

**REGULAR MEETING
OF
CACHUMA OPERATION AND MAINTENANCE BOARD**

**3301 Laurel Canyon Road
Santa Barbara, CA 93105**

Monday, October 23, 2017

2:00 P.M.

AGENDA

1. **CALL TO ORDER, ROLL CALL**
2. **PUBLIC COMMENT** (*Public may address the Board on any subject matter not on the agenda and within the Board's jurisdiction. See "Notice to the Public" below. Please make your comments from the podium once acknowledged by the President of the Board.*)
3. **CONSENT AGENDA** (*All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.*)
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
 - a. Minutes of September 14, 2017 Special Board Meeting
 - b. Minutes of September 25, 2017 Regular Board Meeting
 - c. Investment of Funds
 - Financial Reports
 - Investment Reports
 - d. Review of Paid Claims
4. **VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Operations Committee Meeting – October 18, 2017
 - Administrative Committee Meeting – October 18, 2017
5. **UNEXPENDED FUNDS - FISCAL YEAR 2016-17**
For discussion and possible action by motion and roll call vote of the Board
6. **FINANCIAL REVIEW – 1ST QUARTER FISCAL YEAR 2017-18**
Receive information regarding the Operating Budget for 1st Quarter Fiscal Year 2017-18
7. **WHITTIER FIRE POTENTIAL IMPACTS AND PREPARATIONS**
For discussion and possible action by motion and roll call vote of the Board

8. GENERAL MANAGER REPORT

Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:

- Administration
- Operations Division
- Fisheries Division

9. OPERATIONS DIVISION REPORT

Receive information regarding Operations Division, including but not limited to the following:

- Lake Cachuma Operations
- Operation and Maintenance Activities

10. FISHERIES DIVISION REPORT

Receive information regarding Fisheries Division, including but not limited to the following:

- LSYS Steelhead Monitoring Elements
- Tributary Project Updates
- Surcharge Water Accounting
- Reporting/Outreach/Training

11. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

Receive information regarding the Lake Cachuma Oak Tree Program including but not limited to the following:

- Maintenance and Monitoring

12. MONTHLY CACHUMA PROJECT REPORTS

Receive information regarding the Cachuma Project, including but not limited to the following:

- a. Cachuma Water Reports
- b. Cachuma Reservoir Current Conditions
- c. Lake Cachuma Quagga Survey

13. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

14. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION

- a. [Government Code Section 54956.9(d)(4)]
Name of matter: Protest of Member Agency re: Payment of Quarterly Assessments

15. RECONVENE INTO OPEN SESSION

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

- a. Protest of Member Agency re: Payment of Quarterly Assessments

16. MEETING SCHEDULE

- **November 27, 2017 at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**
www.cachuma-board.org

17. COMB ADJOURNMENT

NOTICE TO PUBLIC

Posting of Agenda: This agenda was posted at COMB's offices, located at 3301 Laurel Canyon Road, Santa Barbara, California, 93105 and on COMB's website, in accordance with Government Code Section 54954.2. The agenda contains a brief general description of each item to be considered by the Governing Board. The Board reserves the right to modify the order in which agenda items are heard. Copies of staff reports or other written documents relating to each item of business are on file at the COMB offices and are available for public inspection during normal business hours. A person with a question concerning any of the agenda items may call COMB's General Manager at (805) 687-4011.

Written materials: In accordance with Government Code Section 54957.5, written materials relating to an item on this agenda which are distributed to the Governing Board less than 72 hours (for a regular meeting) or 24 hours (for a special meeting) will be made available for public inspection at the COMB offices during normal business hours. The written materials may also be posted on COMB's website subject to staff's ability to post the documents before the scheduled meeting.

Public Comment: Any member of the public may address the Board on any subject within the jurisdiction of the Board that is not scheduled for as an agenda item before the Board. The total time for this item will be limited by the President of the Board. The Board is not responsible for the content or accuracy of statements made by members of the public. No action will be taken by the Board on any Public Comment item.

Americans with Disabilities Act: In compliance with the Americans with Disabilities Act, if you need special assistance to review agenda materials or participate in this meeting, please contact the Cachuma Operation and Maintenance Board office at (805) 687-4011 at least 48 hours prior to the meeting to enable the Board to make reasonable arrangements.

Note: If you challenge in court any of the Board's decisions related to the listed agenda items you may be limited to raising only those issues you or someone else raised at any public hearing described in this notice or in written correspondence to the Governing Board prior to the public hearing.

**MINUTES OF A SPECIAL MEETING
of the
CACHUMA OPERATION AND MAINTENANCE BOARD
held at
3301 Laurel Canyon Road, Santa Barbara, CA
Thursday, September 14, 2017**

1. Call to Order, Roll Call

The meeting was called to order at 2:00 p.m. by President Morgan who chaired the meeting. Those in attendance were:

Directors Present:

W. Douglas Morgan, Montecito Water District
Harwood 'Bendy' White, City of Santa Barbara
Polly Holcombe, Carpinteria Valley Water District
Lauren Hanson, Goleta Water District

Staff Present:

Janet Gingras, General Manager	Tim Robinson, Fisheries Division Manager
Edward Lyons, Administrative Manager/CFO	Adriane Passani, Admin Asst. III/Bookkeeper
William Carter, General Counsel	

Others Present:

John Schock, Schock Contracting Corporation

2. Public Comment

Mr. Schock commented on a bid proposal that was submitted by Schock Contracting Corporation for the Bridge replacement project at Quiota Creek Crossing 5. He requested reconsideration of the staff recommendation for award. Mr. Schock further commented that a written protest was submitted to the District earlier that day.

Mr. Carter recommended that any discussion be rescheduled until Staff has had the opportunity to review the written protest raised by Mr. Schock, for purposes of due process.

3. Resolution No. 646 – Fish Passage Improvement Project at Quiota Creek Crossing 5

Ms. Gingras highlighted Resolution No. 646 as incorporated in the board packet, and provided the Board with a brief summary of background information regarding the bid process. Director Holcombe moved to postpone the award of the contract. Seconded by Director Hanson, the motion passed by a 6/0/1 vote a follows:

Ayes: Holcombe, Hanson, Morgan, White

Nays:

Absent/Abstain: Walsh

4. **[CLOSED SESSION]: Conference with Legal Counsel: Existing and Potential Litigation**

The Board went into closed session at 2:22 p.m.

- a. [Government Code Section 54956.9(d)(4)]

Name of matter: Protest of Member Agency re: Payment of Quarterly Assessments

5. **RECONVENE INTO OPEN SESSION**

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

The Board came out of closed session at 3:41 p.m.

Item 4: There were no reportable actions.

6. **Meeting Schedule**

- **September 25, 2017 Regular Board Meeting at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**
www.cachuma-board.org

7. **COMB Adjournment**

There being no further business, the meeting adjourned at 3:42 p.m.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
✓	<i>Unapproved</i>

MINUTES OF A REGULAR MEETING
of the
CACHUMA OPERATION AND MAINTENANCE BOARD
held at
3301 Laurel Canyon Road, Santa Barbara, CA
Monday, September 25, 2017

1. Call to Order, Roll Call

The meeting was called to order at 2:00 p.m. by President Morgan who chaired the meeting. Those in attendance were:

Directors Present:

W. Douglas Morgan, Montecito Water District
Harwood 'Bendy' White, City of Santa Barbara
Polly Holcombe, Carpinteria Valley Water District
Lauren Hanson, Goleta Water District

Staff Present:

Janet Gingras, General Manager	Dave Stewart, Operations Division Manager
Edward Lyons, Administrative Manager/CFO	Joel Degner, Water Resources Engineer
Adriane Passani, Admin Asst. III/Bookkeeper	Scott Engblom, Project Biologist
Daniel Razo, Biologist Aide	William Carter, General Counsel

Others Present:

Philip Walker, Santa Barbara resident	Fray Crease, SB County Water Agency
Bob McDonald, Carpinteria Valley Water District	

2. Public Comment

Mr. Walker commented on the construction of Dams, highlighting the engineering and construction of the Crystal Springs Reservoir in San Mateo County, which lies on the San Andreas Fault. Mr. Walker also mentioned the failure to the spill way of the Guajataca Dam, located in Puerto Rico, which occurred in the aftermath of the recent storm event.

3. Introduction of New Staff

Ms. Gingras introduced COMB's newest employee, Joel Degner, Water Resources Engineer, who started with COMB on September 25th. The Board welcomed Mr. Degner, and noted they looked forward to the continued opportunity to work with him.

4. Consent Agenda

a. Minutes

- August 28, 2017 Regular Board Meeting

b. Investment of Funds

- Financial Reports
- Investment Reports

c. Review of Paid Claims

Ms. Gingras presented the Consent Agenda as provided in the board packet. Mr. Lyons highlighted the payments made to the ACWA/JPIA for health insurance in order to coincide within the current Fiscal Year. Mr. Lyons also highlighted an ACH payment made to Wright Express Fleet Services, due to the amount of fuel needed to run the generators during the Whittier Fire in addition to the Stilling Basin project. Director Holcombe requested information regarding the payment made for the calibration of pressure transmitters. Mr. Stewart responded that pressure transmitters located at the reservoir are calibrated quarterly. Director Holcombe moved to approve the consent agenda as presented, seconded by Director Hanson; the motion passed by 6/0/1 vote:

Ayes: White, Holcombe, Hanson, Morgan

Nayes:

Absent/Abstain: Walsh

5. Verbal Reports from Board Committees

- *Operations Committee Meeting – September 21, 2017:* Ms. Gingras presented the item and noted that the item will be discussed separately on today's agenda.

6. Resolution No. 646 – Fish Passage Improvement Project at Quiota Creek Crossing 5

Ms. Gingras presented the item and highlighted new information that was received regarding the bid protest in the last thirty minutes prior to the meeting. At 2:00 p.m., Mr. Carter reached out to the audience to inquire if there were any representatives from Shock Contracting. There were no responses from the audience. Mr. Carter proceeded to inform the Board that at 1:30 PM that afternoon, COMB received a letter via email dated September 25th, from Shock Contracting Corporation. Due to the fact that the Board has not been able to review the new information, the matter was postponed. Director White requested to postpone the matter until after closed session, seconded by Director Holcombe, the motion passed by 6/0/1 vote as follows:

Ayes: Holcombe, Hanson, Morgan, White

Nayes:

Absent/Abstain: Walsh

7. Resolution No. 647 – Lake Cachuma Bathymetric Survey

Ms. Gingras reviewed the item as incorporated in the board packet and presented new information provided by Staff regarding FEMA funding. Ms. Gingras requested a continuance of the matter so that more research can be performed, and fielded questions from the Board. Director Hanson commented that if the concern is about water quality, could there be a possibility to secure funding for water quality testing and requested to hear more information from COMB Staff regarding that issue. Mr. McDonald questioned information on the difference in price between a partial Bathymetric Survey and a full Bathymetric Survey. Director White expressed his concerns about potentially missing the window for eligibility due to other national

disasters but also noted that it is important to implement funding appropriately. The Board agreed to continue the matter in order for COMB Staff to perform more research surrounding the Bathymetric Survey. No action from the Board was required.

8. **General Manager Report**

- Meetings
- Administration
- Operations Division Activities
- Fisheries Division Activities

Ms. Gingras presented topics within her report and highlighted the meeting that took place between the Santa Barbara County and the Member Agencies to review topics regarding the renewal of the Master Contract. Ms. Gingras also highlighted her attendance at a meeting that took place on September 11th between multiple agencies to discuss the Whittier Fire water quality impact on Lake Cachuma. A follow-up meeting will take place but has not yet been scheduled. Furthermore, Mr. Gingras touched on the O&M contract renewal process, stating that she will inform the Board with an updated schedule to discuss the contract, water rates and other related topics as soon as Reclamation provides additional information. Ms. Gingras fielded questions from the Board.

Ms. Gingras introduced the Operations Division Activities, noting a presentation was given by Mr. Ellison from HDR at a meeting with staff and the Member Agency's technical staff regarding the AVAR replacement program.

Ms. Gingras introduced the Fisheries Division Activities, providing the results from the recent electrical storm which caused a power outage at Bradbury Dam. Mr. Engblom provided additional information as the effects of the storm. Director Holcombe requested more detailed information as to the time of notification when a power outage occurs, in addition to the response time. Mr. Engblom stated that the Fisheries team creates an incident report in response to this type of situation, and will provide the report to the Board.

9. **Operations Division Report**

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Stewart noted features as presented in his report in the board packet and offered to field any questions from the Board

10. **Fisheries Division Report**

- LSYR Steelhead Monitoring Elements
- Tributary Project Updates
- Surcharge Water Accounting
- Reporting/Outreach/Training

Mr. Engblom presented the item as incorporated in the board packet, highlighting the Hilton Creek Watering System as well as Downstream water rights releases which started on

8/21/2017. Mr. Engblom also conducted a brief presentation regarding the ongoing progress with the cattle exclusion fencing project completed at Salsipuedes Creek. Mr. Engblom requested to field questions from the Board.

11. Progress Report on Lake Cachuma Oak Tree Program

- Maintenance and Monitoring

Mr. Razo updated the Board on the progress of the Oak Tree Program, as presented in the board packet, and highlighted the harvesting of acorns for the next planting season. Mr. Razo fielded questions from the Board.

12. Monthly Cachuma Project Reports

- a. Cachuma Water Reports
- b. Cachuma Reservoir Current Conditions
- c. Lake Cachuma Quagga Survey

Ms. Gingras reviewed the monthly water reports as included in the Board packet, and included recent email correspondence received from the Bureau of Reclamation in response to the inquiry from the city regarding unaccounted for water, and stated that there will be further discussions. Mr. Gingras fielded questions from the Board.

13. Directors' Request for Agenda Items for Future Meeting

- Director Holcombe reiterated the request for more information regarding water rates derived from the Bureau.

14. [CLOSED SESSION]: Conference with Legal Counsel: Existing and Potential Litigation

The Board went into closed session at 3:51 p.m.

- a. [Government Code Section 54956.9(d)(4)]
Name of matter: Protest of Member Agency re: Payment of Quarterly Assessments

15. RECONVENE INTO OPEN SESSION

[Government Code Section 54957.7]
Disclosure of actions taken in closed session, as applicable
[Government Code Section 54957.1]

The Board came out of closed session at 4:41 p.m.

Item 14: The COMB Board authorizes the initiation of civil litigation against ID No. 1 in order to enforce the payment of quarterly assessments and for legal counsel to take appropriate litigation actions. Director Holcombe moved to approve the filing of the Complaint as discussed, seconded by Director Hanson, the motion carried 4/0/1/2 as follows:

Ayes: Holcombe, Hanson, Morgan

Nays:

Absent: Walsh

Abstain: White

6. Resolution No. 646 – Fish Passage Improvement Project at Quiota Creek Crossing 5

Mr. Carter reiterated that there were no representatives from Shock Contracting Corporation that appeared at today’s board meeting. Mr. Carter also reiterated the late rebuttal correspondence that was received shortly before the meeting, in which Shock Contracting requested additional time to prepare their protest. Mr. Carter proceeded to provide the Board with two options, recommending either 1) continue the matter to a later date, or 2) reject all bids and direct COMB’s General Manger to send out a new RFP at the appropriate time. Mr. Carter fielded questions from the Board. Director White moved to reject all bids and requested the General Manager issue a new request for proposals when appropriate, seconded by Director Holcombe, the motion passed by 6/0/1 vote as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes:

Absent/Abstain: Walsh

16. Meeting Schedule

- **October 23, 2017 at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**
www.cachuma-board.org

17. COMB Adjournment

There being no further business, the meeting adjourned at 5:20 p.m.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
✓	<i>Unapproved</i>

Cachuma Operation & Maintenance Board
Statement of Net Position
As of September 30, 2017
UNAUDITED FINANCIALS

ASSETS

Current Assets

Checking/Savings

Trust Funds

1210 · Warren Act Trust Fund 937,149.52

1220 · Renewal Fund 10,215.61

Total Trust Funds 947,365.13

1050 · General Fund 978,323.90

1100 · Revolving Fund 199,309.45

Total Checking/Savings 2,124,998.48

Accounts Receivable

1320 · Qrtly Assessments Receivable 21,246.00

1325 · Bank Loan Receivable - EPFP 115,862.56

Total Accounts Receivable 137,108.56

Other Current Assets

1010 · Petty Cash 500.00

1200 · LAIF 2,019,065.23

1303 · Bradbury SOD Act Assmnts Rec 184,938.00

1304 · Lauro Dam SOD Assesmnt Rec 25,930.00

1400 · Prepaid Insurance 27,269.72

Total Other Current Assets 2,257,702.95

Total Current Assets 4,519,809.99

Fixed Assets

1500 · Vehicles 436,876.93

1505 · Office Furn & Equipment 440,652.20

1510 · Mobile Offices 97,803.34

1515 · Field Equipment 559,852.38

1525 · Paving 38,351.00

1550 · Accumulated Depreciation -1,367,626.55

Total Fixed Assets 205,909.30

Other Assets

1910 · LT Bradbury SOD Act Assess Rec 5,065,821.07

1920 · LT Lauro SOD Act Assess Rec 914,412.00

1922 · Deferred O/F of Res (GASB 68) 148,586.00

Total Other Assets 6,128,819.07

TOTAL ASSETS 10,854,538.36

Cachuma Operation & Maintenance Board
Statement of Net Position
As of September 30, 2017
UNAUDITED FINANCIALS

LIABILITIES & NET POSITION

Liabilities

Current Liabilities

Accounts Payable

2200 · Accounts Payable 27,582.49

Total Accounts Payable 27,582.49

Other Current Liabilities

2500 · Accrued Wages and Benefits 37,045.35

2550 · Vacation/Sick 159,283.55

2561 · Bradbury Dam SOD Act 184,948.66

2563 · Laura Dam SOD Act 25,930.00

2565 · Accrued Interest SOD Act 87,008.00

2567 · Loan Payable Current EPFP 442,932.00

2590 · Deferred Revenue 947,365.13

Total Other Current Liabilities 1,884,512.69

Total Current Liabilities 1,912,095.18

Long Term Liabilities

2602 · LT SOD Act Liability-Bradbury 4,804,163.37

2603 · LT SOD Act Liability - Lauro 867,007.34

2604 · OPEB LT Liability 907,923.00

2605 · Loan Payable Principal - EPFP 1,200,143.95

2610 · Net Pension Liability (GASB 68) 1,160,030.00

2611 · Deferred I/F of Res (GASB 68) 224,052.00

Total Long Term Liabilities 9,163,319.66

Total Liabilities 11,075,414.84

Net Position

3000 · Opening Bal Equity -1,357,356.05

3901 · Retained Net Assets 892,614.80

Net Income 243,864.77

Total Net Position -220,876.48

TOTAL LIABILITIES & NET POSITION 10,854,538.36

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2017 - Jun 2018

	Fisheries				Operations				TOTAL			
	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget
Revenue												
3000 REVENUE												
3001 · O&M Budget (Qtrly Assessments)	197,873.00	821,492.00	-623,619.00	24.09%	708,297.00	2,893,190.00	-2,184,893.00	24.48%	906,170.00	3,714,682.00	-2,808,512.00	24.39%
3006 · Warren Act	0.00	620,361.00	-620,361.00	0.0%	0.00				0.00	620,361.00	-620,361.00	0.0%
3009 · Pmts - Member Agencies - EPPF	0.00				115,862.56				115,862.56	0.00	115,862.56	100.0%
3010 · Interest Income	0.00				1,841.94				1,841.94	0.00	1,841.94	100.0%
3020 · Misc Income	12,141.74				232.53				12,374.27	0.00	12,374.27	100.0%
3035 · Cachuma Project Betterment Fund	0.00	90,000.00	-90,000.00	0.0%	0.00				0.00	90,000.00	-90,000.00	0.0%
3037 · Grant-QC Crossing #5	0.00	893,287.00	-893,287.00	0.0%	0.00				0.00	893,287.00	-893,287.00	0.0%
Total 3000 REVENUE	210,014.74	2,425,140.00	-2,215,125.26	8.66%	826,234.03	2,893,190.00	-2,066,955.97	28.56%	1,036,248.77	5,318,330.00	-4,282,081.23	19.48%
Total Revenue	210,014.74	2,425,140.00	-2,215,125.26	8.66%	826,234.03	2,893,190.00	-2,066,955.97	28.56%	1,036,248.77	5,318,330.00	-4,282,081.23	19.48%
Gross Profit	210,014.74	2,425,140.00	-2,215,125.26	8.66%	826,234.03	2,893,190.00	-2,066,955.97	28.56%	1,036,248.77	5,318,330.00	-4,282,081.23	19.48%
Expense												
3100 · LABOR - OPERATIONS	0.00				132,819.97	789,107.00	-656,287.03	16.83%	132,819.97	789,107.00	-656,287.03	16.83%
3200 VEH & EQUIPMENT												
3201 · Vehicle/Equip Mtce	0.00				11,927.36	30,000.00	-18,072.64	39.76%	11,927.36	30,000.00	-18,072.64	39.76%
3202 · Fixed Capital	0.00				0.00	15,000.00	-15,000.00	0.0%	0.00	15,000.00	-15,000.00	0.0%
3203 · Equipment Rental	0.00				558.73	5,000.00	-4,441.27	11.18%	558.73	5,000.00	-4,441.27	11.18%
3204 · Miscellaneous	0.00				2,595.15	5,000.00	-2,404.85	51.9%	2,595.15	5,000.00	-2,404.85	51.9%
Total 3200 VEH & EQUIPMENT	0.00				15,081.24	55,000.00	-39,918.76	27.42%	15,081.24	55,000.00	-39,918.76	27.42%
3300 · CONTRACT LABOR												
3301 · Conduit, Meter, Valve & Misc	0.00				2,006.64	20,000.00	-17,993.36	10.03%	2,006.64	20,000.00	-17,993.36	10.03%
3302 · Buildings & Roads	0.00				440.30	20,000.00	-19,559.70	2.2%	440.30	20,000.00	-19,559.70	2.2%
3303 · Reservoirs	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3304 · Engineering, Misc Services	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
Total 3300 · CONTRACT LABOR	0.00				2,446.94	95,000.00	-92,553.06	2.58%	2,446.94	95,000.00	-92,553.06	2.58%
3400 · MATERIALS & SUPPLIES												
3401 · Conduit, Meter, Valve & Misc	0.00				850.45	65,000.00	-64,149.55	1.31%	850.45	65,000.00	-64,149.55	1.31%
3402 · Buildings & Roads	0.00				890.55	8,000.00	-7,109.45	11.13%	890.55	8,000.00	-7,109.45	11.13%
3403 · Reservoirs	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
Total 3400 · MATERIALS & SUPPLIES	0.00				1,741.00	78,000.00	-76,259.00	2.23%	1,741.00	78,000.00	-76,259.00	2.23%
3500 · OTHER EXPENSES												
3501 · Utilities	0.00				1,814.56	7,000.00	-5,185.44	25.92%	1,814.56	7,000.00	-5,185.44	25.92%
3502 · Uniforms	0.00				175.00	5,000.00	-4,825.00	3.5%	175.00	5,000.00	-4,825.00	3.5%
3503 · Communications	0.00				4,805.75	18,000.00	-13,194.25	26.7%	4,805.75	18,000.00	-13,194.25	26.7%
3504 · USA & Other Services	0.00				527.15	4,000.00	-3,472.85	13.18%	527.15	4,000.00	-3,472.85	13.18%
3505 · Miscellaneous	0.00				1,388.97	8,000.00	-6,611.03	17.36%	1,388.97	8,000.00	-6,611.03	17.36%
3506 · Training	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
Total 3500 · OTHER EXPENSES	0.00				8,711.43	45,000.00	-36,288.57	19.36%	8,711.43	45,000.00	-36,288.57	19.36%
4100 · LABOR - FISHERIES	167,798.82	683,374.00	-515,575.18	24.55%	0.00				167,798.82	683,374.00	-515,575.18	24.55%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	5,441.68	15,000.00	-9,558.32	36.28%	0.00				5,441.68	15,000.00	-9,558.32	36.28%
4280 · Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 · Miscellaneous	2,630.82	2,500.00	130.82	105.23%	0.00				2,630.82	2,500.00	130.82	105.23%
Total 4200 · VEHICLES & EQUIP - FISHERIES	8,072.50	32,500.00	-24,427.50	24.84%	0.00				8,072.50	32,500.00	-24,427.50	24.84%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2017 - Jun 2018

	Fisheries				Operations				TOTAL			
	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	104.00	3,000.00	-2,896.00	3.47%	0.00				104.00	3,000.00	-2,896.00	3.47%
4222 · Fish Projects Maintenance	0.00	25,000.00	-25,000.00	0.0%	0.00				0.00	25,000.00	-25,000.00	0.0%
Total 4220 · CONTRACT LABOR - FISHERIES	104.00	28,000.00	-27,896.00	0.37%	0.00				104.00	28,000.00	-27,896.00	0.37%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	864.12	7,000.00	-6,135.88	12.35%	0.00				864.12	7,000.00	-6,135.88	12.35%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	864.12	7,000.00	-6,135.88	12.35%	0.00				864.12	7,000.00	-6,135.88	12.35%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	1,017.80	2,500.00	-1,482.20	40.71%	0.00				1,017.80	2,500.00	-1,482.20	40.71%
Total 4500 · OTHER EXPENSES - FISHERIES	1,017.80	2,500.00	-1,482.20	40.71%	0.00				1,017.80	2,500.00	-1,482.20	40.71%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				1,222.00	12,000.00	-10,778.00	10.18%	1,222.00	12,000.00	-10,778.00	10.18%
5001 · Director Mileage	0.00				79.61	1,000.00	-920.39	7.96%	79.61	1,000.00	-920.39	7.96%
5100 · Legal	0.00				11,227.30	75,000.00	-63,772.70	14.97%	11,227.30	75,000.00	-63,772.70	14.97%
5101 · Audit	0.00				700.00	21,625.00	-20,925.00	3.24%	700.00	21,625.00	-20,925.00	3.24%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				41,668.90	50,551.00	-8,882.10	82.43%	41,668.90	50,551.00	-8,882.10	82.43%
5310 · Postage/Office Exp	0.00				806.45	5,000.00	-4,193.55	16.13%	806.45	5,000.00	-4,193.55	16.13%
5311 · Office Equip/Leases	0.00				2,168.28	9,200.00	-7,031.72	23.57%	2,168.28	9,200.00	-7,031.72	23.57%
5312 · Misc Admin Expenses	0.00				2,422.53	8,600.00	-6,177.47	28.17%	2,422.53	8,600.00	-6,177.47	28.17%
5313 · Communications	0.00				2,334.07	8,500.00	-6,165.93	27.46%	2,334.07	8,500.00	-6,165.93	27.46%
5314 · Utilities	0.00				2,985.52	9,737.00	-6,751.48	30.66%	2,985.52	9,737.00	-6,751.48	30.66%
5315 · Membership Dues	0.00				129.35	8,500.00	-8,370.65	1.52%	129.35	8,500.00	-8,370.65	1.52%
5316 · Admin Fixed Assets	0.00				3,704.49	3,000.00	704.49	123.48%	3,704.49	3,000.00	704.49	123.48%
5318 · Computer Consultant	0.00				2,142.84	15,000.00	-12,857.16	14.29%	2,142.84	15,000.00	-12,857.16	14.29%
5325 · Emp Training/Subscriptions	0.00				1,198.60	2,000.00	-801.40	59.93%	1,198.60	2,000.00	-801.40	59.93%
5330 · Admin Travel/Conferences	0.00				0.00	2,000.00	-2,000.00	0.0%	0.00	2,000.00	-2,000.00	0.0%
5331 · Public Information	0.00				129.97	1,000.00	-870.03	13.0%	129.97	1,000.00	-870.03	13.0%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				72,919.91	237,713.00	-164,793.09	30.68%	72,919.91	237,713.00	-164,793.09	30.68%
5299 · ADMIN LABOR	0.00				132,240.02	568,370.00	-436,129.98	23.27%	132,240.02	568,370.00	-436,129.98	23.27%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	811.90	20,000.00	-19,188.10	4.06%	0.00				811.90	20,000.00	-19,188.10	4.06%
5410 · Postage / Office Supplies	434.25	4,000.00	-3,565.75	10.86%	0.00				434.25	4,000.00	-3,565.75	10.86%
5411 · Office Equipment / Leases	1,167.55	5,218.00	-4,050.45	22.38%	0.00				1,167.55	5,218.00	-4,050.45	22.38%
5412 · Misc. Admin Expense	1,905.25	5,610.00	-3,704.75	33.96%	0.00				1,905.25	5,610.00	-3,704.75	33.96%
5413 · Communications	1,610.05	4,305.00	-2,694.95	37.4%	0.00				1,610.05	4,305.00	-2,694.95	37.4%
5414 · Utilities	1,607.58	5,243.00	-3,635.42	30.66%	0.00				1,607.58	5,243.00	-3,635.42	30.66%
5415 · Membership Dues	69.65	5,500.00	-5,430.35	1.27%	0.00				69.65	5,500.00	-5,430.35	1.27%
5416 · Admin Fixed Assets	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
5418 · Computer Consultant	1,153.82	5,000.00	-3,846.18	23.08%	0.00				1,153.82	5,000.00	-3,846.18	23.08%
5425 · Employee Education/Subscription	645.40	2,500.00	-1,854.60	25.82%	0.00				645.40	2,500.00	-1,854.60	25.82%
5426 · Director Fees	658.00	6,500.00	-5,842.00	10.12%	0.00				658.00	6,500.00	-5,842.00	10.12%
5427 · Director Mileage	42.87	500.00	-457.13	8.57%	0.00				42.87	500.00	-457.13	8.57%
5430 · Travel	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5431 · Public Information	69.98	1,500.00	-1,430.02	4.67%	0.00				69.98	1,500.00	-1,430.02	4.67%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2017 - Jun 2018

	Fisheries				Operations				TOTAL			
	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget
5441 · Audt	0.00	7,175.00	-7,175.00	0.0%	0.00				0.00	7,175.00	-7,175.00	0.0%
5443 · Liab & Property Ins	22,437.10	24,745.00	-2,307.90	90.67%	0.00				22,437.10	24,745.00	-2,307.90	90.67%
Total 5400 · GENERAL & ADMIN - FISHERIES	32,613.40	103,296.00	-70,682.60	31.57%	0.00				32,613.40	103,296.00	-70,682.60	31.57%
5499 · ADMIN LABOR-FISHERIES	44,579.36	225,470.00	-180,890.64	19.77%	0.00				44,579.36	225,470.00	-180,890.64	19.77%
5510 · Integrated Reg. Water Mgt Plan	0.00				4,766.00	5,000.00	-234.00	95.32%	4,766.00	5,000.00	-234.00	95.32%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				152.04	20,000.00	-19,847.96	0.76%	152.04	20,000.00	-19,847.96	0.76%
6090 · COMB Office Building	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00				0.00	225,000.00	-225,000.00	0.0%	0.00	225,000.00	-225,000.00	0.0%
6097 · GIS and Mapping	0.00				1,800.00	10,000.00	-8,200.00	18.0%	1,800.00	10,000.00	-8,200.00	18.0%
6105 · ROW Management Program	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6118 · Repair Lateral 3 Structure	0.00				3,041.49	100,000.00	-96,958.51	3.04%	3,041.49	100,000.00	-96,958.51	3.04%
6120 · Emergency Pumping Fac Project	0.00				21,000.00	223,000.00	-202,000.00	9.42%	21,000.00	223,000.00	-202,000.00	9.42%
6120-2 · EPFP UF FY 2016-17	0.00				0.00	-223,000.00	223,000.00	0.0%	0.00	-223,000.00	223,000.00	0.0%
6122 · Rehab San Antonio Crk Blow-off	0.00				0.00	35,000.00	-35,000.00	0.0%	0.00	35,000.00	-35,000.00	0.0%
6130 · NP Slope Stabilization	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
6132 · Sycamore Canyon Slope Stabiliz	0.00				825.00	300,000.00	-299,175.00	0.28%	825.00	300,000.00	-299,175.00	0.28%
6133 · Meter Replacement Project	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6134 · N.P. IT/Control Bldg Seismic	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6135 · SCC San Jose Creek Pipe Stabili	0.00				0.00	60,000.00	-60,000.00	0.0%	0.00	60,000.00	-60,000.00	0.0%
Total 6000 · SPECIAL PROJECTS	0.00				26,818.53	1,020,000.00	-993,181.47	2.63%	26,818.53	1,020,000.00	-993,181.47	2.63%
6200 · FISHERIES ACTIVITIES												
6201 · FMP Implementation	36,087.63	60,000.00	-23,912.37	60.15%	0.00				36,087.63	60,000.00	-23,912.37	60.15%
6202 · GIS and Mapping	2,142.06	10,000.00	-7,857.94	21.42%	0.00				2,142.06	10,000.00	-7,857.94	21.42%
6203 · Grants Technical Support	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6205 · USGS Stream Gauge Program	26,412.50	100,000.00	-73,587.50	26.41%	0.00				26,412.50	100,000.00	-73,587.50	26.41%
6206 · Tri County Fish Team Funding	0.00	5,000.00	-5,000.00	0.0%	0.00				0.00	5,000.00	-5,000.00	0.0%
6207 · Oak Tree Restoration Program	2,090.10	40,000.00	-37,909.90	5.23%	0.00				2,090.10	40,000.00	-37,909.90	5.23%
Total 6200 · FISHERIES ACTIVITIES	66,732.29	233,000.00	-166,267.71	28.64%	0.00				66,732.29	233,000.00	-166,267.71	28.64%
6300 · HABITAT ENHANCEMENT												
6318 · Quiota Creek Crossing 9	3,612.99	30,000.00	-26,387.01	12.04%	0.00				3,612.99	30,000.00	-26,387.01	12.04%
6319 · Mission Creek at Hwy 192	0.00	30,000.00	-30,000.00	0.0%	0.00				0.00	30,000.00	-30,000.00	0.0%
6303 · Tributary Projects Support	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
6315 · Quiota Creek Crossing 8	0.00	60,000.00	-60,000.00	0.0%	0.00				0.00	60,000.00	-60,000.00	0.0%
6316 · Quiota Creek Crossing 5	53,071.28	960,000.00	-906,928.72	5.53%	0.00				53,071.28	960,000.00	-906,928.72	5.53%
6317 · Salsipuedes Fish Ladder Repair	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
Total 6300 · HABITAT ENHANCEMENT	56,684.27	1,110,000.00	-1,053,315.73	5.11%	0.00				56,684.27	1,110,000.00	-1,053,315.73	5.11%
7007 · INTEREST EXPENSE-EPFP	0.00				16,372.40				16,372.40	0.00	16,372.40	100.0%
Total Expense	378,466.56	2,425,140.00	-2,046,673.44	15.61%	413,917.44	2,893,190.00	-2,479,272.56	14.31%	792,384.00	5,318,330.00	-4,525,946.00	14.9%
Net Surplus/(Deficit)	-168,451.82	0.00	-168,451.82	100.0%	412,316.59	0.00	412,316.59	100.0%	243,864.77	0.00	243,864.77	100.0%

AMERICAN RIVIERA BANK

P.O. Box 329, Santa Barbara, California 93102
805-965-5942 www.americanrivierabank.com

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CACHUMA O & M BOARD

Page 1

CACHUMA OPERATION AND MAINTENANCE BOARD
RENEWAL ACCOUNT
3301 LAUREL CANYON RD
SANTA BARBARA CA 93105-2017

ACCOUNT ANALYSIS CHECKING

Account No
Statement Date 09/29/2017
Last Statement Date 08/31/2017

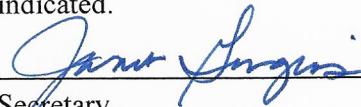
0	Statement Period		
Previous Balance	10,215.61	# Of Days-Stmt Period	29
0 Deposits/Credits	0.00	Average Balance	10,215.61
0 Checks/Withdrawals	0.00	YTD Interest	0.00
Ending Balance	10,215.61		
Total srv chg Today	0.00		

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of Sept., 2017, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.


Secretary

AMERICAN RIVIERA BANK

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CACHUMA O & M BOARD

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CACHUMA OPERATION AND MAINTENANCE BOARD
WARREN ACCT TRUST FUND
3301 LAUREL CANYON RD
SANTA BARBARA CA 93105-2017

ACCOUNT ANALYSIS CHECKING

Account No
Statement Date 09/29/2017
Last Statement Date 08/31/2017

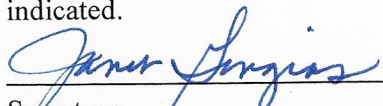
0	Statement Period		
Previous Balance	937,149.52	# Of Days-Stmt Period	29
0 Deposits/Credits	0.00	Average Balance	937,149.52
0 Checks/Withdrawals	0.00	YTD Interest	0.00
Ending Balance	937,149.52		
Total Srv Chg Today	0.00		

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of Sept., 2017, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.


Secretary

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Local Agency Investment Fund
 P.O. Box 942809
 Sacramento, CA 94209-0001
 (916) 653-3001

CACHUMA O & M BOARD

www.treasurer.ca.gov/pmia-laif/laif.asp
 October 02, 2017

CACHUMA OPERATION AND MAINTENANCE BOARD

GENERAL MANAGER
 3301 LAUREL CANYON ROAD
 SANTA BARBARA, CA 93105-2017

PMIA Average Monthly Yields

Account Number:

Tran Type Definitions

September 2017 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
9/29/2017	9/28/2017	RD	1549145	EDWARD LYONS	1,200,000.00

Account Summary

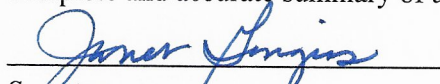
Total Deposit:	1,200,000.00	Beginning Balance:	819,065.23
Total Withdrawal:	0.00	Ending Balance:	2,019,065.23

MEMO TO: Board of Directors
 Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of Sept., 2017, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all LAIF investments of this agency for the period indicated.


 Secretary

Cachuma Operation & Maintenance Board

Paid Claims

As of September 30, 2017

Date	Num	Name	Memo	Amount
1050 - General Fund				
09/07/2017	25578	Rain for Rent Santa Paula	Rental equipment for Stilling Basin project (Ops Div)	-16,246.80
09/15/2017	25579	American Riviera Bank (ARB)	Principal/Interest pymt #14-Sept	-38,477.96
09/15/2017	25580	AT&T	Aug charges	-577.90
09/15/2017	25581	Cabela's Inc.	Waders/Wading boots (Fish Div)	-866.61
09/15/2017	25582	City of Santa-Barbara	Trash/Recycle-Aug 2017	-223.05
09/15/2017	25583	Coastal Copy, LP	Mtce agmt TASKalfa 4550ci/3051ci	-347.59
09/15/2017	25584	County of S.B.-P.W. Trans	Quiota Crk Xng #5 Permit Fees (Fish Div)	-20,303.00
09/15/2017	25585	Cox Communications Santa Barbara	Business internet-Sept	-195.00
09/15/2017	25586	Culligan of Sylmar	Monthly RO system-Aug	-26.95
09/15/2017	25587	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#40-Phase II	-7,000.00
09/15/2017	25588	ECHO Communications	Monthly answering service	-65.60
09/15/2017	25589	Employee Relations, Inc.	Background/Verification (Fish and Ops Div)	-182.85
09/15/2017	25590	Flowers & Associates, Inc.	Engineering services-Lat 3A Abandonment-Jul (Ops Div)	-2,216.49
09/15/2017	25591	Frontier Communications	Main Office/Outlying stations/SCADA	-1,166.51
09/15/2017	25592	Harrison Hardware	Marking paint/Stencil/Wire/Rope/Supplies (Fish Div)	-120.56
09/15/2017	25593	Harwood White	August mtg fees	-286.88
09/15/2017	25594	HDR Engineering, Inc.	Various-Jul/Aug services (Fish Div)	-8,768.76
09/15/2017	25595	ICF Jones & Stokes, Inc.	BO/FMP Compliance-July	-2,819.00
09/15/2017	25596	Lauren W. Hanson	August mtg fees	-310.70
09/15/2017	25597	MarBorg Industries	Portable Toilets-outlying stations	-241.40
09/15/2017	25598	Musick, Peeler & Garrett LLP	General Counsel-July	-5,589.00
09/15/2017	25599	Nestle Pure Life Direct	Aug-5 gal disp. (PPE criteria)	-73.79
09/15/2017	25600	O'Reilly Automotive, Inc.	Ventilation fan-North Portal	-20.13
09/15/2017	25601	Paychex, Inc. (Payroll)	8/11 and 8/25/17 payrolls/taxes/deliveries	-344.30
09/15/2017	25602	Polly Holcombe	August mtg fees	-286.27
09/15/2017	25603	Praxair Distribution, Inc	Cylinder rental (acetylene for welder) (Ops Div)	-27.55
09/15/2017	25604	Prudential Overall Supply	Mats/Scrapers-Aug	-100.56
09/15/2017	25605	Sansum Clinic-Occupational Medicine	Pre-employment physical-(Seasonal FD)	-269.00
09/15/2017	25606	Southern California Edison	Main office/Outlying stations	-1,617.18
09/15/2017	25607	Spatial Wave	Oct - Dec 2017 Field Mapplet Software mtce	-900.00
09/15/2017	25608	Staples Credit Plan	Office supplies/Water/Coffee/Envelopes	-481.42
09/15/2017	25609	Tri-Co Reprographics	Bond, Monochrome, Stapling -QC Xng 5	-71.40
09/15/2017	25610	Trenchalk Network Services, Inc.	IT Services/LogicMonitor/Reflexion Spam Filtering - Aug	-1,408.50
09/15/2017	25611	Underground Service Alert of So. Calif.	76 Ticket charges (Ops Div)	-135.40
09/15/2017	25612	Verizon Wireless	Cellular/Modem's/USB's	-553.24
09/15/2017	25613	W. Douglas Morgan	August mtg fees	-299.40
09/15/2017	25614	Wright Express Fleet Services	Fleet fuel	-4,690.18
09/21/2017	25615	Advanced Cable Systems	Installment of fax line to printer	-98.60
09/21/2017	25616	Bureau of Reclamation	10th Annual/2nd Annual Irr pymt-Lauro Dam SOD/ 16th Annual/2nd Annual Irr pymt-Brad Dam SOD	-309,052.36
09/21/2017	25617	J&C Services	Ofc cleaning services-7/28, 8/4, 8/11 and 8/18/2017	-420.00
09/21/2017	25618	Premiere Global Services	Conf calls-Aug	-163.20
09/21/2017	25619	Quinn Company	Repairs/Service of Hydraulic System-Posi Track Tractor (Ops Div)	-3,988.79
09/21/2017	25620	Verizon Wireless	Cellular/Modem's/USB	-289.92
09/29/2017	25621	ACWA/Joint Powers Insurance Authority	Auto/Gen Liab Program 10/1/17-10/1/18	-64,106.00
09/29/2017	25622	All Around Landscape Supply	Sand Bags (Ops Div)	-48.38
09/29/2017	25623	Association of Ca Water Agencies/JPIA	October Health Benefits coverage	-28,029.77
09/29/2017	25624	Bedrock Building Supplies	Sand-road mtce (Ops Div)	-114.21
09/29/2017	25625	County of SB-P.W. Water Agency	Prop 84 MOU Cost share	-4,766.00
09/29/2017	25626	J&C Services	Ofc cleaning services-8/25, 9/1, 9/8 and 9/15/2017	-420.00
09/29/2017	25627	Orchard Business/SYNCB	Misc. supplies for flag pole maint. (Ops Div)	-19.55

Cachuma Operation & Maintenance Board

Paid Claims

As of September 30, 2017

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
09/29/2017	25628	Paychex, Inc. (HR Essentials)	HR Essentials Base/Admin Fee	-198.80
09/29/2017	25629	PG&E	Tecolote tunnel/North Portal electricity	-467.59
09/29/2017	25630	Pitney Bowes Global Financial Services LL	Lease agmt-postage meter (10/10/17 - 01/09/18)	-436.16
09/29/2017	25631	Purchase Power	Postage meter ink cartridges	-126.48
09/29/2017	25632	Sansum Clinic-Occupational Medicine	Pre-employment physical-(Ops Div)	-269.00
09/29/2017	25633	Smarden-Hatcher Co.	Pipe fittings (Ops Div)	-153.98
Total 1050 - General Fund				<u>-530,479.72</u>
TOTAL				<u>-530,479.72</u>

APPROVED FOR PAYMENT

_____ Director

_____ Director

_____ Director

CACHUMA OPERATION & MAINTENANCE BOARD

Operations Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Wednesday, October 18, 2017
2:00 p.m.

AGENDA

1. Call to Order
2. Public Comment (Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction)
3. Whittier Fire Potential Impacts and Preparations (*for information and possible recommendation*)
4. Infrastructure Improvement Plan (IIP) Projects (*for information only*)
 - A. Sycamore Canyon Slope Stabilization
 - B. Repair of Lateral Structure No. 3
 - C. AVAR Valve / Blow-Off Replacement / Relocation
 - D. North Portal Slope Stabilization
5. Adjournment

NOTICE TO THE PUBLIC

Public Comment: The public is welcome to attend and observe the meeting. A public comment period will be included at the meeting where any member of the public may address the Committee on any subject within the Committee's jurisdiction. The total time for this item will be limited by the Chair.

Americans with Disabilities Act: In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Cachuma Operation & Maintenance Board (COMB) at 569-1391 at least 48 hours prior to the meeting to enable staff to make reasonable arrangements.

[This Agenda was posted at COMB offices, 3301 Laurel Canyon Road, Santa Barbara, CA and Noticed and Delivered in Accordance with Section 54954.1 and .2 of the Government Code.]

CACHUMA OPERATION & MAINTENANCE BOARD

Administrative Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Wednesday, October 18, 2017
2:00 p.m.*

***NOTE:** This committee meeting will occur following the conclusion of agenda items on the Operations Committee Meeting scheduled for Wednesday, October 18, 2017 at 2:00 p.m.

AGENDA

1. Call to Order
2. Public Comment (Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction)
3. Unexpended Funds - Fiscal Year 2016-17 (*for information and possible recommendation*)
4. Financial Review - 1st Quarter Fiscal Year 2017-18 (*for information*)
5. Consultant Contracts Executed by General Manager – 1st Quarter Fiscal Year 2017-18 (*for information*)
6. Adjournment

NOTICE TO THE PUBLIC

Public Comment: The public is welcome to attend and observe the meeting. A public comment period will be included at the meeting where any member of the public may address the Committee on any subject within the Committee's jurisdiction. The total time for this item will be limited by the Chair.

Americans with Disabilities Act: In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Cachuma Operation & Maintenance Board (COMB) at 569-1391 at least 48 hours prior to the meeting to enable staff to make reasonable arrangements.

[This Agenda was posted at COMB offices, 3301 Laurel Canyon Road, Santa Barbara, CA and Noticed and Delivered in Accordance with Section 54954.1 and .2 of the Government Code.]

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 23, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: **Unexpended Funds - Fiscal Year 2016-17**

SUMMARY:

COMB operates as a proprietary fund-type. All proprietary fund-types utilize the accrual basis of accounting. Under this method, revenues are recognized when earned, regardless of when received, and expenses are recognized at the time the related liabilities are incurred, regardless of when paid.

Unexpended funds occur when assessments (revenues) collected from the Member Agencies through the budget process exceed actual expenditures. Historically, unexpended funds designated to be constructively returned have been identified exclusively through the audit process and returned to the Member Agencies using various methods. These methods have included the issuance of checks made payable to each Member Agency, constructively returning the unexpended funds by reducing the Member Agency's quarterly assessments, carrying forward unexpended funds for work in process, or by reducing the projected operating budget for the following fiscal year. As an example, unexpended funds identified for fiscal year 2015-16 were segregated into two categories; funds carried forward for work in process and funds returned through a constructive return offset to budget assessments.

For fiscal year 2016-17, staff has identified substantial unexpended funds and recommends returning the funds prior to completion of the audited financials by utilizing a cash basis statement of actual revenues and expenditures. This method is consistent with governmental accounting principles and provides a basis for recognizing unexpended assessments at the end of an accounting period. In addition, returning unexpended funds in advance of the completion of the financial audit assists the Member Agencies with financial position and planning. Bartlett, Pringle Wolf, LLC has reviewed the cash basis method and has indicated the approach is reasonable.

The unexpended funds for fiscal year 2016-17 and proposed distribution are shown in the attached worksheet. As part of the comprehensive Board Policy manual, staff is developing a fiscal policy which will include a consistent methodology for fiscal year end identification and disbursement of unexpended funds. These policies will be presented to the Board for approval and adoption once completed. In the interim, staff recommends disbursement of fiscal year 2016-17 unexpended funds as presented and identified in the cash basis financial statement ending June 30, 2017.

COMMITTEE STATUS:

The Administrative Committee reviewed the Cash Basis Statement of Revenues and Expenditures and forwards the proposed disbursement of unexpended funds from Fiscal Year 2016-17 to the Board with a recommendation to approve.

RECOMMENDATION:

The Board approve the disbursement of unexpended funds from Fiscal Year 2016-17 as presented.

LIST OF EXHIBITS:

- 1) Fiscal Year 2016-17 Cash Basis Statement of Revenues and Expenditures

**Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures**

Budget vs. Actuals
July 2016 - June 2017

				PRELIM		ADJUSTMENTS			ADJUSTED
	Fisheries	Operations	Total	Approved Budget	Surplus / Deficit Funds	Unexpended Funds CR	Budget Carryover	EPFP Principal	Surplus / Deficit Funds
	Jul '16 - Jun 17	Jul '16 - Jun 17	Jul '16 - Jun 17	FY 2016-17	FY 2016-17	FY 2015-16	FY 2015-16	Pmts	FY 2016-17
Income									
3000 REVENUE									
3001 · O&M Budget (Qtrly Assessments)	1,112,897	3,918,104	5,031,001	5,723,693	(692,692)	541,271	-	-	(151,421)
3006 · Warren Act	238,306	-	238,306	238,306	-	-	-	-	-
3007 · Renewal Fund	52,872	-	52,872	52,872	-	-	-	-	-
3009 · Pmts - Member Agencies - EPFP	-	920,676	920,676	-	920,676	-	-	-	920,676
3010 · Interest Income	-	7,072	7,072	-	7,072	-	-	-	7,072
3015 · Watershed Sanitary Survey	-	7,259	7,259	-	7,259	-	-	-	7,259
3020 · Misc Income	10,480	5,351	15,831	-	15,831	-	-	-	15,831
3033 · Grant-QC Crossing # 0 (a&b)	604,638	-	604,638	671,635	(66,997)	-	-	-	(66,997)
3034 · Grant-QC Crossing #4	937,838	-	937,838	938,295	(457)	-	-	-	(457)
3035 · Cachuma Project Betterment Fund	90,000	-	90,000	90,000	-	-	-	-	-
3036 · Landowner Match-QC Crossing 0a	50,000	-	50,000	-	50,000	-	-	-	50,000
3037 · Grant-QC Crossing #5	-	-	-	-	-	-	-	-	-
Total 3000 REVENUE	3,097,031	4,858,462	7,955,493	7,714,801	240,692	541,271	-	-	781,963
Total Income	3,097,031	4,858,462	7,955,493	7,714,801	240,692	541,271	-	-	781,963
Gross Profit	3,097,031	4,858,462	7,955,493	7,714,801	240,692	541,271	-	-	781,963
Expense									
Total 3100 · LABOR - OPERATIONS	-	644,167	644,167	812,375	168,208	-	-	-	168,208
Total 3200 VEH & EQUIPMENT	-	54,852	54,852	55,000	148	-	-	-	148
Total 3300 · CONTRACT LABOR	-	139,068	139,068	95,000	(44,068)	-	65,240	-	21,172
Total 3400 · MATERIALS & SUPPLIES	-	7,111	7,111	90,000	82,889	-	-	-	82,889
Total 3500 · OTHER EXPENSES	-	36,012	36,012	45,000	8,988	-	-	-	8,988
Total 4100 · LABOR - FISHERIES	659,415	-	659,415	623,119	(36,296)	-	-	-	(36,296)
Total 4200 · VEHICLES & EQUIP - FISHERIES	25,956	-	25,956	30,500	4,544	-	-	-	4,544
Total 4220 · CONTRACT LABOR - FISHERIES	11,448	-	11,448	28,000	16,552	-	-	-	16,552
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	4,902	-	4,902	7,000	2,098	-	-	-	2,098
Total 4500 · OTHER EXPENSES - FISHERIES	1,200	-	1,200	2,500	1,300	-	-	-	1,300
Total 4999 · GENERAL & ADMINISTRATIVE	-	231,438	231,438	269,942	38,504	-	-	-	38,504
Total 5299 · ADMIN LABOR	-	445,639	445,639	484,222	38,583	-	-	-	38,583
Total 5400 · GENERAL & ADMIN - FISHERIES	106,002	-	106,002	120,781	14,779	-	-	-	14,779
Total 5499 · ADMIN LABOR-FISHERIES	169,537	-	169,537	202,112	32,575	-	-	-	32,575
Total 5510 · Integrated Reg. Water Mgt Plan	-	1,343	1,343	5,000	3,657	-	-	-	3,657
Total 6000 · SPECIAL PROJECTS	-	1,952,940	1,952,940	2,561,250	608,310	-	432,273	-	1,040,584
Total 6200 · FISHERIES ACTIVITIES	142,764	-	142,764	238,800	96,036	-	-	-	96,036
Total 6300 · HABITAT ENHANCEMENT	1,728,707	-	1,728,707	2,044,200	315,493	-	-	-	315,493
Total 7007 · INTEREST EXPENSE-EPFP	-	69,126	69,126	-	(69,126)	-	-	(859,180)	(928,306)
Total Expense	2,849,931	3,581,630	6,431,561	7,714,801	1,283,173	0	497,513	(859,180)	921,507
Net Income	247,100	1,276,832	1,523,932	-	1,523,865	541,271	497,513	(859,180)	1,703,470

Goleta Water District	40.42%	\$	688,543
City of Santa Barbara	35.88%	\$	611,205
Carpinteria Valley Water District	12.20%	\$	207,823
Montecito Water District	11.50%	\$	195,899
Santa Ynez RWCD ID No. 1	0.00%	\$	-
Total	100.00%	\$	1,703,470

Item #5
Exhibit 1
Page 1

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 23, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: Financial Review – 1st Quarter Fiscal Year 2017-18

SUMMARY:

The Board of Directors approves the Cachuma Operation and Maintenance Board (COMB) Budget each fiscal year. Unaudited financial statements are received and ratified by the Board on a monthly basis. Starting with FY 2017-18, Staff will provide, on a quarterly basis, a fiscal year-to-date financial review of the unaudited interim financial reports to the Administrative Committee and the Board of Directors, comparing fiscal performance to Budget.

FISCAL ANALYSIS:

Revenues Collected

- COMB assessed \$906.2K and collected \$884K in quarterly O&M Budget Assessments for the period July – September 2017. First quarter assessments for Santa Ynez River Water Conservation District, ID No. 1 assessment of \$21.2K are outstanding.
- COMB collected \$115.8K in quarterly EPFP Loan Assessments related to loan repayments made on behalf of Goleta Water District and Montecito Water District pertaining to the Emergency Pumping Facility for the period July – September 2017.
- COMB collected \$12K in Miscellaneous Income. This amount is comprised of a permit refund from the County of Santa Barbara of \$7.7K for Quiota Creek Crossing 4 and proceeds received from the disposal of a fixed asset of \$4K.

Expenditures To Date (% of Budget Apportioned thru September – 3 months or 25%)

General and Administrative (Combined)

- General and Administrative expenses include costs for support of all administrative functions of COMB such as: Director fees, legal expenditures, general liability and property insurance, audit fees, utilities, IT and communications, postage and office supplies, training, education and subscriptions and miscellaneous expenses. Costs are generally allocated between Operations and Maintenance (65%) and Fisheries Division (35%).

General and Administrative Expenses of \$105.5K (30.95%) were higher than the apportioned budget. Notable expenses include the annual payment of the ACWA JPIA General Liability Insurance of \$64k for the period October 1, 2017 – September 30, 2018. The invoice reflects a 3% increase over the previous year.

- General and Administrative Labor of \$176.8K (22.27%) was lower than the apportioned budget due to an open administrative position which is expected to be filled in the second quarter.

- **The total combined General and Administrative expenses and labor of \$287K (25.19%) thru September are within the apportioned budget.**

Operations Division

- **Operation and Maintenance Labor** includes salaries, employer taxes, health insurance and retirement benefit costs. Personnel costs of \$132.8K (16.8%) were lower than the apportioned budget due to an open position in the Operations Division which was filled at the end of September. No additional hires are projected at this time.
- **Vehicles & Equipment** includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Year to date actual costs of \$15K (27.4%) were higher than the apportioned budget due to unanticipated fuel costs (\$2.4K) to operate emergency generators located at the North Portal Intake Tower, during an electrical outage, resulting from the Whittier Fire.
- **Contract Labor** contains funds for outside services and labor that cannot be supported by COMB staff which may include elevator repair, tree trimming and removal services, heavy equipment and operators' labor costs for various small projects including meter calibration and meter repair. Projects and staff assignments are reviewed by the General Manager and Operations Division Manager to control costs in this category. Actual costs of \$2.4K (2.6%) are within the apportioned budget.
- **Materials and Supplies** covers costs related to the operation and maintenance of the conduit, reservoirs, and outlying buildings and roads. Actual costs of \$1.7K (2.2%) are within the apportioned budget.
- **Other Expenses** includes utilities, uniforms, hazardous waste disposal, communications (phones at facilities, and cell phones for operations and maintenance), Underground Service Alerts, and employee training and certifications. Actual costs of \$8.7K (19.4%) are within the apportioned budget.
- **Special Projects** - The Board of Directors received into file a copy of the FY 2017-18 Infrastructure Improvement Plan at their meeting in May, 2017. Board policy requires that all projects are to be approved thru Committee and by the Board prior to commencement. Actual costs thru September were \$26.8k. The majority of this amount (\$21k) is attributed to the storage of key components of the pumping barge at \$7K per month.
- **The total Operations Division expenses of \$413.9K (14.3%) thru September are within the apportioned budget.**

Fisheries Division

- **Fisheries Division Labor** includes salaries, employer taxes, health insurance and retirement benefit costs for a Senior Resource Scientist, a three member field crew, and four part-time seasonal bio-aide positions. Personnel costs of \$167.8K (24.6%) were within the apportioned budget.
- **Vehicles & Equipment** includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Year to date actual costs of \$8K (24.8%) were within the apportioned budget. Included in this amount is approximately \$1.9K of unanticipated fuel cost related to the stilling basin fish removal project.
- **Contract Labor** contains funds for outside services/labor to support equipment calibration on flow meters, and funds for technical assistance corresponding to the operation, maintenance and performance review of completed fish passage projects. No notable costs have been incurred in this category thru September.

- Materials and Supplies includes costs for the purchase of items needed for the Fisheries Monitoring Program specifically monitoring for migration, spawning and over-summering such as constructing and repairing fish migration traps and the equipment necessary to conduct snorkel and redds surveys. Actual costs of \$1K (12.3%) are within the apportioned budget.
- Other Expenses includes funds to pay for uniforms and gear for the fisheries employees. Actual costs of \$1K (40.7%) are higher than the apportioned budget and include the purchase of wading boots for fisheries staff.
- Fisheries Division Activities includes funding for special activities related to ongoing Cachuma Project Biological Opinion (BO) compliance efforts, the implementation of the Lower Santa Ynez River Fisheries Monitoring Program, GIS mapping, grants technical support, USGS Stream Gauge Program and the Oak Tree Restoration Program. Actual costs of \$66.7K (28.6%) are higher than the apportioned budget. Unusual expenses in this category include unanticipated fuel and equipment rental costs related to the stilling basin fish removal project (\$32.4K).
- Special Projects - The Board of Directors received into file a copy of the FY 2017-18 Habitat Improvement Plan at their meeting in May, 2017. Board policy requires that all projects are to be approved thru Committee and by the Board prior to commencement. Habitat Enhancement Project costs of \$56.7k thru September include design support and permitting fees related to COMB Quiota Creek Crossing 5 (\$53K) and Quiota Creek Crossing 9 (\$3.6k) and are within projected costs for each project.
- **The total Fisheries Division expenses of \$378.4K (15.61%) thru September are within the apportioned budget.**

Restricted Funds and Obligations

- **Warren Act Trust Fund (Restricted Fund)** - The Warren Act Trust Fund is a requirement of the Cachuma Project Warren Act Contract negotiated between the Central Coast Water Authority (CCWA) and the Bureau of Reclamation for delivery and transport of State Water Project water through the Cachuma Project facilities. A 1995 memorandum of understanding executed in conjunction with the Warren Act Contract established a charge of \$43 per acre foot (AF) (\$58 initially with a \$15 service charge by Reclamation), which is not indexed. Payments are required upon delivery of SWP water to Cachuma Reservoir. CCWA makes quarterly payments to COMB based on the prior quarter's water deliveries to the lake.

The balance in the restricted account as of September 30th (\$937K) is comprised of funds collected (\$620K) in calendar year 2016. These funds were approved by the Cachuma Project Warren Act Trust Funds Advisory Committee at their meeting in May 2017 to be appropriated towards eligible FY 2017-18 fisheries activities.

The remaining balance in the Warren Act Trust Fund (\$316K) and any additional funds deposited in calendar year 2017 will be reviewed by the committee in April 2018 for use in FY 2018-19.

- **Renewal Funds (Restricted Fund)** - The Renewal Fund is a requirement of the 1995 Renewal Master Contract (executed in 1996) entered into for water conveyance from the Cachuma Project to the five Cachuma Project Member Units, which are the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District, and the Santa Ynez River Water Conservation District, Improvement District No. 1 (ID No. 1).

The Renewal Master Contract requires the payment of \$10 per acre foot of water made available by the Cachuma Project. The Renewal Fund itself is capped at \$257,100, which is related to the current annual operational yield of 25,714 AF. The aggregate amount to be deposited in the Renewal Fund at the start of each Water year by the Cachuma Member Units is not to exceed an amount which bears a ratio to \$257,100, which is inverse to the ratio which the aggregate amount paid into the Warrant Act Trust Fund during the immediately preceding Calendar Year bears to \$300,000.

For WY 2017-18, the amount required to be deposited into the Renewal Fund by the Cachuma Member Units is zero based on the fact that the amount of funds deposited into the Warren Act Trust Fund exceeded the calculation threshold.

- **EPFP Bank Loan Obligation** – During fiscal year ending 2015, COMB contracted for the construction of the Emergency Pumping Facilities Project to provide continued delivery of water from Lake Cachuma to the Member Agencies until sufficient inflow occurred and the reservoir levels returned to normal operating condition. In order to implement this large scale project, three of the four South Cost Member agencies agreed to finance their proportionate share through a commercial financing arrangement with the Bank of Santa Barbara, which merged with American Riviera Bank during 2016.

The Districts participating in the financing included Goleta Water District, Montecito Water District and Carpinteria Valley Water District. The City of Santa Barbara chose to fund their portion through quarterly assessments.

While COMB secured the financing of the project, the three districts participating in the debt obligation provided the guarantee for repayment of their allocated percentage.

The financing arrangement was converted to a sixty (60) month repayment loan as of July 25, 2016. Carpinteria Valley Water District opted to pay off their obligation in-full on or about the conversion date.

COMB assesses the remaining member agencies at the end of each quarter, for the monthly loan payments made on their behalf during that period. As of September 30, 2017, the total combined principal outstanding for the Goleta Water District and Montecito Water District is approximately \$1.7M.

- **Bradbury/Lauro SOD Contracts** - Under the terms and conditions of a repayment contract executed in 2002, COMB is responsible for payment to the United States of fifteen percent (15%) of the total amount of Safety of Dams (SOD) Act funds expended by the United States for structural stability and related work at Bradbury Dam.

The fifteen percent obligation under the Bradbury SOD contract is \$7,605,739 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2017-18 is \$261,647 and assesses the Member in accordance with each Member Agencies' Cachuma Project entitlement percentages.

The fifteen percent obligation under the Lauro SOD contract is \$1,009,737 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2017-18 is \$44,404.66 and assesses the South Coast Member Agencies (only) in accordance with each Member Agencies' pro-rata Cachuma Project entitlement percentages.

COMMITTEE STATUS:

The Administrative Committee forwards the report and attached exhibit to the Board for receipt and filing.

BOARD RECOMMENDATION:

Receive and file the 1st Quarter Fiscal Year 2017-18 Financial Review and exhibit.

LIST OF EXHIBITS:

- 1) Fiscal Year 2017-18 Statement of Revenue and Expenditures

**Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
Budget vs. Actuals
July 2017 - September 2017**

	Fisheries				Operations				TOTAL			
	FY 2017-18				FY 2017-18				FY 2017-18			
	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget	Jul - Sep 17	Budget	\$ Over Budget	% of Budget
Revenue												
Revenue	210,014.74	2,425,140.00	-2,215,125.26	8.66%	826,234.03	2,893,190.00	-2,066,955.97	28.56%	1,036,248.77	5,318,330.00	-4,282,081.23	19.48%
Total Revenue	210,014.74	2,425,140.00	-2,215,125.26	8.66%	826,234.03	2,893,190.00	-2,066,955.97	28.56%	1,036,248.77	5,318,330.00	-4,282,081.23	19.48%
Expense												
General and Admin Expenses	32,613.40	103,296.00	-70,682.60	31.57%	77,685.91	242,713.00			110,299.31	346,009.00	-235,475.69	30.95%
General and Admin Labor	44,579.36	225,470.00	-180,890.64	19.77%	132,240.02	568,370.00			176,819.38	793,840.00	-617,020.62	22.27%
O&M Labor	0.00				132,819.97	789,107.00	-656,287.03	16.83%	132,819.97	789,107.00	-656,287.03	16.83%
O&M Vehicle & Equip	0.00				15,081.24	55,000.00	-39,918.76	27.42%	15,081.24	55,000.00	-39,918.76	27.42%
O&M Contract Labor	0.00				2,446.94	95,000.00	-92,553.06	2.58%	2,446.94	95,000.00	-92,553.06	2.58%
O&M Material and Supplies	0.00				1,741.00	78,000.00	-76,259.00	2.23%	1,741.00	78,000.00	-76,259.00	2.23%
O&M Other Expenses	0.00				8,711.43	45,000.00	-36,288.57	19.36%	8,711.43	45,000.00	-36,288.57	19.36%
O&M Special Projects	0.00				26,818.53	1,020,000.00	-993,181.47	2.63%	26,818.53	1,020,000.00	-993,181.47	2.63%
Fisheries Labor	167,798.82	683,374.00	-515,575.18	24.55%	0.00				167,798.82	683,374.00	-515,575.18	24.55%
Fisheries Vehicle & Equip	8,072.50	32,500.00	-24,427.50	24.84%	0.00				8,072.50	32,500.00	-24,427.50	24.84%
Fisheries Contract Labor	104.00	28,000.00	-27,896.00	0.37%	0.00				104.00	28,000.00	-27,896.00	0.37%
Fisheries Material and Supplies	864.12	7,000.00	-6,135.88	12.35%	0.00				864.12	7,000.00	-6,135.88	12.35%
Fisheries Other Expenses	1,017.80	2,500.00	-1,482.20	40.71%	0.00				1,017.80	2,500.00	-1,482.20	40.71%
Fisheries Activities	66,732.29	233,000.00	-166,267.71	28.64%	0.00				66,732.29	233,000.00	-166,267.71	28.64%
Fisheries Habitat Enhancement	56,684.27	1,110,000.00	-1,053,315.73	5.11%	0.00				56,684.27	1,110,000.00	-1,053,315.73	5.11%
Other Interest Expense - EPFP	0.00				16,372.40				16,372.40	0.00	16,372.40	100.0%
Total Expense	378,466.56	2,425,140.00	-2,046,673.44	15.61%	413,917.44	2,893,190.00	-2,479,272.56	14.31%	792,384.00	5,318,330.00	-4,525,946.00	14.9%
Net Surplus / (Deficit)	-168,451.82	0.00	-168,451.82	100.0%	412,316.59	0.00	412,316.59	100.0%	243,864.77	0.00	243,864.77	100.0%

(* Percentage of annual budget apportioned through September 2017 = 3 months or 25%)

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 18, 2017
Submitted by:	Joel Degner, Dave Stewart, David Flora
Approved by:	Janet Gingras

SUBJECT: Whittier Fire Potential Impacts and Preparations

SUMMARY:

The runoff from the Whittier Fire burned area has the potential to (1) increase sedimentation in Lake Cachuma reducing capacity; (2) result in sedimentation around the North Portal Intake Tower which could impact operations; (3) deposit large woody debris into Lake Cachuma that could damage the Intake Tower; (4) washout the North Portal Access Road, Highway 154, and North Portal power lines restricting access and operations at the North Portal; and, (5) significantly impact the water quality and affect South Coast water treatment plant operations. This memorandum describes the potential impacts of the Whittier Fire and preparations by staff to monitor and mitigate COMB's responsible portion of the potential impacts.

BASELINE BATHYMETRIC SURVEY:

The 2017 Whittier Fire burned approximately 8,300 acres of the Lake Cachuma watershed. Based on the Whittier Fire Burned Area Emergency Response (BAER) report by the U.S. Forest Service, erosion rates and debris flow potential are expected to significantly increase in the years following the fire. Increased erosion and debris flows would result in increased sedimentation of Lake Cachuma. COMB staff considered requesting funding for a bathymetric survey in 2017 to establish baseline capacity of Lake Cachuma. Establishing a baseline capacity would allow COMB to demonstrate significant capacity loss if a potential disaster event in the winter of 2017-2018 occurred. The baseline capacity study could be used to acquire federal or state emergency funding.

The bathymetry of Lake Cachuma was recently surveyed in 2013. Following the survey there has been dredging around the intake tower in 2014, the Rey Fire burned a portion of the Lake Cachuma watershed in 2016, and high inflows occurred in February 2017 which could have altered the lake bottom since 2013. The overall cost for the before and after bathymetric surveys was estimated to be \$220,000.

COMB discussed the potential for disaster funding due to lake sedimentation with Federal Emergency Management Agency (FEMA) representatives. FEMA funding would not be available for portions of the Cachuma Project operated and maintained by the U.S. Bureau of Reclamation. FEMA funding could potentially be available for Cachuma Transferred Project Works. According to the Transfer of Operation and Maintenance Contract (No. 14-06-200-5222R), these works include the area situated within a 1,500-foot radius of the intake of the Tecolote Tunnel. If flood events resulted in siltation of the intake tower, then FEMA funding disaster funding could be requested by COMB.

COMB has previously removed silt from the North Portal Intake Tower and from the Emergency Pumping Facility Site 1. The cost of removing silt from the Emergency Pumping Facility Site 1 was \$33,000 to drop the lake bottom in the vicinity of five feet. However, during that time, the dredging equipment was previously mobilized for the pumping barge. Future dredging would require additional mobilization costs. Nonetheless, the survey work to apply for FEMA funding would likely be much greater than the cost to remove the sediment buildup from around the North Portal Intake Tower to maintain operations. A lake-wide baseline capacity survey for emergency funding purposes does not appear to make economic sense for COMB.

NORTH PORTAL INTAKE TOWER SEDIMENTATION RISKS:

Portions of the North Portal Intake Tower could be buried with sediment which could obstruct the intake tower and also cause lower gates to become inoperable. The lake bottom was at an elevation of 674 feet (NGVD 29) near the North Portal Intake Tower in the 2013 survey and at 670 feet (NGVD 29) in the 2008 survey. The lake bottom near the tower increased approximately 4 feet between the 2008 and 2013 likely due in part to sedimentation from the Zaca Fire.

In 2014, the Intake Tower area was dredged to install the Emergency Pumping Facility pipeline. The pipeline was connected to Gate 5, which was designed to be partially buried. The key elevations for operational purposes are the top of the Gate 5 screen which is at an elevation of 673 feet NGVD, the fish screen ledge below Gate 4 (~676 feet NGVD), and the bottom of Gate 4 (678 feet NGVD 29) (Figure 1).

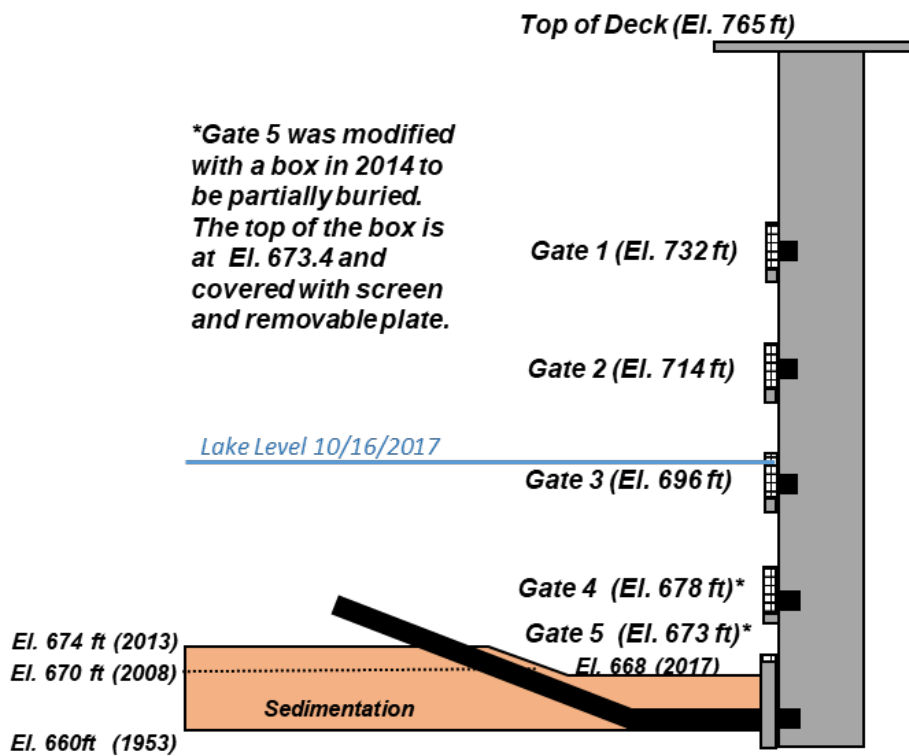


Figure 1. Profile of the North Portal Intake Tower with Estimated Lake Bottom

The lake bottom near Gate 4 and 5 was sounded from the Intake Tower deck on October 12, 2017. The elevation of the lake bottom near Gates 4 and 5 was estimated to be at an elevation of 667 to 668 feet (NGVD 29) immediately surrounding the gates. There is approximately 5 feet of depth between the top of the Gate 5 screen inlet and lake bottom going into the 2017-2018 winter. Given the potential impacts sedimentation may have on operations, the lake bottom near the intake tower will be periodically sounded in 2017-2018, especially following major runoff events. A significant debris flow event or large inflow event would have the potential to bury the Gate 5 inlet screen and portions of Gate 4 in sediment. If that were to occur, the SCC conduit may need to be temporarily shut down and emergency dredging would need to be implemented.

HISTORICAL BATHYMETRIC SURVEYS AND SEDIMENTATION IMPACTS:

When constructed in 1953, the storage capacity of Lake Cachuma at 750 feet in elevation was 204,874 acre-feet. According to the most recent survey in 2013, the storage capacity has been reduced to 184,121 acre-feet (Table 1). Approximately, 20,753 acre-feet of reservoir capacity below 750 feet in elevation has been lost in Lake Cachuma due to sedimentation from 1953 to 2013.

Table 1. Historical Lake Cachuma Bathymetric Survey Results

Bathymetric Survey Dates	Capacity at 750' (acre-feet)	Change in Storage Capacity (acre feet)	Average Annual Sedimentation Between Surveys (acre-feet per year)	Cumulative Average Annual Sedimentation (acre-feet per year)
1953	204,874			
1969	192,754	12,120	758	758
1989	190,409	2,345	117	402
2000	188,030	2,379	216	358
2008	186,636	1,394	174	332
2013	184,121	2,515	503	346

The risks from sedimentation greatly increase following wildfires. Based on the Whittier Fire BAER report, erosion rates in the Whittier burned area increased from 0.1 to 6.2 tons/acre for a 2-year runoff event. For the Whittier Fire burned area, this would mean an increase in sediment deposits in Lake Cachuma from 0.5 acre-feet in unburned conditions to 28 acre-feet in burned conditions in a 2-year event. In addition, the BAER report concludes that a debris flow has an 80-100% probability of occurrence if a high intensity rainfall rate of 1.1 inches in a 15-minute interval occurred. According to NOAA Atlas 14, 1.1 inches of rainfall within 15 minutes would be at least a 100-year storm event for this geographic location. The volume of sediment transported by a debris flow is estimated to be 10,000 to 100,000 cubic meters (8 to 80 acre-feet).

Sedimentation rates in the BAER report are for one-time storm events and are difficult to use in estimating overall potential sedimentation impacts on an annual basis. A comparison between historic fires, bathymetry surveys, and historical inflows in Lake Cachuma is shown in Figure 2. A large fire (greater than 5,000 acres) has never been followed directly by a wet year (greater than 120,000 acre-feet) in the history of Lake Cachuma. The largest fire as a percentage of the Lake Cachuma watershed below Gibraltar Dam was the Zaca Fire in 2007 (27%). The Rey Fire and Whittier Fire combined have burned 21% of the Lake Cachuma Watershed below Gibraltar Dam and is the second largest burned area since Bradbury Dam was constructed. The Zaca Fire was followed by an above normal year in 2008 and wet year in 2011. Based on the historical bathymetric survey data, sedimentation rates were low in the period from 1969 to 2008 and have more than doubled in the period from 2008 to 2013 (Table 1) due in part to the Zaca Fire.

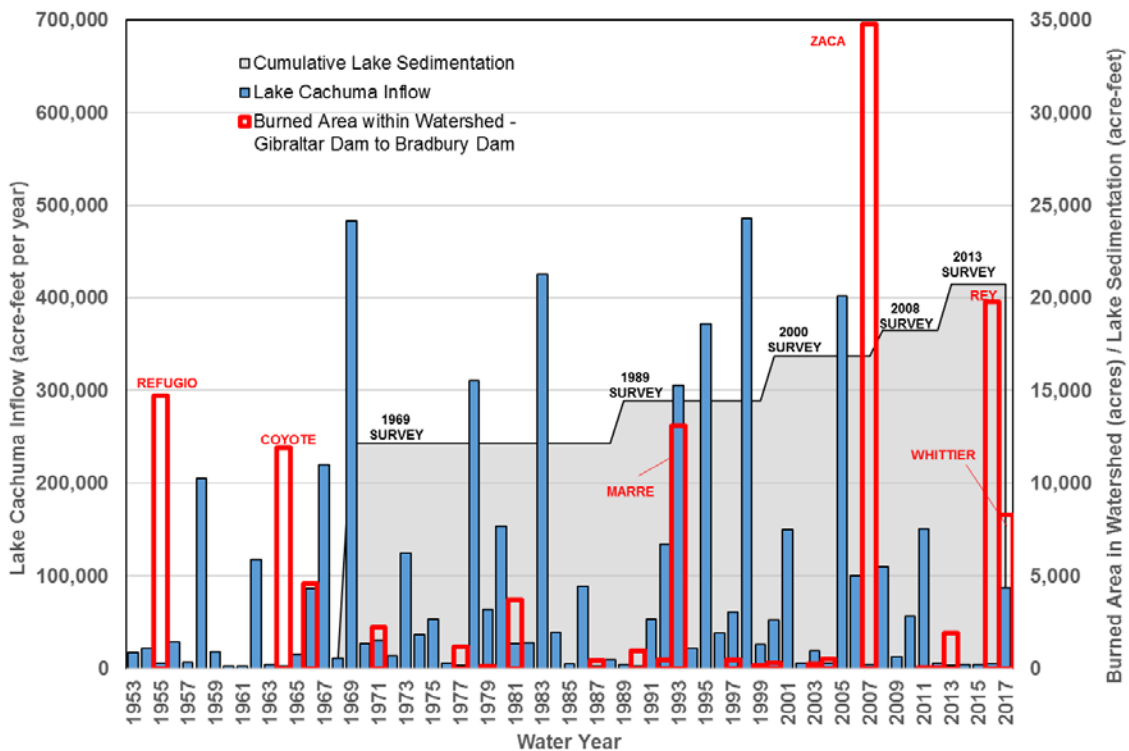


Figure 2. Lake Cachuma Inflows, Historic Fires and Sedimentation Data

INTAKE TOWER DEBRIS PROTECTION:

During the 2016-2017 water year large woody debris was observed in the North Portal Intake Tower area and was a concern for operations. With both the Rey and Whittier Fire occurring in the Lake Cachuma watershed, there is greater potential for large woody debris to damage/obstruct the intake tower.

COMB staff investigated the costs of purchasing new boom with debris screens to protect the intake tower. The quote for the new boom material and debris screens (143 barrier sections from TUFFBOOM) was \$214,000. The County of Santa Barbara has log booms available which they obtained for the Zaca Fire. COMB is coordinating with the County to utilize the existing boom material at Lake Cachuma. The County has approximately 100 sections of 10' boom which could be utilized by COMB to protect the North Portal Intake Tower. The boom would be anchored to moorings to provide a protective buffer around the intake tower. COMB is investigating the installation, mooring, and anchoring costs for utilizing the existing booms. Figure 3 provides an example of debris boom protection of the intake tower at Lake Kaweah, California.



Figure 3. Intake Tower Protection with Debris Boom Lake Kaweah (Photo from TUFFBOOM)

NORTH PORTAL ACCESS:

The watershed surrounding the North Portal Access Road has burned. Rockfall, erosion, and sedimentation may impact the access road during the 2017-2018 winter. The North Portal Access Road crosses a small canyon. The culverted crossing of the drainage has previously washed out due in part to the culvert under Highway 154 clogging and then suddenly sending a wave of sediment, water, and debris into the canyon. With the debris flow potential from the burned areas, a washout could happen again and the North Portal Access Road could be impassable for a significant amount of time. In addition, the power lines supplying the North Portal area could become downed due to the unstable slopes and partial burn of some of the power poles.

In addition, if debris flows, rock falls, or landslides occurred on the north slopes of the Santa Ynez Mountains, Highway 154 may become impassable for an unknown duration. This may make access to the North Portal difficult. COMB staff has a diesel generator at the North Portal for backup power. Additional fuel storage is being considered by COMB staff in preparation of a longer term electrical outage.

Construction on the North Portal Slope Stabilization project will likely begin October 23rd. This will improve the stability of the North Portal Access Road and will reduce some of the potential risks of erosion. However, significant washout, rockfall, and landslides risks will still remain for other portions of the access road. Hydro-mulching, check dams, trash rack/debris netting in portions of the North Portal Access Road area could reduce the risks of erosion in the burned areas.

WATER QUALITY IMPACTS FROM WILDFIRE:

Elevated levels of sediment, ash, and organic matter due to increased runoff and erosion from the Whittier Fire burn area may impact the water quality of Lake Cachuma. The presence of increased organic nutrients due to fire creates challenges for drinking water treatment. Additional monitoring and treatment processes will likely be required as a result of the Whittier Fire.

COMB staff currently takes water grab samples at the surface and at each intake tower gate on the 15th of each month. Field measurements are taken for temperature, pH, and dissolved oxygen and then additional water quality laboratory analyses are completed by the City of Santa Barbara. Water quality measurements for

pH, turbidity, dissolved oxygen, and electrical conductivity are also taken by inline instrumentation continuously at the North Portal Bypass.

COMB staff will continue to coordinate operations with Corona del Mar and Cater Water Treatment Plant operators. Additional measures that will be implemented due to the Whittier Fire include:

- 1) Taking additional field measurements and grab samples when the first flush into Lake Cachuma occurs;
- 2) Temporarily shutting down the main North Portal Valve during high inflow events with poor water quality conditions to allow sediment and turbidity to settle out; and,
- 3) Keeping the North Portal Bypass open to continuously monitor water quality results.

The City of Santa Barbara has installed a KRIA ionizer system in Lauro Reservoir which began operations in October 2017. COMB staff has assisted the City in taking water quality measurements to determine the impacts of the ionizer on water quality. If the ionizer successfully reduces the water quality treatment costs at Cater Treatment Plant, additional ionizers could be considered in other parts of the system to improve water quality.

COMMITTEE STATUS:

The Operations Committee has reviewed the content of this memorandum and forwards to the Board the following information with a recommendation to receive and file:

- Delay the bathymetric surveys until the Whittier Fire and Rey Fire burned areas have recovered and a new bathymetric survey for water accounting in Lake Cachuma is required.
- Utilize the existing County of Santa Barbara debris booms and anchor, moor, and install the debris booms as soon as possible.
- If the USBR receives funding for the Whittier Fire prevention measures, COMB staff recommends utilizing a portion of the funds to better stabilize the North Portal Access Road slopes and drainages to protect the North Portal Access Road area.

RECOMMENDATION:

The Board receive and file the referenced memorandum report.



Mission Statement:

“To provide a reliable source of water to our member agencies in an efficient and cost effective manner for the betterment of life in our communities.”

October 23, 2017

General Manager Report

The following summary provides the Board with information and an overview of progress on current COMB activities.

Administration Division

- 2018 Cachuma Project Water Rates

Reclamation staff is continuing to prepare information related to Cachuma Project expenditures for Water Years 2015 and 2016 and has indicated explanations will be provided soon. Staff advanced proposed optional meeting dates for Reclamations consideration. Historically, the 1st semi-annual payment is due October 1st each year. Staff has confirmed with USBR Region a deferment of the 1st semi-annual payment until November 30, 2017.

- ACWA/JPIA Workers' Compensation, Liability, and Property Risk Assessment

The Senior Risk Management Advisor from ACWAJPIA, Mr. Lee Patton, met with staff to follow up on the “Opportunity Review” best practices suggestions made as a result of last year’s risk assessment. Included in the review were our safety program, construction program, employment practices, illness and injury prevention program, training needs, and upcoming capital improvement projects. The Risk Transfer manual provided by ACWAJPIA was updated earlier this year with clauses to be included in COMB’s contract language. Mr. Patton also toured the Sycamore Canyon Slope stabilization project and mentioned the notable safety precautions staff was using to secure and winterize the site.

- Contracts Executed by the General Manager

Under the general procurement guidelines, Section 2 of the COMB Procurement Policy authorizes the General Manager to approve expenditures made for official Agency business up to a maximum of \$25,000, provided such expenditures are within the budget, as adopted by the Agency.

Pursuant to the COMB Procurement Policy adopted by the Board, a quarterly report of all contracts executed by the General Manager for the period of July 1, 2017 through September 30, 2017 is presented for information. All contracts exceeding the authorized limit have been previously presented to and approved by the governing Board through respective Committees.

Table 1
Contracts Executed by General Manager
July 1 - September 30, 2017

Vendor Name	Contract Description	Date Executed	Board/GM Approval	Contract Amount
Kenneth A. Knight Consulting, Inc.	Fisheries 2017-18 SOW: Oak Tree Monitoring	07/10/2017	Board	\$10,000
ICF Jones & Stokes, Inc.	Fisheries 2017-18 SOW: BO/FMP Implementation and Technical Support	07/20/2017	Board	\$19,000

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com3 Consulting	Fisheries 2017-18 SOW: General Ongoing Services, Preliminary Engineering Services, Design, Right-of-Way and Permitting	07/20/2017	Board	\$24,000
HDR Engineering, Inc.	Fisheries 2017-18 SOW: General Engineering Services	07/26/2017	Board	\$155,800
Rauch Communication Consultants	Fisheries 2017-18 SOW: Website Update Support	08/03/2017	Board	\$1,500
Northwest Hydraulic Consultants	Fisheries 2017-18 SOW: Post-project Reporting and Technical Support for Fish Passage Project at El Jaro Creek at Cross Creek Ranch	08/24/2017	Board	\$3,000
Flowers & Associates	Lateral 3A – Project Management Engineering Services	09/06/2017	GM	\$17,100
Fugro Consultants Inc.	Quiota Creek Crossing 5 Project - Geotechnical Engineering Services	09/07/2017	GM	\$4,800
Contech Engineered Solutions	Quiota Creek Crossing 5 Project - Prefabricated Bottomless Arched Culvert	09/13/2017	Board	\$230,486
Granite Construction	North Portal Slope Stabilization - Construction Services	09/14/2017	Board	\$94,711
OTIS Elevator	Annual North Portal Elevator Maintenance Contract	09/18/2017	GM	\$5,700

Operations Division

- Lake Cachuma Elevation Projection Model

COMB's Water Resources Engineer has refined and updated the Lake Cachuma Elevation Projection model originally created by Carpinteria's General Manager for use to estimate lake elevation and storage levels using the Member Agencies' projected supply and demand data. In addition, based on the data, the model will show the estimated timeframe for re-deployment of the barge if no sizable rain event occurs this winter. The model will be presented to Member Agency staff at the next County hosted meeting in early November.

- U.S. Bureau of Reclamation
 - *Tabletop Exercise*
Reclamation conducted a one day table-top exercise at Lauro Yard which included an emergency response exercise involving an unknown perpetrator situation in Lauro Yard. In addition to Reclamation and COMB staff, representatives from the Santa Barbara County Sheriff's Department attended the training.
 - *2017 Tecolote Tunnel RO&M Inspection*
Reclamation is in the initial planning stages for the periodic inspection of the Tecolote Tunnel which is slated for late December. The previous inspection took place in December 2012. COMB staff will be confirming dates upon coordination with the Member Agencies.

- Sycamore Canyon Slope Stabilization

In late September, COMB's Water Resources Engineer issued an RFP to three engineering consulting firms for the Sycamore Canyon Slope Stabilization project. COMB requested the consultants to provide cost estimates for a topography survey, geotechnical analysis, and preliminary design for the project. The deadline for proposals is November 10th. COMB staff has completed winterizing the site prior to potential rain events.

- Lateral Structure No. 3

Cushman Contracting Corporation has provided the necessary submittals to Flowers Engineering to proceed with the Lateral 3 rehabilitation project. The project is scheduled to commence during the last week in November and will take a few weeks to complete. Staff has coordinated with the Member Agencies for implementation of this project.

- North Portal Access Road

Granite Construction will begin work on the North Portal Access Road on October 23rd. MNS Engineering staked the project last week and it is anticipated to take approximately 3 weeks to stabilize the road.

- Air Valve Air Release (AVAR) and Blow-off (BO) Structure Replacement Project

HDR Engineering conducted a second meeting with COMB Operations Division staff and Member Agency technical staff to discuss operational implications for each of the Member Agencies and consideration for timing and location of the shutdowns affiliated with the rehabilitation project. Ninety-percent designs are forthcoming from HDR. Project bids will be solicited during the fall with construction phased in over the winter time period depending on agreed upon shutdown schedules.

Fisheries Division

- Oak Tree Program

Seasonal staff has started watering the older age classes of oak trees at Storke Flat and Bradbury Dam. These are the Year 1 through Year 4 trees. While irrigating, crews are removing old cage material from trees that have outgrown their enclosures.

- Snorkel Surveys

The Fisheries Division (FD) has just completed the "during-release" phase of WR 89-18 release snorkel surveys within the Lower Santa Ynez River (LSYR) mainstem. Crews will be conducting the "post-release" phase soon after flows are ramped down out of the outlet works. Fall snorkel surveys within the tributaries will also be conducted in the coming weeks.

- Trapping

Migrant traps were installed at the tail-out of the Long Pool in anticipation of the WR 89-18 release. Both upstream and downstream traps were deployed (opened) for trapping for a period of three weeks after the onset of the release. No fish were captured, indicating that the warm-water fish removal efforts within the Stilling Basin were successful. After three weeks of no fish captures, the traps were blocked (closed) and the traps continue to function as a block to prevent any *O. mykiss* from moving downstream. FD personnel will continue to maintain and clean the traps for the duration of the release.

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- Water quality instruments

Temperature, dissolved oxygen and pressure transducer devices within the LSYR mainstem continue to collect data during the WR 89-18 Release. As soon as the release ends, all units will be extracted in anticipation of the rainy season. Temperature units within the tributaries will also be removed this fall.

- Hilton Creek flows

The Hilton Creek Emergency Backup System (HCEBS) is providing gravity flow to Hilton Creek through the Lower Release Point. Reclamation tested one of the pumps of the Hilton Creek Watering System (HCWS) on Wednesday (10/11), which provided brief flow to the Upper Release Point. The FD anticipates further testing of the system by Reclamation and will be on site to monitor creek flows and any impacts to the fishery.

- Quiota Creek Crossings

The FD continues to irrigate the newly planted trees at Quiota Creek Crossings 0A and 4 as well as the mitigation trees at the older Quiota Creek project sites. The bottomless-arched culvert for Quiota Creek Crossing 5 is currently being constructed at the Bethlehem construction site.

- Annual Monitoring Reports

The 2014 Annual Monitoring Report has been provided to Reclamation. Staff is continuing production of the 2015 and 2016 Annual Monitoring Reports.

Respectfully Submitted,

Janet Gingras

General Manager

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: October 23, 2017
TO: Janet Gingras, General Manager
FROM: Dave Stewart, Operations Division Manager
RE: **MONTHLY OPERATIONS DIVISION REPORT**

Operations

The Annual Work Plan sets forth all activities necessary to ensure system reliability. Consistent with the Plan, Operation and Maintenance staff performs routine maintenance on the distribution and storage system. Staff continually endeavors to improve the system, address deficiencies and identify items to be included in the Infrastructure Improvement Program (IIP).

Lake Cachuma Operations

The total flow from Lake Cachuma into the Tecolote Tunnel for August was 1,850.6 acre-feet, for an average daily flow of 61.68 acre-feet. Lake elevation was 709.98 feet at the beginning of the month and 706.37 feet at the end. Storage change decreased -6,420 acre-feet. CCWA wheeled 1,193.1 acre-feet of water to Cachuma Project facilities.

Operation and Maintenance Activities

COMB Staff regularly performs the following duties:

- Operations and maintenance of the SCC and facilities on the South Coast:

South Coast Conduit - Structure Inventory													
Reach	Endpoints	Linear Length (ft)	Pipe Diameter	Regulating Storage Reservoirs	Meters	Air Vents	Blow-Offs	Turnouts	Open Air Vents	Valves	Valve Size	Slide Gates	Capacity / Volume (gal)
Upper	Glen Annie Turnout (S. Portal) - Cater Water Treatment Plant	64,050	48"	2	5	32	35	18	2	115	4" - 48"	7	6,017,421
Lower	Cater Water Treatment Plant - Carpinteria Reservoir	90,910	27" - 36"	2	15	26	31	42	4	144	4" - 36"	-	3,190,171

- Operation of the Lake Cachuma North Portal Intake Tower and Jet Flow Valve
- Regulate and maintain flows from Lake Cachuma to meet the needs of South Coast Member Units
- Dam inspection and instrumentation reports (all reservoirs)
- Weekly Safety meetings
- Weekly Rodent Bait (all reservoirs)
- Weekly Toe Drain and Piezometer reads at Ortega (L23)
- Structure maintenance per Work Plan

- USA Dig Alert – Responded as necessary to alerts
- Pesticide report to County of Santa Barbara
- Operational tests of generators at the North Portal and at Lauro Yard
- Inspection of fire extinguishers
- Read anodes and rectifier data
- Water samples taken at Lake Cachuma
- Clean up, Inspection, and tool Inventory of all vehicles
- Clean up and organize service yard and all buildings

Weekly Safety Meetings:

The primary purpose of the weekly safety meetings is to continue educating staff on safe practices in the field and on-site. In the safety meetings, staff is urged to ask questions regarding the topic being discussed and to think of related examples. The discussion also includes how the incident could have been prevented. Regular safety meetings help staff to constantly be aware of safety practices while on the job. The following topics were reviewed this past month:

- ✓ Traffic Control – Discussed best practices and procedures for traffic control.
- ✓ Maintaining Safe Exit Routes – Discussed evacuation and exit routes for staff at various sites during an emergency event.
- ✓ Storm Preparedness Review – Went over COMB's storm preparedness plan for the upcoming winter. The plan outlines site preparation, vehicle and equipment preparation, personal protective equipment and high priority sites with potential for storm damage.

COMB Operations Staff specifically performed the following activities:

- Staff has been on site monitoring several ongoing projects throughout the area. Working closely with the construction and engineering contractors to ensure that:
 - Pipe line easements and right of ways remain accessible to operations staff for possible emergency's and ongoing facility maintenance
 - All projects are following the COMB and USBR approved plans.
 - No damage occurs to the South Coast Conduit during the construction process.
- Operations staff took part in a table top exercise simulating an unknown perpetrator scenario at a COMB facility. In attendance were the Bureau of Reclamation, Santa Barbara County Sherriff, and Santa Barbara County Parks.
- Staff met with Cushman Construction at the Lake Cachuma intake tower to discuss installation of the log boom to protect facility from increased debris flows.
- Repaired drainage culverts and sump pump drain line at the North Portal damaged during the Whittier Fire.
- Emerson Process Management was onsite to perform quarterly meter calibrations on the Lauro Inflow, Sheffield Control, Ortega Outflow and North Portal venturi meters.
- Repaired a broken waterline located under the Administration office building.
- Continued reestablishing access and clearing the right of way between stations 230+51 thru 233+05.

- Monitored Lash construction during potholing of the SCC in 3 locations.
- Cleaned and inspected the Montecito / Carpentaria Boundary meter.
- Cleaned the North Portal Intake Tower debris and fish screens.
- Exercised North Portal Intake Tower slide gates.
- Completed monthly water sampling for the City of Santa Barbara.
- Operations department continually inspects all sites, reservoirs, and the South Coast Conduit for items to add to the IIP for future projects.

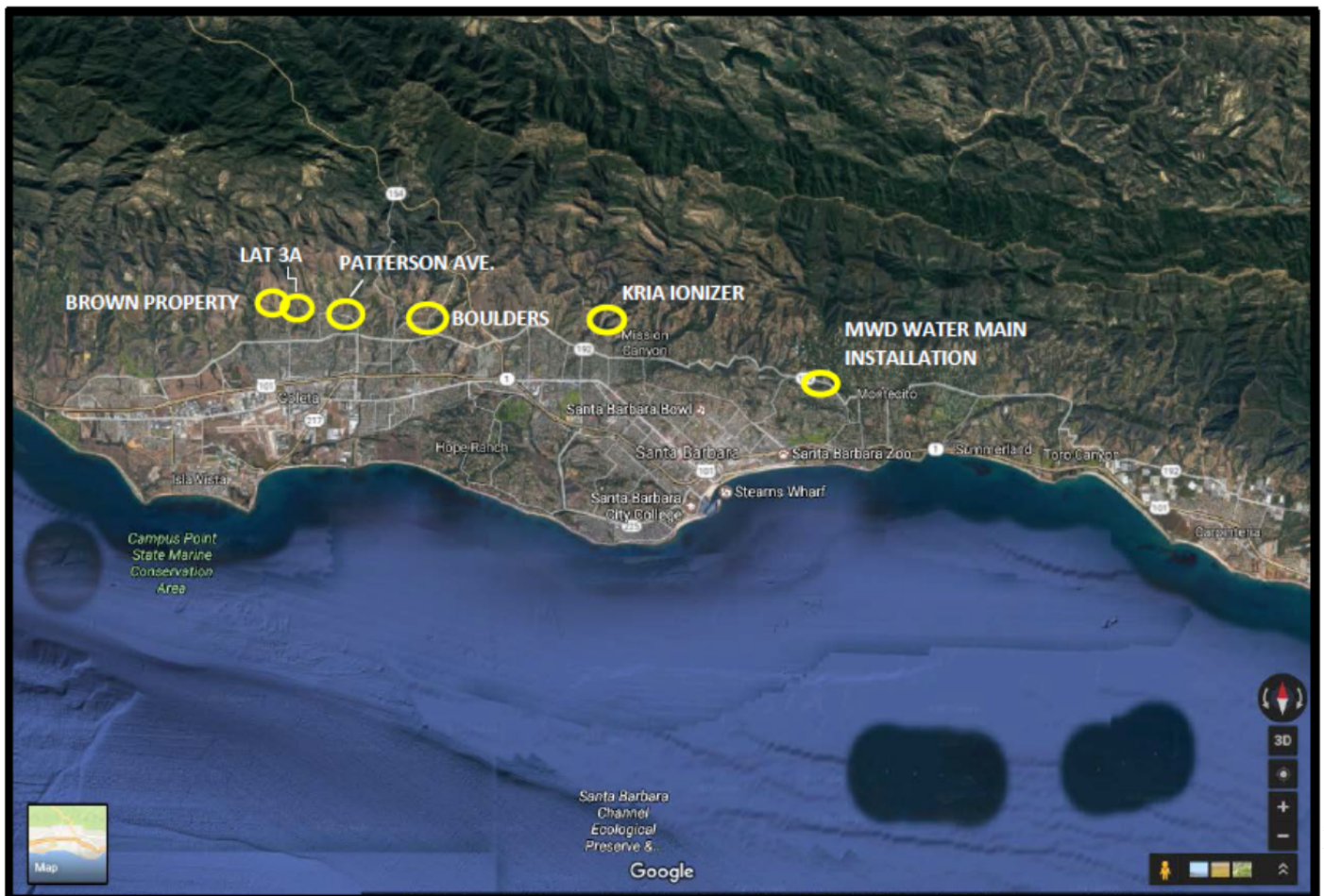
Current IIP projects

Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation & Replacement – Met with HDR and member agency staff on October 3rd to discuss repair planning for this winter.

North Portal Slope Stabilization – Road cut areas have been staked and Granite is scheduled to start construction October 23rd.

Sycamore Canyon Slide Repair – Issued an RFP for topographic survey, geotechnical analysis, and preliminary design for slope stabilization solution. Covered slide area to prepare for winter storms.

Lateral #3 Replacement – Reviewed Cushman submittals and preparing for construction to commence this winter following the shutdown of Corona Del Mar Treatment Plant.



CURRENT PROJECTS WITHIN EASEMENT

BROWN PROPERTY



Installation of Geofoam over the South Coast Conduit to prevent overloading.

LAT 3A



Remove abandoned turnout and reconfigure blow off structure.

PATTERSON AVE.



Patterson Oaks subdivision

BOULDERS PROJECT



Boulders subdivision

KRIA IONIZER

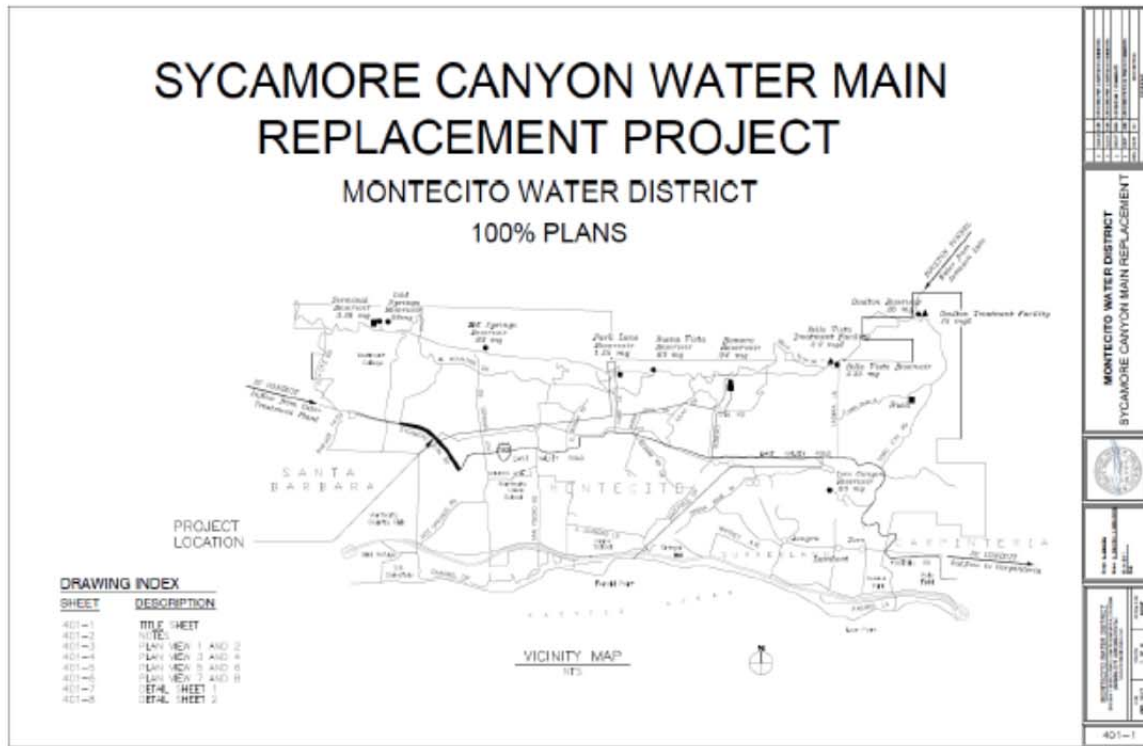


Installation of KRIA Ionizer at Lauro Reservoir.

North Portal Slope Stabilization



Montecito Water Main Installation



Operations Project Photos

North Portal Culvert Repairs



Sycamore Slope Storm Preparation



Boundary Meter Cleaning / Inspection



CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: October 23, 2017
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: **MONTHLY FISHERIES DIVISION REPORT**

HIGHLIGHTS:

- USBR continues to deliver approximately 2 cfs to Hilton Creek at the Lower Release Point through the Hilton Creek Emergency Backup System by gravity. No water is being delivered to the Upper Release Point due to difficulties in operating the Hilton Creek Watering System pumps. This rate of flow is meeting BiOp target flows for Hilton Creek and sustaining the *O. mykiss* population in the creek.
- The 2017 WR 89-18 release were started on 8/21/17 and continued through September.

In compliance with the 2000 Cachuma Project Biological Opinion (BiOp) (NMFS, 2000) and as described in the 2004 Lower Santa Ynez River Fish Management Plan (SYRTAC, 2000) and the Monitoring Program in the 2000 Revised Biological Assessment (BA), the Cachuma Project Biology Staff (CPBS) conducts routine monitoring of steelhead/rainbow trout and their habitat on the Lower Santa Ynez River (LSYR) below Bradbury Dam. The following is a list of activities carried out by CPBS since the last COMB Board Fisheries Division Report and has been broken out by categories.

LSYR Steelhead Monitoring Elements:

Thermograph Network: The thermograph network is deployed at the beginning of April and removed at the end of December to record water temperatures at all designated locations within the LSYR mainstem and several tributaries. The thermograph network has been deployed in the LSYR mainstem and its tributaries. Thermographs are downloaded monthly and the results are summarized in the Annual Monitoring Report.

Lake Profiles: Lake Cachuma water quality measurements (temperature, dissolved oxygen concentration solids and turbidity) at one meter intervals from the surface to the bottom of the lake (Lake Profile) are taken once a month at the Hilton Creek Watering System (HCWS) intake barge. This is considered to be near the deepest point in the lake and allows for monitoring of lake stratification, water quality conditions at the intake level for the HCWS and lake-turnover. Due to the drought and the need to carefully monitor Lake Cachuma, lake profiles are being taken monthly throughout the year.

Cachuma Lake Oak Tree Restoration Program: COMB staff, with guidance from a hired professional arborist, continues to implement the Program and has successfully conducted all management actions as required. A project update is provided in a separate Board memo.

WR 89-18 Release Monitoring: BiOp required monitoring for the WR 89-18 releases started prior to the release as requested by USBR and will continue until after the releases are

stopped. WR 89-18 releases began on 8/21/17 after 8 AM and are conducted by the Santa Ynez River Water Conservation District in collaboration with USBR. Snorkel surveys in the LSYR mainstem as required by the BiOp (RPM-6) have been conducted as proposed.

Lauro Reservoir Monitoring: Staff has been assisting the Cater Treatment Plant operators by monitoring water quality in Lauro Reservoir prior and during their deployment and operation of the KRIA Ionizer System specifically water temperature, dissolved oxygen concentration, turbidity and pH across depth profiles at several locations.

Tributary Project Updates:

Quiota Creek Crossing 5: As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. COMB was awarded the grant and the COMB Board accepted the grant by resolution on 5/22/17. The Board then approved by resolution expenditures of funds for the project on 6/26/17. All permits and final designs for the project have been obtained and approved. The project is on hold due to the COMB Board rejection all contractor bids on 9/25/17.

Quiota Creek Crossing 8: This project and the required Cooperative Agreement with the County were discussed at the 5/4/16 Fisheries Committee meeting with approval by the Board on 5/23/16 to move forward with the project and the Cooperative Agreement. The County Board of Supervisors approved the Cooperative Agreement on 7/12/16. With a fully executed Cooperative Agreement, the County submitted a CalTrans Federal Highway Administration (CT-FHWA) grant application to fund the project and CalTrans approved the funding for a full bridge replacement. SBCAG approved the project on 11/17/16. A Professional Service Agreement (PSA) for COMB with the County to manage the project was approved by the Board during the 3/27/17 Board meeting and was fully executed on 5/16/17. The Request for Authorization (RFA) has been sent by the County to Caltrans to begin grant expenditures and expect approval of the RFA soon. We have been working on the Requests for Proposals (RFP) to hire a consultant for design, environmental and right-of-way tasks. We hope to finalize the RFP shortly and initiate the search for a consultant to be secured in September of this year. Upon receiving the PSA, a field review meeting with Caltrans will be scheduled shortly thereafter with the objective of setting the design criteria. Caltrans recently has programmed funding for this project in Fiscal Year 19/20 but the County has made a request for the funding to be available in Fiscal Year 18/19. We will know more next month in November. Pending the above, the project would be built in the fall of 2018 or 2019.

Quiota Creek Crossing 9: Staff submitted a CDFW-FRGP grant proposal for this project on 4/26/17 as approved by the Board during the 4/24/17 meeting. The grant is for \$993,121 with a \$50,000 construction match. The announcement of grant recipients will happen in the winter of 2018.

Salsipuedes Creek – Jalama Road Fish Ladder: There has been no action on the suggested repairs to this project

El Jaro Creek – Cross Creek Ranch Fish Passage Facility: There has been no action on the suggested repairs to this project

Hilton Creek Watering System (HCWS) Repairs and Upgrades plus the Hilton Creek Emergency Backup System (HCEBS)

The HCWS and HCEBS are owned, operated and maintained by USBR. The HCEBS was completed at the end of January 2016. With this system fully operational, USBR has now been working on the identified repairs to the HCWS with no success on getting the pumping system operating. Repair work on the HCWS has been very slow with no work calendared in the near future.

Surcharge Water Accounting

The following table summarizes the amount of Surcharge water used to date from each of the three accounts at the end of last month (Table 1). All numbers come from USBR’s Daily Operations Report. The start time for the use of the Surcharge Water Accounts was 5/27/11, or the last day of full surcharge. As of May 2012, all of the Fish Rearing Account waters have been used and USBR is now using Project Yield to meet BiOp target flows. A WR 89-18 release began on 7/15/13 and ended on 12/2/13, another began on 8/18/14 and ended on 11/11/14, another began on 8/3/15 and ended on 9/26/15, and the 2016 WR 89-18 release started on 7/12/16. During these releases, no Fish Rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. What remains of the AMA is 351 acre-feet. There have been no releases from the Fish Passage Supplementation Account (FPSA). Determination of critical drought and the associated accounting and possible usage of the AMA and FPSA have not been finalized and approved (or if those accounts are now replenished from this winter’s runoff) by NMFS and USBR hence is not reflected in Table 1.

Table 1: Summary of the surcharge water accounting and use of Project Yield.

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	0	3,200
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		15,821	
Total:	9,184	21,454	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 9/30/17.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

Reporting / Outreach / Training

Reporting: Staff continues to work on the Annual Monitoring Reports. Staff has been providing information to USBR as requested in support of Adaptive Management Committee meetings, Reconsultation, and other operational requests. A summary of the Stilling Basin dewatering and fish removal effort was submitted to Reclamation and COMB Board that included an estimate of how much water was pumped out of the Basin, the total number of fish removed, and the cost for the entire project.

Outreach and Training: Staff continues to work with Quiota Creek and Salsipuedes Creek watershed landowners, interested parties within the Santa Ynez Valley and the County on a variety of fisheries related issues.

Consultant Activity Summary:

HDR Fisheries Design Center (Mike Garello) – Design, reporting and oversight work for the Quiota Creek Crossings 5, 8 and 9 projects.

COM3 Consulting (Gerald Comati) – Quiota Creek Crossing 8 CalTrans grant application.

ICF (Jean Baldrige) – BiOp compliance tasks and support.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 23, 2017
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: **Lake Cachuma Oak Tree Restoration Program**

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2017 to the present (1/1/17 – 10/23/17, Table 1). Labor and expenses for the entire fiscal year (July 2017 - June 2018) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16, which sets the mitigation number for the program. The 2016 Annual Inventory and Fiscal Year 2016-2017 Financial Report has been completed and reviewed by the Lake Cachuma Oak Tree Committee during their 8/9/17 meeting. The directives for the coming year fiscal year have been presented by the Committee chairperson during the August COMB Board meeting.

Table 1: Cachuma Oak Tree Program completed tasks since January, 2017.

	Jan 2017*	Feb 2017*	March 2017*	April 2017**	May 2017**	June 2017	July 2017	Aug 2017	Sep 2017	Oct 2017
Year 9 Oaks (2016-2017)		New Trees	New Trees	New Trees	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	
		Gopher Baskets	Gopher Baskets	Gopher Baskets	Weeded	Weeded	Weeded	Weeded	Weeded	
		Fert/Comp	Fert/Comp	Fert/Comp						
		Deer Cages	Deer Cages	Deer Cages						
		Mulch/Irrigated	Mulch/Irrigated	Mulch/Irrigated						
Year 8 Oaks (2015-2016)		Weeded		Weeded	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	
					Weeded	Weeded	Weeded	Weeded	Weeded	
Year 7 Oaks (2014-2015)				Weeded		Irrigated			Irrigated	
				Mulched		Weeded			Weeded	
Year 6 Oaks (2010-2011)						Irrigated				Irrigated
						Weeded				Weeded
										Deer Cages
Year 5 Oaks (2009-2010)						Irrigated				
						Weeded				
Year 4 Oaks (2008-2009)										
Year 3 Oaks (2007-2008)										
Year 2 Oaks (2006-2007)										Irrigated
										Weeded
										Deer Cages
Year 1 Oaks (2005-2006)										Irrigated
										Weeded
										Deer Cages

* Annual Oak Tree Inventory

** April-May work included Year 9 oak tree inventory

The Fisheries Division has begun watering the older age classes (Year 1 through 4) of oak trees this fall. In addition to watering, crews are removing cages from trees that have attained a height of 6 feet or greater. Older cage materials (chicken wire and deer netting) are also being removed from trees to prevent branches from being girdled. Once removed, new (thicker gauge wire) cages are being installed.

In early November, arborist Ken Knight will be meeting staff in the field for a training session on formative pruning that will be conducted over the course of a month or so. Formative pruning is a step (typically conducted in the fall) to encourage vertical growth.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

N/A

CACHUMA OPERATION AND MAINTENANCE BOARD
METERED USE REPORT FOR SEPTEMBER 2017

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		382.70	18+62	G. WEST	110.37
Boundary Meter - West		(0.20)	78+00	Corona Del Mar FILTER Plant	798.84
			122+20	STOW RANCH	0.00
				Bishop Ranch (Wynmark)(Water Rights)	0.00
				Raytheon (SWP) (Warren Act Contract)	0.00
				Morehart (SWP) (Warren Act Contract)	(6.00)
				SWP CREDIT (Warren Act Contract)	(392.00)
			TOTAL		511.22
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	62.91
			386+65	MWD YARD	69.43
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	131.61
			510+95	MWD PUMP (SWD)	14.21
			510+95	ORTEGA CONTROL	2.79
			526+43	ASEGRA RD	5.80
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	1.70
				SWP CREDIT (Warren Act Contract)	(288.45)
			TOTAL		0.00
			CITY OF SANTA BARBARA		
			CATER	INFLOW	1476.64
			Gibraltar	PENSTOCK	(543.88) (*)
			CATER	SO. FLOW	(896.39)
			Sheffield	SHEF.LIFT	171.92
				SWP (Warren Act)	(187.39)
				La Cumbre Mutual SWP (Warren Act)	(20.90)
			TOTAL		0.00
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		2.36
			TOTAL		2.36
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		1190.00
			STATE WATER TO SOUTH COAST (including from storage)		(1047.74)
			BISHOP RANCH DIVERSION		0.00
			METERED DIVERSION		743.07
SWP CREDIT (Warren Act Contract) (153.00) TOTAL 229.50					
Note: Meter reads were taken on: 9/29/2017					

(*) The Gibraltar Penstock meter read was adjusted based on a meeting between City Staff and COMB on May 18, 2017

16-17 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF **SEPTEMBER 2017** AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

	MONTH	WYTD
WATER PRODUCTION:		
Cachuma Lake (Tec. Diversion)	1,829	14,374
Tecolote Tunnel Infiltration	29	916
Cachuma Lake (County Park)	2.36	25
Subtotal	<u>1,860</u>	<u>15,315</u>
WATER DELIVERIES:		
State Water Diversion	1,048	11,612
Cachuma Diversion	743	2,953
So. Coast Storage gain/(loss)	(38)	109
Subtotal	<u>1,753</u>	<u>14,675</u>
Total Water Production	1,860	15,315
Total Water Deliveries	1,753	14,675
Difference = Apparent Water Loss	107	640
% Apparent Water Loss	5.76%	4.18%

SCC APPARENT WATER LOSS ALLOCATION ⁽²⁾

	GWD	SB CITY	MWD	CVWD	TOTAL
CURRENT MONTH CHARGE / (ADJUSTMENT) ⁽²⁾					
M&I	3	0	0	11	14
Agriculture	1	0	0	15	16
Subtotal Cachuma Project	4	0	0	26	30
(+) State Water Project	3	16	36	22	77
Total	7	16	36	48	107
WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)					
M&I	3	21	10	11	45
Agriculture	1	0	0	15	16
Subtotal Cachuma Project	4	21	10	26	61
(+) State Water Project	6	26	51	35	118
Total	10	47	61	61	179

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	383	0	0	97	2	483
Agricultural	128	0	0	133	0	260
Subtotal Project Water Use	511	0	0	230	2	743
(+) Apparent Water Loss	4	0	0	26	N/A	30
(+) Evaporative Loss ⁽³⁾	0	0	0	0	0	0
Total Project Water Charge	515	0	0	256	2	773
WATER YEAR-TO-DATE						
Water Usage						
M&I	960	1,094	282	197	26	2559
Agricultural	322	0	52	266	0	640
Subtotal Project Water Use	1,282	1,094	334	463	26	3199
(+) Apparent Water Loss	4	21	10	26	N/A	61
(+) Evaporative Loss ⁽³⁾	161	124	33	0	6	324
Total Project Water Charge (*)	1,447	1,239	377	489	32	3,584

(*) Project Water Charge is applied first to Carryover Water balance and then to Current Year Water Allocation

16-17 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF **SEPTEMBER 2017** AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT WATER BALANCE AS OF SEPTEMBER 2017

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
Project Water Carryover - 10/1/2016	561	1,239	377	0	24	2,201
(-) Project Water Charge (WYTD)	561	1,239	377	0	24	2,201
Balance Carryover Water	0	0	0	0	0	0
Current Year Allocation ⁽⁴⁾	3,729	3,311	1,060	1,125	1,060	10,285
(-) Balance of Project Water Charge (WYTD)	886	0	0	489	8	1,383
Net Allocation Available Before Adjustments	2,843	3,311	1,060	636	1,053	8,903
<u>Adjustments to Net Allocation (WYTD)</u>						
Carryover Balances Spilled	0	0	0	0	0	0
Surplus	0	0	0	0	0	0
State Water Exchange ⁽⁵⁾	374	250	249	164	(1,037)	0
Transfers/Adjustment ⁽⁶⁾	(128)	427	(299)	0	0	0
Balance Current Year Allocation	3,088	3,988	1,011	800	16	8,903
Total Cachuma Project Water Available	3,088	3,988	1,011	800	16	8,903

Footnotes

- (1) Water Year = October 1 through September 30
- (2) Based on an correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assess for unaccounted-for water loss based on lake conditions
- (3) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (4) Per USBR, 40% Allocation to Member Agencies, effective 4/1/17
- (5) Per SWP Exchange Agrmt GWD received 35 AF; MWD received 23 AF; City of SB received 24 AF; and CVWD received 16 AF from ID#1 in September 2017.
State Water Deliveries to Lake Cachuma for September (Total =1190 AF): MWD 263 AF; CVWD 175 AF
GWD 395 AF(Morehart 6 AF); City of S.B. 263 AF; and LaCumbre 88 AF: (Ratheon 0 AF)
- (6) Transfer per Juncal agreement between SB & MWD (298.51 AF)
Transfer per Overlap agreement between SB & GWD (128.35 AF)

**SUMMARY: APPARENT WATER LOSS ALLOCATION
SEPTEMBER 2017**

	Lauro & Cater Loss (LE + CTPL)	Ortega Toe Drain (OTD)	Use Area 1	Use Area 2	Use Area 3	Use Area 4	Total (AF)	Rounded Total (AF)
GWD	0.2	0.0	4.6	2.0	0.0	0.0	6.9	7
City	1.5	0.0	0.9	12.9	1.0	0.0	16.3	16
MWD	2.4	0.5	1.4	20.7	1.7	9.3	36.1	36
CVWD	3.2	0.5	1.9	27.5	2.2	12.4	47.7	48
Total	7.4	1.0	8.9	63.1	4.9	21.7	107.0	107

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **September 2017**

GLEN ANNIE RESERVOIR

Capacity at 385' elevation:	518	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	335.00	Feet
Water in Storage	26.79	AF

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	545.00	Feet
Water in Storage	509.91	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	446.70	Feet
Water in Storage	18.58	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	375.10	Feet
Water in Storage	23.71	AF

TOTAL STORAGE IN RESERVOIRS

	552.20	AF
Change in Storage	(38.23)	AF

CACHUMA RESERVOIR*

Capacity at 750' elevation:	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF

Stage of Reservoir Elevation	706.37	Feet
Water in Storage	82,752	AF
Surface Area	1,727	
Evaporation	1,304.6	AF
Inflow	761.2	AF
Downstream Release WR8918	5056.4	AF
Fish Release (Hilton Creek)	177.0	AF
Outlet	0.0	AF
Spill/Seismic Release	0	AF
State Water Project Water	1196.1	AF
Change in Storage	-6,420	AF
Tecolote Diversion	1,905.6	AF

Rainfall:	Month:	0.45	Season:	0.45	Percent of Normal:	205%
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SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #I75R-1802

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Carpinteria Valley Water District**
 Last updated by C.O.M.B. 09/29/17

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES					WATER USED CHARGED TO CURRENT ALLOCATION		
			Acre-feet			Acre-feet			Allocation		Acre-feet		
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov			0	0	0	0	0	0	0	0	0	0	0
Dec			0	0	0	0	0	0	0	0	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0
Mar			0	0	0	0	0	0	0	0	0	0	0
Apr	1125		0	0	0	0	0	0	0	0	0	0	0
May			0	0	0	0	0	0	0	0	0	0	0
Jun			0	0	0	0	0	0	0	0	0	0	0
Jul			31	40	71	0	0	0	0	0	31	40	71
Aug			70	93	163	0	0	0	0	0	70	93	163
Sep			108	148	256	0	0	0	0	0	108	148	256
Total	1125	0	209	281	490	0	0	0	0	0	209	281	490

CONVERSIONS						SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
STORAGE WATER		CURRENT SCHEDULE				Total	M&I	AG	M&I	AG	Total
M & I	Agr	M & I	Agr	Month							
0	0	0	0	Oct	Begin Bal	0	0	0	0	0	0
0	0	0	0	Nov							
0	0	0	0	Dec							
0	0	0	0	Jan							
0	0	0	0	Feb							
0	0	0	0	Mar							
				Allocation					478	647	1,125
0	0	0	0	Apr							0
0	0	0	0	May	ID #1 Ex+34				15	19	34
0	0	0	0	Jun	ID #1 Ex+40				17	23	40
0	0	0	0	Jul	ID #1 Ex+36				14	22	36
0	0	0	0	Aug	ID #1 Ex+38				17	21	38
0	0	0	0	Sep	ID # 1 Ex+16				8	8	16

REMAINING BALANCES						
Month	Total	M&I	AG	M&I	AG	Total
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	0	0	0	0	0
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Allocation	0	0	0	478	647	1,125
Apr	0	0	0	478	647	1,125
May	0	0	0	493	666	1,159
Jun	0	0	0	510	689	1,199
Jul	0	0	0	493	671	1,164
Aug	0	0	0	440	599	1,039
Sep	0	0	0	339	460	799

TOTAL 799

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #175R-1802

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Goleta Water District**
 Last updated by **C.O.M.B. 09/29/17**

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT			
			Acre-feet			Acre-feet			Allocation		Acre-feet		
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	561	0	0	0	37	0	37	0	37	0	0	0
Nov			0	0	0	38	0	38	0	38	0	0	0
Dec			0	0	0	30	0	30	0	30	0	0	0
Jan			0	0	0	2	0	2	0	2	0	0	0
Feb			0	0	0	5	0	5	0	5	0	0	0
Mar			0	0	0	4	0	4	0	5	0	0	0
Apr	3729		0	0	0	7	0	7	0	7	0	0	0
May			0	0	0	9	0	9	0	10	0	0	0
Jun			0	0	0	10	0	10	0	10	0	0	0
Jul			102	36	137	11	137	148	110	39	0	0	0
Aug			474	158	632	8	262	270	203	67	278	93	371
Sep			386	129	515	0	0	0	0	0	386	129	515
Total	3729	561	962	323	1,284	162	399	561	313	248	664	222	886

CONVERSIONS					
STORAGE WATER			CURRENT SCHEDULE		
M & I	Agr		M & I	Agr	Month
0	0		0	0	Oct
0	0		0	0	Nov
0	0		0	0	Dec
0	0		0	0	Jan
0	0		0	0	Feb
0	0		0	0	Mar
0	0		0	0	Allocation
0	0		0	0	Apr
0	0		0	0	May
0	0		0	0	Jun
-32	32		0	0	Jul
-67	67		0	0	Aug
0	0		0	0	Sep

SCHEDULES AND REVISIONS						
	Total	M&I	AG	M&I	AG	Total
Begin Bal	561	412	149	0	0	0
Oct						0
Nov						0
Dec						0
Jan						0
Feb						0
Mar						0
Allocation				2,610	1,119	3,729
Apr					1	1
May					44	78
Jun					39	90
Jul					32	83
Aug					38	87
Sep					19	(93)
ID #1 Ex+35 / SB Overlap (-) 128.35 AF				(112)	19	(93)

REMAINING BALANCES						
Month	Total	M&I	AG	M&I	AG	Total
Oct	524	412	113	0	0	0
Nov	486	412	75	0	0	0
Dec	456	412	46	0	0	0
Jan	454	412	44	0	0	0
Feb	449	412	40	0	0	0
Mar	445	412	35	0	0	0
Allocation	445	412	35	2,610	1,119	3,729
Apr	438	412	28	2,610	1,120	3,730
May	429	412	18	2,644	1,164	3,808
Jun	419	412	7	2,682	1,216	3,898
Jul	270	270	0	2,715	1,266	3,981
Aug	0	0	0	2,475	1,222	3,697
Sep	0	0	0	1,977	1,112	3,089

TOTAL 3,089

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #I75R-1802

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 09/29/17

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT				
			Acre-feet			Acre-feet			Acre-feet				
			M & I	Agr	total	Evap	Div	Total	Allocation		M & I	Agr	Total
Oct	0	377	176	36	212	25	212	237	197	40	0	0	0
Nov			115	18	132	8	132	140	121	19	0	0	0
Dec			0	0	0	0	0	0	0	0	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0
Mar			0	0	0	0	0	0	0	0	0	0	0
Apr	1060		0	0	0	0	0	0	0	0	0	0	0
May			0	0	0	0	0	0	0	0	0	0	0
Jun			0	0	0	0	0	0	0	0	0	0	0
Jul			0	0	0	0	0	0	0	0	0	0	0
Aug			0	0	0	0	0	0	0	0	0	0	0
Sep			0	0	0	0	0	0	0	0	0	0	0
Total	1060	377	291	54	344	33	344	377	318	59	0	0	0

STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		Month
M & I	Agr	M & I	Agr	M & I	Agr	
-40	40	0	0	0	0	Oct
0	0	0	0	0	0	Nov
0	0	0	0	0	0	Dec
0	0	0	0	0	0	Jan
0	0	0	0	0	0	Feb
0	0	0	0	0	0	Mar
0	0	0	0	0	0	Allocation
0	0	0	0	0	0	Apr
0	0	0	0	0	0	May
0	0	0	0	0	0	Jun
0	0	0	0	0	0	Jul
0	0	0	0	0	0	Aug
0	0	0	0	0	0	Sep

SCHEDULE AND REVISIONS						
		Total	M & I	Agr	M & I	Agr
Begin Bal		377	377	0	0	0
Allocation					986	74
ID #1 Ex+1						1
ID #1 Ex+52					22	30
ID #1 Ex+60					26	34
ID #1 Ex+55					21	34
ID #1 Ex+58					26	32
ID #1 Ex+23 / Juncal Transfer (-) 298.51 AF					(288)	12

Month	REMAINING BALANCES					
	Total	M & I	Agr	M & I	Agr	Total
Oct	140	121	19	0	0	0
Nov	0	0	0	0	0	0
Dec	0	0	0	0	0	0
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Allocation	0	0	0	986	74	1,060
Apr	0	0	0	986	75	1,061
May	0	0	0	1,008	105	1,113
Jun	0	0	0	1,034	139	1,173
Jul	0	0	0	1,056	172	1,228
Aug	0	0	0	1,081	205	1,286
Sep	0	0	0	794	217	1,010

TOTAL 1,010

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #I75R-1802

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **City of Santa Barbara**
 Last updated by C.O.M.B. 09/29/17

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USE CHARGED TO CARRYOVER BALANCES						WATER USE CHARGED TO CURRENT ENTITLEMENT			
			Acre-feet			Acre-feet			Allocation			Acre-feet			
			M & I	Agr	total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total		
Oct	0	1239	474	0	474	81	474	555	555	0	0	0	0	0	0
Nov			393	0	393	38	393	431	431	0	0	0	0	0	0
Dec			243	0	243	5	243	248	248	0	0	0	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0	0	0
Mar			0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	3311		0	0	0	0	0	0	0	0	0	0	0	0	0
May			0	0	0	0	0	0	0	0	0	0	0	0	0
Jun			0	0	0	0	0	0	0	0	0	0	0	0	0
Jul			0	0	0	0	0	0	0	0	0	0	0	0	0
Aug			0	0	0	0	0	0	0	0	0	0	0	0	0
Sep			0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3311	1239	1,110	0	1,110	124	1,110	1,234	1,234	0	0	0	0	0	0

CONVERSIONS CURRENT SCHEDULE						SCHEDULE AND REVISIONS					
M & I	Agr	M & I	Agr	Month	Total	M&I	M&I	Total			
0	0	0	0	Begin Bal	1,239	1,239	0	0			
0	0	0	0	Oct				0			
0	0	0	0	Nov				0			
0	0	0	0	Dec				0			
0	0	0	0	Jan				0			
0	0	0	0	Feb				0			
0	0	0	0	Mar				0			
0	0	0	0	Allocation			3,311	3,311			
0	0	0	0	Apr	ID #1 Ex+1		1	1			
0	0	0	0	May	ID #1 Ex+52		52	52			
0	0	0	0	Jun	ID #1 Ex+60		60	60			
0	0	0	0	Jul	ID #1 Ex+55		55	55			
0	0	0	0	Aug	ID #1 Ex+58		58	58			
0	0	0	0	Sep	ID #1 Ex+24 / GWD Overlap +128.35 AF / MWD Juncal Trsfr +298.51 AF		451	451			

Month	REMAINING BALANCES					
	Total	M&I		M&I		Total
Oct	684	684	0	0	0	0
Nov	253	253	0	0	0	0
Dec	0	0	0	0	0	0
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Allocation	0	0	0	3,311	0	3,311
Apr	0	0	0	3,312	0	3,312
May	0	0	0	3,364	0	3,364
Jun	0	0	0	3,424	0	3,424
Jul	0	0	0	3,479	0	3,479
Aug	0	0	0	3,537	0	3,537
Sep	0	0	0	3,988	0	3,988

TOTAL 3,988

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #175R-1802

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**
 Last updated by C.O.M.B. 09/29/17

Month	Approved Schedule		WATER USE CHARGED TO CARRYOVER BALANCES						WATER USE CHARGED TO CURRENT ENTITLEMENT				
	Current Year	Previous Year	TOTAL WATER USED			Acre-feet			Acre-feet				
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	Total		
Oct	0	24	2	0	2	2	2	3	3	0	0	0	0
Nov			2	0	2	1	2	3	3	0	0	0	0
Dec			3	0	3	1	3	4	4	0	0	0	0
Jan			1	0	1	1	1	2	2	0	0	0	0
Feb			1	0	1	1	1	2	2	0	0	0	0
Mar			2	0	2	1	2	3	3	0	0	0	0
Apr	1060		2	0	2	0	2	2	2	0	0	0	0
May			3	0	3	0	3	3	3	0	0	0	0
Jun			3	0	3	0	2	2	2	0	1	0	1
Jul			3	0	3	0	0	0	0	0	3	0	3
Aug			2	0	2	0	0	0	0	0	2	0	2
Sep			2	0	2	0	0	0	0	0	2	0	2
Total	1060	24	26	0	26	7	17	24	24	0	8	0	8

CONVERSIONS						SCHEDULE AND REVISIONS						
STORAGE WATER			CURRENT SCHEDULE			Month	Total	M & I	Agr	M & I	Agr	Total
M & I	Agr		M & I	Agr								
0	0		0	0		Begin Bal	24	24	0	0	0	0
0	0		0	0		Oct						0
0	0		0	0		Nov						0
0	0		0	0		Dec						0
0	0		0	0		Jan						0
0	0		0	0		Feb						0
0	0		0	0		Mar						0
0	0		0	0		Allocation				353	707	1,060
0	0		0	0		Apr ID #1 Ex+1					(3)	(3)
0	0		0	0		May ID #1 Ex+216				(93)	(123)	(216)
0	0		0	0		Jun ID #1 Ex+250				(107)	(143)	(250)
0	0		0	0		Jul ID #1 Ex+229				(89)	(140)	(229)
0	0		48	(48)		Aug ID #1 Ex+241				(106)	(135)	(241)
0	0		48	(48)		Sep ID #1 Ex+98				(46)	(52)	(98)

COUNTY PARKS				REMAINING BALANCES			
Month	A.F. Used	Total	M & I	Agr	M & I	Agr	Total
Oct	1.72	21	21	0	0	0	0
Nov	1.72	18	18	0	0	0	0
Dec	2.60	14	14	0	0	0	0
Jan	0.93	12	12	0	0	0	0
Feb	0.90	10	10	0	0	0	0
Mar	1.56	8	7	0	0	0	0
Allocation					353	707	1,060
Apr	2.47	5	5	0	353	704	1,057
May	3.22	2	2	0	260	581	841
Jun	2.55	0	0	0	152	438	590
Jul	3.19	0	0	0	60	298	358
Aug		0	0	0	0	115	115
Sep		0	0	0	0	15	15

TOTAL 15

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #175R-1802

Contract Entity: **Santa Barbara Co. Water Agency**
 Last updated by **C.O.M.B. 09/29/17**

Contract Year: 10/1/16 to: 9/30/17

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES					WATER USED CHARGED TO CURRENT ENTITLEMENT			
			Acre-feet				Acre-feet			Allocation		Acre-feet			
			Used %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total	
Oct		0	2,201	37.8%	652	36	688	145	688	832	755	77	0	0	0
Nov				65.6%	509	18	527	85	527	612	555	57	0	0	0
Dec				12.79%	246	0	246	36	246	282	252	30	0	0	0
Jan				0.18%	1	0	1	3	1	4	2	2	0	0	0
Feb				0.32%	1	0	1	6	1	7	2	5	0	0	0
Mar				0.30%	2	0	2	5	2	7	3	5	0	0	0
Apr	10,285			0.43%	2	0	2	7	2	9	2	7	0	0	0
May				0.56%	3	0	3	9	3	12	3	10	0	0	0
Jun				0.58%	3	0	3	10	2	12	2	10	1	0	1
Jul				10.11%	136	76	211	11	137	148	110	39	34	40	74
Aug				36.61%	546	251	797	8	262	270	203	67	350	186	536
Sep				35.11%	496	277	773	0	0	0	0	0	496	277	773
Total	10,285	2201		200.42%	2,597	657	3,254	325	1,871	2,196	1,889	307	881	503	1,384

CONVERSIONS					
STORAGE WATER			CURRENT SCHEDULE		
M & I	Agr		M & I	Agr	Month
-40	40		0	0	Oct
0	0		0	0	Nov
0	0		0	0	Dec
0	0		0	0	Jan
0	0		0	0	Feb
0	0		0	0	Mar
0	0		0	0	Allocation
0	0		0	0	Apr
0	0		0	0	May
0	0		0	0	Jun
(32)	32		0	0	Jul
-67	67		48	-48	Aug
0	0		48	-48	Sep

SCHEDULE AND REVISIONS						
	Total	M & I	Agr	M & I	Agr	Total
Begin Bal	2,201	2,052	149	0	0	0
				0	0	0
				0	0	0
				0	0	0
				0	0	0
				0	0	0
				0	0	0
				7,738	2,547	10,285
				1	(1)	0
				30	(30)	0
				35	(35)	0
				34	(34)	0
				32	(32)	0
				13	(13)	0

COUNTY PARKS							
Month	A.F. Used	Total	M & I	Agr	M & I	Agr	Total
Oct	1.72	1,369	1,257	113	0	0	0
Nov	1.72	757	683	75	0	0	0
Dec	2.60	470	426	46	0	0	0
Jan	0.93	466	424	44	0	0	0
Feb	0.90	459	422	40	0	0	0
Mar	1.56	453	419	35	0	0	0
Allocation					7,738	2,547	10,285
Apr	2.47	443	417	28	7,739	2,546	10,285
May	3.22	431	414	18	7,769	2,516	10,285
Jun	2.55	419	412	7	7,802	2,482	10,284
Jul		270	270	0	7,802	2,408	10,210
Aug		0	0	0	7,533	2,141	9,674
Sep		0	0	0	7,097	1,804	8,901

TOTAL 8,901



CACHUMA DAILY OPERATIONS

Month & Year: October 2017

Time of Observations: 0830 Evaporation Pan Factor: 75%

Day	Beginning Storage: 82,752			Surface Area acres	Rainfall inches	Rainfall acre-feet	Evap. inches	Evap. acre-feet	CCWA Inflow acre-feet	Releases					Computed Inflow acre-feet
	Elevation ft	Storage acre-feet	Change acre-feet							S. Coast acre-feet	Hilton acre-feet	WR8918 acre-feet	Outlet acre-feet	Spillway acre-feet	
1	706.27	82580	-172	1725			0.324	34.9	42.1	82.0	3.0	107.0			12.6
2	706.18	82425	-155	1723			0.286	30.8	42.1	64.8	4.0	108.0			10.5
3	706.10	82287	-138	1721			0.270	29.0	42.1	62.0	3.0	110.0			24.1
4	706.00	82115	-172	1719			0.126	13.5	42.1	63.9	4.0	108.0			-24.9
5	704.37	79340	-2775	1682			0.133	14.0	42.1	64.8	3.0	108.0			-2627.4
6	704.28	79189	-151	1680			0.201	21.1	42.0	66.0	4.0	107.0			4.9
7	704.18	79021	-168	1677			0.372	39.0	42.0	61.7	3.0	110.0			3.7
8	704.08	78853	-168	1675			0.324	33.9	42.0	63.2	4.0	105.0			-3.9
9	704.00	78718	-134	1672			0.311	32.5	42.0	62.8	3.0	109.0			30.9
10	703.92	78584	-134	1670			0.298	31.1	42.0	63.4	3.0	108.0			29.1
11	703.85	78466	-118	1669			0.276	28.8	41.8	62.2	3.0	109.0			43.6
12	703.75	78298	-168	1666			0.181	18.8	42.0	77.8	4.0	107.0			-2.3
13	703.66	78147	-151	1664			0.292	30.4	42.2	88.2	3.0	109.0			37.2
14	703.55	77964	-183	1661			0.262	27.2	42.2	88.3	4.0	99.0			-6.5
15	703.46	77816	-149	1659			0.283	29.3	42.1	71.1	3.0	97.0			9.7
16	703.35	77634	-182	1657			0.281	29.1	42.1	69.8	3.0	99.0			-22.8
17	703.27	77502	-132	1655			0.275	28.4	42.1	70.5	4.0	97.0			25.7
18	704.57	79676	2174	1687			0.212	22.4	42.1	69.7	3.0	97.0			2323.8
19	704.48	79525	-151	1685			0.201	21.2	42.1	63.4	4.0	97.0			-7.7
20	704.38	79357	-168	1682			0.172	18.1	42.1	69.6	3.0	98.0			-21.4
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
TOTALS			-3396		0.00	0.0	5.080	533.6	841.3	1,385.2	68.0	2089.0	0.0	0.0	-161.1

Park Usage Rain % Yr. Total



**Santa Barbara County Parks Division,
Cachuma Lake Recreation Area**



**Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: **September 2017****

Cachuma Lake Recreation Area Launch Data -- September 2017		
Inspection Data		
Total Vessels entering Park	102	
Total Vessels launched	90	
Total Vessels Quarantined	12	
Returning with Boat Launch Tag	60	67%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	30	33%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	12	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	12	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	1	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	12	
Demographic Data		
Quarantined from infected county	1	
Quarantined from SB County	11	
Quarantined from uninfected co	0	

Boat Launch Tags: Boats with Cachuma Lake Boat Launch Tags attach boat to trailer.

No mussel species have been located on any vessel entering Cachuma Lake as of the last day of this month.

EARLY DETECTION MONITORING PROGRAM SUMMARY

Summary: No Dreissenid mussels were detected
 Inspection Site: Cachuma Lake Marina, Santa Barbara County, California
 Inspection Date and Time: 2017.09.28; 9:00 – 11:00 PDT
 Method: 5 PVC/Cement Sampling Stations; 56 linear feet of line
 Surveyors: Rosey Bishop, John Viggianelli (SBCO Parks)
 Lake elevation: Max feet: 753.00, current: 706.84; Max acre-feet: 193,305, current: 83,537;
 Current capacity: 43.20%