,961
0.9	\$332,940	\$669,307	\$391,499	\$338,835	\$1,360,969	\$117,922
1.0	\$499,410	\$1,003,961	\$587,248	\$508,253	\$2,041,453	\$176,882

Soil Group C

ECw	Beans	Corn	Alfalfa	Tomatoes	Fruit & Nuts	Grapes
0.7	\$0	\$0	\$0	\$0	\$0	\$0
0.8	\$50,920	\$31,989	\$37,423	\$64,777	\$74,339	\$11,272
0.9	\$101,840	\$63,978	\$74,845	\$129,555	\$148,677	\$22,544
1.0	\$152,761	\$95,967	\$112,268	\$194,332	\$223,016	\$33,816

Table D; Dollar Value of Estimated Crop Loss by Salinity Level

	Beans	Corn	Alfalfa	Tomatoes	Fruit & Nuts	Grapes
ECw						
0.8	\$556,858	\$1,154,063	\$808,905	\$1,529,742	\$2,298,779	\$182,952

0.9	\$1,011,876	\$2,244,149	\$1,542,965	\$2,929,929	\$4,448,880	\$343,360
1.0	\$1,670,574	\$3,462,190	\$2,426,716	\$4,589,225	\$6,896,337	\$548,855

The impact on crop revenue stemming from increases in salinity of the water in the San Joaquin River is significant. These numbers are sobering; however it does not reflect the total economic impact of this reduction in crop yield on San Joaquin County.

III. The Economic Impact of a Reduction in Crop Yield

When economic activity is reduced (or increased) in one sector of the economy the repercussion of this decrease is not contained to the sector of origin. Because of interdependencies inherent in a region's economy, the change in activity in the original sector is propagated throughout the rest of the region's economy, contracting output (spending) in other sectors. In order to capture these effects, models that reflect this interdependency should be used to assess the total impact of the change in agricultural output caused by increased salinity in the San Joaquin River.

Input-Output models are commonly used to conduct economic impact analysis as they model the interdependencies between sectors of the economy. Input-Output models statistically quantify the relationship between businesses and between consumers and businesses. Once the structure of the economy of a region has been developed, economic activity in one sector of the economy can be traced as it is propagated throughout the rest of the economy. Thus, when activity changes in one sector the subsequent changes on the rest of the economy can be estimated.

The total economic impact of a change in economic activity in one (or more) sector(s) is comprised of three different effects. The direct effect, which is the change in originating sector(s) that starts the process, and in this case it is the reduction of output in the agricultural sectors caused by increased salinity. The secondary impact of this spending arises from inter-industry purchases triggered by the direct expenditures and is known as the indirect effect. The tertiary impact stems from the spending of employees in the affected primary and secondary industries. These consumer expenditures comprise the induced effect.

A commonly used metaphor for the different types of impacts is a stone tossed into a pond. The stone symbolizes the event or activity whose impact is being measured and the pond represents the economy of the region being analyzed. The initial splash, as the stone hits the pond, is analogous to the direct effect, while the waves and ripples that emanate out from that splash represent the indirect and induced effects on the economy.

In terms of the above metaphor the stone in this case is the reduction crop yields and the pond through which this is propagated is the economy of San Joaquin County (The Stockton-Lodi MSA).

IV. Economic Impact Results

In order to measure the economic impact we use one of three commonly employed input-output models. The results are generated using a version of the IMPLAN model which is widely used and was originally developed by the U.S. Department of

Agriculture. The results are presented in tables 1 through 9 below. The economic impact is estimated for each of the three salinity levels; 0.8, 0.9, and 1.0. For each salinity level three tables of results are presented depicting the economic impact of estimated crop decrements on economic output by industrial sector measured in 2005 dollars, on employment by industrial sector, and on tax revenues accruing to Federal, State/Local governments by revenue type and measured in 2005 dollars.

The economic impacts on San Joaquin County, like the yield decrements themselves, increase with the projected levels of salinity. The individual crop losses at each level of salinity may not seem as significant when examined individually. However, when the losses are pooled together and allowed to ripple throughout the region the numbers quickly become more noteworthy.

Examining the results of the impact study for the crop decrement caused by allowing salinity levels to rise to 1.0 dS/m can be found in tables 7, 8 and 9 demonstrates that significant damage is inflicted on the San Joaquin economy by this reduction in water quality. Loss of output in the economy reaches nearly 32 million dollars and 386 jobs are lost in the county. As a result of all this lost economic activity the tax revenues accruing to state and local governments decline by 1.4 million dollars.

In summary, the true economic impact of reduced salinity levels in the San Joaquin River cannot just be gauged by looking at the value of crop decrement resulting from higher salinity in irrigation water. While the estimates of the dollar loss of individual crop yields in the South Delta are not small, especially to the farmers who lose this revenue, the full impact of these losses is much higher than these crop by crop figures alone. When the total value of lost crops is aggregated and a full economic

impact study conducted, the potential damage inflicted by a reduction in river quality become readily apparent.

Water Quality $EC_w = 0.8$ MMHOS/CM
Employment Impact

Table 1

Industry	Direct	Indirect	Induced	Total
Ag, Forestry, Fish & Hunting	(75.1)	(21.5)	(0.2)	(96.7)
Mining	0.0	(0.0)	(0.0)	(0.0)
Utilities	0.0	(0.2)	(0.1)	(0.2)
Construction	0.0	(0.4)	(0.1)	(0.5)
Manufacturing	0.0	(1.7)	(0.5)	(2.2)
Wholesale Trade	0.0	(1.7)	(0.5)	(2.2)
Transportation & Warehousing	0.0	(1.5)	(0.6)	(2.1)
Retail Trade	0.0	(0.3)	(3.7)	(4.1)
Information	0.0	(0.1)	(0.3)	(0.4)
Finance & Insurance	0.0	(1.1)	(1.2)	(2.3)
Real Estate & Rental	0.0	(2.7)	(0.8)	(3.5)
Professional Scientific & Tech Services	0.0	(0.9)	(0.7)	(1.6)
Management of Companies	0.0	(0.1)	(0.2)	(0.3)
Administrative & Waste Services	0.0	(0.8)	(0.9)	(1.7)
Educational Services	0.0	(0.0)	(0.5)	(0.5)
Health & Social Services	0.0	(0.0)	(3.8)	(3.8)
Arts- Entertainment & Recreation	0.0	(0.1)	(0.6)	(0.7)
Accommodation & Food Services	0.0	(0.2)	(2.6)	(2.7)
Other Services	0.0	(0.9)	(1.9)	(2.7)
Government & Non NAICs	0.0	(0.2)	(0.2)	(0.4)
Total	(75.1)	(34.3)	(19.4)	(128.7)

Water Quality EC_w = 0.8 MMHOS/CM
Output Impact

Table 2

Industry	Direct	Indirect	Induced	Total
Ag, Forestry, Fish & Hunting	(6,837,314)	(807,905)	(19,886)	(7,665,105)
Mining	0	(6,476)	(1,758)	(8,235)
Utilities	0	(56,477)	(28,268)	(84,746)
Construction	0	(36,404)	(12,889)	(49,293)
Manufacturing	0	(258,091)	(97,680)	(355,771)
Wholesale Trade	0	(217,092)	(69,320)	(286,412)
Transportation & Warehousing	0	(149,173)	(51,809)	(200,983)
Retail trade	0	(18,242)	(216,251)	(234,493)
Information	0	(27,239)	(54,907)	(82,146)
Finance & Insurance	0	(166,688)	(175,565)	(342,253)
Real Estate & Rental	0	(375,451)	(103,826)	(479,277)
Professional- Scientific & Tech Services	0	(62,496)	(57,014)	(119,510)
Management of Companies	0	(10,256)	(15,451)	(25,707)
Administrative & Waste Services	0	(43,145)	(42,640)	(85,786)
Educational Services	0	(1,478)	(22,836)	(24,315)
Health & Social Services	0	(14)	(307,287)	(307,301)
Arts- Entertainment & Recreation	0	(3,992)	(19,892)	(23,884)
Accommodation & Food Services	0	(9,537)	(115,884)	(125,421)
Other Services	0	(93,778)	(123,701)	(217,479)
Government & Non NAICs	0	(34,066)	(245,475)	(279,540)
Total	(6,837,314)	(2,378,000)	(1,782,341)	(10,997,655)

Table 3

Water Quality $EC_w = 0.8$ MMHOS/CM
Tax Impact

	Employee Compensation	Proprietary Income	Household Expenditures	Enterprises (Corporations)	Indirect Business Tax	Total
Corporate Profits Tax				(136,314)		(136,314)
Indirect Bus Tax: Custom Duty					(7,429)	(7,429)
Indirect Bus Tax: Excise Taxes					(23,911)	(23,911)
Indirect Bus Tax: Fed Non-Taxes					(8,439)	(8,439)
Personal Tax: Estate and Gift Tax						0
Personal Tax: Income Tax			(372,727)			(372,727)
Personal Tax: Non-Taxes (Fines- Fees)			(3,147)			(3,147)
Social Ins Tax- Employee Contribution	(126,575)	(28,780)				(155,355)
Social Ins Tax- Employer Contribution	(131,075)					(131,075)
Federal Government Non-Defense Total	(257,650)	(28,780)	(375,874)	(136,314)	(39,780)	(838,399)
Corporate Profits Tax				(33,315)		(33,315)
Dividends				(396)		(396)
Indirect Bus Tax: Motor Vehicle License					(2,005)	(2,005)
Indirect Bus Tax: Other Taxes					(16,321)	(16,321)
Indirect Bus Tax: Property Tax					(102,048)	(102,048)
Indirect Bus Tax: S/L Non-Taxes					(18,147)	(18,147)
Indirect Bus Tax: Sales Tax					(150,744)	(150,744)
Indirect Bus Tax: Severance Tax					(77)	(77)
Personal Tax: Estate and Gift Tax						0
Personal Tax: Income Tax			(107,987)			(107,987)
Personal Tax: Motor Vehicle License			(3,378)			(3,378)
Personal Tax: Non-Taxes (Fines- Fees)			(28,401)			(28,401)
Personal Tax: Other Tax (Fish/Hunt)			(509)			(509)
Personal Tax: Property Taxes			(1,421)			(1,421)
Social Ins Tax- Employee Contribution	(1,558)					(1,558)
Social Ins Tax- Employer Contribution	(5,608)					(5,608)
State/Local Govt. Non-Education Total	(7,166)	0	(141,696)	(33,710)	(289,342)	(471,915)
Total	(264,816)	(28,780)	(517,570)	(170,025)	(329,122)	(1,310,313)

Water Quality $EC_w = 0.9$ MMHOS/CM
Employment Impact

Table 4

Industry	Direct	Indirect	Induced	Total
Ag, Forestry, Fish & Hunting	(144.0)	(41.2)	(0.4)	(185.6)
Mining	0.0	(0.1)	(0.0)	(0.1)
Utilities	0.0	(0.3)	(0.1)	(0.4)
Construction	0.0	(0.7)	(0.2)	(0.9)
Manufacturing	0.0	(3.3)	(0.9)	(4.2)
Wholesale Trade	0.0	(3.2)	(1.0)	(4.2)
Transportation & Warehousing	0.0	(2.8)	(1.2)	(4.0)
Retail Trade	0.0	(0.6)	(7.2)	(7.8)
Information	0.0	(0.3)	(0.5)	(0.8)
Finance & Insurance	0.0	(2.1)	(2.3)	(4.4)
Real Estate & Rental	0.0	(5.1)	(1.6)	(6.7)
Professional Scientific & Tech Services	0.0	(1.7)	(1.4)	(3.1)
Management of Companies	0.0	(0.2)	(0.3)	(0.5)
Administrative & Waste Services	0.0	(1.5)	(1.8)	(3.3)
Educational Services	0.0	(0.1)	(0.9)	(1.0)
Health & Social Services	0.0	(0.0)	(7.3)	(7.3)
Arts- Entertainment & Recreation	0.0	(0.2)	(1.2)	(1.4)
Accommodation & Food Services	0.0	(0.3)	(4.9)	(5.2)
Other Services	0.0	(1.6)	(3.6)	(5.2)
Government & Non NAICs	0.0	(0.4)	(0.3)	(0.7)
Total	(144.0)	(65.7)	(37.2)	(246.9)

Water Quality $EC_w = 0.9$ MMHOS/CM
Output Impact

Table 5

Industry	Direct	Indirect	Induced	Total
Ag, Forestry, Fish & Hunting	(13,107,820)	(1,549,612)	(38,164)	(14,695,596)
Mining	0	(12,405)	(3,374)	(15,780)
Utilities	0	(108,219)	(54,251)	(162,471)
Construction	0	(69,760)	(24,736)	(94,496)
Manufacturing	0	(494,596)	(187,463)	(682,058)
Wholesale Trade	0	(415,670)	(133,036)	(548,706)
Transportation & Warehousing	0	(285,611)	(99,430)	(385,041)
Retail trade	0	(34,955)	(415,018)	(449,972)
Information	0	(52,198)	(105,374)	(157,572)
Finance & Insurance	0	(319,823)	(336,935)	(656,758)
Real Estate & Rental	0	(719,179)	(199,258)	(918,437)
Professional- Scientific & Tech Services	0	(119,837)	(109,419)	(229,256)
Management of Companies	0	(19,646)	(29,652)	(49,298)
Administrative & Waste Services	0	(82,659)	(81,833)	(164,493)
Educational Services	0	(2,832)	(43,826)	(46,658)
Health & Social Services	0	(28)	(589,729)	(589,757)
Arts- Entertainment & Recreation	0	(7,657)	(38,176)	(45,833)
Accommodation & Food Services	0	(18,279)	(222,400)	(240,678)
Other Services	0	(179,731)	(237,401)	(417,132)
Government & Non NAICs	0	(65,271)	(471,102)	(536,374)
Total	(13,107,820)	(4,557,968)	(3,420,578)	(21,086,366)

Table 6

Water Quality EC_w = 0.9 MMHOS/CM
Tax Impact

	Employee Compensation	Proprietary Income	Household Expenditures	Enterprises (Corporations)	Indirect Business Tax	Total
Corporate Profits Tax				(261,141)		(261,141)
Indirect Bus Tax: Custom Duty					(14,255)	(14,255)
Indirect Bus Tax: Excise Taxes					(45,878)	(45,878)
Indirect Bus Tax: Fed Non-Taxes					(16,192)	(16,192)
Personal Tax: Estate and Gift Tax						0
Personal Tax: Income Tax			(715,318)			(715,318)
Personal Tax: Non-Taxes (Fines- Fees)			(6,041)			(6,041)
Social Ins Tax- Employee Contribution	(242,929)	(55,223)				(298,152)
Social Ins Tax- Employer Contribution	(251,566)					(251,566)
Federal Government Non-Defense Total	(494,495)	(55,223)	(721,358)	(261,141)	(76,324)	(1,608,542)
Corporate Profits Tax				(63,822)		(63,822)
Dividends				(758)		(758)
Indirect Bus Tax: Motor Vehicle License					(3,847)	(3,847)
Indirect Bus Tax: Other Taxes					(31,315)	(31,315)
Indirect Bus Tax: Property Tax					(195,798)	(195,798)
Indirect Bus Tax: S/L Non-Taxes					(34,818)	(34,818)
Indirect Bus Tax: Sales Tax					(289,230)	(289,230)
Indirect Bus Tax: Severance Tax					(148)	(148)
Personal Tax: Estate and Gift Tax						0
Personal Tax: Income Tax			(207,244)			(207,244)
Personal Tax: Motor Vehicle License			(6,483)			(6,483)
Personal Tax: Non-Taxes (Fines- Fees)			(54,505)			(54,505)
Personal Tax: Other Tax (Fish/Hunt)			(977)			(977)
Personal Tax: Property Taxes			(2,727)			(2,727)
Social Ins Tax- Employee Contribution	(2,990)					(2,990)
Social Ins Tax- Employer Contribution	(10,764)					(10,764)
State/Local Govt. Non-Education Total	(13,754)	0	(271,935)	(64,580)	(555,155)	(905,424)
Total	(508,249)	(55,223)	(993,293)	(325,721)	(631,479)	(2,513,965)

Water Quality $EC_w = 1.0$ MMHOS/CM
Employment Impact

Table 7

Industry	Direct	Indirect	Induced	Total
Ag, Forestry, Fish & Hunting	(225.2)	(64.4)	(0.6)	(290.2)
Mining	0.0	(0.1)	(0.0)	(0.1)
Utilities	0.0	(0.5)	(0.2)	(0.7)
Construction	0.0	(1.1)	(0.4)	(1.4)
Manufacturing	0.0	(5.2)	(1.4)	(6.6)
Wholesale Trade	0.0	(5.0)	(1.6)	(6.6)
Transportation & Warehousing	0.0	(4.4)	(1.8)	(6.2)
Retail Trade	0.0	(1.0)	(11.2)	(12.2)
Information	0.0	(0.4)	(0.8)	(1.2)
Finance & Insurance	0.0	(3.3)	(3.6)	(6.9)
Real Estate & Rental	0.0	(8.0)	(2.5)	(10.6)
Professional Scientific & Tech Services	0.0	(2.7)	(2.2)	(4.9)
Management of Companies	0.0	(0.3)	(0.5)	(0.8)
Administrative & Waste Services	0.0	(2.4)	(2.8)	(5.2)
Educational Services	0.0	(0.1)	(1.4)	(1.5)
Health & Social Services	0.0	(0.0)	(11.4)	(11.4)
Arts- Entertainment & Recreation	0.0	(0.3)	(1.8)	(2.1)
Accommodation & Food Services	0.0	(0.5)	(7.7)	(8.2)
Other Services	0.0	(2.6)	(5.6)	(8.2)
Government & Non NAICs	0.0	(0.6)	(0.5)	(1.1)
Total	(225.2)	(102.8)	(58.1)	(386.1)

Water Quality EC_w = 1.0 MMHOS/CM
Output Impact

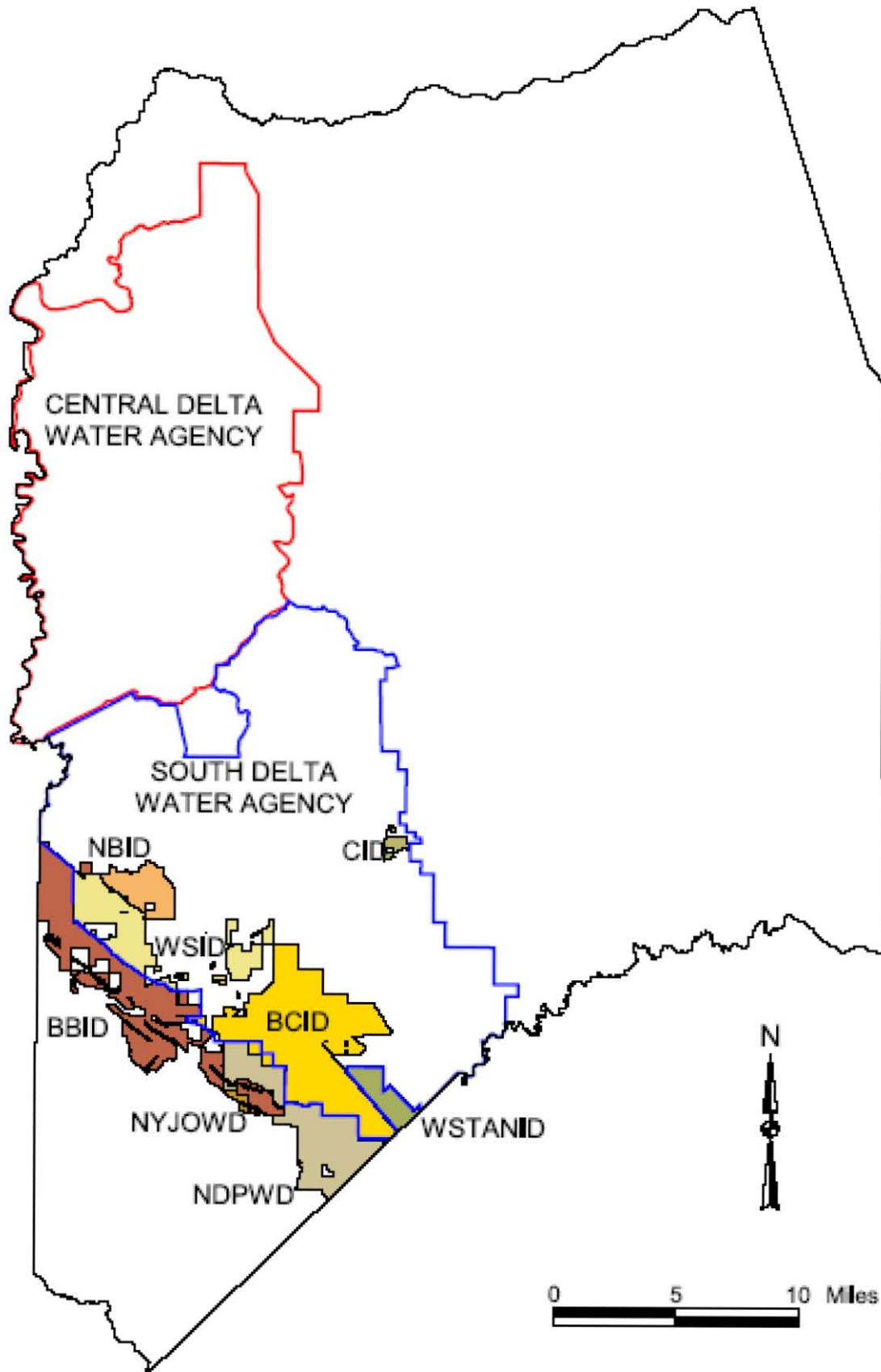
Table 8

Industry	Direct	Indirect	Induced	Total
Ag, Forestry, Fish & Hunting	(20,511,940)	(2,423,715)	(59,658)	(22,995,312)
Mining	0	(19,429)	(5,275)	(24,704)
Utilities	0	(169,431)	(84,805)	(254,237)
Construction	0	(109,213)	(38,667)	(147,880)
Manufacturing	0	(774,272)	(293,040)	(1,067,313)
Wholesale Trade	0	(651,275)	(207,961)	(859,236)
Transportation & Warehousing	0	(447,520)	(155,428)	(602,948)
Retail trade	0	(54,727)	(648,752)	(703,479)
Information	0	(81,717)	(164,720)	(246,437)
Finance & Insurance	0	(500,064)	(526,695)	(1,026,759)
Real Estate & Rental	0	(1,126,353)	(311,479)	(1,437,832)
Professional- Scientific & Tech Services	0	(187,487)	(171,043)	(358,530)
Management of Companies	0	(30,768)	(46,352)	(77,120)
Administrative & Waste Services	0	(129,436)	(127,921)	(257,357)
Educational Services	0	(4,435)	(68,509)	(72,944)
Health & Social Services	0	(43)	(921,860)	(921,904)
Arts- Entertainment & Recreation	0	(11,975)	(59,677)	(71,652)
Accommodation & Food Services	0	(28,611)	(347,653)	(376,264)
Other Services	0	(281,333)	(371,103)	(652,436)
Government & Non NAICs	0	(102,197)	(736,424)	(838,621)
Total	(20,511,940)	(7,134,001)	(5,347,023)	(32,992,963)

Table 9

Water Quality $EC_w = 1.0$ MMHOS/CM
Tax Impact

	Employee Compensation	Proprietary Income	Household Expenditures	Enterprises (Corporations)	Indirect Business Tax	Total
Corporate Profits Tax				(408,943)		(408,943)
Indirect Bus Tax: Custom Duty					(22,288)	(22,288)
Indirect Bus Tax: Excise Taxes					(71,733)	(71,733)
Indirect Bus Tax: Fed Non-Taxes					(25,318)	(25,318)
Personal Tax: Estate and Gift Tax						0
Personal Tax: Income Tax			(1,118,180)			(1,118,180)
Personal Tax: Non-Taxes (Fines- Fees)			(9,442)			(9,442)
Social Ins Tax- Employee Contribution	(379,725)	(86,341)				(466,066)
Social Ins Tax- Employer Contribution	(393,226)					(393,226)
Federal Government Non-Defense Total	(772,951)	(86,341)	(1,127,622)	(408,943)	(119,339)	(2,515,196)
Corporate Profits Tax				(99,944)		(99,944)
Dividends				(1,187)		(1,187)
Indirect Bus Tax: Motor Vehicle License					(6,015)	(6,015)
Indirect Bus Tax: Other Taxes					(48,963)	(48,963)
Indirect Bus Tax: Property Tax					(306,144)	(306,144)
Indirect Bus Tax: S/L Non-Taxes					(54,440)	(54,440)
Indirect Bus Tax: Sales Tax					(452,233)	(452,233)
Indirect Bus Tax: Severance Tax					(231)	(231)
Personal Tax: Estate and Gift Tax						0
Personal Tax: Income Tax			(323,962)			(323,962)
Personal Tax: Motor Vehicle License			(10,134)			(10,134)
Personal Tax: Non-Taxes (Fines- Fees)			(85,202)			(85,202)
Personal Tax: Other Tax (Fish/Hunt)			(1,527)			(1,527)
Personal Tax: Property Taxes			(4,262)			(4,262)
Social Ins Tax- Employee Contribution	(4,674)					(4,674)
Social Ins Tax- Employer Contribution	(16,825)					(16,825)
State/Local Govt. Non-Education Total	(21,499)	0	(425,088)	(101,131)	(868,026)	(1,415,744)
Total	(794,449)	(86,341)	(1,552,710)	(510,074)	(987,365)	(3,930,940)



STATEMENT OF QUALIFICATIONS
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ATTACHMENT “A”