

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

COMMITTEE MEMBERS

David Hart, Chair
Richard Ortiz

Ken Ekelund
Mark Gonzalez

TIME: 1:30 p.m.
DATE: Thursday, January 26, 2017
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 December 1, 2016**
The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).
4. **Discussion on application and selection process for the Monterey County Water Resources Agency Reservoir Operations Advisory Committee**
Chair Hart will discuss the status of the application and selection process for the membership of the Reservoir Operations Advisory Committee.
5. **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).
6. **Receive report on the status of the Operations Policy Manual for San Antonio and Nacimiento Reservoirs**

Staff will report on the work being done to update the San Antonio and Nacimiento Reservoirs Operations Policy manual.

7. **Receive report regarding Operations and Maintenance activities at the Reservoirs**
Staff will present a verbal report discussing the Operations and Maintenance activities at both reservoirs over the last month.
8. **Receive report regarding Interlake Tunnel Project**
Staff will report on current activities regarding the Interlake Tunnel Project.
9. **Receive report on the work being done by the Grazing Lease Subcommittee**
Staff will report on the review work being done by the Grazing Lease Subcommittee to update the agreement documents to be used to lease Agency-owned land around the reservoirs.
10. **Receive status reports on:**
 - A. **Lake recreation by Concessionaire and Parks Department**
 - B. **Easements and Agency Leases**
 - C. **Quagga / Zebra Mussel Plan**
 - D. **San Luis Obispo County Activities**
 - E. **National Marine Fisheries Service**
 - F. **Cloud Seeding**
11. **Set next meeting date and discuss future Agenda items**
The Committee will discuss and determine details for its next meeting.
12. **Adjournment**

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

David Hart, Chair
Richard Ortiz

Ken Ekelund
Mark Gonzalez

TIME: 1:30 PM
DATE: Thursday, December 1, 2016
PLACE: Monterey County Water Resources Agency
Board Room
890 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. **Call to Order at 1:30 P.M. by Chair David Hart and a quorum was established.
Members present: David Hart, Richard Ortiz, Ken Ekelund, Mark Gonzalez
Members absent: None**
2. **Public Comments: None**
3. **Approve the Minutes of the Reservoir Operations Committee Meeting held on October 27, 2016**

ACTION: On motion and second of Committee members Ortiz and Ekelund, the Committee approved the minutes.

VOTE: Motion carried unanimously by those members present.

4. **Receive report on application and selection process for the Monterey County Water Resources Agency Reservoir Operations Advisory Committee
Rob Johnson reported on this item.**

ACTION: On motion and second of Committee members Ekelund and Gonzalez, the Committee received the report.

VOTE: Motion carried unanimously by those members present.

5. **Review the status of both reservoirs; review releases and release schedule
Germán Criollo, Associate Hydrologist, and Howard Franklin, Senior Water Resources Hydrologist/Program Manager, reported on this item. The flow in the Salinas River near Bradley is approximately 65 cfs. End of flow in the Salinas River is between river miles 80-69, between King City and San Lucas Bridge.**

Nacimiento Reservoir elevation is 728.45 feet and 88,353 acre-feet of storage, 23% of capacity, and current release is 60 cfs.

San Antonio Reservoir elevation is 663.60 feet and 21,300 acre-feet of storage, 6% of capacity, and current release is 3 cfs.

6. Receive report on the status of the Operations Policy Manual for San Antonio and Nacimiento Reservoirs

Germán Criollo reported on this item. The next Operations Policy Subcommittee meeting is scheduled for December 8, 2016 at the Agency.

7. Receive report regarding Operations and Maintenance activities at the Reservoirs

Chris Moss, Senior Water Resources Engineer, reported on this item.

8. Receive report regarding Interlake Tunnel Project

Dave Chardavoyne, General Manager reported on this item.

9. Consider providing Agency staff with direction to reduce flow below Nacimiento Dam from 60 cfs to 20 cfs for up to an eight hour period on up to four occasions to complete maintenance and repairs at Nacimiento Dam low level outlet valves 5 and 6.

Chris Moss reported on this item.

ACTION: On motion and second of Committee members Ekelund and Gonzalez, the Committee approved to direct staff to reduce flow below Nacimiento Dam from 60 cfs to 20 cfs for up to an eight hour period on up to four occasions to complete maintenance and repairs at Nacimiento Dam low level outlet valves 5 and 6.

VOTE: Motion carried unanimously by those members present.

10. Consider establishing a Grazing Lease Subcommittee

Brent Buche, Deputy General Manager, reported on this item. The Grazing Lease Subcommittee will meet in January with members of the subcommittee to be determined before the January meeting.

11. Receive status reports on:

A. Lake Recreation by Concessionaire and Parks Department

Mark Sandoval, CalParks, reported on this item.

B. Easement and Agency Leases

Brent Buche reported on this item.

C. Quagga / Zebra Mussel Plan

Elizabeth Krafft, Senior Hydrologist reported on this item.

D. San Luis Obispo County Activities

No report on this item.

E. National Marine Fisheries Service

No report on this item.

F. Cloud Seeding

Germán Criollo reported on this item.

12. Set next meeting date and discuss future Agenda items

The next meeting is scheduled for Thursday January 26, 2017.

13. Adjournment by Chair David Hart at 3:20 P.M.

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	January 26, 2017	AGENDA ITEM:
Consent () Action () Information (X)		
DEADLINE FOR BOARD ACTION:	January 26, 2017	

..Title

Reservoir Release Update

..Report

RECOMMENDATION:

None – item presented for informational purposes.

SUMMARY/DISCUSSION:

The Reservoir Operations Advisory Committee receives monthly updates on the status of Agency reservoirs.

RESERVOIR ELEVATION / STORAGE: As of January 19, 2017, San Antonio Reservoir is at an elevation of approximately 696.3 feet mean sea level (msl), 57,965 acre-feet of storage. Nacimiento Reservoir is at elevation 769.3 feet msl, 224,490 acre-feet of storage. San Antonio Reservoir is currently at 17% of storage capacity and Nacimiento Reservoir is at 59% of capacity.

A series of rain events beginning December 8th resulted in significant inflow to both reservoirs. San Antonio Reservoir increased 32.9 feet in elevation (36,852 acre-feet of storage) from the seasonal low in mid-December. Nacimiento Reservoir increased 41.4 feet in elevation (137,607 acre-feet of storage) during the same period. The Salinas and Arroyo Seco Rivers were connected to the ocean for several days in January. The Salinas River mouth opened to the ocean on January 12th as a result of sandbar management activities in response to flow from the Arroyo Seco River. As of January 19th the Salinas river lagoon remains open to the ocean.

RESERVOIR RELEASES: Minimum fisheries releases are currently being made from both reservoirs. Minor fluctuations in release rates are not presented in this report but are documented in the Salinas Valley Water Project Annual Flow Reports.

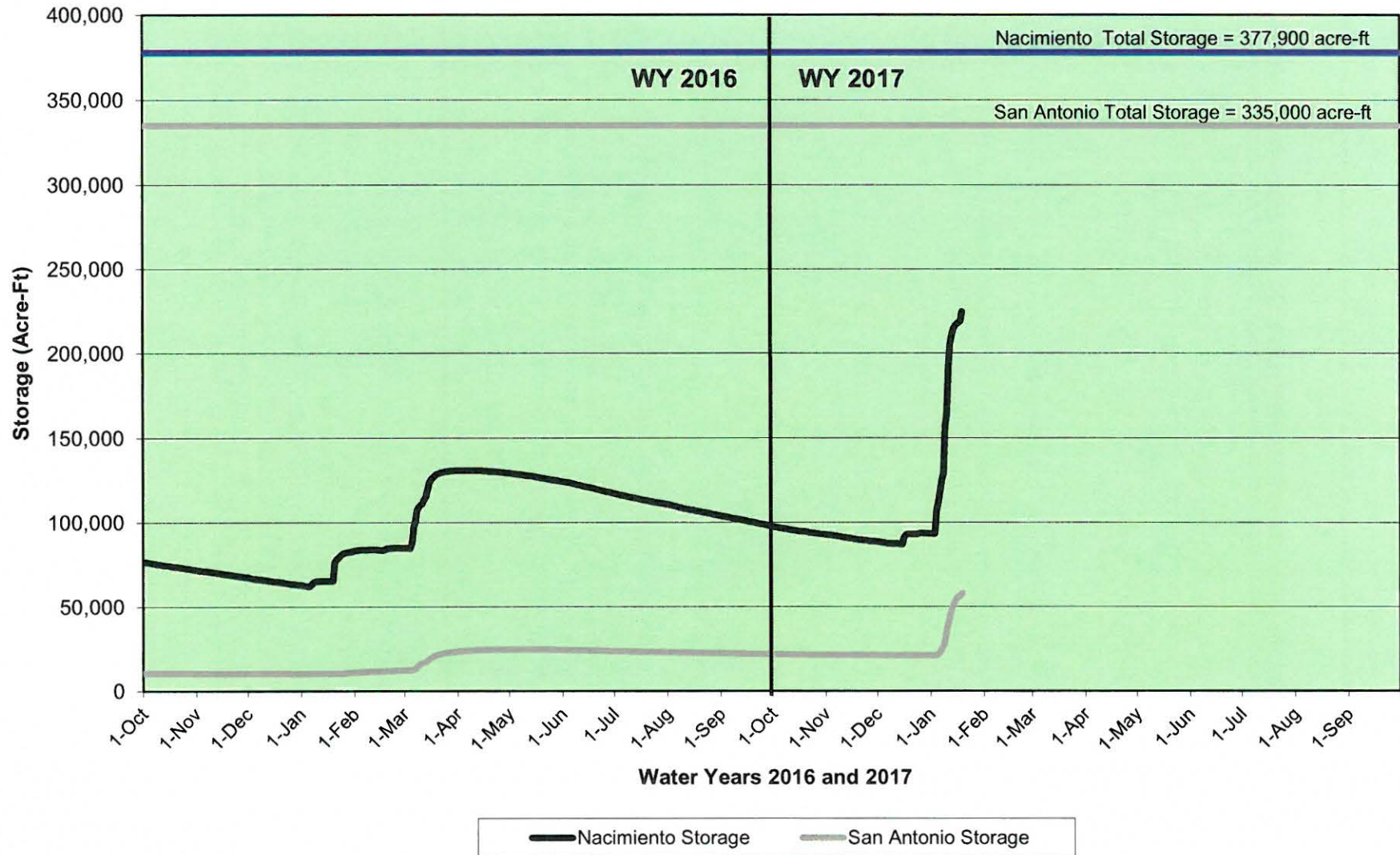
Releases as of January 19, 2017:

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

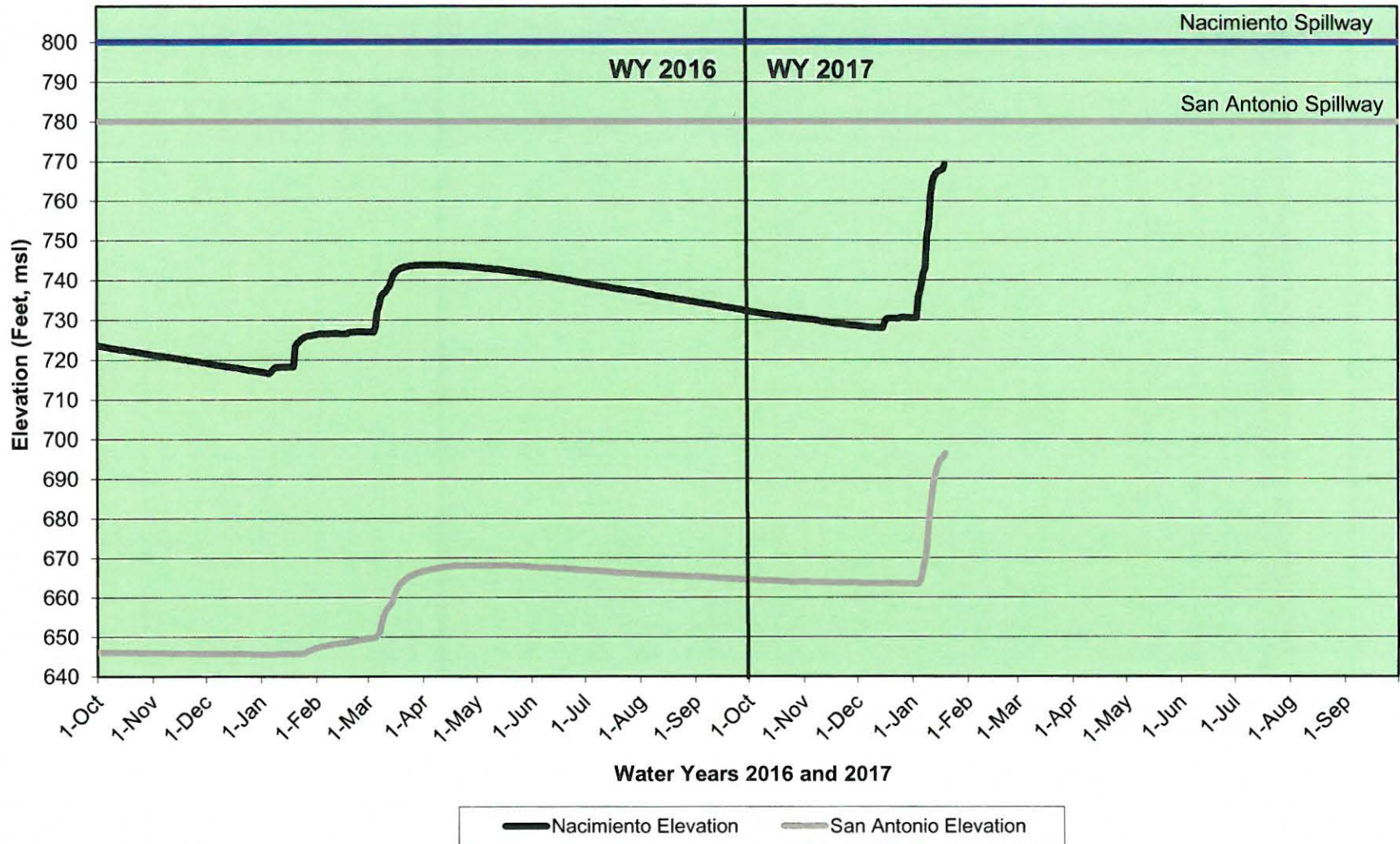
Total releases from both reservoirs to the Salinas River are approximately 63 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 22 cfs (decreasing)
- Salinas River near Chualar: 3 cfs (decreasing)
- Salinas River at Soledad: 0 cfs
- Salinas River near Bradley: 258 cfs (decreasing)

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY
Elevation/Storage/NWP Diversions

1/19/2017

FINAL RESERVOIR RELEASE SCHEDULE FOR 2016

	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)
1/1/2016	63	3,874	208	60	3,689	576	247	62,755	717.0	67	3	184	10,254	645.5
2/1/2016	63	3,624	225	60	3,451	716	309	83,120	726.3	67	3	173	11,065	647.1
3/1/2016	63	3,874	498	60	3,689	1,012	412	84,680	727.0	128	3	184	12,282	649.5
4/1/2016	63	3,749	845	60	3,570	1,101	439	130,685	743.7	222	3	179	23,630	666.6
5/1/2016	63	3,874	1,408	60	3,689	1,112	562	129,008	743.2	393	3	184	24,750	668.0
6/1/2016	63	3,749	1,902	60	3,570	2,106	680	123,975	741.5	535	3	179	24,430	667.6
7/1/2016	63	3,874	2,009	60	3,689	2,121	742	116,795	739.1	571	3	184	23,790	666.8
8/1/2016	63	3,874	1,846	60	3,689	2,121	923	110,475	736.9	520	3	184	22,950	665.8
9/1/2016	63	3,749	1,492	60	3,570	1,686	849	103,630	734.4	420	3	179	22,510	665.2
10/1/2016	63	3,874	1,051	60	3,689	1,189	773	97,515	732.1	300	3	184	21,863	664.4
11/1/2016	63	3,749	519	60	3,570	631	457	92,650	730.2	161	3	179	21,525	663.9
12/1/2016	63	3,874	323	60	3,689	354	399	88,353	728.5	98	3	184	21,300	663.6
1/1/2017	63	3,874	323	60	3,689	354	399	93,275	730.5	98	3	184	21,150	663.4
TOTALS:		45,736	12,325		43,558	14,724	6,791			3,482		2,178		

* 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:

1. Nacimiento Reservoir storage capacity 377,900 acre feet.
2. San Antonio Reservoir storage capacity 335,000 acre feet.
3. Reservoir Operations Committee may make release considerations for fish spawn and holiday periods to benefit recreation.
4. Shaded areas represent periods when elevations are influenced by inflow/runoff; releases may include flood control releases.
5. Preliminary Schedule assumes no inflow to reservoirs after May 1st.
6. "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)
7. NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.