

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS
RESERVOIR OPERATIONS COMMITTEE**

COMMITTEE MEMBERS

David Hart, Chair
Ken Ekelund
Richard Ortiz
Mark Nielsen
David Pozzi
Mark Gonzalez

John Baillie
Benny Jefferson
Dean Benedix
Michael Tozzi (Parks)
Mark Sandoval (CalParks)

TIME: 1:30 p.m.
DATE: Thursday November 5, 2015
PLACE: Monterey County Water Resources Agency
Board Room
893 Blanco Circle
Salinas, CA 93901

AGENDA

- 1. CALL TO ORDER**
- 2. PUBLIC COMMENT**
(Limited to three (3) minutes per speaker on matters within the jurisdiction of the Agency not listed on this agenda. The public will have the opportunity to ask questions and make statements on agenda items as the Committee considers them.)
- 3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON OCTOBER 1, 2015**
The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).
- 4. REVIEW THE STATUS OF BOTH RESERVOIRS; REVIEW RELEASES AND RELEASE SCHEDULE**
Staff will present a summary of current conditions at both reservoirs, as well as provide a synopsis of release changes that have occurred since the last meeting (Attachments 2, 2a, 3, 3a, 4).
- 5. RECEIVE REPORT ON THE STATUS OF THE OPERATIONS POLICY MANUAL FOR SAN ANTONIO AND NACIMIENTO RESERVOIRS**

Staff will report on the status of the current San Antonio and Nacimiento Reservoirs Operations Policy manual and discuss incorporating reservoir operational requirements implemented with the construction of the Salinas Valley Water Project.

6. RECEIVE REPORT ON CLOUD-SEEDING

Staff will report on and discuss possible options for cloud-seeding opportunities.

7. RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS

Staff will present a verbal report discussing the various Operations and Maintenance activities at both reservoirs that have occurred over the last month.

8. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT

Staff will report on current activities regarding the Interlake Tunnel Project.

9. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

B. EASEMENTS AND AGENCY LEASES

C. QUAGGA / ZEBRA MUSSEL PLAN

D. UPDATE ON SAN LUIS OBISPO COUNTY ACTIVITIES

E. NATIONAL MARINE FISHERIES SERVICE

10. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The Committee will discuss and determine details for its next meeting.

11. ADJOURNMENT

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS
RESERVOIR OPERATIONS COMMITTEE**

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TIME: 1:30 PM
DATE: Thursday, October 1, 2015
PLACE: Monterey County Water Resources Agency
Board Room
890 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. CALL TO ORDER

The meeting was called to order @ 1:35 P.M. by Chair David Hart and a quorum was established.

Members Present: Hart, Ekelund, Ortiz, Nielsen, Pozzi, Baillie, Jefferson, Benedix, Tozzi and Sandoval

Members Absent: Gonzalez

2. PUBLIC COMMENT

None

3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON SEPTEMBER 3, 2015

ACTION: On motion and second of Directors Baillie and Pozzi, the Committee approved the minutes.

VOTE: YES: Hart, Ekelund, Nielsen, Pozzi, Baillie, Jefferson, Benedix, Tozzi, and Sandoval

NO: None

ABSTAIN: Ortiz

ABSENT: Gonzalez

4. REVIEW THE STATUS OF BOTH RESERVOIRS; REVIEW RELEASES AND RELEASE SCHEDULE

Jason Demers, Hydrologist, presented this item for review. Beginning August 28, 2015, releases from San Antonio Reservoir were gradually increased from 5 cfs to a maximum of

191 cfs on September 4. Since September 4, releases have gradually reduced due to head loss in the reservoir, up until September 21, when bypass pumping of 3 cfs began. There is 42 cfs in the Salinas River near Bradley. On September 29, the end of flow in the Salinas River was at river mile 83.6. The reservoirs received no significant rainfall from the recent rains.

Nacimiento Reservoir elevation is 723.50 feet and 76,625 acre-feet of storage, 20% of capacity, and current release is 60 cfs.

San Antonio Reservoir elevation is 646.00 feet and 10,507 acre-feet of storage, 3% of capacity, and current release is 3 cfs.

5. RECEIVE REPORT ON THE STATUS OF THE OPERATIONS POLICY MANUAL FOR SAN ANTONIO AND NACIMIENTO RESERVOIRS

Brent Buche, Deputy General Manager, presented this item. The PowerPoint presentation listed the sections found in the existing operations policy and other requirements that need to be incorporated to the policy document. A subcommittee, consisting of Mark Nielsen, John Baillie, Benny Jefferson, and stakeholder member Bob Martin, was formed to review and update the existing policy manuals.

PUBLIC COMMENT: Bill Stevens, NOAA Fisheries (on conference call) and Bob Martin, Rio Farms

6. RECEIVE REPORT ON CLOUD SEEDING

Dean Benedix, San Luis Obispo County, provided an update on this item. There are no new developments at this time.

7. RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS

Brent Buche, Deputy General Manager, presented this item. The Agency's field crew is currently working on maintenance projects at San Antonio Reservoir. A safety consultant was on-site recently and provided comments and suggestions on the outlet pipe and trash rack maintenance work. The Committee requested photos of the maintenance work in progress. A "Confined Space" safety class is scheduled for next week.

8. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT

Dave Chardavoyne, General Manager, presented this item. The consultants for engineering and environmental work for this project have been selected and the contracts are currently being negotiated.

PUBLIC COMMENT: Bob Martin, Rio Farms

9. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

Mark Sandoval, CalParks, and Michael Tozzi, Parks Department, provided an update on this item. Business for the summer was good at Nacimiento - September was up 60% from last year.

B. EASEMENTS AND AGENCY LEASES

Brent Buche provided an update on this item. The Agency is working with Monterey County Fish and Game Advisory Commission and Monterey County Parks Department to allow bow-hunting at South Shore at San Antonio Reservoir; lessees will be notified if this is implemented. The Agency is also working with Tri Counties regarding a request to lease portion of Lease 3B.

C. QUAGGA / ZEBRA MUSSEL PLAN

There was no update on this item.

D. UPDATE ON SLO COUNTY ACTIVITIES

Dean Benedix, San Luis Obispo County, provided an update on this item. The amendment for the Nacimiento Water Project stakeholders for use of the remaining reserve water will be presented to the San Luis Obispo County Board of Supervisors for consideration.

10. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The next meeting is scheduled for Thursday November 5, 2015 at 1:30 P.M. at the Agency.

11. ADJOURNMENT BY CHAIR DAVID HART AT 3:16 P.M.

SUBMITTED BY: TERESA CAMPA

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS - RESERVOIR OPERATIONS COMMITTEE**

MEETING DATE:	November 5, 2015	AGENDA ITEM:	
AGENDA TITLE:	Reservoir Release Update		
Consent ()		Action ()	
Information (X)			
SUBMITTED BY:	Germán Criollo	PREPARED BY:	Jason Demers
PHONE:	(831) 755-4860	PHONE:	(831) 755-4860
DEADLINE FOR BOARD ACTION:		November 5, 2015	

RECOMMENDED BOARD ACTION:

None – item presented for informational purposes.

SUMMARY:

The Board of Directors receives monthly updates on the status of Agency reservoirs.

DISCUSSION/ANALYSIS:

RESERVOIR ELEVATION / STORAGE: As of October 26, 2015, San Antonio Reservoir is at an elevation of approximately 645.9 feet mean sea level (msl), 10,456 acre-feet of storage. Nacimiento Reservoir is at elevation 721.65 feet msl, 72,548 acre-feet of storage. San Antonio Reservoir is currently at 3% of storage capacity and Nacimiento Reservoir is at 19% of capacity.

RESERVOIR RELEASES: Beginning Friday, August 28, 2015, releases from San Antonio Reservoir were gradually increased from a rate of 5 cubic feet per second (cfs) up to a maximum rate of 191 cfs on September 4, 2015. Since that time, releases from San Antonio gradually reduced due to head loss until September 21, 2015 when bypass pumping of 3 cfs began. Releases from Nacimiento Reservoir remain at 60 cfs.

Releases as of October 26, 2015:

- San Antonio Reservoir: 3 cfs
- Nacimiento Reservoir: 60 cfs

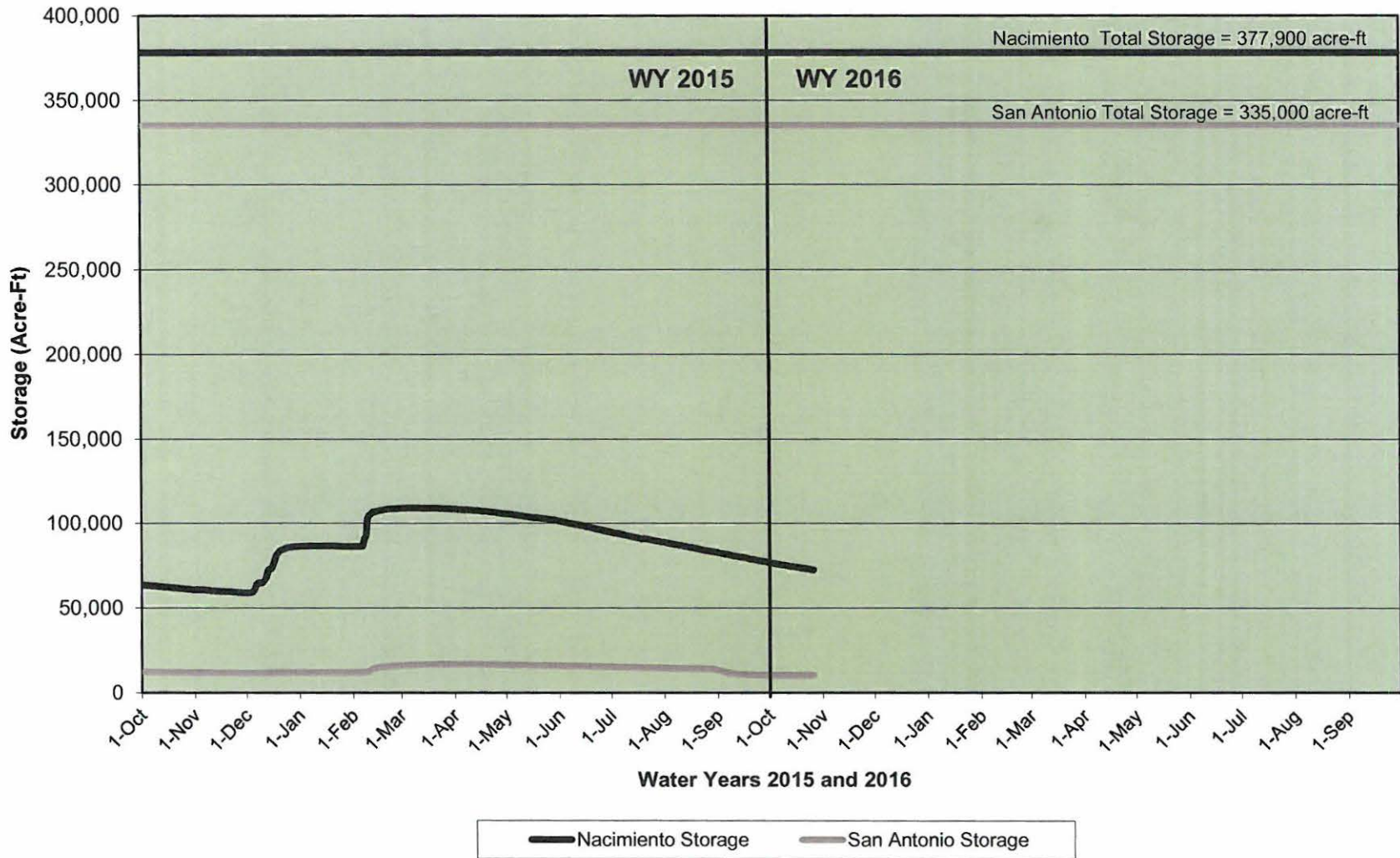
Total releases from both reservoirs to the Salinas River are approximately 63 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 52 cfs (steady)

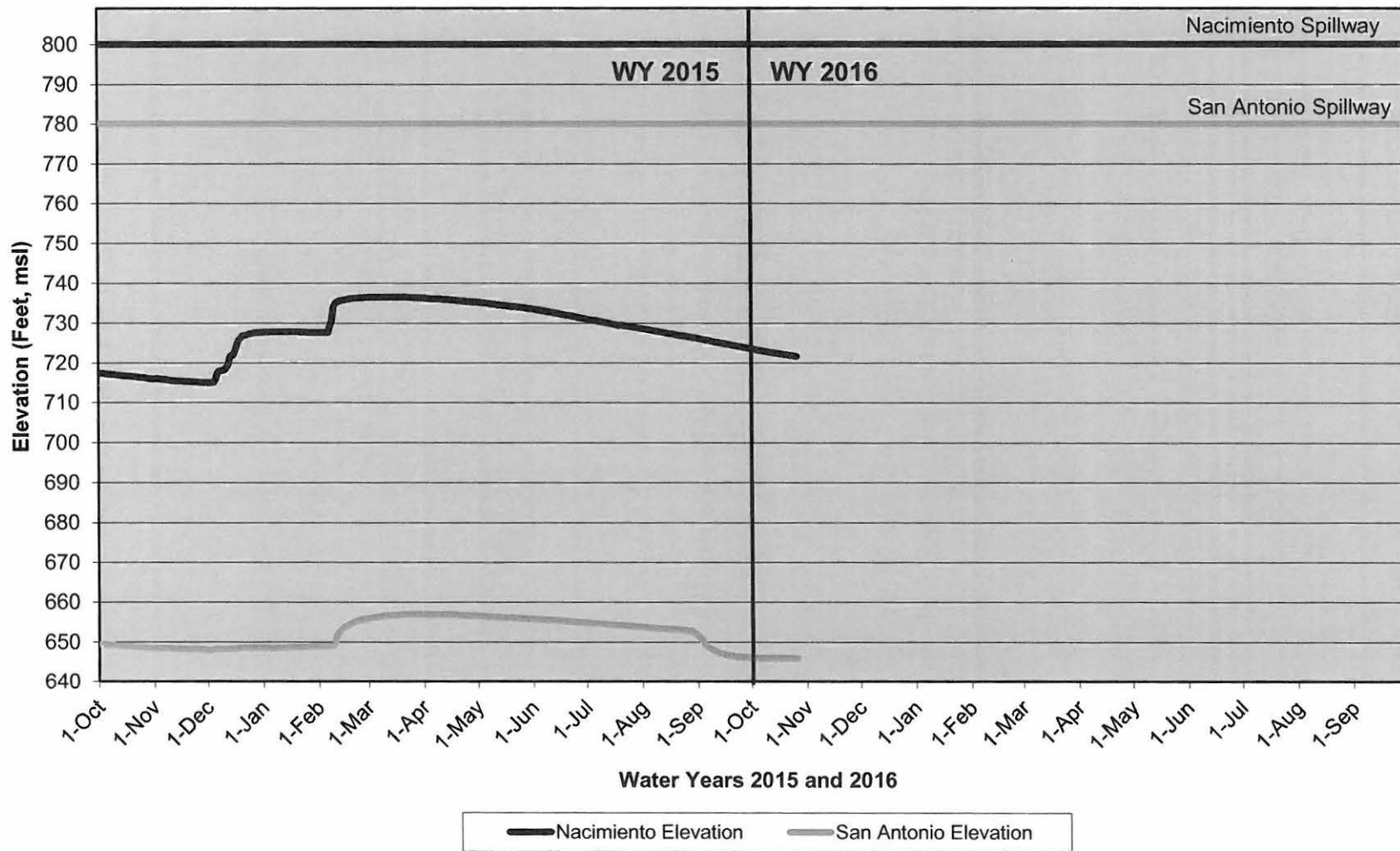
**Synopsis of Reservoir Release Changes from
August 28, 2015 to October 30, 2015**

Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
August 28, 2015	5	56	60	60	116
August 29, 2015	56	100	60	60	160
September 1, 2015	100	113	60	60	173
September 2, 2015	113	138	60	60	198
September 3, 2015	138	175	60	60	235
September 4, 2015	175	191	60	60	251
September 5, 2015	191	145	60	60	205
September 6, 2015	145	115	60	60	175
September 7, 2015	115	97	60	60	157
September 8, 2015	97	84	60	60	144
September 9, 2015	84	75	60	60	135
September 10, 2015	75	55	60	60	115
September 11, 2015	55	50	60	60	110
September 12, 2015	50	45	60	60	105
September 13, 2015	45	40	60	60	100
September 14, 2015	40	37	60	60	97
September 15, 2015	37	35	60	60	95
September 16, 2015	35	32	60	60	92
September 17, 2015	32	28	60	60	88
September 18, 2015	28	25	60	60	85
September 19, 2015	25	23	60	60	83
September 20, 2015	23	20	60	60	80
September 21, 2015	20	3	60	60	63

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY
PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after October 1st

10/30/2015

	NACIMIENTO								SAN ANTONIO					
	Combined Releases (cfs)*	Combined Releases (ac-ft)	Evap. Losses (ac-ft)**	Reservoir Releases (cfs)*	Reservoir Releases (ac-ft)	NWP Orders (ac-ft)	NWP Diversions (ac-ft)	Storage (ac-ft)	Elev. (ft)	Evap. Losses (ac-ft)**	Reservoir Releases (cfs)*	Reservoir Releases (ac-ft)	Storage (ac-ft)	Elev. (ft)
1/1/2015	35	2,152	263	30	1,845	175	0	86,638	727.8	67	5	307	11,775	648.6
2/1/2015	35	1,944	282	30	1,666	310	0	86,515	727.7	70	5	278	12,003	649.0
3/1/2015	35	2,152	600	30	1,845	923	0	109,100	736.4	141	5	307	15,903	655.9
4/1/2015	35	2,083	862	30	1,785	1,469	965	105,525	735.1	201	5	298	16,325	656.5
5/1/2015	41	2,549	756	36	2,241	2,009	1,303	101,225	733.5	180	5	307	15,838	655.8
6/1/2015	65	3,868	1,740	60	3,570	2,353	1,264	94,650	731.0	310	5	298	15,230	654.8
7/1/2015	65	3,997	1,070	60	3,689	2,334	1,171	88,720	728.6	293	5	307	14,630	653.8
8/1/2015	76	4,663	1,326	60	3,689	2,393	1,065	82,640	726.1	436	16	974	13,220	651.3
9/1/2015	112	6,651	1,537	60	3,570	2,175	908	76,625	723.5	311	52	3,081	10,507	646.0
10/1/2015	63	3,874	901	60	3,689	1,436	TBR	71,500	721.2	574	3	184	10,456	645.9
11/1/2015						951	TBR							
12/1/2015						512	TBR							
1/1/2016														
TOTALS:	33,932	33,932	9,335	27,590	17,040	6,677		2,583	6,342					

* Mean daily flow for the month in cubic feet per second.

** Evap. Losses estimated from long term pan evaporation data at Nacimiento and San Antonio Reservoirs.

NOTES:

- Nacimiento Reservoir storage capacity 377,900 acre feet.
- San Antonio Reservoir storage capacity 335,000 acre feet.
- Reservoir Operations Committee may make release considerations for fish spawn and holiday periods to benefit recreation.
- Shaded areas represent periods when elevations are influenced by inflow/runoff; releases may include flood control releases.
- Preliminary Schedule assumes no inflow to reservoirs after May 1st.
- "NWP Diversions" are San Luis Obispo County - Nacimiento Water Project conveyance facilities diversions. Max. allowable diversions for water year (Oct. 1 - Sept. 30) are 15,750 ac-ft. To Be Reported (TBR)
- NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.