

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

COMMITTEE MEMBERS

Richard Ortiz, Chair
Ken Ekelund
John Baillie
Matthew Simis
Benny Jefferson
Jon Anthony

Eric Morgan
Bill Lipe
Nathan Merkle
Ron Munds
Don Bullard
Kevin Piearcy

TIME: 1:30 p.m.
DATE: Thursday, June 27, 2019
PLACE: Monterey County Water Resources Agency
Saffron Conference Room
1441 Schilling Place
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 Advisory Committee Meeting held on May 30, 2019**
The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).
4. **Review the status of both reservoirs and current releases**
Staff will present a summary of current conditions at both reservoirs, provide a synopsis of release changes that have occurred since the last meeting (Attachments 2, 2a, and 3).
5. **Review the release schedule for 2019**
Staff will review the release schedule for 2019 (Attachment 4).

6. **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.
7. **Report regarding Interlake Tunnel Project**
Staff will present a verbal report discussing activities related to the Interlake Tunnel Project.
8. **Status reports on:**
 - A. **Lake Recreation by Concessionaire and Parks Department**
 - B. **Easements and Agency Leases**
 - C. **Quagga / Zebra Mussel Plan**
 - D. **Cloud Seeding**
 - E. **San Luis Obispo County Activities**
 - F. **National Marine Fisheries Service**
9. **Set next meeting date and discuss future Agenda items**
The Committee will discuss and determine details for its next meeting.
10. **Adjournment**

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TIME: 1:30 p.m.
DATE: Thursday, May 30, 2019
PLACE: 1441 Schilling Place, Cinnamon Room
Salinas, CA 93901

MINUTES

1. Call to Order at 1:30 p.m.

A quorum was established.

Members present: Ortiz, Ekelund, Baillie, Simis, Jefferson, Morgan, Lipe, Merkle, Munds

Members absent: Anthony, Bullard, Piearcy

2. Public Comment: None

3. Approve the Minutes of the Reservoir Operations Advisory Committee Meeting held on April 25, 2019

Committee Action: On Motion by Baillie and Second by Simis, the Committee approved the Minutes of the Reservoir Operations Advisory Committee meeting held on April 25, 2019.

Ayes: Ortiz, Ekelund, Baillie, Simis, Jefferson, Morgan, Lipe, Merkle, Munds

Noes:

Abstain:

Absent: Anthony, Bullard, Piearcy

4. **Review the status of both reservoirs and current releases**
Jason Demers, Hydrologist, provided the review.
5. **Review the release schedule for 2019**
Germán Criollo, Associate Water Resources Hydrologist, provided the review.
6. **Report regarding Operations and Maintenance activities at the Reservoirs**
Brent Buche, Deputy General Manager, provided the report.
7. **Receive report on the California Department of Water Resources Division of Safety of Dams condition assessment for Nacimiento and San Antonio Dams**
Chris Moss, Senior Water Resources Engineer, provided the report.
8. **Receive an update on the San Antonio Dam Spillway Project in response to the April 12, 2019 letter from DSOD requiring “major rehabilitation or full replacement” by November 1, 2024**
Brent Buche provided the update.
9. **Receive report on the Nacimiento Dam 7th 5-year FERC Part 12D Safety Inspection Report**
Chris Moss provided the report.
10. **Receive report on an outside audit of the Agency Owner’s Dam Safety Program**
Chris Moss provided the report.
11. **Report regarding Interlake Tunnel Project**
Brent Buche provided the report.
12. **Status reports on:**
 - A. **Lake Recreation by Concessionaire and Parks Department-** Nathan Merkle
 - B. **Easements and Agency Leases-** Brent Buche
 - C. **Quagga / Zebra Mussel Plan-** Elizabeth Krafft
 - D. **Cloud Seeding-** Ron Munds - No update at this time.
 - E. **San Luis Obispo County Activities-** Ron Munds
 - F. **National Marine Fisheries Service-** Bill Stevens - No update at this time.
13. **Set next meeting date and discuss future Agenda items**
Next meeting date is June 27, 2019.
14. **Adjournment**
The meeting adjourned at 2:51 p.m.

Submitted by: Misti Muramatsu

Reservoir Release Update

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 June 20, 2019, San Antonio Reservoir has a water surface elevation of approximately 733.1 feet (NGVD 29), 139,500 acre-feet of storage. Nacimiento Reservoir has a water surface elevation of approximately 781.7 feet, 281,130 acre-feet of storage. San Antonio Reservoir is currently at 42% of storage capacity and Nacimiento Reservoir is at 74% of capacity.

RESERVOIR RELEASES: The Salinas River Diversion Facility (SRDF) began operating on April 1, 2019. Releases of 510 cfs from Nacimiento Reservoir and 10 cfs from San Antonio Reservoir are being made for groundwater recharge, SRDF operation, and fisheries requirements in accordance with the Salinas Valley Water Project Biological Opinion.

The Salinas River Lagoon opened to the ocean on January 19th and remains open.

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 June 20, 2019:

- Nacimiento Reservoir: 510 cfs
- San Antonio Reservoir: 10 cfs

Total releases from both reservoirs to the Salinas River are approximately 520 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Bradley: 413 cfs (steady)
- Salinas River at Soledad: 238 cfs (steady)
- Salinas River near Chualar: 98 cfs (steady)
- Salinas River near Spreckels: 42 cfs (steady)

OTHER AGENCY INVOLVEMENT:

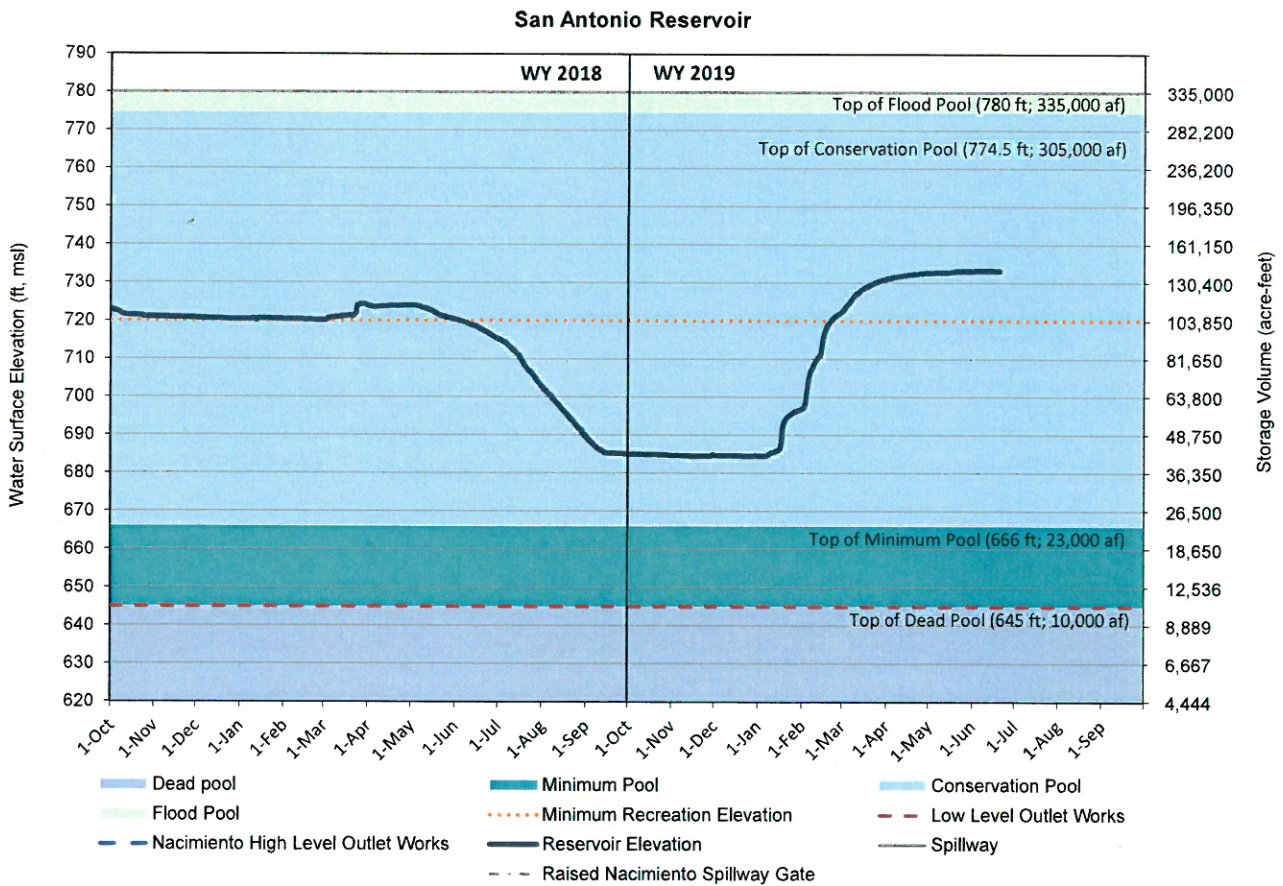
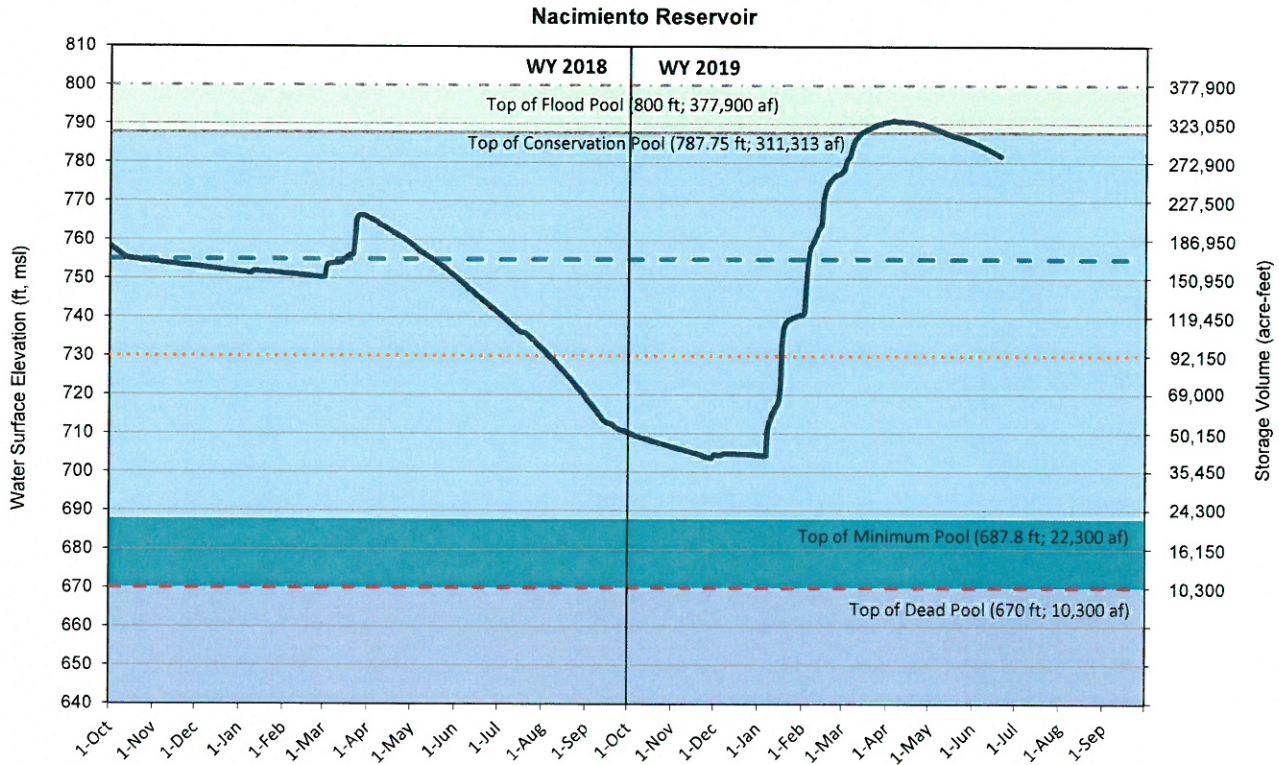
None

FINANCING:

None

Prepared by: Germán Criollo, Associate Hydrologist, (831) 755-4860
Jason Demers, Hydrologist, (831) 755-4860

Reservoir Elevation and Storage



- Dead pool
- Minimum Pool
- Conservation Pool
- Flood Pool
- Minimum Recreation Elevation
- Low Level Outlet Works
- Nacimiento High Level Outlet Works
- Reservoir Elevation
- Spillway
- Raised Nacimiento Spillway Gate

MONTEREY COUNTY WATER RESOURCES AGENCY
Elevation/Storage/NWP Diversions - Estimated after June 1

RESERVOIR RELEASE SCHEDULE FOR 2019

	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		Elev. (ft)	Evap. Losses (ac-ft)**	Reservoir Releases (cfs)*	Reservoir Releases (ac-ft)	Storage		Elev. (ft)
								(ac-ft)	(%)					(ac-ft)	(%)	
1/1/2019	70	4,304	268	60	3,689	497	403	41,480	11%	704.4	154	10	615	41,687	12%	684.6
2/1/2019	78	4,306	397	68	3,751	717	256	121,850	32%	740.8	223	10	555	59,050	18%	697.0
3/1/2019	81	4,957	1,112	71	4,342	986	434	262,985	70%	777.9	609	10	615	110,075	33%	722.5
4/1/2019	231	13,773	1,591	221	13,178	962	407	325,700	86%	790.5	907	10	595	133,398	40%	731.1
5/1/2019	394	24,246	2,229	378	23,231	1,668	363	318,850	84%	789.2	1,332	17	1,016	137,850	41%	732.6
6/1/2019	488	29,032	2,806	478	28,437	2,107		298,400	79%	785.2	1,785	10	595	139,500	42%	733.1
7/1/2019	606	37,270	2,732	536	32,946	2,111		267,245	71%	778.8	1,806	70	4,324	138,439	41%	732.7
8/1/2019	726	44,629	2,376	424	26,083	1,961		228,938	61%	770.3	1,477	302	18,546	132,074	39%	730.6
9/1/2019	664	39,531	1,780	385	22,909	1,882		198,122	52%	762.8	988	279	16,622	111,757	33%	723.2
10/1/2019	70	4,304	1,187	60	3,689	1,572		171,196	45%	755.7	637	10	615	93,855	28%	715.7
11/1/2019	70	4,165	603	60	3,570	832		164,497	44%	753.9	334	10	595	92,389	28%	715.1
12/1/2019	70	4,304	371	60	3,689	456		159,361	42%	752.4	209	10	615	91,349	27%	714.6
TOTALS:		214,823	17,451		169,516	15,751	1,884				10,463		45,307			714.2

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

** Future Evap. Losses estimated from long term pan evaporation data at Nacimiento and San Antonio Reservoirs and replaced with calculated values once available.

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 could be influenced by inflow/runoff, releases may include flood control releases.
5. Preliminary Schedule assumes no inflow to reservoirs after April 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.
7. NACIMIENTO "NWP Diversions": do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.