EXHIBIT 1

SUMMARY OF SWP AND CVP SOUTH DELTA EXPORT PUMPING FOR FEBRUARY 1 – 15, 2009

Prepared by:

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FOR THE JANUARY 17, 2009,
STATE WATER RESOURCES CONTROL BOARD
PUBLIC HEARING REGARDING
A PETITION FOR TEMPORARY URGENCY CHANGE
FILED BY THE DEPARTMENT OF WATER RESOURCES (DWR)
AND THE U.S. BUREAU OF RECLAMATION (USBR)
REGARDING TEMPORARY RELAXATION OF
THE FEBRUARY DELTA OUTFLOW
AND THE SAN JOAQUIN RIVER FLOW OBJECTIVES
IN RESPONSE TO CURRENT DRY CONDITIONS

1. Data on federal and state pumping at the south Delta export facilities in February 2009 (through February 15) was compiled by the Central Valley Project Operations office for the Delta operations water accounting. It is available on the web at: http://www.usbr.gov/mp/cvo/vungvari/deltaop.pdf.

2. The California Department of Water Resources Operations Control Office compiled information through February 12 for Delta hydrology (hydrologic conditions summary) and water quality (water quality summary) on the web at http://wwwoco.water.ca.gov/indexo.html. Data on Delta operations for February 13 (Delta operations summary) is also available at that web site. The information includes the calculated Net Delta Outflow index, Delta precipitation, Delta inflow from the Sacramento and San Joaquin River, and EC measurements at Collinsville and Chipps Island.

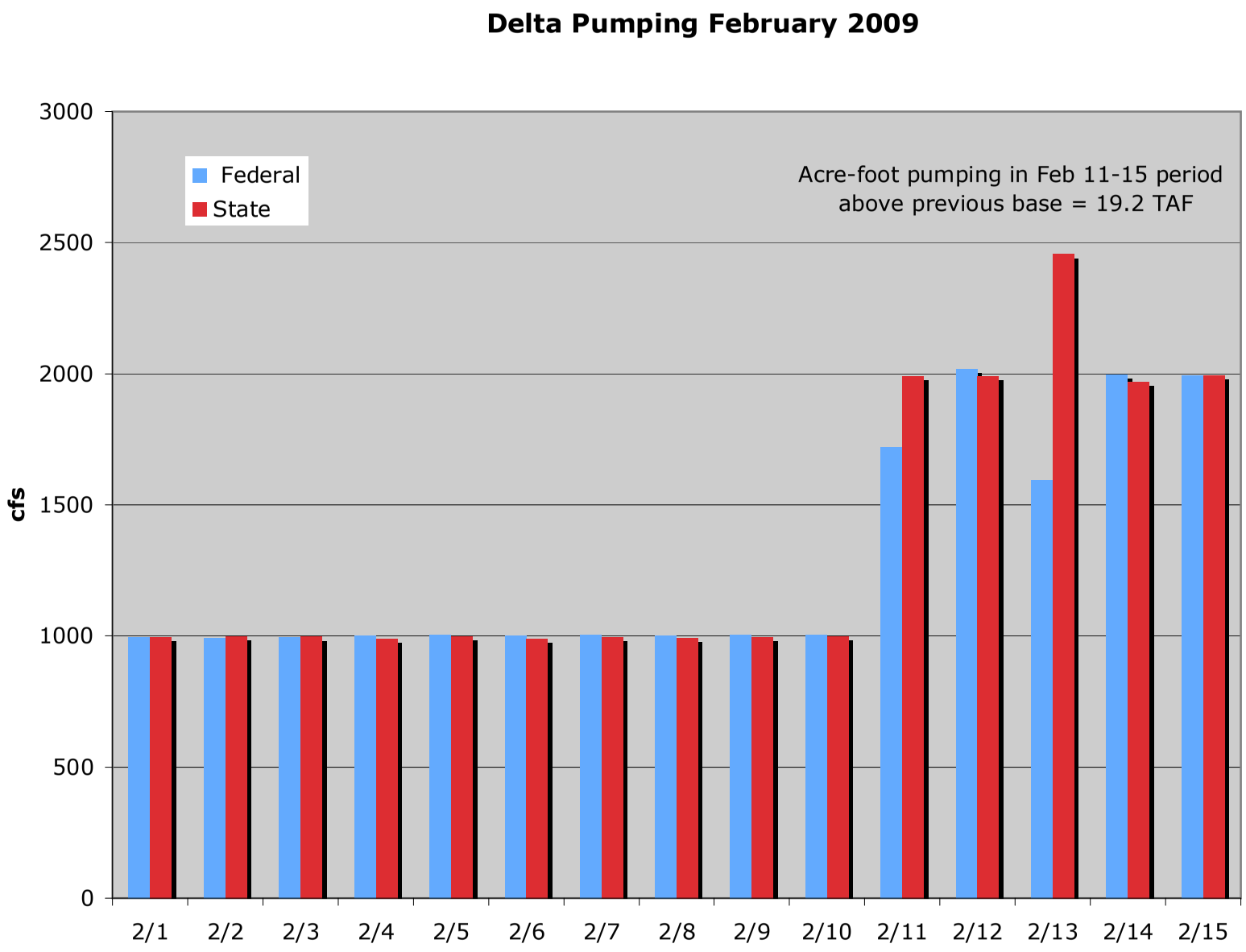
3. From February 1 to February 10, South Delta pumping by the Federal and State projects totaled about 2000 cfs (1000 cfs for each project) or nearly 4000 ac-ft per day. Beginning on February 11, pumping by the two projects increased with State pumping doubling on the first day to about 2000 cfs and the Federal pumping doubling by February 12 to about 2000 cfs; the total acre-foot pumping doubled to about 8000 ac-ft per day. Pumping increased as the Net Delta Outflow Index (NDOI) slowly increased in the previous days, in part due to Delta precipitation and minor increases in Delta inflow (see hydrologic conditions summary and water

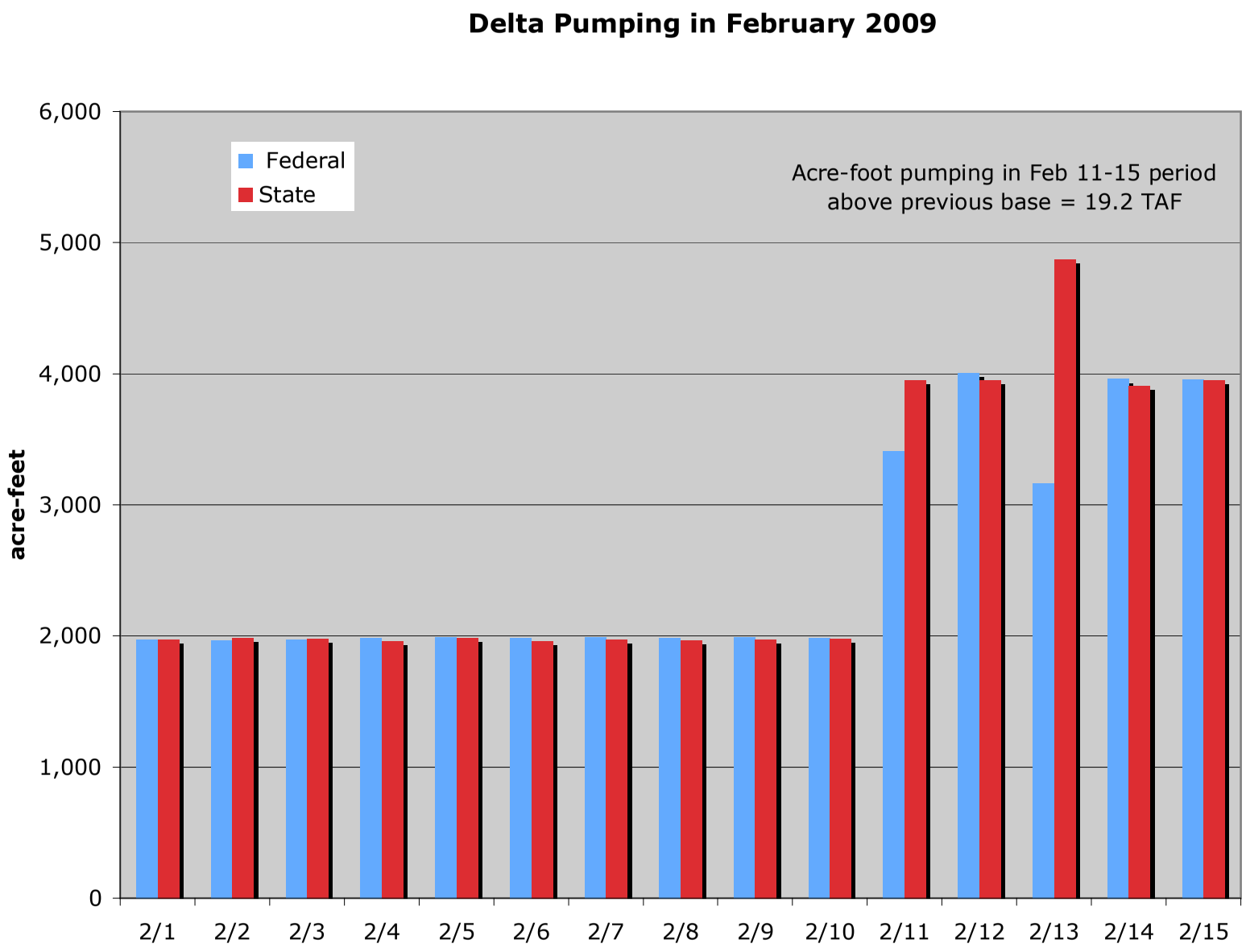
quality summary).

4. The total increase in pumping in the February 11-15 period over the base pumping on February 10 totaled about 19.3 thousand ac-ft (TAF). If the pumping levels on February 15 were maintained on February 16, then the total increase in pumping through February 16 would be about 23.2 TAF.

5.Absent the 2000 cfs increase in Delta pumping in the Feb 11-15 period, the net Delta outflow index would have been higher, possibly exceeding the 11,400 cfs level that meet the Chipps Island Delta outflow objective. The current storm sequence is causing the inflow to the Delta to increase on February 16, which may allow the NDOI to exceed the 11,400 cfs level, depending on what the level of Federal and State pumping is.

6. The current storm sequence is producing significant increases in runoff from the Upper Sacramento River watershed. This runoff will eventually reach the Delta and cause the Sacramento River at Freeport to exceed 20 TAF for several days.


Delta Pumping February 2009
Federal
State
Acre-foot pumping in Feb 11-15 period
above previous base = 19.2 TAF
cfs
3000
2500
2000
1500
1000
500
0
2/1
2/2
2/3
2/4
2/5
2/6
2/7
2/8
2/9
2/10
2/11
2/12
2/13
2/14
2/15


Delta Pumping in February 2009
Federal
State
Acre-foot pumping in Feb 11-15 period
above previous base = 19.2 TAF
acre-feet
6,000
5,000
4,000
3,000
2,000
1,000
0
2/1
2/2
2/3
2/4
2/5
2/6
2/7
2/8
2/9
2/10
2/11
2/12
2/13
2/14
2/15

Delta Hydrology

	Sac River at Freeport	Yolo Bypass	East Side Streams	SJR @ Vernalis	Stockton precip	State pumps	Fed pumps	CCWD	North Bay Aqdt	
2/1/2009	10,021	19	345	1,230	0	996	995	60	44	0
2/2/2009	9,522	20	346	1,195	0	998	991	63	57	0
2/3/2009	8,905	20	328	1,185	0	996	995	70	22	0
2/4/2009	8,931	20	328	1,193	0	989	1,001	76	53	0
2/5/2009	9,136	22	311	1,203	0.16	999	1,003	73	32	0
2/6/2009	9,224	26	325	1,229	0.32	990	1,001	69	57	0
2/7/2009	9,073	31	333	1,258	0	994	1,003	64	44	0
2/8/2009	8,480	29	332	1,254	0.08	991	1,001	65	40	0
2/9/2009	8,913	28	386	1,280	0	994	1,003	74	42	0
2/10/2009	9,486	27	383	1,318	0.12	998	1,002	52	47	0
2/11/2009	9,631	27	363	1,359	0.24	1,990	1,719	55	50	0
2/12/2009	10,218	29	410	1,413	0.04	1,990	2,018	74	48	0
2/13/2009										
2/14/2009										
2/15/2009										

Delta Water Quality

			Net Delta Outflow Index (cfs)					Chipps mdEC	Island 14dm	Collinsville mdEC	14dm
2/1/2009	5.1	3.19	8,752	22	14.81	8.15	7.28	6.76	10.18	4.26	
2/2/2009	5.18	3.11	8,606	20.93	14.57	7.85	7.22	6.7	9.93	3.86	
2/3/2009	5.58	3.48	8,100	23.01	15.89	7.54	7.94	7.44	9.64	4.41	
2/4/2009	6.11	3.99	7,418	24.71	18.1	7.3	9.56	9.14	9.37	5.75	
2/5/2009	6.48	4.26	7,465	26.34	18.89	8	10.76	10.41	9.18	6.54	
2/6/2009	6.68	4.37	8,417	26.31	18.49	9.32	10.3	9.92	8.97	6.11	
2/7/2009	6.61	4.27	10,371	25.49	18.06	10.61	9.77	9.35	8.71	6.33	
2/8/2009	6.63	4.37	10,267	25.26	18.7	11.95	10.32	9.93	8.49	6.12	
2/9/2009	6.34	4.28	10,276	23.99	17.4	13.19	9.85	9.44	8.39	5.87	
2/10/2009	5.65	3.72	10,854	22.22	15.3	14.28	7.9	7.4	8.27	4.15	
2/11/2009	5.47	3.73	9,516	21.8	14.67	15.33	7.08	6.55	8.18	3.5	
2/12/2009	6.3	NC	10,235	21.03	13.53	16.3	6.32	5.78	8.07	3.28	
			9,400								

Freeport from CDEC
2/11/2009 9391
2/12/2009 9978
2/13/2009 10015
2/14/2009 11150
2/15/2009 12684
2/16/2009 --

PRELIMINARY DATA
SUBJECT TO REVISION WITHOUT NOTICE
EXECUTIVE OPERATIONS SUMMARY Data
February 13, 2009
This summary can also be found at:
http://wwwoco.water.ca.gov/cmplmon/reports/deltaops.pdf
SCHEDULED EXPORTS FOR TODAY
Clifton Court Inflow = 2,500 cfs
Jones Pumping Plant = 1,900 cfs
State Water Project Informational Data can be found at:
http://wwwoco.water.ca.gov/indexo.html
ESTIMATED DELTA HYDROLOGY
Total Delta Inflow ~ 12,100 cfs
Sac River = 9,978 cfs
San Joaquin River = 1,400 cfs
Data for previous 30-days is available at:
http://wwwoco.water.ca.gov/cmplmon/reports/DeltaWaterQuality.pdf
DELTA OPERATIONS
Delta Conditions = Balanced condition.
Delta Cross-channe Gates = Closed.
Outflow Index ~ 9,400 cfs
% Inflow Diverted = 31.80%
X2 Position > 81 km
Operational Comments:
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Monthly total (February) ---------- 0 0 0
Season total for both facilities ---------- 0 0 0
Note: Last larva detection for Longfin on 5/2/2008 at CVP.
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Acre-Feet	Date	Federal	State	AF above base			Net Delta Outflow Index
	1-Feb	1,974	1,975				8,752
	2-Feb	1,965	1,980				8,606
	3-Feb	1,974	1,976				8,100
	4-Feb	1,985	1,962				7,418
	5-Feb	1,990	1,982				7,465
	6-Feb	1,985	1,963				8,417
	7-Feb	1,990	1,972				10,371
	8-Feb	1,985	1,966				10,267
	9-Feb	1,990	1,972				10,276
	10-Feb	1,987	1,979				10,854
	11-Feb	3,410	3,948	1,423	1,969		9,516
	12-Feb	4,003	3,947	2,016	1,968		10,235
	13-Feb	3,163	4,871	1,176	2,892		9,400
	14-Feb	3,958	3,909	1,971	1,930		
	15-Feb	3,955	3,953	1,968	1,974		
total through 2/15				8,554	10,733	19,287	
total through 2/16				10,522	12,707	23,229	assumes same level of pumping on 2/16 (may be more, hihgly doubtful it was less)
CFS	Date	Federal	State				
	1-Feb	995	996				
	2-Feb	991	998				
	3-Feb	995	996				
	4-Feb	1001	989				
	5-Feb	1003	999				
	6-Feb	1001	990				
	7-Feb	1003	994				
	8-Feb	1001	991				
	9-Feb	1003	994				
	10-Feb	1002	998				
	11-Feb	1719	1990				
	12-Feb	2018	1990				
	13-Feb	1595	2456				
	14-Feb	1995	1971				
	15-Feb	1994	1993				