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In Reply Refer to: EOL0612-340

June 29, 2012

VIA CERTIFIED MAIL
70110470000294839683

Barbara Evoy, Deputy Director
Division of Water Rights
State Water Resources Control Board
P.O. Box 2000
Sacramento, CA 95812-2000

SUBJECT: Annual Operations Report Pursuant to Condition No. 7 and Five-year Compliance
Report Pursuant to Condition 13 for Water Year 2011 of Water Rights Permit 21112

Dear Ms. Evoy:

Condition No. 7 of State Water Resources Control Board (SWRCB) Water Right Permit No. 21112 requires the El Dorado Irrigation District (EID or District) to provide an annual operations report and Condition No. 13 requires submittal of a compliance report once every five years to the SWRCB. Enclosed for filing is the report of diversions for the 2011 water year and the five year compliance report, pursuant to each condition.

The first attachment provides withdrawals from Folsom Lake. Attachment 1A shows the monthly diversions (in acre-feet) to the El Dorado Hills Water Treatment Plant (EDHWTP), and allocates the totals among the various District water rights and entitlements under which those diversions were made. Attachment 1B shows total daily intake at the EDHWTP (in millions of gallons per day and acre-feet). The monthly "total" lines match the total monthly diversions shown in Attachment 1A; except where, as indicated, adjustments to incorrect data were necessary.

The second attachment provides daily operation information for the Project 184 Kyburz diversion dam. Attachment 2A shows average daily flow (in cubic feet per second) into the Project 184 El Dorado Canal (USGS 1143900, aka EID A-11). Attachment 2B shows average daily flow (in cubic feet per second) in the South Fork American River downstream of the Kyburz diversion dam (USGS 11439500, aka EID A-12). Average daily flow for the South Fork immediately upstream of the Kyburz diversion dam is the sum of the two gage flows.

The third attachment provides daily operation information on water diverted into the District Main Canal and distribution system from the Project 184 Forebay Reservoir. Attachment 3 shows average daily flow (in cubic feet per second) into the Main Canal (EID A-18).

The fourth attachment provides daily operation information for Lake Aloha. Attachment 4A provides available daily storage data, expressed in acre-feet (USGS 11434900, aka EID A-1). As in the past, these data remain fragmentary because of Lake Aloha's inaccessible location in the Desolation Wilderness. Attachment 4B provides average daily flow (in cubic feet per second) in Pyramid Creek at Twin Bridges (USGS 11435100, aka EID A-40).

The fifth attachment provides daily operation information for Caples Lake. Attachment 5A provides daily storage data, expressed in acre-feet (USGS 11436950, aka EID A-5). Attachment 5B provides average daily flow (in cubic feet per second) released at the Caples Lake dam outlet (USGS 11436999, aka EID A-6).

The sixth attachment provides daily operation information for Silver Lake. Attachment 6A provides daily storage data, expressed in acre-feet (USGS 11435900, aka EID A-8). Attachment 6B provides average daily flow (in cubic feet per second) released at the Silver Lake dam outlet (USGS 11436000, aka EID A-9). Attachment 6C provides flow readings of Silver Lake leakage, in cubic feet per second (USGS 11436500, aka EID A-24). These data reflect readings taken during the months that appreciable leakage occurs, which is normally between a full reservoir and a 12.0 foot staff gage reading (which corresponds to a 3,756 AF storage volume).

Condition No. 7 in SWRCB Water Right Permit No. 21112 also requires the District to record the beneficial use of water authorized by the Order and to report diversions to the Division of Water Rights. No diversions or beneficial uses of water were made pursuant to Permit 21112 in water year 2011.

Condition No. 13 in SWRCB Water Right Permit No. 21112 requires the District to make an annual report on lake level impacts to recreational uses at Lake Aloha, Caples Lake, and Silver Lake. In addition, Condition No. 13 requires EID to submit, once every five years, a compliance report that demonstrates compliance with Conditions 8, 9, and 10 end-of-the-month lake levels for Lake Aloha, Caples Lake and Silver Lake for the 2008-2011 water years. All of this information is enclosed as the seventh attachment.

Finally, we have enclosed a CD that contains all of the attachments in electronic form. In the attachments, the character "E" denotes an estimate. Note, however, that all data from USGS gages, including estimates, were approved by the USGS in December 2011.

We trust that this submission meets the SWRCB needs and complies with our permit obligations. Please contact me at (530) 642-4029 or bmuller@eid.org if you have any comments or questions.

Sincerely,



Brian Mueller, P.E.
Director of Engineering

BM/JM:jn

Enclosures: Attachments 1 through 7
CD

cc w/ enclosures:

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Jim Murphy, Administrative Analyst

El Dorado Irrigation District Folsom Lake Withdrawals (All Sources) WY 2011 (Acre Feet)				
	PERMIT #21112	USBR Water Service Contract 14-06-200-1357A-LTR1	USBR Warren Act Contract 10-WC-20-3977	Total Water Diverted
October	0	731	59	790
November	0	304	0	304
December	0	241	0	241
January	0	89	0	89
February	0	0	0	0
March	0	1	0	1
April	0	0	266	266
May	0	0	644	644
June	0	0	690	690
July	0	106	870	976
August	0	6	1,014	1,020
September	0	176	791	967
TOTAL	0	1,654	4,334	5,988

Raw water Flow to the EDHWTP

Date	Read	MGD	Acre Feet
10/1/10	346194	11.837	36.329
10/2/10	9606	9.606	29.482
10/3/10	21401	11.795	36.200
10/4/10	33508	12.107	37.158
10/5/10	43700	10.192	31.280
10/6/10	53911	10.211	31.339
10/7/10	61721	7.810	23.970
10/8/10	74364	12.643	38.803
10/9/10	83026	8.662	26.584
10/10/10	92460	9.434	28.954
10/11/10	104106	11.646	35.743
10/12/10	114529	10.423	31.989
10/13/10	124007	9.478	29.089
10/14/10	134945	10.938	33.570
10/15/10	144670	9.725	29.847
10/16/10	154855	10.185	31.259
10/17/10	163028	8.173	25.084
10/18/10	172377	9.349	28.693
10/19/10	180596	8.219	25.225
10/20/10	188444	7.848	24.086
10/21/10	196942	8.498	26.081
10/22/10	204076	7.134	21.895
10/23/10	210831	6.755	20.732
10/24/10	215312	4.481	13.753
10/25/10	221469	6.157	18.896
10/26/10	226339	4.870	14.946
10/27/10	230523	4.184	12.841
10/28/10	234328	3.805	11.678
10/29/10	238243	3.915	12.016
10/30/10	241622	3.379	10.370
10/31/10	245568	3.946	12.111
Total			790.00

Raw water Flow to the EDHWTP

Date	Read	MGD	Acre Feet
11/1/10	249616	4.048	12.424
11/2/10	4013	4.013	12.316
11/3/10	8417	4.404	13.516
11/4/10	11702	3.285	10.082
11/5/10	16480	4.778	14.664
11/6/10	22031	5.551	17.037
11/7/10	26518	4.487	13.771
11/8/10	29402	2.884	8.851
11/9/10	32150	2.748	8.434
11/10/10	37117	4.967	15.244
11/11/10	40249	3.132	9.612
11/12/10	43672	3.423	10.506
11/13/10	46725	3.053	9.370
11/14/10	50649	3.924	12.043
11/15/10	54312	3.663	11.242
11/16/10	58633	4.321	13.262
11/17/10	58633	0.000	0.000
11/18/10	58633	0.000	0.000
11/19/10	58836	0.203	0.623
11/20/10	60882	2.046	6.279
11/21/10	64413	3.531	10.837
11/22/10	67211	2.798	8.587
11/23/10	69929	2.718	8.342
11/24/10	72721	2.792	8.569
11/25/10	75632	2.911	8.934
11/26/10	78652	3.020	9.269
11/27/10	81970	3.318	10.183
11/28/10	86333	3.363	10.321
11/29/10	88633	3.300	10.128
11/30/10	91949	3.316	10.177
Total			294.62
Less reported*			304.00
underreported*			9.38

Raw water Flow to the EDHWTP

Date	Read	MGD	Acre Feet
12/1/10	95167	3.218	9.876
12/2/10	2452	2.452	7.525
12/3/10	5250	2.798	8.587
12/4/10	7998	2.748	8.434
12/5/10	10313	2.315	7.105
12/6/10	13053	2.740	8.409
12/7/10	15812	2.759	8.468
12/8/10	18573	2.761	8.474
12/9/10	21379	2.806	8.612
12/10/10	24172	2.793	8.572
12/11/10	26427	2.255	6.921
12/12/10	29252	2.825	8.670
12/13/10	32027	2.775	8.517
12/14/10	34789	2.762	8.477
12/15/10	37563	2.774	8.514
12/16/10	37563	0.000	0.000
12/17/10	40185	2.622	8.047
12/18/10	42931	2.746	8.428
12/19/10	45728	2.797	8.584
12/20/10	48494	2.766	8.489
12/21/10	50936	2.442	7.495
12/22/10	52059	1.123	3.447
12/23/10	52106	0.047	0.144
12/24/10	55007	2.901	8.903
12/25/10	58823	3.816	11.712
12/26/10	61723	2.900	8.900
12/27/10	64606	2.883	8.848
12/28/10	67290	2.684	8.237
12/29/10	69805	2.515	7.719
12/30/10	72469	2.664	8.176
12/31/10	75017	2.548	7.820
Total			240.11

Date	Read	MGD	Acres Feet
01/01/11	77514	2.497	7.664
01/02/11	2491	2.491	7.645
01/03/11	5130	2.639	8.039
01/04/11	6037	0.907	2.784
01/05/11	8993	2.956	9.072
01/06/11	11551	2.558	7.851
01/07/11	14222	2.671	8.198
01/08/11	16807	2.585	7.934
01/09/11	19423	2.616	8.029
01/10/11	21989	2.566	7.875
01/11/11	23239	1.25	3.836
01/12/11	25033	1.794	5.506
01/13/11	26446	1.413	4.337
01/14/11	26446	0	0.000
01/15/11	26446	0	0.000
01/16/11	26446	0	0.000
01/17/11	26446	0	0.000
01/18/11	26446	0	0.000
01/19/11	26446	0	0.000
01/20/11	26446	0	0.000
01/21/11	26446	0	0.000
01/22/11	26446	0	0.000
01/23/11	26446	0	0.000
01/24/11	26446	0	0.000
01/25/11	26446	0	0.000
01/26/11	26446	0	0.000
01/27/11	26446	0	0.000
01/28/11	26446	0	0.000
01/29/11	26446	0	0.000
01/30/11	26446	0	0.000
01/31/11	26446	0	0.000
Total			88.83

Raw water Flow to the EDHWTP

Date	Read	MGD	Acre Feet
02/02/11	26446		0
02/03/11	0		0
02/04/11	0		0
02/05/11	0		0
02/06/11	0		0
02/07/11	0		0
02/08/11	0		0
02/09/11	0		0
02/10/11	0		0
02/11/11	0		0
02/12/11	0		0
02/13/11	0		0
02/14/11	0		0
02/15/11	0		0
02/16/11	0		0
02/17/11	0		0
02/18/11	0		0
02/19/11	0		0
02/20/11	0		0
02/21/11	0		0
02/22/11	0		0
02/23/11	0		0
02/24/11	0		0
02/25/11	0		0
02/26/11	0		0
02/27/11	0		0
02/28/11	0		0
Total			0.00

Raw water Flow to the EDHWTP

Date	Read	MGD	Acres Feet
03/01/11	0	0.000	0.000
03/02/11	0	0.000	0.000
03/03/11	0	0.000	0.000
03/04/11	0	0.000	0.000
03/05/11	0	0.000	0.000
03/06/11	0	0.000	0.000
03/07/11	0	0.000	0.000
03/08/11	0	0.000	0.000
03/09/11	0	0.000	0.000
03/10/11	0	0.000	0.000
03/11/11	0	0.000	0.000
03/12/11	0	0.000	0.000
03/13/11	0	0.000	0.000
03/14/11	0	0.000	0.000
03/15/11	0	0.000	0.000
03/16/11	0	0.000	0.000
03/17/11	0	0.000	0.000
03/18/11	0	0.000	0.000
03/19/11	0	0.000	0.000
03/20/11	0	0.000	0.000
03/21/11	0	0.000	0.000
03/22/11	0	0.000	0.000
03/23/11	0	0.000	0.000
03/24/11	0	0.000	0.000
03/25/11	0	0.000	0.000
03/26/11	0	0.000	0.000
03/27/11	11	0.011	0.034
03/28/11	11	0.000	0.000
03/29/11	310	0.299	0.918
03/30/11	310	0.000	0.000
03/31/11	349	0.039	0.120
Total			1.07

Raw water Flow to the EDHWWTP

Date	Read	MGD	Acre Feet
04/01/11	349	0.000	0.00000
04/02/11	0	0.000	0.00000
04/03/11	103	0.103	0.31612
04/04/11	194	0.091	0.27929
04/05/11	539	0.345	1.05884
04/06/11	1185	0.646	1.98264
04/07/11	1754	0.569	1.74631
04/08/11	3209	1.455	4.46553
04/09/11	4716	1.507	4.62513
04/10/11	6295	1.579	4.84610
04/11/11	8036	1.741	5.34329
04/12/11	10695	2.659	8.16072
04/13/11	13745	3.050	9.36074
04/14/11	15109	1.364	4.18624
04/15/11	18616	3.507	10.76331
04/16/11	22226	3.610	11.07943
04/17/11	26112	3.886	11.92650
04/18/11	29780	3.668	11.25744
04/19/11	34988	5.208	15.98384
04/20/11	38672	3.684	11.30654
04/21/11	42923	4.251	13.04672
04/22/11	47718	4.795	14.71631
04/23/11	50867	3.149	9.66458
04/24/11	56026	5.159	15.83346
04/25/11	60435	4.409	13.53164
04/26/11	65221	4.786	14.68869
04/27/11	70425	5.204	15.97157
04/28/11	74150	3.725	11.43238
04/29/11	80815	6.665	20.45552
04/30/11	86584	5.769	17.70561
Totals			265.73

Raw water Flow to the EDHWWTP

Date	Read	MGD	Acre Feet
05/01/11	92562	5.98	18.347
05/02/11	6468	6.47	19.851
05/03/11	15993	9.53	29.233
05/04/11	21246	5.25	16.122
05/05/11	30190	8.94	27.450
05/06/11	35815	5.63	17.264
05/07/11	44066	8.25	25.323
05/08/11	52412	8.35	25.615
05/09/11	59914	7.50	23.024
05/10/11	68537	8.62	26.465
05/11/11	74302	5.77	17.693
05/12/11	83316	9.01	27.665
05/13/11	90802	7.49	22.975
05/14/11	98534	7.73	23.730
05/15/11	105899	7.37	22.604
05/16/11	112520	6.62	20.320
05/17/11	117363	4.84	14.864
05/18/11	122964	5.60	17.190
05/19/11	127101	4.14	12.697
05/20/11	131966	4.87	14.931
05/21/11	138748	6.78	20.815
05/22/11	145510	6.76	20.753
05/23/11	153015	7.51	23.034
05/24/11	159708	6.69	20.541
05/25/11	167424	7.72	23.681
05/26/11	173591	6.17	18.927
05/27/11	179301	5.71	17.525
05/28/11	185559	6.26	19.206
05/29/11	192004	6.45	19.780
05/30/11	197493	5.49	16.846
05/31/11	203906	6.41	19.682
Totals			644.15

Raw water Flow to the EDHWWTP

Date	Read	MGD	Acre Feet
06/01/11	208960	5.054	15.511
06/02/11	5722	5.722	17.561
06/03/11	11647	5.925	18.184
06/04/11	16395	4.748	14.572
06/05/11	22439	6.044	18.550
06/06/11	26181	3.742	11.485
06/07/11	30414	4.233	12.991
06/08/11	34985	4.571	14.029
06/09/11	41126	6.141	18.847
06/10/11	46680	5.554	17.046
06/11/11	53814	7.134	21.895
06/12/11	60916	7.102	21.797
06/13/11	68418	7.502	23.024
06/14/11	76789	8.371	25.691
06/15/11	84911	8.122	24.927
06/16/11	92369	7.458	22.889
06/17/11	102077	9.708	29.795
06/18/11	109930	7.853	24.102
06/19/11	118103	8.173	25.084
06/20/11	127322	9.219	28.294
06/21/11	136829	9.507	29.178
06/22/11	146838	10.009	30.719
06/23/11	157120	10.282	31.556
06/24/11	166290	9.170	28.144
06/25/11	177049	10.759	33.020
06/26/11	185465	8.416	25.829
06/27/11	197718	12.253	37.606
06/28/11	206833	9.115	27.975
06/29/11	213706	6.873	21.094
06/30/11	220130	6.424	19.716
Total			691.11

Raw water Flow to the EDHWTP

Date	Read	MGD	Acre Feet
07/01/11	229757	9.627	29,546
07/02/11	9596	9.596	29,451
07/03/11	19499	9.903	30,393
07/04/11	30274	10.775	33,069
07/05/11	40683	10.409	31,946
07/06/11	50324	9.641	29,589
07/07/11	60909	10.585	32,486
07/08/11	71399	10.490	32,195
07/09/11	81371	9.972	30,605
07/10/11	91641	10.270	31,520
07/11/11	102045	10.404	31,931
07/12/11	113527	11.482	35,239
07/13/11	122735	9.208	28,260
07/14/11	132304	9.569	29,368
07/15/11	143413	11.109	34,095
07/16/11	151838	8.425	25,857
07/17/11	162225	10.387	31,879
07/18/11	174713	12.488	38,327
07/19/11	183920	9.207	28,257
07/20/11	193135	9.215	28,282
07/21/11	202862	9.727	29,853
07/22/11	213339	10.477	32,155
07/23/11	225135	11.796	36,203
07/24/11	235587	10.452	32,078
07/25/11	246763	11.176	34,300
07/26/11	256289	9.526	29,236
07/27/11	266507	10.218	31,360
07/28/11	276386	9.879	30,320
07/29/11	288730	12.344	37,885
07/30/11	297612	8.882	27,260
07/31/11	308839	11.227	34,457
Total			977.40

Raw water Flow to the EDHWTP

Date	Read	MGD	Acre Feet
08/01/11	320743	11.904	36,535
08/02/11	10686	10.686	32,796
08/03/11	21170	10.484	32,176
08/04/11	32205	11.035	33,867
08/05/11	43240	11.035	33,867
08/06/11	54343	11.103	34,076
08/07/11	67094	12.751	39,134
08/08/11	76636	9.542	29,285
08/09/11	86954	10.318	31,667
08/10/11	97816	10.862	33,337
08/11/11	109075	11.259	34,555
08/12/11	118722	9.647	29,608
08/13/11	129173	10.451	32,075
08/14/11	140758	11.585	35,555
08/15/11	151815	11.057	33,935
08/16/11	162579	10.764	33,036
08/17/11	172957	10.378	31,851
08/18/11	183276	10.319	31,670
08/19/11	194544	11.268	34,583
08/20/11	204150	9.606	29,482
08/21/11	214725	10.575	32,456
08/22/11	225403	10.678	32,772
08/23/11	236443	11.040	33,883
08/24/11	246418	9.975	30,614
08/25/11	256547	10.129	31,087
08/26/11	267459	10.912	33,490
08/27/11	277035	9.576	29,390
08/28/11	287647	10.612	32,569
08/29/11	300930	13.283	40,767
08/30/11	309803	8.873	27,232
08/31/11	320730	10.927	33,536
Total			1,020.89

Raw water Flow to the EDHWTP

Date	Read	MGD	Acre Feet
09/01/11	330400	9.670	29,678
09/02/11	11608	11.608	35,626
09/03/11	21624	10.016	30,740
09/04/11	31202	9.578	29,396
09/05/11	41840	10.638	32,649
09/06/11	53514	11.674	35,829
09/07/11	64180	10.666	32,735
09/08/11	72642	8.462	25,971
09/09/11	85281	12.639	38,790
09/10/11	93176	7.895	24,231
09/11/11	104753	11.577	35,531
09/12/11	115388	10.615	32,578
09/13/11	125329	9.961	30,571
09/14/11	137632	12.303	37,759
09/15/11	147489	9.857	30,252
09/16/11	157719	10.230	31,397
09/17/11	168709	10.990	33,729
09/18/11	178357	9.648	29,611
09/19/11	189239	10.882	33,398
09/20/11	200636	11.397	34,978
09/21/11	211143	10.507	32,247
09/22/11	222793	11.650	35,755
09/23/11	233480	10.687	32,799
09/24/11	242401	8.921	27,379
09/25/11	253854	11.453	35,150
09/26/11	263610	9.756	29,942
09/27/11	273080	9.470	29,064
09/28/11	284079	10.999	33,757
09/29/11	294919	10.840	33,269
09/30/11	305084	10.165	31,197
Totals			966.01

EL DORADO IRRIGATION DISTRICT
A-11 EL DORADO CANAL NEAR KYBURZ, CA.

USGS #: 11-4390.00

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2010 TO SEP 2011

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	0	0	105	149	78	96	141	147	151	152	148
2	0	0	0	105	149	102	96	143	148	151	152	147
3	0	0	0	116	149	110	96	145	148	152	151	149
4	0	0	0	130	149	110	98	147	149	152	152	148
5	0	0	0	136	149	111	109	146	149	152	151	148
6	0	0	0	139	149	111	114	147	148	152	152	148
7	0	0	0	144	149	100	118	147	149	152	151	149
8	0	0	0	143	149	107	118	147	150	151	152	148
9	0	0	0	145	145	119	118	147	150	151	151	147
10	0	0	0	143	149	121	119	148	149	151	152	148
11	0	0	31	145	149	121	125	148	148	151	150	149
12	0	0	51	147	149	126	127	149	149	152	150	148
13	0	0	52	147	149	129	130	148	149	151	150	148
14	0	0	52	146	149	116	133	148	149	151	150	148
15	0	0	83	147	149	110	133	146	149	151	150	140
16	0	0	107	147	144	75	134	146	150	151	148	142
17	0	0	111	148	140	103	134	146	150	151	148	146
18	0	0	91	147	43	103	134	145	151	152	148	143
19	0	0	84	148	32	95	133	143	150	149	147	147
20	0	0	98	147	32	98	133	145	151	149	148	143
21	0	0	110	148	42	69	137	145	151	151	148	147
22	0	0	108	148	71	52	138	145	151	151	148	147
23	0	0	110	126	83	52	139	146	151	151	148	148
24	0	0	112	148	72	53	139	148	151	151	148	148
25	0	0	112	149	50	53	139	147	151	151	148	144
26	0	0	112	149	48	53	141	148	151	151	148	149
27	0	0	112	149	54	53	141	148	151	151	148	144
28	0	0	112	149	60	53	142	148	151	151	148	134
29	0	0	112	149	-----	81	142	148	150	152	148	142
30	0	0	112	149	-----	94	142	148	150	151	147	142
31	0	-----	103	149	-----	96	-----	125	-----	151	143	-----
TOTAL	1.8	0	1,975	4,388	3,102	2,854	3,798	4,518	4,491	4,685	4,627	4,379
MEAN	.058	0	63.7	142	111	92.1	127	146	150	151	149	146
MAX	1.8	0	112	149	149	129	142	149	151	152	152	149
MIN	0	0	0	105	32	52	96	125	147	149	143	134
AC-FT	3.6	0	3,920	8,700	6,150	5,660	7,530	8,960	8,910	9,290	9,180	8,690
CAL YEAR 2010	TOTAL	28,689.0	MEAN	78.6	MAX	150	MIN	0	AC-FT	56,900		
WTR YEAR 2011	TOTAL	38,818.8	MEAN	106	MAX	152	MIN	0	AC-FT	77,000		

EL DORADO IRRIGATION DISTRICT
SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CA.

A-12

USGS #: 11-4395.00

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2010 TO SEP 2011

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	144	138	256	169	162	1,060	1,150	1,280	2,440	263	62
2	69	99	144	242	148	171	1,410	1,320	1,110	2,030	240	59
3	83	94	188	210	143	225	1,430	1,620	1,030	2,080	221	64
4	105	90	190	177	137	188	1,260	1,870	1,040	2,160	172	63
5	98	86	194	143	145	210	1,420	2,220	1,440	2,090	139	61
6	100	82	331	136	173	260	1,370	2,550	2,100	2,100	125	59
7	83	105	254	129	191	360	1,260	2,690	1,670	2,160	115	64
8	75	188	234	126	190	284	1,020	2,590	1,870	2,090	103	67
9	68	138	672	116	168	302	863	1,910	2,240	1,960	92	58
10	63	140	838	102	151	305	766	1,530	2,520	1,740	88	57
11	63	134	691	130	140	349	767	1,670	2,610	1,510	85	71
12	66	123	456	123	136	361	822	1,990	2,620	1,250	85	85
13	69	127	358	115	136	346	846	2,470	2,810	1,120	87	87
14	65	136	502	175	137	662	723	2,670	3,110	1,040	89	72
15	60	248	487	164	136	787	692	2,260	3,410	984	86	56
16	63	211	312	204	149	1,880	828	1,700	3,310	919	97	58
17	63	162	292	316	161	1,040	1,220	1,450	3,040	880	95	58
18	65	141	929	316	325	803	1,670	1,340	2,940	851	80	57
19	64	130	1,910	277	299	693	1,710	1,230	3,040	826	71	59
20	62	140	1,120	239	262	639	1,720	1,310	3,030	800	79	57
21	62	150	660	225	236	609	1,700	1,640	3,320	703	86	58
22	61	165	545	242	193	555	1,460	1,820	3,320	649	84	58
23	68	164	461	258	172	535	1,220	1,850	3,250	620	80	58
24	1,940	152	399	213	179	508	1,180	1,840	2,940	614	76	58
25	1,230	153	366	205	205	491	1,170	1,890	2,720	571	80	59
26	388	152	346	200	222	478	1,120	1,580	2,550	491	79	62
27	416	152	310	194	209	455	1,140	1,500	2,550	410	79	57
28	322	154	278	197	185	454	1,300	1,420	2,540	308	78	57
29	261	139	350	196	-----	450	1,310	1,300	4,180	276	73	58
30	193	142	278	204	-----	519	1,160	1,180	3,070	273	72	57
31	167	-----	257	184	-----	772	-----	1,250	-----	278	71	-----
TOTAL	6,561	4,241	14,490	6,014	5,097	15,853	35,617	54,810	76,660	36,223	3,270	1,856
MEAN	212	141	467	194	182	511	1,187	1,768	2,555	1,168	105	61.9
MAX	1,940	248	1,910	316	325	1,880	1,720	2,690	4,180	2,440	263	87
MIN	60	82	138	102	136	162	692	1,150	1,030	273	71	56
AC-FT	13,010	8,410	28,740	11,930	10,110	31,440	70,650	108,700	152,100	71,850	6,490	3,680
CAL YEAR 2010 TOTAL		141,516	MEAN	388	MAX	3,230	MIN	25	AC-FT	280,700		
WTR YEAR 2011 TOTAL		260,692	MEAN	714	MAX	4,180	MIN	56	AC-FT	517,100		

EL DORADO IRRIGATION DISTRICT
A-18 EL DORADO IRRIGATION DISTRICT WEIR

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2010 TO SEP 2011

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	1.1	.99	1.5	8.9	9.8	11	11	12	16	16	16
2	.88	1.1	.99	1.4	8.8	9.9	11	13	12	16	16	16
3	.94	1.0	.99	4.2	8.8	10	11	15	12	16	16	16
4	.99	1.0	.99	5.9	8.8	10	13	17	12	16	16	16
5	.99	1.1	.98	8.4	8.7	10	14	18	12	16	16	16
6	.88	.93	.77	8.8	9.0	9.9	14	19	12	16	16	16
7	.88	.96	.77	8.8	8.8	10	14	19	12	16	16	16
8	.91	1.0	.79	8.8	8.8	10	14	19	12	16	16	16
9	.97	1.1	.84	9.0	9.0	10	14	18	12	16	16	16
10	.88	1.1	.86	8.8	8.8	10	14	16	13	16	16	16
11	.88	1.1	.77	8.8	9.0	10	12	16	14	16	16	17
12	.88	1.1	.77	8.8	9.0	10	11	16	14	16	16	16
13	.96	1.1	.77	8.8	8.8	10	11	16	16	16	16	16
14	.88	.99	.82	8.8	8.9	10	11	16	16	16	16	16
15	.86	.99	.80	8.8	8.9	9.8	11	16	16	16	16	16
16	.88	1.0	.88	8.8	8.9	9.8	11	16	16	16	16	16
17	.88	1.1	.88	8.9	8.9	9.5	11	16	16	16	16	16
18	.89	1.0	.80	8.9	9.8	8.5	11	14	16	16	16	16
19	.99	1.0	.74	8.9	6.9	11	11	12	16	16	16	16
20	.99	.96	.70	8.9	3.4	11	11	12	16	16	16	16
21	.98	.84	.72	8.9	3.4	11	11	12	16	16	16	16
22	.91	.64	.76	8.9	3.2	11	10	12	16	16	16	16
23	.98	.90	.76	8.8	3.3	11	8.9	13	16	16	16	17
24	.96	.91	.77	8.8	3.4	11	8.9	15	16	16	16	17
25	.88	.95	.77	8.9	3.4	11	8.9	15	16	16	16	16
26	.99	.93	.77	8.9	3.4	11	9.9	15	16	16	16	16
27	.98	.95	.77	8.9	3.4	10	11	14	16	16	16	16
28	.98	.99	.78	8.9	10	11	11	13	16	16	16	16
29	.99	.98	.91	8.9	-----	10	11	12	16	16	16	16
30	.99	.99	.66	8.9	-----	11	11	12	16	16	16	16
31	1.0	-----	1.1	8.9	-----	11	-----	12	-----	16	16	-----
TOTAL	33.75	29.81	25.67	251.7	204.4	318.2	342.6	460	437	496	496	483
MEAN	1.09	.99	.83	8.12	7.30	10.3	11.4	14.8	14.6	16.0	16.0	16.1
MAX	5.7	1.1	1.1	9.0	10	11	14	19	16	16	16	17
MIN	.86	.64	.66	1.4	3.2	8.5	8.9	11	12	16	16	16
AC-FT	67	59	51	499	405	631	680	912	867	984	984	958
CAL YEAR 2010	TOTAL	4,248.31	MEAN	11.6	MAX	27	MIN	.05	AC-FT	8,430		
WTR YEAR 2011	TOTAL	3,578.13	MEAN	9.80	MAX	19	MIN	.64	AC-FT	7,100		

EL DORADO IRRIGATION DISTRICT
A-1 Lake Aloha

USGS #: 11434900

DAILY MIDNIGHT CONTENTS IN ACRE-FEET WATER YEAR OCT 2010 TO SEP 2011

09/30/10

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2											5,180	
3												
4												
5												
6												
7												
8									0	5,180		
9												1,200
10												
11												
12								4,670				
13												
14												
15											4,800	
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												0
27												
28										4,770		
29												
30												
31												
MAX								4,670	0	5,180	5,180	1,200
MIN								4,670	0	4,770	4,800	0
CHANGE	*	*	*	*	*	*	*	*	*	*	*	*
CAL YEAR 2010			MEAN	158	MAX	5,350	MIN	12				
WTR YEAR 2011			MEAN	3,225	MAX	5,180	MIN	0				

* Incomplete Record

EL DORADO IRRIGATION DISTRICT
A-40 PYRAMID CREEK NEAR TWIN BRIDGES, CA.

USGS #: 11-4351.00

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2010 TO SEP 2011

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	23	22	25	22	19	52	39	87	189	59	82
2	3.2	21	23	25	21	20	75	53	80	221	66	80
3	5.5	20	26	23	20	22	65	74	72	242	76	79
4	11	19	24	22	20	20	52	86	68	238	69	78
5	22	18	24	22	21	19	58	112	85	204	63	77
6	21	17	29	22	22	21	51	140	107	211	58	76
7	13	23	26	22	23	22	42	138	93	250	56	74
8	9.8	35	31	22	22	21	33	111	111	306	53	73
9	7.9	29	78	21	20	21	28	65	127	292	52	72
10	6.9	33	121	21	19	20	27	54	160	229	50	72
11	6.4	29	67	21	19	22	31	70	174	204	50	72
12	5.9	27	44	21	19	22	34	135	171	192	51	74
13	5.7	26	35	23	19	21	32	284	188	189	50	70
14	5.5	36	39	25	19	27	28	257	227	184	50	66
15	5.3	57	39	25	19	29	27	198	236	170	60	62
16	5.0	37	29	33	21	37	40	148	214	162	107	58
17	5.3	27	31	45	28	28	66	134	191	164	107	54
18	5.7	24	42	36	34	24	102	128	206	164	107	51
19	5.3	22	56	29	33	24	86	127	219	171	105	46
20	5.1	27	48	26	27	25	71	144	203	146	103	40
21	5.0	32	34	26	24	25	51	175	258	109	103	30
22	4.8	34	29	27	21	22	41	182	322	106	100	21
23	21	36	26	26	19	22	36	166	318	106	99	16
24	113 E	37	25	24	19	22	35	163	250	108	99	14
25	223 E	31	24	24	22	26	33	151	207	102	99	12
26	51	25	25	24	28	23	32	124	194	96	97	11
27	33	26	25	24	22	22	36	109	228	90	96	9.8
28	27	28	24	24	20	21	45	106	270	85	96	9.0
29	24	24	31	24	-----	22	42	99	380	56	93	8.5
30	24	22	30	24	-----	27	36	93	172	54	88	8.0
31	25	-----	26	23	-----	39	-----	92	-----	53	85	-----
TOTAL	709.2	845	1,133	779	623	735	1,387	3,957	5,618	5,093	2,447	1,495.3
MEAN	22.9	28.2	36.5	25.1	22.3	23.7	46.2	128	187	164	78.9	49.8
MAX	223	57	121	45	34	39	102	284	380	306	107	82
MIN	2.9	17	22	21	19	19	27	39	68	53	50	8.0
AC-FT	1,410	1,680	2,250	1,550	1,240	1,460	2,750	7,850	11,140	10,100	4,850	2,970
CAL YEAR 2010	TOTAL	16,320.6	MEAN	44.7	MAX	430	MIN	2.9	AC-FT	32,370		
WTR YEAR 2011	TOTAL	24,821.5	MEAN	68.0	MAX	380	MIN	2.9	AC-FT	49,230		

EL DORADO IRRIGATION DISTRICT
A-5 CAPLES LAKE NEAR KIRKWOOD

USGS #: 11-4369.50

DAILY MIDNIGHT CONTENTS IN ACRE-FEET WATER YEAR OCT 2010 TO SEP 2011

09/30/10

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,700	18,600	18,900	18,400	17,700	17,500	14,600	12,500	15,100	21,200	22,400	21,100
2	17,700	18,500	18,900	18,300	17,600	17,500	14,600	12,500	15,100	21,600	22,400	21,000
3	17,700	18,500	18,900	18,300	17,600	17,500	14,600	12,500	15,100	21,800	22,400	20,800
4	17,700	18,500	18,900	18,200	17,600	17,400	14,500	12,600	15,100	21,900	22,400	20,700
5	17,700	18,500	19,000	18,200	17,600	17,300	14,500	12,700	15,200	22,000	22,400	20,600
6	17,700	18,500	19,000	18,200	17,600	17,300	14,400	13,300	15,300	22,300	22,400	20,400
7	17,700	18,600	19,000	18,200	17,500	17,300	14,400	13,600	15,400	22,500	22,400	20,300
8	17,700	18,600	19,100	18,100	17,500	17,100	14,300	13,700	15,600	22,500	22,400	20,200
9	17,600	18,600	19,100	18,100	17,500	17,000	14,000	13,800	15,800	22,400	22,400	20,100
10	17,600	18,600	19,100	18,100	17,500	16,900	14,000E	13,800	16,200	22,300	22,300	20,000
11	17,600	18,600	19,100	18,000	17,400	16,700	13,800E	13,900	16,600	22,200	22,300	19,900
12	17,600	18,600	19,100	18,000	17,400	16,600	13,500E	14,000	17,000	22,200	22,200	19,800
13	17,500	18,600	19,100	18,000	17,400	16,500	13,400E	14,200	17,500	22,300	22,100	19,800
14	17,500	18,600	19,200	17,900	17,400	16,400	13,300E	14,400	18,100	22,400	22,000	19,700
15	17,500	18,600	19,200	17,900	17,400	16,300	13,200E	14,600	18,700	22,400	22,000	19,600
16	17,500	18,600	19,100	17,900	17,400	16,300	13,100E	14,700	19,100	22,300	22,000	19,500
17	17,500	18,600	19,100	17,900	17,500	16,200	13,100E	14,700	19,400	22,300	22,000	19,500
18	17,500	18,600	19,200	17,900	17,600	16,100	13,000E	14,700	19,600	22,300	22,000	19,500
19	17,400	18,600	19,300	17,900	17,600	16,000	13,100E	14,600	19,900	22,400	22,000	19,500
20	17,400	18,700	19,300	17,900	17,600	15,900	13,100E	14,600	20,000	22,400	21,900	19,500
21	17,400	18,800	19,200	17,800	17,600	15,800	13,200E	14,700	20,100	22,400	21,900	19,500
22	17,400	18,800	19,100	17,800	17,500	15,700	13,100	14,700	20,400	22,300	21,800	19,400
23	17,400	18,900	19,000	17,800	17,500	15,600	13,000	14,800	20,600	22,400	21,800	19,400
24	18,200	18,900	18,800	17,800	17,500	15,600	13,000	14,900	20,700	22,400	21,700	19,400
25	18,400	18,900	18,700	17,800	17,600	15,400	12,900	15,000	20,700	22,300	21,700	19,400
26	18,500	18,900	18,600	17,700	17,600	15,300	12,800	15,000	20,700	22,300	21,600	19,400
27	18,500	18,900	18,500	17,700	17,500	15,200	12,700	15,000	20,800	22,300	21,500	19,400
28	18,500	18,900	18,500	17,700	17,500	15,100	12,700	15,100	21,200	22,400	21,500	19,300
29	18,500	18,900	18,500	17,700	-----	14,900	12,600	15,100	21,500	22,400	21,400	19,300
30	18,500	18,900	18,500	17,700	-----	14,800	12,500	15,100	21,200	22,400	21,300	19,200
31	18,600	-----	18,400	17,700	-----	14,700	-----	15,100	-----	22,400	21,200	-----
MAX	18,600	18,900	19,300	18,400	17,700	17,500	14,600	15,100	21,500	22,500	22,400	21,100
MIN	17,400	18,500	18,400	17,700	17,400	14,700	12,500	12,500	15,100	21,200	21,200	19,200
CHANGE		379	-513	-720	-188	-2,800	-2,170	2,540	6,130	1,210	-1,240	-2,020
CAL YEAR 2010			MEAN	16,550	MAX	22,400	MIN	10,800				
WTR YEAR 2011			MEAN	18,110	MAX	22,500	MIN	12,500				

EL DORADO IRRIGATION DISTRICT
A-6 CAPLES LAKE OUTLET

USGS #: 11436999

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2010 TO SEP 2011

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	9.3	11	39	22	22	75	75	65	292	54	59
2	17	11	11	39	22	22	73	76	65	149	54	67
3	17	11	11	39	22	23	72	76	65	202	44	73
4	17	11	11	30	22	37	72	76	65	248	22	73
5	12	11	11	21	22	54	72	76	65	248	9.8	73
6	6.6	11	11	21	22	54	72	76	66	249	9.8	72
7	6.6	11	11	21	22	54	72	76	65	280	9.8	68
8	6.4	11	11	21	22	65	72	77	66	300	9.8	58
9	6.4	11	11	21	22	76	72	76	64	300	18	55
10	11	11	13	30	22	76	72	76	63	298	31	57
11	16	11	15	39	22	76	72	77	63	246	46	60
12	16	11	15	30	22	75	72	77	63	168	59	60
13	11	11	23	22	22	75	72	78	64	128	70	55
14	6.9	11	32	21	22	75	72	79	64	129	74	44
15	6.9	11	38	21	22	75	72	79	102	140	55	49
16	6.9	11	43	21	22	75	72	79	135	149	28	29
17	6.9	11	43	21	22	74	72	79	170	149	22	11
18	6.9	11	43	21	22	74	72	79	193	134	14	11
19	6.9	11	43	22	22	74	72	78	194	120	22	11
20	6.9	11	43	22	22	74	70	79	296	120	35	11
21	6.9	11	60	22	22	74	76	79	348	120	40	11
22	6.9	11	77	22	22	74	76	79	348	117	40	11
23	7.0	11	76	22	22	74	76	79	350	113	40	8.7
24	7.1	11	76	22	22	74	76	79	347	113	44	6.7
25	7.1	11	76	22	22	74	76	79	346	113	49	6.7
26	7.1	11	76	22	22	74	76	79	346	113	54	6.7
27	7.1	11	59	22	22	74	76	72	260	84	56	6.7
28	7.1	11	40	22	22	74	76	65	194	54	56	21
29	7.1	11	40	22	-----	74	75	65	362	54	57	31
30	7.1	11	39	22	-----	75	75	65	429	54	59	48
31	7.1	-----	39	22	-----	76	-----	65	-----	54	59	-----
TOTAL	285.9	328.3	1,108	764	616	2,047	2,200	2,350	5,323	5,038	1,241.2	1,153.5
MEAN	9.22	10.9	35.7	24.6	22.0	66.0	73.3	75.8	177	163	40.0	38.5
MAX	17	11	77	39	22	76	76	79	429	300	74	73
MIN	6.4	9.3	11	21	22	22	70	65	63	54	9.8	6.7
AC-FT	567	651	2,200	1,520	1,220	4,060	4,360	4,660	10,560	9,990	2,460	2,290
CAL YEAR 2010	TOTAL	13,952.60	MEAN	38.2	MAX	337	MIN	5.3	AC-FT	27,670		
WTR YEAR 2011	TOTAL	22,454.90	MEAN	61.5	MAX	429	MIN	6.4	AC-FT	44,540		

EL DORADO IRRIGATION DISTRICT
A-8 SILVER LAKE NEAR KIRKWOOD

USGS #: 11-4359.00

DAILY MIDNIGHT CONTENTS IN ACRE-FEET WATER YEAR OCT 2010 TO SEP 2011

09/30/10

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,780	3,750	3,900	3,940	3,920	3,860	4,020	4,200	4,240	7,260	8,590	7,540
2	4,750	3,750	3,900	3,930	3,900	3,890	4,130	4,260	4,190	7,670	8,570	7,490
3	4,740	3,740	3,910	3,920	3,900	3,900	4,210	4,370	4,180	8,020	8,570	7,440
4	4,730	3,740	3,900	3,910	3,890	3,880	4,200	4,470	4,230	8,300	8,550	7,410
5	4,700	3,730	3,910	3,900	3,880	3,870	4,220	4,630	4,440	8,560	8,530	7,370
6	4,680	3,710	3,930	3,900	3,900	3,900	4,230	4,720	4,480	8,560	8,500	7,330
7	4,650	3,790	3,920	3,890	3,910	3,900	4,210	4,790	4,420	8,520	8,490	7,290
8	4,610	3,810	3,940	3,880	3,900	3,890	4,140	4,680	4,540	8,530	8,450	7,260
9	4,580	3,820	4,040	3,890	3,920	3,880	4,100	4,500	4,720	8,460	8,420	7,210
10	4,550	3,840	4,110	3,880	3,910	3,880	4,050	4,390	5,050	8,330	8,380	7,190
11	4,520	3,860	4,100	3,880	3,900	3,880	4,040	4,420	5,290	8,290	8,360	7,170
12	4,470	3,860	4,080	3,880	3,900	3,880	4,030	4,560	5,450	8,340	8,310	7,140
13	4,430	3,860	4,040	3,890	3,900	3,900	4,040	4,730	5,590	8,380	8,280	7,130
14	4,390	3,900	4,080	3,900	3,920	3,910	4,020	4,750	5,790	8,400	8,250	7,100
15	4,330	3,960	4,040	3,900	3,910	3,950	4,010	4,610	5,900	8,430	8,210	7,070
16	4,280	3,960	4,010	3,920	3,970	4,020	4,040	4,430	5,910	8,470	8,170	6,980
17	4,240	3,940	4,040	3,950	3,980	4,020	4,140	4,320	5,980	8,510	8,130	6,850
18	4,180	3,920	4,080	3,970	3,990	4,020	4,270	4,240	6,120	8,540	8,090	6,690
19	4,140	3,920	4,140	3,950	3,970	3,990	4,310	4,170	6,240	8,570	8,050	6,530
20	4,080	3,940	4,110	3,950	3,940	4,020	4,310	4,190	6,350	8,570	8,010	6,350
21	4,030	3,960	4,060	3,950	3,920	3,990	4,260	4,330	6,780	8,560	7,960	6,140
22	3,990	3,950	4,030	3,950	3,910	3,960	4,210	4,420	7,360	8,540	7,940	5,920
23	3,970	3,970	3,990	3,940	3,890	3,970	4,150	4,450	7,790	8,520	7,890	5,680
24	5,240	3,950	3,970	3,930	3,900	3,990	4,120	4,470	8,020	8,500	7,850	5,410
25	5,390	3,930	3,960	3,920	3,930	3,960	4,100	4,440	8,060	8,480	7,820	5,150
26	5,070	3,910	3,950	3,920	3,910	3,950	4,090	4,360	8,050	8,460	7,770	4,900
27	4,640	3,950	3,930	3,920	3,900	3,920	4,120	4,310	8,130	8,480	7,730	4,650
28	4,280	3,930	3,970	3,920	3,880	3,910	4,180	4,310	8,140	8,500	7,690	4,420
29	4,040	3,910	3,990	3,930	-----	3,910	4,220	4,250	7,870	8,540	7,650	4,210
30	3,900	3,900	3,950	3,950	-----	3,910	4,200	4,210	7,220	8,570	7,610	4,020
31	3,790	-----	3,940	3,930	-----	3,950	-----	4,240	-----	8,590	7,570	-----
MAX	5,390	3,970	4,140	3,970	3,990	4,020	4,310	4,790	8,140	8,590	8,590	7,540
MIN	3,790	3,710	3,900	3,880	3,880	3,860	4,010	4,170	4,180	7,260	7,570	4,020
CHANGE		111	36	-8.0	-48	72	246	37	2,980	1,370	-1,020	-3,550
CAL YEAR 2010			MEAN	4,213	MAX	8,630	MIN	633				
WTR YEAR 2011			MEAN	5,149	MAX	8,590	MIN	3,710				

EL DORADO IRRIGATION DISTRICT
A-9 SILVER LAKE OUTLET NEAR KIRKWOOD, CA.

USGS #: 11-4360.00

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2010 TO SEP 2011

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	29	17	27	20	23	33	91	107	231	8.7	5.0
2	12	6.6	15	25	18	23	55	102	99	98	8.6	5.0
3	12	6.5	17	23	16	23	89	127	87	121	7.4	5.0
4	12	6.5	16	20	15	18	98	152	87	144	5.6	5.0
5	12	5.7	17	18	14	15	101	183	125	169	5.6	4.9
6	12	4.8	22	18	15	15	106	228	173	250	5.7	5.0
7	12	4.9	21	18	17	19	105	250	157	260	5.6	4.9
8	12	5.0	21	18	18	16	88	263	160	228	5.8	4.9
9	12	5.1	33	18	18	14	70	207	206	224	5.3	4.9
10	12	6.6	51	16	18	13	54	156	202	213	4.9	4.9
11	12	9.4	65	13	17	13	46	146	218	156	4.9	5.0
12	14	9.4	60	13	16	13	43	167	249	115	4.8	5.0
13	17	10	51	13	16	13	44	211	272	108	4.9	4.9
14	17	12	49	15	17	17	43	255	297	106	4.8	4.9
15	19	22	52	16	17	18	39	239	333	87	4.7	4.9
16	21	26	42	17	22	36	39	180	348	72	4.7	31
17	21	25	37	22	27	42	56	142	298	76	4.7	56
18	21	22	47	27	31	40	103	122	260	77	4.7	68
19	21	19	64	28	32	40	122	96	271	77	4.7	74
20	21	23	73	26	26	40	133	85	281	80	4.7	85
21	21	27	59	24	23	37	125	108	238	78	4.7	103
22	21	27	47	24	19	30	107	144	173	77	4.7	115
23	21	30	38	23	17	27	89	157	186	76	4.7	123
24	23	28	31	22	17	30	76	160	220	75	4.7	124
25	45	24	27	21	21	30	64	165	252	64	4.7	129
26	165	21	27	20	23	26	58	147	253	39	4.7	131
27	203	21	24	20	23	22	58	134	254	18	4.7	125
28	175	23	23	20	23	19	77	129	279	9.4	4.6	119
29	132	20	34	20	-----	17	98	122	643	9.3	4.8	111
30	88	18	30	23	-----	17	96	104	529	9.1	5.0	99
31	63	-----	27	23	-----	22	-----	99	-----	8.8	5.0	-----
TOTAL	1,261	497.5	1,137	631	556	728	2,315	4,871	7,257	3,355.6	163.1	1,567.2
MEAN	40.7	16.6	36.7	20.4	19.9	23.5	77.2	157	242	108	5.26	52.2
MAX	203	30	73	28	32	42	133	263	643	260	8.7	131
MIN	12	4.8	15	13	14	13	33	85	87	8.8	4.6	4.9
AC-FT	2,500	987	2,260	1,250	1,100	1,440	4,590	9,660	14,390	6,660	324	3,110
CAL YEAR 2010	TOTAL	15,525.1	MEAN	42.5	MAX	377	MIN	4.4	AC-FT	30,790		
WTR YEAR 2011	TOTAL	24,339.4	MEAN	66.7	MAX	643	MIN	4.6	AC-FT	48,280		

EL DORADO IRRIGATION DISTRICT
A-24 OYSTER CREEK NEAR KIRKWOOD, CA

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2010 TO SEP 2011

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6E	4.3E	4.6							29E	22	16
2	5.3E	4.3E	4.8							28E	21	15
3	4.9E	4.3E	4.9							28E	21	15
4	4.6E	4.0E	4.9							28E	21	15
5	4.3E	4.0E	5.0							27E	21	15
6	4.3E	4.0E	5.2						11	27E	21	15
7	4.0E	4.0E	5.3						11	27E	21	14
8	4.0E	4.0E	5.4						11	26E	21	14
9	4.0E	4.0E	5.6						12	26E	21	14
10	3.7E	4.0E	5.6						13	25E	22	14
11	3.7E	4.0E	5.6						14	25E	21	14
12	3.7E	4.0E	5.6						16	24E	21	14
13	3.7E	3.7E	5.6						17	23E	20	14
14	3.7E	3.5E	5.8						17	24	20	14
15	3.7E	3.3E	5.6						15	23	19	13
16	3.7E	3.3E	5.7						15	23	19	13
17	3.7E	3.1E	6.1						15	23	19	13
18	3.7E	2.8E							16	23	19	13
19	3.7E	2.7							22	24	18	12
20	3.7E	2.8							24E	24	18	12
21	4.0E	3.0							26E	23	18	11
22	4.0E	3.3							28E	24	18	11
23	4.3E	3.5							30E	24	18	11
24	4.3E	4.3							31E	23	18	10
25	4.6E	4.3							31E	23	17	9.4
26	4.6E	4.5							30E	23	17	8.4
27	4.9E	4.6							30E	22	17	7.4
28	4.9E	4.9							29E	22	17	6.7
29	4.9E	4.8			-----				29E	22	16	6.2
30	4.6E	4.4			-----				29E	22	16	6.0
31	4.6E	-----			-----		-----		-----	22	16	-----
TOTAL	131.4	115.7	91.3						522	757	594	366.1
MEAN	4.24	3.86	5.37						20.9	24.4	19.2	12.2
MAX	5.6	4.9	6.1						31	29	22	16
MIN	3.7	2.7	4.6						11	22	16	6.0
AC-FT	261	229	181						1,040	1,500	1,180	726
CAL YEAR 2010	TOTAL*	1,778.90	MEAN	5.07	MAX	31	MIN	2.7	AC-FT	3,530		
WTR YEAR 2011	TOTAL*	2,577.50	MEAN	13.2	MAX	31	MIN	2.7	AC-FT	5,110		

* Incomplete Record

Permit 21112

End-of-the-Month Lake Level Operating Requirements Five-year Compliance Report 2007 – 2011 and Recreational Impact Annual Report for 2011

Introduction

Permit 21112 prescribes minimum and average end-of-the-month lake level operating requirements for Silver Lake, Caples Lake, and Lake Aloha for portions of the year. The purpose of this report is to describe the implementation of these lake level operating requirements during 2007 – 2011, and to report on any impacts of operations on recreational uses in 2011.¹

Permit 21112 Conditions

Conditions 8, 9, 10, and 13 of Permit 21112 state:

8. *To protect Lake Aloha's summer recreational uses, permittee shall not divert water released from the lake for consumptive use, excluding nondiscretionary releases required by the Federal Energy Regulatory Commission (FERC) license for Project 184 or the State Division of Safety of Dams, unless the following requirements are met. End-of-the-month lake levels must remain above historic minimum levels, and average end-of-the-month lake levels, as reviewed at five-year intervals, must remain at or above historic average levels, as shown in the following schedule:*

Lake Aloha
End-of-Month Lake Level Operational Requirements

MONTH	CRITICAL WATER YEAR E.O.M. STAGE (Gage height, feet)	DRY WATER YEAR E.O.M. STAGE (Gage height, feet)	BELOW NORMAL WATER YEAR E.O.M. STAGE (Gage height, feet)	ABOVE NORMAL WATER YEAR E.O.M. STAGE (Gage height, feet)	WET WATER YEAR E.O.M. STAGE (Gage height, feet)
June	Average: 18.3 Minimum: 16.2	Average: 19.6 Minimum: 18.1	Average: 19.5 Minimum: 18.2	Average: 19.5 Minimum: 17.2	Average: 18.1 Minimum: 14.3
July	Average: 11.0 Minimum: 5.0	Average: 15.2 Minimum: 10.1	Average: 17.1 Minimum: 15.3	Average: 18.8 Minimum: 16.6	Average: 19.2 Minimum: 14.6
August	Average: 6.6 Minimum: 5.0	Average: 7.6 Minimum: 5.0	Average: 9.9 Minimum: 5.2	Average: 12.2 Minimum: 7.3	Average: 14.2 Minimum: 8.4
September	Average: 6.0 Minimum: 5.0	Average: 5.7 Minimum: 5.0	Average: 6.8 Minimum: 5.0	Average: 7.6 Minimum: 5.0	Average: 8.1 Minimum: 5.0

¹ The first five-year compliance report was submitted to the State Water Resources Control Board by the permittee on March 10, 2008, which included lake level data for six years (2002 – 2007); 2007 data is also included in the 2007 - 2011 report because 2007 is the first year in the second five-year reporting interval.

9. To protect Caples Lake's summer recreational uses, permittee shall not divert water released from the lake for consumptive use, excluding nondiscretionary releases required by the FERC license for Project 184 or the State Division of Safety of Dams, unless the following requirements are met. End-of-the-month lake levels must remain above historic minimum levels, and average end-of-the-month lake levels, as reviewed at five-year intervals, must remain at or above historic average levels, as shown in the following schedule:

Caples Lake
End-of-the-Month Lake Level Operational Requirements

<i>MONTH</i>	<i>CRITICAL WATER YEAR E.O.M. STAGE (Gage height, feet)</i>	<i>DRY WATER YEAR E.O.M. STAGE (Gage height, feet)</i>	<i>BELOW NORMAL WATER YEAR E.O.M. STAGE (Gage height, feet)</i>	<i>ABOVE NORMAL WATER YEAR E.O.M. STAGE (Gage height, feet)</i>	<i>WET WATER YEAR E.O.M. STAGE (Gage height, feet)</i>
<i>June</i>	<i>Average: 54.1 Minimum: 45.6</i>	<i>Average: 58.9 Minimum: 53.3</i>	<i>Average: 61.5 Minimum: 58.5</i>	<i>Average: 61.8 Minimum: 61.5</i>	<i>Average: 61.4 Minimum: 56.1</i>
<i>July</i>	<i>Average: 52.9 Minimum: 44.5</i>	<i>Average: 57.8 Minimum: 52.1</i>	<i>Average: 60.9 Minimum: 58.9</i>	<i>Average: 61.6 Minimum: 60.4</i>	<i>Average: 61.9 Minimum: 61.3</i>
<i>August</i>	<i>Average: 46.0 Minimum: 33.0</i>	<i>Average: 50.8 Minimum: 44.9</i>	<i>Average: 54.2 Minimum: 49.3</i>	<i>Average: 57.5 Minimum: 51.1</i>	<i>Average: 59.5 Minimum: 56.2</i>
<i>September</i>	<i>Average: 43.0 Minimum: 30.5</i>	<i>Average: 45.4 Minimum: 39.0</i>	<i>Average: 48.2 Minimum: 42.9</i>	<i>Average: 54.0 Minimum: 44.7</i>	<i>Average: 56.8 Minimum: 51.5</i>
<i>October</i>	<i>Average: 41.3 Minimum: 30.1</i>	<i>Average: 41.5 Minimum: 38.0</i>	<i>Average: 41.9 Minimum: 35.6</i>	<i>Average: 50.5 Minimum: 41.0</i>	<i>Average: 52.9 Minimum: 44.3</i>

10. To protect Silver Lake's summer recreational uses, permittee shall not release water from the lake for consumptive use, power production, or other purposes prior to Labor Day each year, excluding nondiscretionary releases required by the FERC license for Project 184 or the State Division of Safety of Dams. In addition, permittee shall not divert water released from the lake for consumptive use, excluding nondiscretionary releases required by the FERC license for Project 184 or the State Division of Safety of Dams, unless the following requirements are met. End-of-the-month lake levels must remain above historic minimum levels, and average end-of-the-month lake levels, as reviewed at five-year intervals, must remain at or above historic average levels, as shown in the following schedule:

Silver Lake
End-of-the-Month Lake Level Operational Requirements

MONTH	CRITICAL WATER YEAR E.O.M. STAGE (Gage height, feet)	DRY WATER YEAR E.O.M. STAGE (Gage height, feet)	BELOW NORMAL WATER YEAR E.O.M. STAG (Gage height, feet)	ABOVE NORMAL WATER YEAR E.O.M. STAGE (Gage height, feet)	WET WATER YEAR E.O.M. STAGE (Gage height, feet)
September	Average: 11.3 Minimum: 6.3	Average: 9.6 Minimum: 4.6	Average: 10.4 Minimum: 6.9	Average: 11.3 Minimum: 6.0	Average: 12.0 Minimum: 7.8
October	Average: 7.4 Minimum: 3.0	Average: 5.8 Minimum: 1.3	Average: 5.1 Minimum: 2.3	Average: 5.6 Minimum: 0.8	Average: 6.8 Minimum: 0.7

13. Once every five years, beginning five years from the date of this permit, permittee shall prepare and submit to the SWRCB a compliance report that demonstrates compliance with conditions 8, 9, and 10. In the years when the report is required, it shall be submitted with the annual Progress Report by Permittee.

Permittee shall also include with the annual Progress Report by Permittee an annual report on lake level impacts to recreational uses at Lake Aloha, Caples Lake, and Silver Lake. The report shall include a qualitative analysis of the recreational impacts associated with the end-of-the-month lake levels for the preceding year. The report shall address, at a minimum, whether the end-of-the-month lake levels affected the following: the usability of boat ramps and docks; swimming access, beaches and angler locations; campgrounds, picnic areas, recreational residences, organized camps, resorts, and marinas; and aesthetic values.

Permittee also shall make an annual Operating Plan available on EID's web-site and at EID's offices, consistent with EID's Lake Level Operational Commitment, as specified in the 1999 Final EIR for the Acquisition, Permanent Repair, and Operation of the El Dorado Hydroelectric Project and Acquisition of 17,000 Acre-Feet per Year of New Consumptive Water (1999 EIR).

Water Year Types

Average and minimum lake level operating requirements prescribed in Permit 21112 for Silver Lake, Caples Lake, and Lake Aloha vary based on water year types.

Table 1 describes the water year types, as defined by the Project No. 184 license, for water years 2007 – 2011. The full range of water year types (i.e. Critically Dry to Wet) were experienced during this time period with all water year types, except BN.

Table 1. Water Year Types for Project No. 184; Water Years 2007 – 2011

Water Year	April through July Forecast of Unimpaired Inflow to Folsom Reservoir	Final Water Year Designation
2007	43 %	CRITICALLY DRY
2008	61 %	DRY
2009	74 %	DRY
2010	110 %	ABOVE NORMAL
2011	172 %	WET

End-of-the-Month Lake Level Implementation and Recreational Impact Report

The following two sections describes the implementation of end-of-the-month lake level operating requirements prescribed by Permit 21112 for Silver Lake, Caples Lake, and Lake Aloha during 2007 – 2011, and assess any impacts of end-of-month lake levels on recreational uses in 2011. Most end-of-the-month lake level operating requirements were achieved during this period with a few exceptions, which are discussed below.

During 2007 – 2011, the permittee operated Silver Lake, Caples Lake, and Lake Aloha in accordance with the Federal Energy Regulatory Commission (FERC) Order Issuing New License for the El Dorado Hydroelectric Project (Project No. 184), issued on October 18, 2006. The lake levels required by the FERC Project No. 184 license in most cases equal or exceed the minimum and average end-of the-month lake levels prescribed in Permit 21112.

Silver Lake, Caples Lake, and Lake Aloha each have lake level gages to measure the stage and/or storage of each reservoir which are approved and certified by the United States Geological Survey. Data for Caples and Silver lakes are recorded continuously. The daily storage record for Lake Aloha is fragmentary due to physical and regulatory constraints which are described below.

Due to the resolution of the gaging equipment and physical variations such as wave action, the accuracy range for the gage data for Silver Lake, Caples Lake, and Lake Aloha is ± 0.3 feet. Permittee considers readings that vary from the requirement by no

more than this accuracy range to be compliant with the end-of-the-month operational requirement.

Attachments 7A and 7B provide gage data (2007 – 2011) for each reservoir for months when Permit 21112 lake level operational requirements are specified. Attachment 7A is a record of the end-of-the-month lake levels compared to the minimum gage heights prescribed in the End-of-the-Month Lake Level Requirements in Conditions 8, 9, and 10 of Permit 21112. Attachment 7B is a record of the end-of-the-month lake levels compared to the historical average gage heights prescribed in the End-of-the-Month Lake Level Requirements in Conditions 8, 9, and 10 of Permit 21112.

End-of-the-Month Minimum Lake Levels

Attachment 7A provides a record of the end-of-the-month lake levels for 2007 – 2011 for comparison to the minimum gage heights prescribed in the End-of-the-Month Lake Level Requirements in Conditions 8, 9, and 10 of Permit 21112. A discussion for each reservoir is provided below.

Silver Lake

Permit 21112 end-of-the-month minimum lake levels for Silver Lake were met in all months during the 2007 - 2011 reporting period.

Permittee is aware of no adverse effects on recreational uses or aesthetic values related to end-of-the-month minimum lake levels in 2011. Operations in 2011 included short-term repairs to the upstream face of Silver Lake dam, which precluded Permittee from achieving higher target end-of-the-month lake levels at Silver Lake included in an agreement with the League to Save Sierra Lakes (the League). Prior to the operations to allow the repairs, the League complained of potential recreational impacts. However, no complaints or impacts were received or documented when the operations occurred.

Caples Lake

Permit 21112 end-of-the-month minimum lake levels for Caples Lake were met in all months during the 2007 - 2011 reporting period with the exception of July - October 2008 due to extraordinary circumstances. The circumstances, a nearly complete reservoir drawdown needed to complete emergency repair of the outlet works at Caples Lake Main Dam, were discussed in the March 10, 2009 Annual Operations Report for Water Year 2008. At the time of the previous filing in March 2009, it was uncertain to what extent the reservoir storage would be recovered in 2009. Permittee closely coordinated operations of the reservoir with regulatory agencies and interested parties to help facilitate reservoir refill. This effort was successful and Permit 21112 lake level operational requirements were achieved again beginning in June 2009.

In 2009, permittee and the United States Forest Service completed a shared project, required by the FERC Project No. 184 license, to construct a new public boat launch facility at Caples Lake. Construction of the boat ramp portion of the project was

completed in 2008 during the reservoir drawdown. Construction of Highway 88 safety improvements, the facility access road, parking area, and ancillary facilities was completed in 2009. The new boat launch opened in 2010. The new boat launch is accessible at much lower lake levels than boat launching facilities that existed at Caples Lake at the time Permit 21112's lake-level requirements were established.

Beginning in 2009, permittee funded and implemented a California Department of Fish and Game-approved fish restocking plan for Caples Lake. The stocking program has been extraordinarily successful to date and will continue for approximately a decade to ensure full restoration or enhancement of the pre-existing trophy trout fishery at Caples Lake.

Permittee is aware of no adverse effects of its operations on recreational uses or aesthetic values at Caples Lake during 2011. As stated above, the new boat launch facility and the fish stocking program have significantly enhanced recreational uses at Caples Lake, including uses at lower lake levels than were previously possible.

Lake Aloha

Permit 21112 end-of-the-month minimum lake levels for Lake Aloha were met in all months during the 2007 - 2011 reporting period.

Permittee is aware of no adverse effects of its operations on recreational use or aesthetic values at Lake Aloha during 2011.

Historical Average End-of-the-Month Lake Levels

Attachment 7B is a record of the end-of-month lake levels compared to the historical average gage heights stipulated in the End-of-the-Month Lake Level Requirements in Conditions 8, 9, and 10 of Permit 21112. Four of the five water year types were experienced during the reporting period 2007 - 2011. The "dry" water year occurred twice (2008 and 2009) and those data were averaged and reported as such. A discussion for each reservoir is provided below.

Silver Lake

Permit 21112 average end-of-the-month lake levels for Silver Lake were met in all months during the 2007 - 2011 reporting period.

Permittee is aware of no adverse effects on recreational uses or aesthetic values related to end-of-month minimum lake levels in 2011. Operations in 2011 included short-term repairs to the upstream face of Silver Lake dam, which precluded Permittee from achieving higher target end-of-month lake levels at Silver Lake included in an agreement with the League to Save Sierra Lakes (the League). Prior to the operations to allow the repairs, the League complained of potential recreational impacts. However, no complaints or impacts were received or documented when the operations occurred.

Caples Lake

Permit 21112 end-of-the-month average lake levels for Caples Lake were met in all months during the 2007 - 2011 reporting period with the exceptions of June - October 2008 (as discussed above) and June 2011.

The end-of-the-month average lake level was not achieved in June 2011 because the permittee found it necessary for purposes of dam safety to maintain freeboard and increase reservoir releases from the Caples Lake Main Dam to manage runoff in this unusually wet year, and also to initiate releases from the spillway to manage inflow in response to a significant June 28, 2011, rain-on-snow storm event.

In July 2011, the gage height reading at Caples Lake was within the established accuracy range of the gage and therefore is considered to be compliant with the end-of-the-month target.

Permittee is aware of no adverse effects of its operations on recreational uses or aesthetic values at Caples Lake during 2011. As stated above, the new boat launch facility and the fish stocking program have significantly enhanced recreational uses at Caples Lake, including uses at lower lake levels than were previously possible.

Lake Aloha

The data record for Lake Aloha remains fragmentary due to physical and regulatory constraints (described below); therefore, end-of-the-month lake levels for Lake Aloha in Attachment 7B were estimated using linear regression.

Snow accumulations and the location of this high elevation Sierran reservoir make access to the dam and gaging equipment extremely difficult during much of the year and challenging at best during the non-winter months. The only ways to access the lake are by hiking (about 8 miles roundtrip, with as much as 2,000 feet elevation gain, depending upon route and conditions), skiing (12 miles roundtrip), or helicopter. Because the lake is located in a designated Wilderness Area, however, the FERC Project No. 184 license limits helicopter access to one flight per year. From 2007 – 2011, permittee accessed the lake an average of 9 times per year to confirm readings of the lake level gage and make any necessary adjustments to releases.

There were six occurrences in which end-of-the-month lake levels at Lake Aloha were lower than the historical average end-of-the-month lake level. These events are summarized in Table 2 and discussed in the subsequent paragraphs.

Table 2. Occurrences when end-of-the-month lake levels at Lake Aloha were lower than historical average 2007 – 2011

Date	E.O.M. lake level (ft)	E.O.M. average gage height for designated water year type (ft)	Difference (feet)
Aug 2007	5.0	6.6 (CD)	-1.1
Sept 2007	5.0	6.0 (CD)	-1.0
July 2010	17.2	18.8 (AN)	-1.6
Aug 2010	9.7	12.2 (AN)	-2.5
Sept 2010	5.0	7.6 (AN)	-2.6
Sept 2011	5.0	8.1 (Wet)	-3.1

Five of the six instances when end-of-the-month lake levels were below historical average lake levels occurred in August or September. Review of this data has highlighted that end-of-the-month minimum lake levels alone have been used to inform reservoir operations during this timeframe. Permittee acknowledges that Permit 21112 requires average lake levels in addition to minimum lake levels be met. Permittee is reviewing operational procedures and will institute measures to correct this problem in the future.

However, the FERC Project No. 184 license issued in October 2006 now requires the licensee “to attempt to prevent water in the reservoir from spilling . . . during spring runoff and while the reservoir is filling” as a protection for the Mountain Yellow-Legged Frog, a candidate endangered species. This requirement represents a significant change from the historical operations that produced these averages. In historical operations Lake Aloha was allowed to spill passively -- which spill often extended well into the summer months, particularly in Above Normal and Wet years. Therefore, it is unknown whether operational measures can be instituted to meet the minimum end-of-month lake level requirements in August and September, particularly in Above Normal and Wet years, while still complying with the FERC Project No. 184 license.

The remaining event when the end-of-the-month lake level was below historical average lake levels occurred in July 2010. Permittee has reviewed the operational plan prepared for 2010 and has identified the reason for this error. An initial operating plan was prepared based on a Below Normal water year type; however, it was necessary to revise the operating plan when the final water year type changed from Below Normal to Above Normal. The appropriate changes were made to the revised plan in all months except July and August for Lake Aloha. This resulted in end-of-the-month average lake levels operating requirements for a Below Normal year being used in the operating plan rather than the operating requirements for an Above Normal year. Permittee will institute additional review and quality assurance measures to minimize the potential for this error to occur in the future.

On three occasions (June 2007, June 2008/2009, and July 2009) gage height readings at Lake Aloha were within the established accuracy range of the gage and therefore are considered to be compliant with the end-of-the-month target.

Permittee is aware of no adverse affects on recreational uses or aesthetic values at Lake Aloha related to end-of-the-month average lake levels during 2011.

Recommendations

Permittee is currently evaluating opportunities to revise lake level targets specified by the FERC Project No. 184 license based on operational experience gained during the first five years of license implementation. One opportunity that may be explored is modification of Permit 21112 lake level operational requirements to make these requirements consistent with lake level targets identified in the FERC Project No. 184 license. In most cases, the lake levels required by the FERC Project No. 184 license equal or exceed the current minimum and average end-of the-month lake levels prescribed in Permit 21112. The intent of any modifications would be related to improving consistency between the various regulatory requirements and streamlining future reporting requirements. If a proposal is developed as a result of this evaluation, the permittee will file a petition for SWRCB consideration as needed.

Attachment 7A

Caples End-of-the-Month Target Lake Level Operational Requirements					
Minimum Gage Height (feet)					
WY Type	June	July	Aug	Sep	Oct
CD	45.6	44.5	33	30.5	30.1
Dry	53.3	52.1	44.9	39	38
BN	58.5	58.9	49.3	42.9	35.6
AN	61.5	60.4	51.1	44.7	41
Wet	56.1	61.3	56.2	51.5	44.3

Caples End-of -the-Month Gage Height (feet)						
WY	WY Type	June	July	Aug	Sep	Oct
2007	CD	58.3	55.3	51.7	48.3	47.3
2008	Dry	56.8	51.0	32.0	13.1	12.2
2009	Dry	61.1	59.3	53.9	48.2	47.8
2010	AN	61.8	61.3	59.0	54.3	53.7
2011	Wet	60.2	62.1	60.2	56.8	56.3

Silver End-of-the-Month Target Lake Level Operational Requirements		
Minimum Gage Height (feet)		
WY Type	Sep	Oct
CD	6.3	3
Dry	4.6	1.3
BN	6.9	2.3
AN	6	0.8
Wet	7.8	0.7

Silver End-of-the-Month Gage Height (feet)			
WY	WY Type	Sep	Oct
2007	CD	13.3	11.9
2008	Dry	12.5	10.6
2009	Dry	12.1	11.9
2010	AN	14.6	12.1
2011	Wet	12.7	7.7

Aloha End-of -the-Month Target Lake Level Operational Requirements				
Minimum Gage Height (feet)				
WY Type	June	July	Aug	Sep
CD	16.2	5	5	5
Dry	18.1	10.1	5	5
BN	18.2	15.3	5.2	5
AN	17.2	16.6	7.3	5
Wet	14.3	14.6	8.4	5

Aloha End-of-the-Month Gage Height (feet)					
WY	WY Type	June	July	Aug	Sep
2007	CD	18.0	10.8	5.0	5.0
2008	Dry	19.2	15.0	13.9	12.8
2009	Dry	19.5	15.6	9.7	5.3
2010	AN	20.0	17.2	9.7	5.0
2011	Wet	20.0	19.3	13.0	5.0

Note: Due to the tolerance of the gages and physical variations, such as wave action, the accuracy range for the gage reading is +/- 0.3 foot.

Key:

represent readings within the accuracy range of the gage

represent occurrences when the E.O.M. operational requirements were not achieved

Attachment 7B

Caples End-of-the-Month Target Lake Level Operational Requirements					
Average Gage Height (feet)					
WY Type	June	July	Aug	Sep	Oct
CD	54.1	52.9	46	43	41.3
Dry	58.9	57.8	50.8	45.4	41.5
BN	61.5	60.9	54.2	48.2	41.9
AN	61.8	61.6	57.5	54	50.5
Wet	61.4	61.9	59.5	56.8	52.9

Caples End-of -the-Month Gage Height (feet)						
WY	WY Type	June	July	Aug	Sep	Oct
2007	CD	58.3	55.3	51.7	48.3	47.3
2008, 2009	Dry	59.0	55.2	43.0	30.7	30.0
2010	AN	61.8	61.3	59.0	54.3	53.7
2011	Wet	60.2	62.1	60.2	56.8	56.3

Silver End-of-the-Month Target Lake Level		
Average Gage Height (feet)		
WY Type	Sep	Oct
CD	11.3	7.4
Dry	9.6	5.8
BN	10.4	5.1
AN	11.3	5.6
Wet	12	6.8

Silver End-of-the-Month Gage Height (feet)			
WY	WY Type	Sep	Oct
2007	CD	13.3	11.9
2008	Dry	12.5	10.6
2009	Dry	12.1	11.9
2010	AN	14.6	12.1
2011	Wet	12.7	7.7

Aloha End-of -the-Month Target Lake Level Operational Requirements				
Average Gage Height (feet)				
WY Type	June	July	Aug	Sep
CD	18.3	11	6.6	6
Dry	19.6	15.2	7.6	5.7
BN	19.5	17.1	9.9	6.8
AN	19.5	18.8	12.2	7.6
Wet	18.1	19.2	14.2	8.1

Aloha End-of-the-Month Gage Height (feet)					
WY	WY Type	June	July	Aug	Sep
2007	CD	18.0	10.8	5.0	5.0
2008, 2009	Dry	19.4	15.3	11.8	9.0
2010	AN	20.0	17.2	9.7	5.0
2011	Wet	18.7	19.9	14.9	5.0

Note: Due to the tolerance of the gages and physical variations, such as wave action, the accuracy range for the gage reading is +/- 0.3 foot.

Key:

###.# represent readings within the accuracy range of the gage

###.# represent occurrences when the E.O.M. operational requirements were not achieved