

**REGULAR MEETING
OF
CACHUMA OPERATION AND MAINTENANCE BOARD**
held at
**3301 Laurel Canyon Road
Santa Barbara, CA 93105**

Monday, October 28, 2019

1:00 PM

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 3, 2019 Special Board Meeting
 - b. Minutes of September 23, 2019 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 22, 2019
5. **FINANCIAL REVIEW – 1ST QUARTER FISCAL YEAR 2019-20**
Action: Receive and file the 1st Quarter Fiscal Year 2019-20 Financial Review
6. **RESOLUTION NO. 703 – LAKE CACHUMA SECURED PIPELINE ENGINEERING DESIGN SUPPORT**
Action: Recommend approval by motion and roll call vote of the Board
7. **GENERAL MANAGER REPORT**
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
 - Meetings
 - Personnel
 - Administration

8. ENGINEER / OPERATIONS REPORT

Receive information from the Water Resources Engineer, including but not limited to the following:

- Climate Conditions
- Infrastructure Improvement Project Updates
- Lake Cachuma Operations
- Operation and Maintenance Activities

9. QUIOTA CREEK CROSSING 8 FISH PASSAGE IMPROVEMENT PROJECT UPDATE

Receive information regarding Quiota Creek Crossing 8 Fish Passage Improvement Project

10. FISHERIES DIVISION REPORT

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

- LSYR 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)(1)]
Name of matter: *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

15. RECONVENE INTO OPEN SESSION

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

- 14a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

16. MEETING SCHEDULE

- **November 18, 2019 at 1:00 PM, 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.

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**MINUTES OF A SPECIAL MEETING
OF THE
CACHUMA OPERATION AND MAINTENANCE BOARD
held at**

3301 Laurel Canyon Road, Santa Barbara, California 93105

**Tuesday, September 3, 2019
10:00 A.M.**

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by President Holcombe at 10:00 AM.

Directors Present

Polly Holcombe, Carpinteria Valley Water District
Kristen Sneddon, City of Santa Barbara
Lauren Hanson, Goleta Water District
Cori Hayman, Montecito Water District

General Counsel Present:

William Carter, Musick, Peeler & Garrett, LLP, via teleconference

Staff Present:

Janet Gingras, General Manager
Tim Robinson, Fisheries Division Manager
Dorothy Turner, Administrative Assistant II

2. PUBLIC COMMENT

There was no public comment.

3. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: POTENTIAL LITIGATION

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

The Board entered into Closed Session at 10:01 AM.

4. RECONVENE INTO OPEN SESSION

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

- 3a. Possible Litigation

The Board came out of Closed Session at 10:20 AM. There was no reportable action.

5. REVIEW AND CONSIDER POSSIBLE AMENDMENT TO RESOLUTION NO. 688 (MAY 20, 2019) REGARDING APPROVAL OF EXPENDITURES FOR QUIOTA CREEK CROSSING NO. 8 FISH PASSAGE IMPROVEMENT PROJECT

President Holcombe introduced the agenda item. Mr. Carter advised the Board that the County of Santa Barbara intends to sign “Addendum No. 5” (Exhibit F) and “Addendum No. 6” (Exhibit G) as they relate to Quiota Creek Crossings No. 3 and No. 4 and the Master Agreement (MOU) with the County. Mr. Carter proposed contingency language to replace the contingencies contained within Resolution No. 688. Director Hayman, noting that contingency No. 1 contained in Resolution No. 688 is now moot, motioned that a resolution be drafted for the Board President’s signature to supersede Resolution No. 688, incorporating the contingency language outlined by counsel and authorizing the General Manager to proceed with project permits, solicitation of bids and purchase of the bridge components for the Quiota Creek Crossing No. 8 Project once the outlined contingency was satisfied. The motion was seconded by Director Hanson and passed unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

6. MEETING SCHEDULE

- **September 23, 2019 Regular Board Meeting at 1:00 P.M., COMB Office**
- **Board Packages available on COMB website www.cachuma-board.org**

7. COMB ADJOURNMENT

There being no further business, the meeting was adjourned at 10:50 AM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

APPROVED:

Polly Holcombe, President of the Board

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

held at
3301 Laurel Canyon Road, Santa Barbara, CA 93105

**Monday, September 23, 2019
1:00 PM**

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by President Holcombe at 1:01 PM

Directors Present:

Polly Holcombe, Carpinteria Valley Water District
Kristen Sneddon, City of Santa Barbara
Lauren Hanson, Goleta Water District
Cori Hayman, Montecito Water District

General Counsel Present:

William Carter, Musick, Peeler & Garrett, LLP

Staff Present:

Janet Gingras, General Manager	Tim Robinson, Fisheries Division Manager
Edward Lyons, Administrative Manager/CFO	Dorothy Turner, Administrative Assistant II
Joel Degner, Water Resources Engineer	

Others Present:

Cathy Taylor, City of Santa Barbara	Phil Walker, Santa Barbara Resident
Matt Young, County of Santa Barbara	

2. PUBLIC COMMENT

Mr. Walker addressed the Board, commenting upon the State Water Resources Control Board order requiring the US Bureau of Reclamation to take additional steps to protect steelhead habitat below Bradbury Dam.

3. CONSENT AGENDA

- a. Minutes of August 26, 2019 Regular Board Meeting
- b. Investment of Funds
 - Financial Reports
 - Investment Reports
- c. Review of Paid Claims

Ms. Gingras presented the Consent Agenda as contained the Board packet. She reviewed the Paid Claims report and fielded questions from the Board. Director Sneddon motioned to approve the Consent Agenda items as presented. Seconded by Director Hayman, the motion carried with a unanimous vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

4. VERBAL REPORTS FROM BOARD COMMITTEES

- ***Special Fisheries Committee Meeting – September 12, 2019:*** President Holcombe reported on behalf of the Fisheries Committee meeting, noting that the item has been moved forward to this agenda for Board discussion and possible approval.

5. CACHUMA PROJECT WARREN ACT TRUST FUND / RENEWAL FUND 2019-2020 ANNUAL AND LONG-TERM PLANS - SANTA BARBARA COUNTY BETTERMENT FUND USE OF FUNDS

- a. Approval of Program Expenditures – Warren Act Trust Fund for FY 2019-2020
- b. Approval of Program Expenditures - Santa Barbara County Water Agency’s Betterment Fund for FY 2019-20

Ms. Gingras presented the staff memo for Board consideration of the Warren Act Trust Fund / Renewal Fund annual and long-term plans and Santa Barbara County Betterment Fund expenditures for Fiscal Year 2019-20. She reviewed the Annual and Five Year plans for fund expenditures. Ms. Gingras fielded questions from the Board. Following Board discussion, Director Hanson motioned that the annual and long-term plans be received and filed by the Board and fund expenditures be approved as presented. Director Sneddon seconded the motion which carried unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

6. RESOLUTION NO. 701 – FISH PASSAGE IMPROVEMENT PROJECT AT QUIOTA CREEK CROSSING NO. 8

1. Approving Issuance of Notice of Award
2. Authorizing Execution of Construction Contract with the Responsive, Responsible Bidder

Ms. Gingras presented Resolution No. 701 for Board consideration, to authorize the General Manager to issue a Notice of Award and execute a construction contract with Peter Lapidus Construction, in an amount not to exceed \$719,975. She reviewed the competitive bid process that was conducted, noting that permits require that the project instream work be completed by October 31, 2019 with the entire project completed by December 15, 2019. Ms. Gingras fielded questions from the Board. Director Hayman made a motion to approve the Resolution as presented. Director Sneddon seconded and the motion was carried unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

7. GENERAL MANAGER REPORT

- Personnel
- Administration
- Engineering / Operations Activities

Ms. Gingras presented the General Manager report, highlighting staff training, the status of grant funding opportunities and the status of the Employee Handbook. Additionally, Ms. Gingras reported on the O&M Contract Renewal, the Infrastructure Improvement Plan progress and the Fiscal Year 2019-20 Work Plan. She provided an update on COMB staff's discussions with Cal Trans regarding their planned erosion control measures near DeVaul Canyon. Ms. Gingras fielded questions from the Board.

8. ENGINEER / OPERATIONS DIVISION REPORT

- Climate Conditions
- Lake Cachuma Water Quality and Sediment Management Study
- Sycamore Canyon Slope Stabilization Project
- San Jose Creek SCC Stream Protection Measures
- Infrastructure Improvement Plan Project Status
- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Degner presented the Engineer report, highlighting climate conditions, the status of the Lake Cachuma Water Quality & Sediment Study and the nearly completed Sycamore Canyon Slope Stabilization project. He provided information on watershed health and the risk potential for erosion events based upon past or future wild fires. Mr. Degner reviewed the San Jose Creek Pipe Stabilization project and fielded questions from the Board.

Mr. Degner also presented the Operations Division report, noting that structure maintenance has been completed on the lower reach and work continues on the structures in the upper reach. In addition to routine tasks, he reported that staff has assisted with nutrient and algal sampling in conjunction with the Lake Cachuma Water Quality & Sediment Study and has cleared the right-of-way around the South Portal and Glen Annie Reservoir.

9. FISHERIES DIVISION REPORT

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

Mr. Robinson presented the Fisheries Division report, highlighting the status of the Hilton Creek Watering System repair and the upcoming fall snorkel survey. He reported that the summer snorkel survey revealed that the fish seemed to be re-populating the main stem of the river. Additionally Mr. Robinson provided updates on the Quiota Creek Crossing 8 project and the Annual Monitoring Report for 2018. He fielded questions from the Board.

10. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree Program report, noting ongoing maintenance of the young trees, upcoming acorn collection from mature trees for germination and a successful Oak Tree Program tour. Additionally he reported that the annual meeting remains to be scheduled.

11. MONTHLY CACHUMA PROJECT REPORTS

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

Ms. Gingras presented the Cachuma Project reports. Mr. Lyons provided comments, reporting reservoir elevations and upcoming water year allocations as well as noting that the Member Units continue to use project water.

12. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

There were no requests from Directors.

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

- a. [Government Code Section 54956.9(d)(1)]
Name of matter: *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

The Board entered into Closed Session at 2: 25 PM.

14. RECONVENE INTO OPEN SESSION

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

- 13a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

The Board came out of Closed Session at 2:41 PM. There was no reportable action.

15. REGULAR BOARD MEETING SCHEDULE

- **October 28, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website www.cachuma-board.org**

16. COMB ADJOURNMENT

There being no further business, the meeting was adjourned at 2:43 PM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

APPROVED:

Polly Holcombe, President of the Board

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Cachuma Operation & Maintenance Board
Statement of Net Position
As of September 30, 2019
UNAUDITED FINANCIALS

Sep 30, 19

ASSETS

Current Assets

Checking/Savings

Trust Funds

1210 - Warren Act Trust Fund \$ 691,617.72

1220 - Renewal Fund 10,215.61

Total Trust Funds \$ 701,833.33

1050 - General Fund 490,380.81

1100 - Revolving Fund 126,964.65

Total Checking/Savings 1,319,178.79

Accounts Receivable

1301 - Accounts Receivable 126,571.43

1325 - Bank Loan Receivable - EPFP 115,862.54

Total Accounts Receivable 242,433.97

Other Current Assets

1010 - Petty Cash 500.00

1200 - LAIF 820,250.03

1303 - Bradbury SOD Act Assessments Receivable 201,351.00

1304 - Lauro Dam SOD Assessment Receivable 31,080.14

1400 - Prepaid Insurance 14,764.72

Total Other Current Assets 1,067,945.89

Total Current Assets 2,629,558.65

Fixed Assets

1500 - Vehicles 475,733.27

1505 - Office Furniture & Equipment 355,185.56

1510 - Mobile Offices 97,803.34

1515 - Field Equipment 537,803.92

1525 - Paving 38,351.00

1550 - Accumulated Depreciation (1,341,093.60)

Total Fixed Assets 163,783.49

Other Assets

1923 - Deferred Outflow (GASB 75) 214,063.00

1910 - Long Term Bradbury SOD Act Assessment Receivable 4,478,803.07

1920 - Long Term Lauro SOD Act Assessment Receivable 804,089.14

1922 - Deferred Out Flow of Resources (GASB 68) 497,820.00

Total Other Assets 5,994,775.21

TOTAL ASSETS \$8,788,117.35

Cachuma Operation & Maintenance Board
Statement of Net Position
As of September 30, 2019
UNAUDITED FINANCIALS

	Sep 30, 19
LIABILITIES & NET POSITION	
Liabilities	
Current Liabilities	
Accounts Payable	
2200 - Accounts Payable	\$ 101,480.81
Total Accounts Payable	101,480.81
Other Current Liabilities	
2550 - Vacation/Sick Leave	182,133.24
2561 - Bradbury Dam SOD Act	201,351.00
2563 - Lauro Dam SOD Act	31,080.14
2565 - Accrued Interest SOD Act	57,465.00
2567 - Loan Payable Current EPFP	434,126.11
2590 - Deferred Revenue	701,833.33
Total Other Current Liabilities	1,607,988.82
Total Current Liabilities	1,709,469.63
Long Term Liabilities	
2602 - Long Term SOD Act Liability-Bradbury	4,478,793.07
2603 - Long Term SOD Act Liability - Lauro	804,089.14
2604 - OPEB Long Term Liability	5,384,212.00
2605 - Loan Payable Principal - EPFP	380,614.82
2610 - Net Pension Liability (GASB 68)	1,732,868.00
2611 - Deferred In Flow of Resources (GASB 68)	141,294.00
Total Long Term Liabilities	12,921,871.03
Total Liabilities	14,631,340.66
Net Position	
3000 - Opening Balance Net Position	(5,296,580.05)
3901 - Retained Net Assets	(437,125.81)
Net Income	(109,517.45)
Total Net Position	(5,843,223.31)
TOTAL LIABILITIES & NET POSITION	\$ 8,788,117.35

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2019 - Jun 2020

	Fisheries				Operations				TOTAL			
	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget
Revenue												
3000 REVENUE												
3001 - O&M Budget (Qtrly Assessments)	\$ 234,159.00	\$ 936,631.00	\$ (702,472.00)	25.0%	\$ 921,842.00	\$ 3,687,371.00	\$ (2,765,529.00)	25.0%	\$ 1,156,001.00	\$ 4,624,002.00	\$ (3,468,001.00)	25.0%
3006 - Warren Act	0.00	591,523.00	-591,523.00	0.0%	0.00				0.00	591,523.00	-591,523.00	0.0%
3009 - EPPF Loan (Qtrly Assessments)	0.00				115,862.54				115,862.54	0.00	115,862.54	100.0%
3020 - Misc Income	0.00				250.00				250.00	0.00	250.00	100.0%
3021 - Grant Income	0.00				448.00				448.00	0.00	448.00	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%
3042 - Sycamore Cnyn Slope Stablin Reim	0.00				37,982.00	450,752.00	-412,770.00	8.43%	37,982.00	450,752.00	-412,770.00	8.43%
3043 - Grant-QC Crossing #8	0.00	1,010,700.00	-1,010,700.00	0.0%	0.00				0.00	1,010,700.00	-1,010,700.00	0.0%
Total 3000 REVENUE	234,159.00	2,628,854.00	-2,394,695.00	8.91%	1,076,384.54	4,138,123.00	-3,061,738.46	26.01%	1,310,543.54	6,766,977.00	-5,456,433.46	19.37%
Total Revenue	234,159.00	2,628,854.00	-2,394,695.00	8.91%	1,076,384.54	4,138,123.00	-3,061,738.46	26.01%	1,310,543.54	6,766,977.00	-5,456,433.46	19.37%
Gross Profit	\$ 234,159.00	\$ 2,628,854.00	\$ (2,394,695.00)	8.91%	\$ 1,076,384.54	\$ 4,138,123.00	\$ (3,061,738.46)	26.01%	\$ 1,310,543.54	\$ 6,766,977.00	\$ (5,456,433.46)	19.37%
Expense												
3100 - LABOR - OPERATIONS	\$ -	\$ -	\$ -		\$ 210,976.62	\$ 952,164.00	\$ (741,187.38)	22.16%	\$ 210,976.62	\$ 952,164.00	\$ (741,187.38)	22.16%
3200 VEH & EQUIPMENT												
3201 - Vehicle/Equip Mtce	0.00				7,551.90	30,000.00	-22,448.10	25.17%	7,551.90	30,000.00	-22,448.10	25.17%
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				520.36	5,000.00	-4,479.64	10.41%	520.36	5,000.00	-4,479.64	10.41%
3204 - Miscellaneous	0.00				670.84	5,000.00	-4,329.16	13.42%	670.84	5,000.00	-4,329.16	13.42%
Total 3200 VEH & EQUIPMENT	0.00				8,743.10	55,000.00	-46,256.90	15.9%	8,743.10	55,000.00	-46,256.90	15.9%
3300 - CONTRACT LABOR												
3301 - Conduit, Meter, Valve & Misc	0.00				1,862.65	20,000.00	-18,137.35	9.31%	1,862.65	20,000.00	-18,137.35	9.31%
3302 - Buildings & Roads	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
3303 - Reservoirs	0.00				1,935.69	30,000.00	-28,064.31	6.45%	\$ 1,935.69	30,000.00	-28,064.31	6.45%
3304 - Engineering, Misc Services	0.00				10,763.68	25,000.00	-14,236.32	43.06%	10,763.68	25,000.00	-14,236.32	43.06%
Total 3300 - CONTRACT LABOR	0.00				14,562.02	95,000.00	-80,437.98	15.33%	14,562.02	95,000.00	-80,437.98	15.33%
3400 - MATERIALS & SUPPLIES												
3401 - Conduit, Meter, Valve & Misc	0.00				2,585.22	65,000.00	-62,414.78	3.98%	2,585.22	65,000.00	-62,414.78	3.98%
3402 - Buildings & Roads	0.00				1,488.69	8,000.00	-6,511.31	18.61%	1,488.69	8,000.00	-6,511.31	18.61%
3403 - Reservoirs	0.00				60.91	5,000.00	-4,939.09	1.22%	60.91	5,000.00	-4,939.09	1.22%
Total 3400 - MATERIALS & SUPPLIES	0.00				4,134.82	78,000.00	-73,865.18	5.3%	4,134.82	78,000.00	-73,865.18	5.3%
3500 - OTHER EXPENSES												
3501 - Utilities	0.00				1,443.60	7,000.00	-5,556.40	20.62%	1,443.60	7,000.00	-5,556.40	20.62%
3502 - Uniforms	0.00				1,141.63	5,000.00	-3,858.37	22.83%	1,141.63	5,000.00	-3,858.37	22.83%
3503 - Communications	0.00				4,296.02	20,500.00	-16,203.98	20.96%	4,296.02	20,500.00	-16,203.98	20.96%
3504 - USA & Other Services	0.00				534.80	4,000.00	-3,465.20	13.37%	534.80	4,000.00	-3,465.20	13.37%
3505 - Miscellaneous	0.00				2,540.41	8,000.00	-5,459.59	31.76%	2,540.41	8,000.00	-5,459.59	31.76%
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				9,956.46	47,500.00	-37,543.54	20.96%	9,956.46	47,500.00	-37,543.54	20.96%
4100 - LABOR - FISHERIES	162,658.55	704,515.00	-541,856.45	23.09%	0.00				162,658.55	704,515.00	-541,856.45	23.09%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2019 - Jun 2020

	Fisheries				Operations				TOTAL			
	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget
4200 - VEHICLES & EQUIP - FISHERIES												
4270 - Vehicle/Equip Mtce	8,342.19	20,000.00	-11,657.81	41.71%	0.00				8,342.19	20,000.00	-11,657.81	41.71%
4280 - Fixed Capital	0.00	35,000.00	-35,000.00	0.0%	0.00				0.00	35,000.00	-35,000.00	0.0%
4290 - Miscellaneous	132.84	2,500.00	-2,367.16	5.31%	0.00				132.84	2,500.00	-2,367.16	5.31%
Total 4200 - VEHICLES & EQUIP - FISHERIES	8,475.03	57,500.00	-49,024.97	14.74%	0.00				8,475.03	57,500.00	-49,024.97	14.74%
4220 - CONTRACT LABOR - FISHERIES												
4221 - Meters & Valves	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
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	0.00	28,000.00	-28,000.00	0.0%	0.00				0.00	28,000.00	-28,000.00	0.0%
4300 - MATERIALS/SUPPLIES - FISHERIES												
4390 - Miscellaneous	953.36	7,000.00	-6,046.64	13.62%	0.00				953.36	7,000.00	-6,046.64	13.62%
Total 4300 - MATERIALS/SUPPLIES - FISHERIES	953.36	7,000.00	-6,046.64	13.62%	0.00				953.36	7,000.00	-6,046.64	13.62%
4500 - OTHER EXPENSES - FISHERIES												
4502 - Uniforms	782.21	3,500.00	-2,717.79	22.35%	0.00				782.21	3,500.00	-2,717.79	22.35%
Total 4500 - OTHER EXPENSES - FISHERIES	782.21	3,500.00	-2,717.79	22.35%	0.00				782.21	3,500.00	-2,717.79	22.35%
4999 - GENERAL & ADMINISTRATIVE												
5000 - Director Fees	0.00				2,225.60	12,500.00	-10,274.40	17.81%	2,225.60	12,500.00	-10,274.40	17.81%
5001 - Director Mileage	0.00				157.51	500.00	-342.49	31.5%	157.51	500.00	-342.49	31.5%
5100 - Legal	0.00				4,502.25	75,000.00	-70,497.75	6.0%	4,502.25	75,000.00	-70,497.75	6.0%
5101 - Audit	0.00				8,281.32	22,750.00	-14,468.68	36.4%	8,281.32	22,750.00	-14,468.68	36.4%
5150 - Unemployment Tax	0.00				3,149.98	5,000.00	-1,850.02	63.0%	3,149.98	5,000.00	-1,850.02	63.0%
5200 - Liability Insurance	0.00				29,024.00	50,551.00	-21,527.00	57.42%	29,024.00	50,551.00	-21,527.00	57.42%
5310 - Postage/Office Exp	0.00				1,251.05	5,000.00	-3,748.95	25.02%	1,251.05	5,000.00	-3,748.95	25.02%
5311 - Office Equip/Leases	0.00				1,861.80	9,200.00	-7,338.20	20.24%	1,861.80	9,200.00	-7,338.20	20.24%
5312 - Misc Admin Expenses	0.00				2,303.25	14,000.00	-11,696.75	16.45%	2,303.25	14,000.00	-11,696.75	16.45%
5313 - Communications	0.00				2,554.07	8,500.00	-5,945.93	30.05%	2,554.07	8,500.00	-5,945.93	30.05%
5314 - Utilities	0.00				2,395.42	9,737.00	-7,341.58	24.6%	2,395.42	9,737.00	-7,341.58	24.6%
5315 - Membership Dues	0.00				7,792.85	9,410.00	-1,617.15	82.82%	7,792.85	9,410.00	-1,617.15	82.82%
5316 - Admin Fixed Assets	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
5318 - Computer Consultant	0.00				2,990.52	16,500.00	-13,509.48	18.12%	2,990.52	16,500.00	-13,509.48	18.12%
5325 - Emp Training/Subscriptions	0.00				894.00	2,000.00	-1,106.00	44.7%	894.00	2,000.00	-1,106.00	44.7%
5330 - Admin Travel/Conferences	0.00				1,042.95	2,000.00	-957.05	52.15%	1,042.95	2,000.00	-957.05	52.15%
5331 - Public Information	0.00				0.00	3,500.00	-3,500.00	0.0%	0.00	3,500.00	-3,500.00	0.0%
Total 4999 - GENERAL & ADMINISTRATIVE	0.00				70,426.57	249,148.00	-178,721.43	28.27%	70,426.57	249,148.00	-178,721.43	28.27%
5299 - ADMIN LABOR	0.00				145,544.94	610,984.00	-465,439.06	23.82%	145,544.94	610,984.00	-465,439.06	23.82%
5400 - GENERAL & ADMIN - FISHERIES												
5407 - Legal - FD	4,692.00	100,000.00	-95,308.00	4.7%	0.00				4,692.00	100,000.00	-95,308.00	4.7%
5410 - Postage / Office Supplies	591.46	4,000.00	-3,408.54	14.79%	0.00				591.46	4,000.00	-3,408.54	14.79%
5411 - Office Equipment / Leases	972.49	6,518.00	-5,545.51	14.92%	0.00				972.49	6,518.00	-5,545.51	14.92%
5412 - Misc. Admin Expense	1,183.84	7,500.00	-6,316.16	15.79%	0.00				1,183.84	7,500.00	-6,316.16	15.79%
5413 - Communications	1,475.72	5,805.00	-4,329.28	25.42%	0.00				1,475.72	5,805.00	-4,329.28	25.42%
5414 - Utilities	1,288.29	5,243.00	-3,954.71	24.57%	0.00				1,288.29	5,243.00	-3,954.71	24.57%
5415 - Membership Dues	4,196.15	5,955.00	-1,758.85	70.46%	0.00				4,196.15	5,955.00	-1,758.85	70.46%
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%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2019 - Jun 2020

	Fisheries				Operations				TOTAL			
	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget	Jul - Sep 19	Budget	\$ Over/Under Budget	% of Budget
5418 - Computer Consultant	1,610.28	9,000.00	-7,389.72	17.89%	0.00				1,610.28	9,000.00	-7,389.72	17.89%
5425 - Employee Education/Subsription	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5426 - Director Fees	1,198.40	6,700.00	-5,501.60	17.89%	0.00				1,198.40	6,700.00	-5,501.60	17.89%
5427 - Director Mileage	84.80	300.00	-215.20	28.27%	0.00				84.80	300.00	-215.20	28.27%
5430 - Travel	197.89	2,500.00	-2,302.11	7.92%	0.00				197.89	2,500.00	-2,302.11	7.92%
5431 - Public Information	0.00	1,500.00	-1,500.00	0.0%	0.00				0.00	1,500.00	-1,500.00	0.0%
5441 - Audit	7,884.18	12,250.00	-4,365.82	64.36%	0.00				7,884.18	12,250.00	-4,365.82	64.36%
5443 - Liab & Property Ins	15,628.30	24,745.00	-9,116.70	63.16%	0.00				15,628.30	24,745.00	-9,116.70	63.16%
Total 5400 - GENERAL & ADMIN - FISHERIES	40,313.80	197,516.00	-157,202.20	20.41%	0.00				40,313.80	197,516.00	-157,202.20	20.41%
5499 - ADMIN LABOR-FISHERIES	50,634.15	240,823.00	-190,188.85	21.0%	0.00				50,634.15	240,823.00	-190,188.85	21.0%
5510 - Integrated Reg. Water Mgt Plan	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
6000 - SPECIAL PROJECTS												
6062 - SCADA	0.00				38.81	35,000.00	-34,961.19	0.11%	38.81	35,000.00	-34,961.19	0.11%
6090 - COMB Office Building	0.00				1,456.40	25,000.00	-23,543.60	5.83%	1,456.40	25,000.00	-23,543.60	5.83%
6096 - SCC Structure Rehabilitation	0.00				0.00	400,000.00	-400,000.00	0.0%	0.00	400,000.00	-400,000.00	0.0%
6097 - GIS and Mapping	0.00				925.00	10,000.00	-9,075.00	9.25%	925.00	10,000.00	-9,075.00	9.25%
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%
6120 - Emergency Pumping Fac Project	0.00				10,500.00	225,000.00	-214,500.00	4.67%	10,500.00	225,000.00	-214,500.00	4.67%
6132 - Sycamore Canyon Slope Stabiliz	0.00				567,720.40	605,242.00	-37,521.60	93.8%	567,720.40	605,242.00	-37,521.60	93.8%
6135 - SCC San Jose Creek Pipe Stabili	0.00				17,339.73	150,000.00	-132,660.27	11.56%	17,339.73	150,000.00	-132,660.27	11.56%
6136 - SCC Isolation Valve Evaluation	0.00				0.00	150,000.00	-150,000.00	0.0%	0.00	150,000.00	-150,000.00	0.0%
6137 - SCC Lower Reach Lateral Structu	0.00				12,491.00	150,000.00	-137,509.00	8.33%	12,491.00	150,000.00	-137,509.00	8.33%
6138 - Cachuma Watershed Mgmt Study	0.00				31,975.50	275,085.00	-243,109.50	11.62%	31,975.50	275,085.00	-243,109.50	11.62%
Total 6000 - SPECIAL PROJECTS	0.00				642,446.84	2,045,327.00	-1,402,880.16	31.41%	642,446.84	2,045,327.00	-1,402,880.16	31.41%
6200 - FISHERIES ACTIVITIES												
6201 - FMP Implementation	3,417.82	33,000.00	-29,582.18	10.36%	0.00				3,417.82	33,000.00	-29,582.18	10.36%
6202 - GIS and Mapping	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
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	6,000.00	-6,000.00	0.0%	0.00				0.00	6,000.00	-6,000.00	0.0%
6205 - USGS Stream Gauge Program	7,936.65	100,000.00	-92,063.35	7.94%	0.00				7,936.65	100,000.00	-92,063.35	7.94%
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	1,326.11	30,000.00	-28,673.89	4.42%	0.00				1,326.11	30,000.00	-28,673.89	4.42%
Total 6200 - FISHERIES ACTIVITIES	12,680.58	194,000.00	-181,319.42	6.54%	0.00				12,680.58	194,000.00	-181,319.42	6.54%
6300 - HABITAT ENHANCEMENT												
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	27,590.34	1,176,000.00	-1,148,409.66	2.35%	0.00				27,590.34	1,176,000.00	-1,148,409.66	2.35%
Total 6300 - HABITAT ENHANCEMENT	27,590.34	1,196,000.00	-1,168,409.66	2.31%	0.00				27,590.34	1,196,000.00	-1,168,409.66	2.31%
7007 - INTEREST EXPENSE-EPFP	0.00				8,491.60				8,491.60	0.00	8,491.60	100.0%
Total Expense	304,778.02	2,628,854.00	-2,324,075.98	11.59%	1,115,282.97	4,138,123.00	-3,022,840.03	26.95%	1,420,060.99	6,766,977.00	-5,346,916.01	20.99%
Net Surplus / Deficit	-70,619.02	0.00	-70,619.02	100.0%	-38,898.43	0.00	-38,898.43	100.0%	-109,517.45	0.00	-109,517.45	100.0%

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 28, 2019
Submitted by:	Janet Gingras

SUBJECT: Investment Report – September 30, 2019

RECOMMENDATION

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of September 30, 2019.

DISCUSSION

Cash and investment programs are maintained in accordance with California Government Code Section 53600 et seq. and COMB's adopted investment policy. These policies ensure proper control and safeguards are maintained throughout the financial transaction process. Pursuant to State law, the COMB Board adopts a detailed investment policy through a Board resolution on an annual basis.

Reports on COMB's investment portfolio and cash position are developed and presented to the COMB Board on a monthly basis, in conformity with the California Government Code.

Unrestricted Cash

Unrestricted cash exceeding current operating needs is invested in LAIF to generate interest income. The average monthly effective yield rate, as of September 2019, is reported at 2.280%.

See Table 1 below for a summary of balances held in unrestricted accounts.

TABLE 1			
Unrestricted Reserve Funds		Date	Principal
Local Agency Investment Fund (LAIF)			
Previous Balance		08/31/2019	\$ 1,620,250.03
(+) Deposits/Credits			-
(-) Checks/Withdrawals		09/25/2019	-800,000.00
Statement Balance		09/30/2019	\$ 820,250.03

Restricted Cash


The Cachuma Project Warren Act Trust Fund (Trust Fund) and Cachuma Project Master Contract Renewal Fund (Renewal Fund) are two separate funds that have been established through contracts with the U.S. Bureau of Reclamation (Reclamation). The Trust Fund and the Renewal Fund require annual and five-year plans which are used to inform the Funds Committee in making decisions on expenditures for betterment of the Cachuma Project.

See Table 2 below for a summary of balances held in restricted accounts.

TABLE 2			
Restricted Reserve Funds		Date	Principal
American Riviera Bank Renewal Account			
	Previous Balance	08/31/2019	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	09/30/2019	\$ 10,215.61
American Riviera Bank Warren Acct Trust Fund			
	Previous Balance	08/31/2019	\$ 691,617.72
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	09/30/2019	\$ 691,617.72

STATEMENT

The above statement of investment activity for the month of September, 2019, 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 and LAIF investments of this agency for the period indicated.



 Secretary

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Cachuma Operation & Maintenance Board

Paid Claims

As of September 30, 2019

Date	Num	Name	Memo	Amount
1050 - General Fund				
09/05/2019	27097	Association of Ca Water Agencies/JPIA	October Health Benefits Coverage	-28,251.72
09/05/2019	27098	AT&T	Long Distance Charges	-74.61
09/05/2019	27099	Carpinteria Valley Lumber Company	Supplies (Ops)	-45.95
09/05/2019	27100	Cori Hayman	Director Fees August 2019	-161.60
09/05/2019	27101	Culligan of Sylmar	RO Rental September 2019	-28.95
09/05/2019	27102	ECHO Communications	Message Service September 2019	-71.10
09/05/2019	27103	Frontier Communications	Phone Service - Ortega Reservoir (Ops)	-60.39
09/05/2019	27104	Frontier Communications	Phone Service - North Portal (Ops)	-60.39
09/05/2019	27105	Frontier Communications	Phone Service - Carpinteria Reservoir (Ops)	-60.39
09/05/2019	27106	Frontier Communications	Phone Service - Alarm/Fax/Modem/Boardroom	-185.46
09/05/2019	27107	HDR Engineering, Inc.	FMP Implementation & Quiota Creek Crossing 8 - Engineering Services	-531.85
09/05/2019	27108	Kristen Sneddon	Director Fees August 2019	-309.62
09/05/2019	27109	Lauren W. Hanson	Director Fees August 2019	-311.60
09/05/2019	27110	Musick, Peeler & Garrett LLP	General Counsel (Ops & Fisheries)	-1,981.60
09/05/2019	27111	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 8/09/19 & 8/23/19	-204.50
09/05/2019	27112	Polly Holcombe	Director Fees August 2019	-433.22
09/05/2019	27113	Southern California Edison	Electricity - Main & Outlying Stations	-1,395.72
09/05/2019	27114	Trenchalk Network Services, Inc.	Network & Software Support	-1,614.40
09/05/2019	27115	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee (Ops)	-234.40
09/05/2019	27116	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalffs 3051ci & 6052ci	-411.08
09/05/2019	27117	Wright Express Fleet Services	Fleet Fuel August 2019 (Ops & Fisheries)	-3,310.83
09/09/2019	27118	County of S.B.-P.W. Trans	Quiota Creek Crossing 8 - Permit Payment Balance	-20,303.00
09/12/2019	27119	A-OK Power Equipment-SB	Supplies (Ops)	-220.70
09/12/2019	27120	City of Santa-Barbara	Trash / Recycling August 2019	-285.46
09/12/2019	27121	Coastal Copy, LP	Copier Maintenance Agreement - Taskalffs 3051ci & 6052ci	-427.14
09/12/2019	27122	Cox Communications Santa Barbara	Business Internet September 2019	-140.00
09/12/2019	27123	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-1,500.00
09/12/2019	27124	Flowers & Associates, Inc.	Sycamore Canyon Slope Stabilization - Engineering Services	-4,435.90
09/12/2019	27125	Flowers & Associates, Inc.	South Coast Conduit Lower Reach Lateral Structures - Engineering Services	-5,491.00
09/12/2019	27126	Giffin Rental & Western Welding	Equipment Rental - Chipper for ROW Maintenance (Ops)	-520.36
09/12/2019	27127	HDR Engineering, Inc.	San Jose Creek Crossing Pipe Stabilization - Engineering Services	-5,981.26
09/12/2019	27128	Home Depot Credit Services	Equipment & Supplies (Ops)	-626.14
09/12/2019	27129	J&C Services	Office Cleaning Service - Weekly 8/9/19-8/30/19	-600.00
09/12/2019	27130	Premiere Global Services	Conference Calls August 2019	-115.68
09/12/2019	27131	Southern California Edison	Electricity - 1700 Glen Annie Road Gate & 1550 Glen Annie Road	-20.62
09/12/2019	27132	Staples Credit Plan	Office Supplies (Ops & Fisheries)	-259.69
09/12/2019	27133	Tri-Co Reprographics	Quiota Creek Crossing 8 - Printing	-89.50
09/12/2019	27134	Verizon Wireless	Operations Cell Phones, iPads, Modems	-1,213.76
09/12/2019	27135	Woodard & Curran	Lake Cachuma Water Quality Study	-9,355.50
09/17/2019	27136	Central Coast Regional Water Quality Cont	San Jose Creek Pipe Stabilization - Permit No. 63	-1,638.00
09/19/2019	27137	Buena Tool Co.	Honda Generator (Ops) & Truck Tool Box (Fisheries)	-1,979.25
09/19/2019	27138	City of Santa Barbara-Central Stores	Supplies (Ops)	-379.46
09/19/2019	27139	County of Santa-Barbara	Oak Tree Program - Mulch	-125.80
09/19/2019	27140	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-1,525.00
09/19/2019	27141	HDR Engineering, Inc.	South Coast Conduit Structure Rehab - Engineering Services	-9,298.43
09/19/2019	27142	Impulse Advanced Communications	Phone Service - Main	-446.97
09/19/2019	27143	Pitney Bowes Global Financial Services LL	Postage Meter Quarterly Lease Payment 10/10/19-1/9/20	-436.16
09/19/2019	27144	Southern California Edison	Electricity - 4120 Foothill Road PED (Ops)	-10.59
09/25/2019	27145	Bureau of Reclamation	1st Period Entitlement 10/1/19-4/1/20	-630,918.91
09/25/2019	27146	Bureau of Reclamation	Safety of Dam Payment - Bradbury	-261,647.70
09/25/2019	27147	Bureau of Reclamation	Safety of Dam Payment - Lauro	-47,404.66
09/25/2019	ACH092519A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
09/25/2019	ACH092519B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
09/27/2019	27148	Hanly General Engineering Corporation	Sycamore Canyon Slope Stabilization - Construction Services	-404,549.90
09/30/2019	27149	Hanly General Engineering Corporation	Sycamore Canyon Slope Stabilization - Construction Services	-27,862.10
Total 1050 - General Fund				-1,518,025.98

APPROVED FOR PAYMENT

Director

Director

Director

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CACHUMA OPERATION & MAINTENANCE BOARD

Operations Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Tuesday, October 22, 2019
8:30 a.m.

Chair: Director Sneddon
Member: Director Holcombe

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. Lake Cachuma Secured Pipeline Engineering Design Support (*for information and possible recommendation*)
4. Engineering / Operations Update (*for information and possible recommendation*)
 - Sycamore Slope Stabilization Project
 - San Jose Creek Pipeline Protection Project
 - AVAR/BO Rehabilitation Project
 - Water Quality and Sediment Management Study
 - Five-Year Infrastructure Improvement Plan
 - Fiscal Year 2019-20 Draft Work Plan
 - AWIA Risk and Resiliency Plan
5. Construction Projects within USBR Right-of-Way (*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 687-4011 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.]

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 28, 2019
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: Financial Review – 1st Quarter Fiscal Year 2019-20

RECOMMENDATION:

The Board of Directors receive and file the 1st Quarter Fiscal Year 2019-20 Financial Review and exhibit.

DISCUSSION:

The Board of Directors approves the Cachuma Operation and Maintenance Board (COMB) Budget each fiscal year. Unaudited financial statements are received and filed by the Board on a monthly basis. Staff provides, on a quarterly basis, a fiscal year-to-date financial review of the unaudited interim financial reports to the Board of Directors, comparing actual expenditures to the Budget.

FISCAL ANALYSIS:

Revenues Assessed and Collected

- COMB assessed and collected \$1.16M in quarterly O&M Budget Assessments for the period July – September 2019. Additionally, pursuant to the Separation Agreement, starting in Fiscal Year 2017-18 and going forward, certain actual expenditures incurred by COMB will be collected from Santa Ynez River Conservation District, ID No. 1 (a non-member agency) through an invoice issued quarterly by COMB. COMB is currently pursuing collection of unpaid amounts from ID No. 1 for fiscal years 2017-18 and 2018-19.
- COMB assessed and collected \$630.9K in pass-through charges on behalf of the US Bureau of Reclamation for the 1st payment period entitlement obligation covering October 1, 2019 to April 1, 2020.
- COMB assessed and collected \$309.1K in pass-through charges on behalf of the US Bureau of Reclamation for the annual Bradbury and Lauro Safety of Dams (SOD) repayment obligation for the water year 2019-20.
- COMB assessed \$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 2019. Payments are due by the end of October.
- COMB collected in \$37.9K from FEMA/CalOES related to the Sycamore Canyon Slope Stabilization project. Additionally, COMB submitted a final Request for Reimbursement to CalOES following the completion of the project and received a Notification of Approval of the obligated amount. Staff will meet with representatives of CalOES to conduct a formal close-out of the project including a determination of final reimbursement.
- COMB collected \$8.3k in interest income for funds held with LAIF.

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, temporary/contract labor, 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 \$111.4K (24.9%) are within budget. Notable expenses include payment of the annual ACWA-JPIA Auto and General Liability premium (\$40.7K). COMB recognized a 31% decrease in premium as compared to FY 2018-19 due to a decrease in claims incurred and reported for the prior 3 years measuring period.

General and Administrative (Continued)

- General and Administrative Labor includes salaries, employer taxes, health insurance and retirement benefit costs for the COMB General Manager and Administrative staff. General and Administrative Labor expense of \$196.2K (23.0%) are within budget.
- **The total combined General and Administrative expenses and labor of \$307.6K (23.7%) through September are within budget.**

Operations Division

- Operation and Maintenance Labor includes salaries, employer taxes, health insurance and retirement benefit costs. Personnel costs of \$211K (22.2%) are within budget. COMB filled one vacant position in August. There are no additional vacancies at this time.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Actual costs of \$8.7K (15.9%) are within budget.
- Contract Labor contains funds for outside services and labor that cannot be supported by COMB staff which may include elevator maintenance or 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 \$14.6K (15.3%) are within budget.
- Materials and Supplies covers costs related to the operation and maintenance of the conduit, reservoirs, and outlying buildings and roads. Actual costs of \$4.1K (5.3%) are within 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 \$9.9K (21.0%) are within budget.
- Special Projects - Board policy requires that all infrastructure improvement projects are to be approved through Committee and by the Board prior to commencement. Actual costs through September were \$642.4K. This amount is attributed to the following projects: Sycamore Canyon Slope Stabilization (\$567.7K), Water Quality and Sediment Management Study (\$31.9K), San Jose Creek Pipe Stabilization (\$17.3K), SCC Lower Reach Lateral Structure Repair (\$12.4K) and the storage of key components of the pumping barge (\$10.5K). The timing and ranking of projects are dependent on factors such as: (1) water supply reliability, (2) risk, (3) critical need/life cycle of asset, (4) safety, and (5) service disruption necessary to accomplish project.
- **The total Operations Division expenses of \$1.12M (27.0%) through September are slightly higher than budget due to the timing of construction related to the infrastructure improvement projects referenced in the preceding paragraph. This amount is expected to**

be partially offset with anticipated reimbursement from FEMA/CalOES during the second quarter of FY 2019-20.

Fisheries Division

- Fisheries Division Labor includes salaries, employer taxes, health insurance and retirement benefit costs for the Fisheries Division Manager, two Senior Field Biologists, a Biologist Aide position, and four part-time seasonal positions. Personnel costs of \$162.7K (23.1%) are within 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 \$8.5K (14.7%) are within budget.
- 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. Projected consultant services are reviewed by the General Manager and Fisheries Division Manager to control costs in this category. No notable costs have been incurred in this category thru September. COMB has entered into an annual agreement with HDR Engineering to perform tasks outlined in an agreed upon scope of work (SOW) under this category. Work under this agreement is expected to occur periodically throughout the year.
- Materials and Supplies includes costs for the purchase of items needed for the Fisheries Monitoring Program specifically for migration, spawning and over-summering; constructing and repairing fish migration traps and the equipment necessary to conduct snorkel and redds surveys. Actual costs of \$1K (13.6%) are within budget.
- Other Expenses include funds to pay for uniforms and gear for the fisheries division employees. Actual costs of \$1K (22.3%) are within budget.
- Fisheries Division Activities includes funding for special activities related to ongoing Cachuma Project Biological Opinion (BiOp) compliance efforts, the implementation of the Lower Santa Ynez River Fisheries Monitoring Program (FMP), GIS mapping, grants technical support, USGS Stream Gauge Program and the Oak Tree Restoration Program. The use of external consultants and the timing of expenditures can vary year-to-year based on specific program needs or as particular stream or habitat issues arise. COMB has decreased the budget for FY 2019-20 in the amount of \$23K amongst these various categories. Actual costs of \$12.7K (6.5%) are within the apportioned budget.
- Fisheries Habitat Improvement - Board policy requires that all habitat improvement projects are to be approved through Committee and by the Board prior to commencement. Costs of \$27.6K (2.3%) through September are related to the Quiota Creek Crossing 8 project. Installation of this fish passage is expected to be completed in the second quarter.
- **The total Fisheries Division expenses of \$304.8K (11.6%) through September are within 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 (SWP) 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 is comprised of funds collected for calendar year 2018 SWP deliveries of \$591K. These funds were reviewed by the Cachuma Project Warren Act Trust Funds Advisory Committee at their meeting in May 2019 and will be appropriated towards eligible FY 2019-20 fisheries activities.

COMB has collected an additional \$62.8K of Warren Act Trust Fund payments from CCWA for SWP deliveries that occurred in calendar year 2019. These funds will be reviewed by the committee during spring 2020 for use in FY 2020-21.

- **Renewal Fund (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 Warren Act Trust Fund during the immediately preceding Calendar Year bears to \$300,000.

For WY 2019-20, the amount required to be deposited into the Renewal Fund by the Cachuma Member Units was 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 (EPFP) 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, 2019, the total combined principal outstanding for the EPFP loan obligation is approximately \$814K.

- **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 2019-20 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 2019-20 is \$44,404.66 and assesses the South Coast Member Agencies (only) in accordance with each Member Agencies' pro-rata Cachuma Project entitlement percentages.

LIST OF EXHIBITS:

- 1) Fiscal Year 2019-20 Statement of Revenue and Expenditures

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**Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
Budget vs. Actuals July 2019 - June 2020**

	Fisheries				Operations				TOTAL			
	Jul - Sep 20	Budget	\$ Over / (Under)		Jul - Sep 20	Budget	\$ Over / (Under)		Jul - Sep 20	Budget	\$ Over / (Under)	
			Budget	% of Budget			Budget	% of Budget			Budget	% of Budget
Income												
Revenue	234,159.00	2,628,854.00	-2,394,695.00	8.9%	1,076,384.54	4,138,123.00	-3,061,738.46	26.0%	1,310,543.54	6,766,977.00	-5,456,433.46	19.4%
Total Income	234,159.00	2,628,854.00	-2,394,695.00	8.9%	1,076,384.54	4,138,123.00	-3,061,738.46	26.0%	1,310,543.54	6,766,977.00	-5,456,433.46	19.4%
Gross Profit	234,159.00	2,628,854.00	-2,394,695.00	8.9%	1,076,384.54	4,138,123.00	-3,061,738.46	26.0%	1,310,543.54	6,766,977.00	-5,456,433.46	19.4%
Expense												
General and Admin Expenses	41,003.80	197,516.00	-156,512.20	20.8%	70,426.57	249,148.00	-178,721.43	28.3%	111,430.37	446,664.00	-335,233.63	24.9%
General and Admin Labor	50,634.15	240,823.00	-190,188.85	21.0%	145,544.94	610,984.00	-465,439.06	23.8%	196,179.09	851,807.00	-655,627.91	23.0%
O&M Labor	0.00				210,976.62	952,164.00	-741,187.38	22.2%	210,976.62	952,164.00	-741,187.38	22.2%
O&M Vehicle & Equip	0.00				8,743.10	55,000.00	-46,256.90	15.9%	8,743.10	55,000.00	-46,256.90	15.9%
O&M Contract Labor	0.00				14,562.02	95,000.00	-80,437.98	15.3%	14,562.02	95,000.00	-80,437.98	15.3%
O&M Material and Supplies	0.00				4,134.82	78,000.00	-73,865.18	5.3%	4,134.82	78,000.00	-73,865.18	5.3%
O&M Other Expenses	0.00				9,956.46	47,500.00	-37,543.54	21.0%	9,956.46	47,500.00	-37,543.54	21.0%
O&M Special Projects	0.00				642,446.84	2,050,327.00	-1,407,880.16	31.3%	642,446.84	2,050,327.00	-1,407,880.16	31.3%
Fisheries Labor	162,658.55	704,515.00	-541,856.45	23.1%	0.00				162,658.55	704,515.00	-541,856.45	23.1%
Fisheries Vehicle & Equip	8,475.03	57,500.00	-49,024.97	14.7%	0.00				8,475.03	57,500.00	-49,024.97	14.7%
Fisheries Contract Labor	0.00	28,000.00	-28,000.00	0.0%	0.00				0.00	28,000.00	-28,000.00	0.0%
Fisheries Material and Supplies	953.36	7,000.00	-6,046.64	13.6%	0.00				953.36	7,000.00	-6,046.64	13.6%
Fisheries Other Expenses	782.21	3,500.00	-2,717.79	22.3%	0.00				782.21	3,500.00	-2,717.79	22.3%
Fisheries Activities	12,680.58	194,000.00	-181,319.42	6.5%	0.00				12,680.58	194,000.00	-181,319.42	6.5%
Fisheries Habitat Enhancement	27,590.34	1,196,000.00	-1,168,409.66	2.3%	0.00				27,590.34	1,196,000.00	-1,168,409.66	2.3%
Other Interest Expense - EPPF	0.00				8,491.60				8,491.60	0.00	8,491.60	100.0%
Total Expense	304,778.02	2,628,854.00	-2,324,075.98	11.6%	1,115,282.97	4,138,123.00	-3,022,840.03	27.0%	1,420,060.99	6,766,977.00	-5,346,916.01	21.0%
Net Income	-70,619.02	0.00	-70,619.02	100.0%	-38,898.43	0.00	-38,898.43	100.0%	-109,517.45	0.00	-109,517.45	100.0%

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CACHUMA OPERATION & MAINTENANCE BOARD

MEMORANDUM

Date:	October 28, 2019
Submitted by:	Joel Degner
Approved by:	Janet Gingras

SUBJECT: Resolution No. 703 - Lake Cachuma Secured Pipeline Engineering Design Support

RECOMMENDATION:

The Board review the staff report and proposed cost for the Lake Cachuma Secured Pipeline Engineering Design Support and authorize the General Manager to execute a contract with Makai Ocean Engineering, Inc. in an amount not to exceed \$173,397.

SUMMARY:

The South Coast Conduit conveys water supplied from Lake Cachuma through the Tecolote Tunnel Intake Tower, which is located approximately mid-reservoir. If drought conditions occur in the winter of 2019-2020 and 2020-21 with no significant inflow water will be unable to gravity flow through the intake structure due to diminishing lake levels.

Previous dry periods and diminishing lake levels have required the Emergency Pumping Facility to be installed at Lake Cachuma. The previous installations were temporary facilities with a floating pipeline and floating pump station which allowed water to be pumped into the Intake Tower.

The current design requires the installation of anchor piles into the lake bottom which secure the floating pipeline to the floating pump station. In the most recent installation, these anchor piles were installed when the lake elevation was approximately 695 ft. The current design has several key limitations outlined below.

Pumping was not required in the 2014-2017 drought until the lake reached 676 ft. elevation. The approximate 25,000 AF in storage between 695 ft and 676 ft can last over a year in drought conditions (as it did from August 2014 to August 2015). The installed pipeline, anchor piles, and pumping station is required to stay on idle at least one year under the current design, when a wet winter with high inflows could require the removal of the entire system without it being utilized. In addition, during February 2017, the lake rose 23 feet in one day which made the removal of the anchor piles extremely difficult.



COMB requested engineering support (Feasibility Study) to modify the design to secure the Site 1 pipeline component on the bottom of the lake. Makai Ocean Engineering completed the Lake Cachuma Conveyance Feasibility Study in May 2019 (Task 1 of the overall design project). It covered: (1) the suitability of the existing pipeline for future use; (2) pipe weight design, spacing, and deployment; (3) air entrainment analysis; (4) modeling and conceptual design of pump station connection pipeline; and, (5) opinion of probable rough-order of magnitude project costs.. With the remaining funds, Makai provided an additional

analysis on gravity intake flow and alternative pump station locations in Memorandum 4. Based on their performance on the feasibility study, COMB plans to continue to work with Makai to develop continued design investigations and pipeline design and construction documents. The scope of the remaining tasks are:

Task 2: Secured Pipeline Continued Design Investigations

Based on the results of the feasibility study, the contractor would evaluate the remaining design issues which include the following:

- Maximum lake elevation that the secured pipeline can be economically installed in Lake Cachuma
- Evaluation of staging site suitability for different water level deployment scenarios
- Determine sufficiency of existing intake box to support the loads of the secured pipeline
- Design of the gravity intake including potential modifications for installation of a land-based pump system in the future
- Identify additional hydraulic or bathymetric surveys that may be needed
- Answer technical queries in support of the client’s environmental permitting activities
- Engage with potential marine Contractors to explore construction practicalities and establish list of potential bidders
- Recommend specific sediment removal sites

Task 3: Secured Pipeline Design and Construction Documents

The contractor would prepare construction documents for bid and award of the secured pipeline project including pipeline details and specifications, pipeline connection to the intake tower, pipeline connection to a floating barge, and alternative connection to a land-based pump station. Plans, specifications, and engineer’s opinion of probable costs would be provided at the 75% and 100% progress stage.

Makai Ocean Engineering provided a proposal for secured pipeline design and bid support for Lake Cachuma Conveyance Operations on October 2, 2019. The proposal is based on a time and materials basis and the proposed costs are provided in Table 1.

Table 1. Secured Pipeline Design Support Costs

Task #	Weight	Milestone	Cost
1	Feasibility Study	Completed	\$29,240
2	Secured Pipeline Continued Design Investigations	January 31 st , 2020	\$35,530
3	Secured Pipeline Design and Construction Documents	May 15 th , 2020	\$138,397
4	Bid-Phase Engineering Services, bid solicitation	TBD	\$25,895
Total of Tasks 2 and 3			\$173,927

For the feasibility study, COMB reviewed two proposals and recommended Makai Ocean Engineering, Inc. to perform the Lake Cachuma conveyance operations feasibility study based on cost and qualifications. Makai Ocean Engineering has extensive state-of-the-art experience in marine installation of HDPE. Makai also provided a feasibility study at a lower cost in addition to a detailed technical approach including potential innovative solutions. Makai Ocean Engineering completed the feasibility study within the budget including an additional task to evaluate a gravity intake for the pipeline. Based on their performance on the feasibility study, COMB staff recommends to continue to utilize Makai Ocean Engineering for the project design.

FISCAL IMPACTS:

The Emergency Pumping Facility Project (EPFP) budget for fiscal year 2019-2020 is \$225,000. This budget amount includes the \$42,000 storage costs with Cushman Contracting Corporation (\$3,500/month) to maintain the key components of the EPFP. The approval of a contract with Makai Ocean Engineering, Inc. for the secured pipeline design in the amount of \$173,927 is within the approved operating budget.

ENVIRONMENTAL COMPLIANCE:

There are no environmental compliance measures required to pursue the engineering design. Staff is working with Reclamation to complete the CEQA/NEPA environmental compliance document for the Project.

COMMITTEE STATUS:

The Operations Committee reviewed the staff recommendation and forwards the proposed cost for the Lake Cachuma Secured Pipeline Engineering Design Support to the Board with a recommendation to approve and authorize the General Manager to execute a contract with Makai Ocean Engineering, Inc. in an amount not to exceed \$173,397.

LIST OF EXHIBITS:

1. Resolution No. 703
2. Non-Competitive Bid Justification

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RESOLUTION NO. 703

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD
AUTHORIZING CONTRACT EXECUTION WITH MAKAI OCEAN
ENGINEERING, INC. FOR ENGINEERING DESIGN SUPPORT FOR
THE LAKE CACHUMA SECURED PIPELINE PROJECT**

WHEREAS, the Cachuma Operation & Maintenance Board (“COMB”) is a joint powers authority and public entity, organized and existing in the County of Santa Barbara in accordance with Government Code Section 6500 *et seq.*, and operating pursuant to the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project - Cachuma Operation And Maintenance Board, dated May 23, 1996 (“Amended and Restated Agreement”), as amended by an Amendment to the Amended and Restated Agreement made effective September 16, 2003; and as amended by the Second Amendment to the 1996 Amended and Restated Agreement made effective November 20, 2018 (collectively the “Joint Powers Agreement”); and

WHEREAS, the Member Agencies of COMB consist of the Goleta Water District, the City of Santa Barbara, the Montecito Water District, and the Carpinteria Valley Water District; and

WHEREAS, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract with the United States Bureau of Reclamation (“Reclamation”), including the Intake Tower and attached appurtenances enabling continued gravity flow to the Tecolote Tunnel through to the South Coast Conduit (“SCC”). The SCC is a critical piece of infrastructure that provides for the conveyance of Cachuma Project water and State Project water to over 200,000 residents on the South Coast of Santa Barbara County (“South Coast”); and

WHEREAS, a recent seven (7)-year drought with diminishing lake levels required the installation and operation of a temporary Emergency Pumping Facility (“EPF”) at Lake Cachuma; and

WHEREAS, previous installations of the EPFs were temporary and included a floating pipeline and floating pump station that allowed water to be pumped into the Intake Tower; and

WHEREAS, COMB solicited engineering support (Feasibility Study) through a competitive Request for Proposal (“RFP”) to modify the design of an EPF to secure the Site 1 pipeline component on the bottom of the lake. Makai Ocean Engineering, Inc. (“Makai”) prevailed as the lowest responsible proposer and completed the Lake Cachuma Conveyance Feasibility Study in May 2019; and

WHEREAS, Makai completed the scoped Feasibility Study with remaining unspent funds and was tasked to provide an additional analysis on gravity intake flow and alternative pump station locations; and

WHEREAS, based on extensive underwater pipeline experience, exceptional work product, detailed technical approach and additional analysis presented by Makai, COMB staff recommends utilizing Makai to further develop design investigations and pipeline design and construction documents as part of the Lake Cachuma Secured Pipeline Engineering Design Support project (“Project”) in order to maintain continuity and provide cost-effective analysis and work product;

WHEREAS, on October 22, 2019, the Operations Committee reviewed the staff recommendation and forwards the proposed cost proposal for the Project to the Board with a recommendation to approve and authorize the General Manager to execute a contract with Makai in an amount not to exceed \$173,397.

WHEREAS, it is necessary for COMB to implement the Project as outlined in the related staff report to ensure the continued reliable conveyance of Cachuma Project water to the Member Agencies.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF COMB AS FOLLOWS:

1. The Governing Board finds and determines that the facts set forth in the above recitals and in the documents referenced herein are true and correct.

2. The Governing Board authorizes the General Manager to execute a contract for the Lake Cachuma Secured Pipeline Engineering Design Support Project with Makai Ocean Engineering, Inc. in an amount not to exceed \$173,397.

3. The Governing Board further authorizes COMB’s officers and staff, including the General Manager, to continue to do all things necessary and appropriate, including, but not limited to, execution and delivery of necessary documents, the obtaining of applicable permits, and any other actions to implement the Project using the approved expenditures.

5. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 28th day of October 2019, by the following roll call vote:

Ayes:

Nays:

Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

CACHUMA OPERATON & MAINTENANCE BOARD

Non-Competitive Bid (NCB) Justification

Date: October 28, 2019
To: COMB Board of Directors
From: Engineering / Operations Division
Project: Lake Cachuma Secured Pipeline Engineering Design Support

Complete responses must be provided for all of the following questions:

A. Why is the submission of a NCB necessary and what are the determining factors?

COMB staff recommended and the Board approved engineering support (Feasibility Study) for Makai Ocean Engineering, Inc. to modify / develop a design to secure the Site 1 pipeline component of the Emergency Pumping Facility Project to the bottom of the lake.

The goals of the modified design were to: (1) reduce the elevation triggers for installing the EPFP; (2) eliminate the need to install and remove temporary anchor piles; (3) eliminate the need to store the pipeline on the shoreline of the lake; and (4) reduce the deployment period from one year to 120 days. A modified design would allow the decision to deploy the facility to be made in the month of April once lake conditions are known, and to have the pumping facility operational by August. The secured pipeline would also reduce the cost for each subsequent use of the Emergency Pumping Facility. With a secured pipeline installed, the remaining assembly would include the floating pump station which would connect to the secured pipeline at Site 1.

Staff sent a Request for Proposal to two experienced underwater HDPE pipeline installation engineering firms, Makai Ocean Engineering, Inc. and Cross Marine Projects, Inc., to request costs for a feasibility study. The study included reviewing previous surge analysis, preliminary design reports, and determining whether the current pipeline stored at the lake could be utilized for the submerged application. Also requested was a recommendation for pipeline if the current pipeline did not meet standards, a ballast design, options to mitigate air pipeline hydraulics, conceptual connection to a floating pump station, and a probable construction cost estimate. The content of the proposal also required a summary of qualifications, proposed technical approach, schedule, and estimated time to complete.

Staff reviewed the two proposals and recommended Makai Ocean Engineering, Inc. to perform the Lake Cachuma conveyance operations feasibility study. Makai Ocean Engineering has extensive state-of-the-art experience in marine installation of HDPE. Makai also provided the feasibility study at a lower cost in addition to a detailed technical approach including potential innovative solutions.

Makai completed the scoped feasibility with remaining unspent funds. With the remaining funds, Makai provided an additional analysis on gravity intake flow and alternative pump station locations in Memorandum 4. Based on their performance on the feasibility study, COMB plans to continue to work with Makai to develop continued design investigations and pipeline design and construction documents.

B. What are the consequences of not having this NCB approved?

Contracting with an alternative engineering firm would most likely change the trajectory of the feasibility study and project pathway and interrupt efforts made in the progression of the project. The consequences of not approving the contract with Makai Ocean Engineering, Inc. would be an increase in costs and delay in effecting designs in preparation for the completion of environmental compliance documents which are necessary for the Reclamation Drought Resiliency Grant Award.

C. How will COMB ensure adequate planning to prevent submittal of NCB's for goods or services that should have been competitively bid?

The original request for proposal for the feasibility study was competitively bid. The prevailing engineering firm, Makai Ocean Engineering, Inc. performed extremely successful on the feasibility study and was able to provide additional analysis using unspent funds. They have based a proposal for the design phase on competitively bid pricing. By approving a contract for the engineering design phase, COMB is able to obtain engineering consistency, limit risk and costs for this critically important design work.

RESTRICTED CONTRACTOR JUSTIFICATION (NON COMPETITIVE BID)

A. PRICE ANALYSIS

1. How was the price offered determined to be fair and reasonable?

Based on their previous performance, experience, additional extraordinary analysis and deliverables through the feasibility study, COMB requested an engineering design support quotation from Makai Ocean Engineering, Inc. based on their former competitive proposal. Makai's hourly rate has been verified to be highly competitive with other engineering firms. In addition, staff compared the costs for each line item in the proposal to previous approved engineering firms offering similar support tasks and was deemed to be fair and reasonable.

2. Describe any cost savings realized or costs avoided by acquiring the goods/services from this contractor.

By continuing to utilize this engineering firm who was priced much lower than the competition for the feasibility study, COMB would continue to cost effectively complete this critically important project. Makai Ocean Engineering, Inc. has proven to be organized, highly skilled, and extremely competent to perform the continued effort on their proposed design for the secured pipeline project.



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 28, 2019

General Manager Report

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

Meetings

- **Santa Barbara County Integrated Regional Water Management Plan**

The Santa Barbara County IRWMP Participating Cooperating Partners met on October 1, 2019. The group received a presentation from the County of Santa Barbara Planning and Development Department. The presentation was titled Safety Element & Climate Vulnerability Assessment. The spokesperson provided an update on the County's efforts to prepare a vulnerability assessment in response to Senate Bill 379 which requires all cities and counties to include climate adaptation and resiliency strategies in the safety elements of their general plans.

The group received an update on the 2019 IRWM Plan update and round 1 funding. In June, the group elected to move forward with three regional projects for round 1 funding. Project sponsors and key representatives from the group met with the Department of Water Resources in September to review the proposed submission and receive feedback. Final applications for Round 1 funding are due in December 2019 with preliminary awards to be announced in February 2020 which will be followed by a 30-day public comment period. The Round 2 application process is expected to occur in 2021.

Since the meeting, the Santa Barbara IRWM plan has been reviewed by DWR and was determined to be consistent with the 2016 IRWM Guideline requirements. DWR is currently updating all content on its website to be in compliance with the Americans with Disabilities Act digital accessibility standards as specified in Assembly Bill (AB) 434 “State Web Accessibility”. DWR is waiting for the Public Affairs Office to upload the Santa Barbara IRWM plan review that meets the web accessibility requirements of AB 434, which should occur soon.

- **Santa Barbara County Office of Emergency Services**

Over the past few weeks, COMB staff participated in a series of conference calls scheduled and hosted by the Santa Barbara County Office of Emergency Services (OEM) related to the Southern California Edison Public Safety Power Shutdown (PSPS) events. The conference call participants were specifically limited to critical partners in the County who provide public services to the areas affected by potential outages. The purpose of the calls were to inform agencies regarding details of possible power outages and coordinate mutual aid resources and/or relay potential impacts. The County OEM was extremely proactive on providing real-time information to the group. COMB staff monitored the situation and was prepared to respond according to established standard operating procedures.

Personnel

- **Confined Space Training**

In early October, COMB hosted a confined space training class provided through the ACWA/JPIA Safety Program. In addition to COMB staff, five participants from Montecito Water District participated. This was a refresher class for most of the attendees, however, COMB had two new distribution operators in attendance. The objective of the training was to:

- Identify what classifies an area as a confined space
- Recognize hazards associated with confined spaces
- Review the duties of entrants, attendants and “confined space” supervisors
- Understand emergency procedures

Cal OSHA expects emergency procedures are established and practiced at least annually. COMB tracks and records all personnel safety training implemented through established standard operating procedures.

Administration

- **Comprehensive Annual Financial Report – FY 2017-18**

COMB’s Comprehensive Annual Financial Report (CAFR) for fiscal year ending June 30, 2018 was awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association of the United States and Canada (GFOA). The Certificate of Achievement (attached) is the highest form of recognition for excellence in the state and local government financial reporting. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. The report must satisfy both generally accepted accounting principles and applicable legal requirements. Compliments to COMB’s Administrative Manager and staff for their professionalism in achieving this prestigious award.

- **Auto / General Liability Insurance**

COMB’s auto and general liability insurance policy premiums have decreased by 31% as compared to the past two fiscal years. The loss ratio for the prior three consecutive years was determined to be extremely low resulting in a significant decrease to the experience modification calculation for the scheduled period. Staff remains diligent in employing prudent safety measures while implementing operational work activities as reflected in the experience modification factor.

- **Contracts Executed by the General Manager – 1st Quarter Fiscal Year 2019-20**

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, 2019 through September 30, 2019 is presented for information.

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.

Table 1 below lists all contracts executed by the General Manager for the period July 1, 2019 through September 30, 2019, sorted by execution date.

Table 1				
Contracts Executed by General Manager				
July 1 - September 30, 2019				
Vendor Name	Contract Description	Date Executed	Date Expires	Contract Amount
Kenneth A. Knight Consulting, LLC	Lake Cachuma Oak Tree Restoration Program, FY 2019-20	07/31/2019	06/30/2020	\$6,000
HDR Engineering, Inc.	Engineering services for Fisheries Division, FY 2019-20	08/01/2019	06/30/2020	\$64,500
Cushman Contracting Corp	South Coast Conduit Air Vacuum/Blow Off Rehabilitation Work, Schedules D&E	09/09/2019	06/30/2020	\$398,320
ConTech Engineered Solutions, LLC	Pre-fabricated bottomless-arched culvert for Quiota Creek Crossing 8	09/23/2019	10/18/2019	\$309,501
Filippin Engineering Inc.	Engineering Services: Construction observation for Quiota Creek Crossing 8	09/23/2019	12/15/2019	\$14,820
Peter Lapidus Construction, Inc.	Construction of Quiota Creek Crossing 8	09/24/2019	12/13/2019	\$719,975
Krazan & Associates, Inc.	Engineering services: testing & inspection for Quiota Creek Crossing 8	09/26/2019	12/15/2019	\$5,818

Respectfully Submitted,

Janet Gingras
 General Manager

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GOVERNMENT FINANCE OFFICERS ASSOCIATION
NEWS RELEASE

FOR IMMEDIATE RELEASE

10/03/2019

(Chicago, Illinois)--The Certificate of Achievement for Excellence in Financial Reporting has been awarded to **Cachuma Operation and Maintenance Board** by Government Finance Officers Association of the United States and Canada (GFOA) for its comprehensive annual financial report (CAFR). The Certificate of Achievement is the highest form of recognition in the area of governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management.

An Award of Financial Reporting Achievement has been awarded to the individual(s) or department designated by the government as primarily responsible for preparing the award-winning CAFR.

The CAFR has been judged by an impartial panel to meet the high standards of the program, which includes demonstrating a constructive "spirit of full disclosure" to clearly communicate its financial story and motivate potential users and user groups to read the CAFR.

Government Finance Officers Association (GFOA) advances excellence in government finance by providing best practices, professional development, resources and practical research for more than 20,500 members and the communities they serve.

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The Government Finance Officers Association
of the United States and Canada

presents this

AWARD OF FINANCIAL REPORTING ACHIEVEMENT

to

Cachuma Operation and Maintenance Board, California



The award of Financial Reporting Achievement is presented by the Government Finance Officers Association to the individual(s) designated as instrumental in their government unit achieving a Certificate of Achievement for Excellence in Financial Reporting. A Certificate of Achievement is presented to those government units whose annual financial reports are judged to adhere to program standards and represents the highest award in government financial reporting.

Executive Director

Christopher P. Morill

Date October 3, 2019

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CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: October 28, 2019
TO: Janet Gingras, General Manager
FROM: Joel Degner, Water Resources Engineer
RE: MONTHLY ENGINEERING/OPERATIONS REPORT

The following summary provides the Board with information and an overview of progress by engineering staff related to on-going studies and infrastructure improvement projects.

CLIMATE CONDITIONS

Water exports from Lake Cachuma in September continued to be lower than anticipated (approximately 14 percent). There has been no rain during October and watershed conditions are very dry and at risk to potential wildfires. Based on the current lake elevations, forecasted imports/exports, and using historical hydrology from water year 2000 to 2019, there is a 45% chance the Lake Cachuma could fill and spill this winter (Figure 1). The earliest that is likely to occur would be in early January if hydrology similar to 2005 would occur.

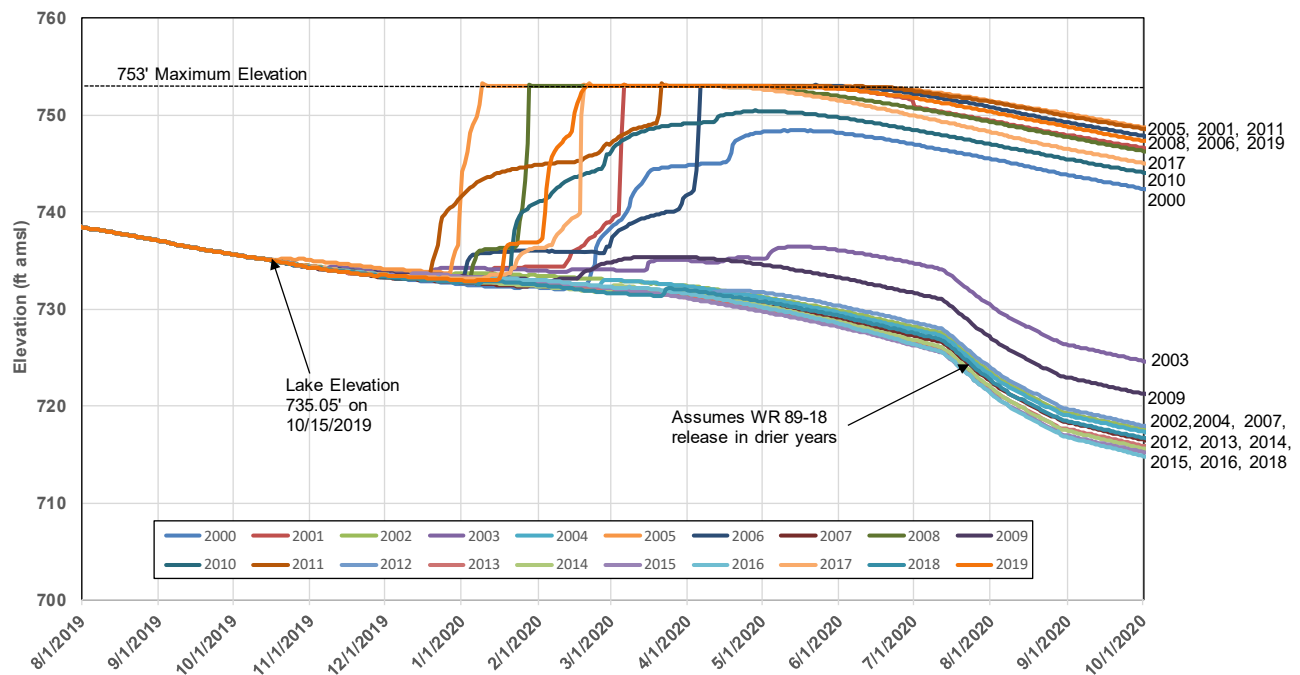


Figure 1. Lake Cachuma elevation projection assuming current lake elevations (10/15/2019) and modeling hydrology from 2000 to 2019.

SYCAMORE CANYON SLOPE STABILIZATION PROJECT

Sycamore Canyon Slope Stabilization project was completed at the end of September. The South Coast Conduit was exposed on a steep hillslope during winter storm events in February 2017. The project involved the installation of three buried reinforced caisson walls, rock slope protection, and hillslope drainage improvements. The work was completed by Hanly General Engineering Corporation and Terra Firma Drilling Inc. on budget and on schedule. This project was funded by a public assistance grant from FEMA. COMB has provided a reimbursement request to FEMA and has received initial reimbursements for the project. This project secures the South Coast Conduit in a difficult terrain improving water supply reliability

SAN JOSE CREEK SOUTH COAST CONDUIT STREAM PROTECTION MEASURES

The South Coast Conduit was exposed at the bottom of San Jose Creek. The surface of the pipe had been impacted by stream erosion resulting in the loss of concrete material and aggregate exposure. At the crossing, the South Coast Conduit is 48" in diameter and at the highest pressure in the system. The conduit at the crossing was excavated and inspected. A structural reinforcement was installed to protect the pipeline and a pool-riffle sequence was installed with the South Coast Conduit incorporated into the riffle. Additional revegetation and erosion control measures will be installed by the end of October. This is also a critically important project to complete prior to the winter rainy season.

LAKE CACHUMA WATER QUALITY AND SEDIMENT MANAGEMENT STUDY

Woodard & Curran completed the Phase 1 report for the study which will be reviewed by the Technical Review Committee on October 30th. Woodward & Curran have also prepared a draft list of potential solutions that would be evaluated in Phase 2 of the study.

INFRASTRUCTURE IMPROVEMENT PLAN PROJECT STATUS

Table 1 provides a summary of the FY 2019-20 Infrastructure Improvement Projects. COMB staff is preparing the draft of the 2021-2025 Infrastrucutre Improvement Plan.

Table 1. Infrastructure Improvement Projects Status

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
Infrastructure Improvement Projects			
Sycamore Canyon Slope Stabilization	Construction project completed at the end of September.	February 2017 storms exposed the South Coast Conduit on a steep slope in the Sycamore Canyon area. Project designed to stabilize slope and improve drainage to protect the SCC.	Completed (September 2019)
San Jose Creek SCC Stream Protection Measures	South Coast Conduit protected and pool-riffle sequence installed. Site restoration (planting, seeding, erosion control) to be completed.	South Coast Conduit is exposed in San Jose Creek and requires stream protection measures to prevent damage and water supply disruption.	By the end of October 2019
SCC Structure Rehabilitation (AVAR/BO)	Contract in place and structures were field measured by contractor to order parts. Construction work planned for January 2019.	Shutdown needs to be closely coordinated with MWD.	Schedule D and E planned for Winter 2019-2020.
SCC Line Valves for Shutdown	Engineering plans and bid documents are completed.	Additional line valves in the SCC could better facilitate planned maintenance activities.	Construction planned for Winter 2019-20.
SCC Structure Rehabilitation : Lower Reach Laterals	Draft designs have been completed and under review. Project included a high resolution aerial flight and structure survey which improves accuracy of conduit location.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement.	Construction planned for Spring/Summer 2019
Special Projects			
Emergency Pumping Facility Project	Key components of the barge are currently being stored under contract. Secured Pipeline feasibility study completed in the end of June. Materials are being prepared for the environmental review process.	With the increase in lake levels, the lake elevation is projected to remain above 685 until the Summer/Fall 2021.	TBD
Lake Cachuma Water Quality and Sediment Management Study	Contractor is proceeding with Phase 2 of the study to develop solutions and a monitoring program. Supplemental sampling for algae and nutrients is on-going this summer.	Recent wildfires and subsequent storm events have resulted in decreased water quality and increased sedimentation into Lake Cachuma.	June 2020

MONTHLY REPORT OF OPERATIONS – SEPTEMBER 2019

The total flow from Lake Cachuma into the Tecolote Tunnel for September was 2,087.8 acre-feet, for an average daily flow of 70 acre-feet. Lake elevation was 737.03 feet at the beginning of September and 735.64 feet at the end of September. Storage decreased by 3,608 acre-feet. CCWA wheeled 0 acre-feet of water to Cachuma Project facilities. The City of Santa Barbara wheeled 325.42 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was not operational in the month of July, due to issues with the intake pipeline. Water was delivered to Hilton Creek via dam outlet works through the emergency backup system, which prevents the delivery of CCWA water into the lake.

The Operations Division of the Cachuma Operation and Maintenance Board has the responsibility to operate, repair and maintain all Cachuma Project facilities from the Intake Tower at Lake Cachuma to the Carpinteria Reservoir. 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 continues to improve the system, address deficiencies and identify items to be included in the Infrastructure Improvement Program of work. Operations Division is responsible for:

- Adequately regulating and maintaining the diversion of water from Lake Cachuma to the South Coast via the Tecolote Tunnel as the primary water source for 5 communities.
- Operation and maintenance of the South Coast Conduit pipeline, which consist of 26.5 miles of pipeline with a combined 124 blow off and air vent structures, 43 turnout structures and 20 meters.
- Operation and maintenance of four regulating reservoirs.

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

Routine operation and maintenance completed during the month of September were as follows:

- Conducted seven flow changes at the North Portal during the month of September (12 surface, no gate chamber)
- Responded to 135 USA Dig alerts
- Reviewed one project for right of way conflicts
- Performed weekly inspections of major facilities, safety meetings, rodent bait (all reservoirs), toe drain and piezometer reads at Ortega (L23)
- Performed dam inspection and instrumentation reports (all reservoirs)
- Performed equipment and yard maintenance
- Read anodes and rectifier data

In addition regular activities described above, Operations staff performed the following:

- Continued Upper Reach structure maintenance
- At Station 477+30, dug out degeneration box, installed floorstands and stem extensions.
- At blowoff at station 477+49 the blowoff piping was extended (Blow off discharge buried 5' deep, exposed and extended discharge pipe 22')
- Provided construction monitoring and installed erosion control at Sycamore Slope Stabilization Project erosion control installation

- Maintained power at GATO/Goleta West during power outage of 10/17/19 - 8 Hrs
- Completed Confined Space Training
- Removed built up sediment, debris, and vegetation from Lauro Reservoir Debris Basin.
- Regraded and cleared of all reservoir inspection and access roads at Lauro Reservoir
- Repaired Intake Tower wash pump that was damaged during an 80 mph wind event at the lake. Installed new pump discharge piping.
- Cleaned Intake Tower fish screens
- Exercised Intake Tower slide gates
- Performed quarterly meter calibrations
- Participated in Public Safety Power Shutdown Conference Calls / Planning

Upper Reach Structure Maintenance



Extension of blowoff piping at structure 477+49



Cleared vegetation around blowoff structure 198+01

Blowoff Structure 477+30



Installed stem extensions and floorstands



Cleaned degeneration box

Lauro Debris Basin Maintenance



Clearing debris from basin prior to winter storm season



Access route to Lauro Reservoir Debris Basin

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 28, 2019
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: **Quiota Creek Crossing 8 Fish Passage Improvement Project Update**

RECOMMENDATION:

The Board of Directors receive and file an update on the Fish Passage Improvement Project at Quiota Creek Crossing 8.

SUMMARY:

Project Description: A 54-foot prefabricated bottomless arched culvert with four wing walls is planned to replace the current damaged concrete low flow crossing with temporary bridge placed on top at Quiota Creek Crossing 8. The project is being designed to the minimum design standards set by all regulatory agencies. The project construction began on 9/30/19 and will be completed in December of 2019. All funding for this project has been secured from a CDFW-FRGP grant (\$1,010,700) with Member Agency assessments and a COMB construction match. The funding and project were accepted through Resolution No. 682 by the COMB Board on January 28, 2019. The COMB General Manager, through Resolution No. 701, was given Board authorization to pay the County Encroachment Permit, purchase the Contech bridge system, and issue a construction contract to the lowest responsive and responsible bidding contractor, Peter Lapidus Construction. Final design approval and the Notice to Proceed (NTP) from CDFW-NMFS have been received. The County has approved the designs and issued the Encroachment Permit for the project. All permits for the project have been secured. COMB's resident engineer for the project is Gino Filippin of Filippin Engineering who has been approved by the County. The temporary construction Right-of-Entry Agreements from the landowners within the project boundary have been obtained.

Project Location: The nearest town is Santa Ynez. Quiota Creek Crossing 8 is located off of Hwy 246 via Refugio Road 4.9 miles south of Hwy 246. The road is closed at the project site.

Contractor: Peter Lapidus Construction (PLC); the construction contractor who was awarded the competitive bid for \$719,975, was issued a Notice to Proceed on 9/25/19.

Design Engineer: Michael Garelo and Shaun Bevan, HDR Fisheries Design Center.

Resident Engineer: Gino Filippin, Filippin Engineering.

County Engineers: Ron Bensel, Steven Manuel, Eric Pearson, and Jemmi Irabon.

Project Status and Timetable (as of the Board meeting date):

Status	Time
Notice to Proceed	9/25/2019
Construction start	9/30/2019
Refugio Road closure	9/30/2019
Contract Time (approximate to complete all work)*	3 months
Completion Date and Refugio Road reopened	12/13/2019
Number of construction work days (WD**) (expected)	52
Elapsed Time (WD to the Board mtg)	21
Remaining Time (WDs to complete all work)	31
Time Elapsed (WD) to Date (%)	40%
**WD: Working Days.	

Work Performed to Date: PLC has completed all of the clearing and grubbing at the site, completely removed the small bridge and remains of the concrete crossing below, excavated both foundations, formed and poured both foundations, installed both rock weirs with engineered streambed materials in between plus installed downstream the salvaged rootwad, and initiated installation of the rock slope protection around the bridge foundations. The site is ready to receive the bridge. ConTech completed fabrication of the arch-bridge system at Bethlehem Construction in Wasco, CA on 10/25/19. The bridge will be shipped to the site on 10/28/19 with the installation of the bridge scheduled for 10/29/19. COMB's resident engineer and County engineers have been overseeing the project during all phases of the construction. The pre-project condition (Figures 1-2) and current construction efforts (Figures 3-11) are presented as Exhibits.

Work Projected for Next Month: Install the bridge, backfill the arches, construct the roadway, perform final stream grading, install the rails and guardrails, plant all the mitigation trees, hydro-mulch/seed the disturbed areas within the project footprint, and perform final site cleanup.

FINANCIAL IMPACT:

COMB is obligated to a \$50,000 construction match, \$65,727 for staff time (COMB services), and \$121,398 for operations expenses (independent design review, all permit fees, etc.). The COMB budget provides \$1,176,000 for construction for this fiscal year. Revenues will cover the costs to purchase the ConTech arch system, construction of the project, and operating expenses. A summary of the estimated project costs and available funding for the project (Table 1) and the current expenditures (Table 2) are presented below.

Table 1: Estimated project cost and available funds for the project.

	FY 2019-20
Estimated Construction Cost	
Construction Estimate (*)	\$ 1,073,575
Project Management and Oversight	65,727
Operating Expenses	121,398
	Sub Total: \$ 1,260,700
Available Funding	
CDFW Grant (Operating and Construction)	\$ 1,010,700
Member Agency Assessments	250,000
	Sub Total: \$ 1,260,700
Balance to be Funded by Member Agencies	\$ -
(*) Includes ConTech Invoice for Bridge System	

Table 2: Expenditures to date for the project.

Estimated Project Costs (all):		\$1,260,700
Available Funding (all):		\$1,260,700
Total Expenditure to Date:		
	FY19	FY20
Prober Land Survey	\$ 2,340	
Materials Testing - Krazan (fabrication) - Invoice 1:		\$ 371
Farm Supply Company		\$ 168
Tri-Co Reproduction - all invoices:	\$ 201	\$ 90
SB County Encroachment Permit Fee:	\$ 10,000	\$ 20,303
CDFW 1600 Permit Fee:	\$ 5,313	
	Total Paid:	\$ 17,854 \$ 20,932
Summary:		
% Project Expenditures through 10/28/2019:		3.1%
Estimated Construction Costs minus Total Expenditures:		\$1,221,915
Available Funding minus Total Expenditures:		\$1,221,915

LEGAL CONCURRENCE:

COMB legal counsel has reviewed all contract documents related to the project.

ENVIRONMENTAL COMPLIANCE:

All permits have been obtained and are being followed.

LIST OF EXHIBITS:

Construction photos:

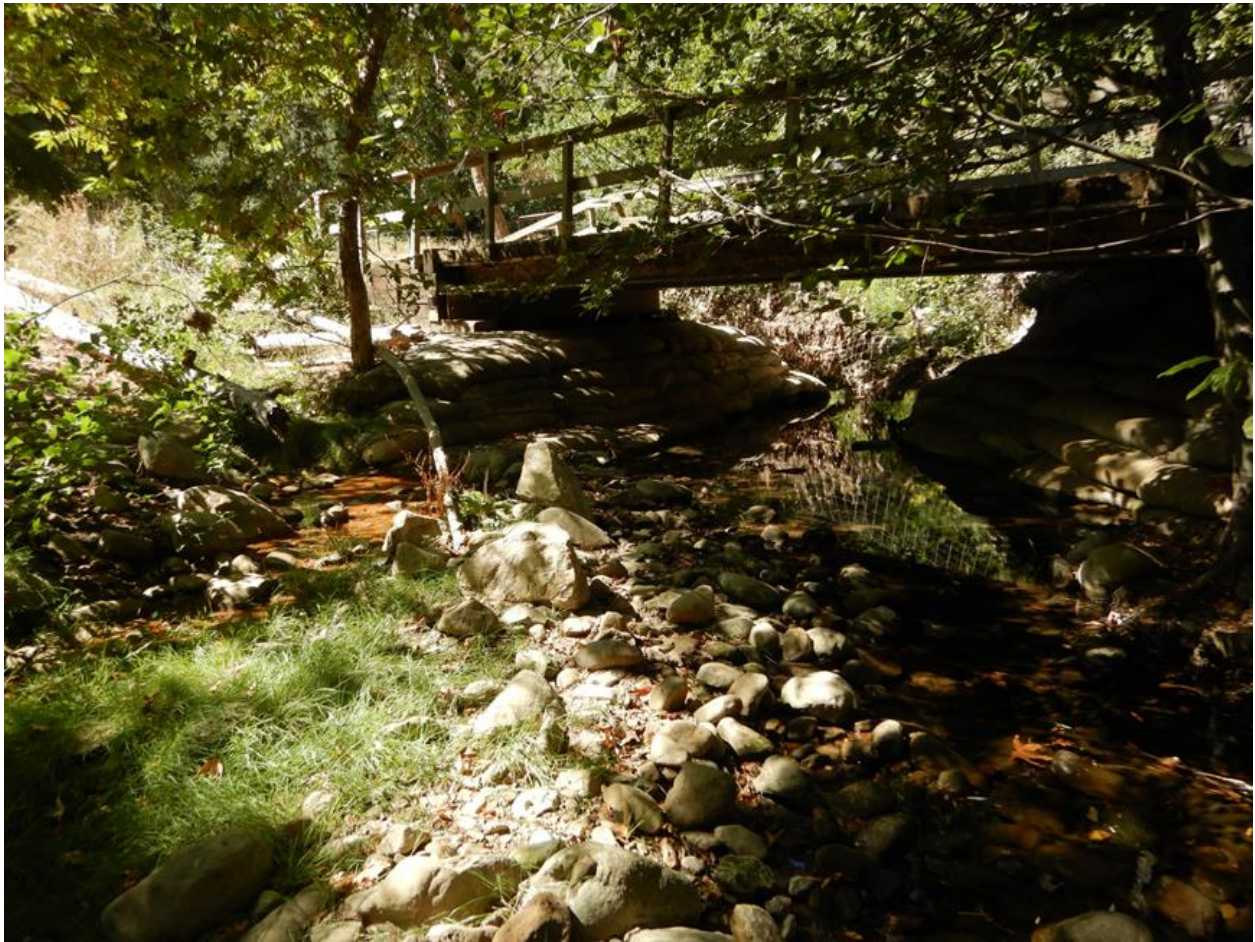


Figure 1: Pre-project condition looking south under the sub-standard temporary bridge with damaged low flow culvert below.



Figure 2: Pre-project conditions looking south across the temporary bridge.



Figure 3: Dewatering the site plus capturing and relocating all aquatic and riparian species.



Figure 4: Removal of the temporary bridge.



Figure 5: Clearing and grubbing.



Figure 6: Bridge foundation forming.



Figure 7: Placing the rebar for the bridge foundation.



Figure 8: Pouring the bridge foundations.



Figure 9: Installing the downstream rootwad.



Figure 10: Installing two mid-channel rock weirs.



Figure 11: Fabricating the bridge in Wasco (north of Bakersfield).

CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: October 28, 2019
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- USBR continues to deliver approximately 2.6 cfs of Lake Cachuma water to Hilton Creek by gravity through the Hilton Creek Emergency Backup System (HCEBS) which is sustaining the *O. mykiss* population in the creek.
- USBR continues to work on the Hilton Creek Watering System (HCWS). Reclamation procured and replaced valving located upstream of the upper release point. The HCWS is now capable of gravity flow to Hilton Creek. Needed parts to repair the control panel on the pumping barge have been ordered and no specific installation date has been determined. A transition from the HCEBS to the HCWS for water deliveries to Hilton Creek may occur this week.

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 COMB Fisheries Division (FD) staff 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 COMB-FD staff 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 picked up 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 and are reported in the Annual Monitoring Summary.

Snorkel surveys: Snorkel surveys for *O. mykiss* and non-native fish are conducted three times a year. The third survey at the end of the fall will be initiated within the next 2 weeks. The results are presented in the annual monitoring report.

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.

Tributary Project Updates:

Quiota Creek Crossing 8: Funding for this project has been secured through a CDFW-FRGP grant that was submitted on 3/29/18 for \$1,010,700 with a \$50,000 construction match from COMB as approved by the COMB Board during the 2/26/18 Board meeting. COMB was awarded this grant on 12/5/18 and the Board accepted the grant by resolution on 1/28/19. Staff has submitted all permit applications and designs for review by the County and NMFS-CDFW. Project construction started on 9/30/19 after receiving final design approval and obtaining all necessary permits. A separate Board memo is provided that discusses the project status and financials.

Hilton Creek Watering System (HCWS) and Emergency Backup System (HCEBS) Repairs:

HCWS and HCEBS: The HCWS and HCEBS are owned, operated, and maintained by USBR. The HCEBS was completed at the end of January 2016. USBR technical staff continues to consider improvement options for the HCWS. Currently USBR is delivering water to Hilton Creek through the HCEBS by gravity flow to the Upper Release Point.

USBR replaced a slide gate valve and bypass system for the HCWS near the Bradbury Dam spillway. Once functional, USBR was able to fill the HCWS delivery pipe without flowing water to Hilton Creek which submerged the delivery pipe in the lake just south of the HCWS pumping barge. Now the system can deliver lake water to Hilton Creek on gravity flow. USBR may switch from the HCEBS to the HCWS during the week of 10/28/19. Needed parts are on order for the control panel on the HCWS pumping barge, with no date set for installation.

Surcharge Water Accounting:

The following table summarizes the amount of surcharge water used to date from each of the three accounts plus project yield at the end of last month (Table 1). All numbers are from USBR's Daily Operations Report. The start time for the use of the Surcharge Water Accounts and Project Yield was 5/27/11, or the day following the last day of full surcharge and end of the last spill event. As of May 2012, all of the fish rearing accounts have been used and USBR is now using Project Yield to meet BiOp target flows. Water Right (WR 89-18) release durations since 2013 are noted as follows: 7/15/13 - 12/2/13, 8/18/14 - 11/11/14, 8/3/15 - 9/26/15, 7/12/16 - 8/29/16, 8/21/17 - 11/8/17, and 8/6/18 - 9/12/18. 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. The remaining amount in the AMA is 351 acre-feet. All of the Fish Passage Supplementation Account (FPSA) has been used as explained in previous reports.

Table 1: Summary of the surcharge water accounting and use of Project Yield as of the day after the end of the last spill event and full surcharge (5/27/11).

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	3,307	-107
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		18,655	
Total:	9,184	27,595	244
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 9/30/19.			
*** 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 (the USBR report) and the Annual Monitoring Summaries (the COMB report) as well as any other BiOp compliance measure as requested by USBR.

Outreach and Training: Outreach continues 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 and reporting work for the Quiota Creek Crossing 8 Project.

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	October 28, 2019
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: Progress Report on the Lake Cachuma Oak Tree Restoration Program

RECOMMENDATION:

For Board information only.

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2019 to the present (1/1/19 – 10/28/19, Table 1). Labor and expenses for the entire fiscal year (July 2018 - June 2019) 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 set the mitigation number for the program. The 2017 Annual Inventory and Fiscal Year 2017-2018 Financial Report has been reviewed and approved by the Lake Cachuma Oak Tree Committee on 8/1/18 with suggested recommendations for the upcoming fiscal year. A Committee meeting will be scheduled shortly after the August Board meeting to review the annual inventory, financials, and recommendations for the year.

Table 1: Cachuma Oak Tree Program completed tasks since January, 2019.

	Jan 2019 ¹	Feb 2019 ¹	Mar 2019 ²	April 2019	May 2019	June 2019	July 2019	Aug 2019	Sept 2019	Oct 2019
Year 10 Oaks (2018-2019)	Planted			Irrigated Weeded		Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Weeded
Year 9 Oaks (2016-2017)				Weeded Deer Cages	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Weeded Mulched	Irrigated Weeded
Year 8 Oaks (2015-2016)				Weeded Deer Cages	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded Deer Cages	Irrigated Weeded Mulched	
Year 7 Oaks (2014-2015)					Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded Deer Cages	Irrigated Weeded	Mulched Weeded
Year 6 Oaks (2010-2011)										
Year 5 Oaks (2009-2010)										
Year 4 Oaks (2008-2009)					Deer Cages					
Year 3 Oaks (2007-2008)					Deer Cages					
Year 2 Oaks (2006-2007)										
Year 1 Oaks (2005-2006)										

¹ Oak tree inventory (Year 1-9).

² Oak tree inventory (Year 10).

Watering continued this past month using only the small water truck/trailer since the larger water tanker truck has been in the shop. Crews have completed another round of irrigation on the Year 9 and Year 10 trees at the Santa Barbara County Park at Lake Cachuma. A new round of irrigation on the Year 7 and Year 8 trees has already commenced. Watering will continue in the fall and into winter until appreciable rainfall and higher antecedent soil moisture returns.

Two loads of mulch from the Santa Ynez Valley Transfer Station were delivered to Bradbury Dam so that crews could continue mulching efforts on the newer age classes of oak trees. Weeding and mulching was conducted on the Year 7 trees at Storke Flat and the Year 7 trees at Bradbury Dam.

Staff finished collecting both Coast Live Oak and Valley Oak acorns and delivered them to Manzanita Nursery.

LIST OF EXHIBITS:

N/A

CACHUMA OPERATION AND MAINTENANCE BOARD
METERED USE REPORT FOR SEPTEMBER 2019

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		421.50	18+62	G. WEST	152.00
Boundary Meter - West		(0.13)	78+00	Corona Del Mar FILTER Plant	955.02
			122+20	STOW RANCH	0.00
				Raytheon (SWP) (Warren Act Contract)	0.00
				Morehart (SWP) (Warren Act Contract)	0.00
				SWP CREDIT (Warren Act Contract)	0.00
			TOTAL		1,107.02
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	66.31
			386+65	MWD YARD	84.53
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	86.55
			510+95	MWD PUMP (SWD)	13.62
			510+95	ORTEGA CONTROL	4.24
			526+43	ASEGRA RD	9.97
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	2.38
				SWP CREDIT (Warren Act Contract)	0.00
			TOTAL		267.58
			CITY OF SANTA BARBARA		
			CATER	INFLOW	1440.80
			Gibraltar	PENSTOCK	(325.42)
			CATER	SO. FLOW	(886.95)
			Sheffield	SHEF.LIFT	175.60
				SWP (Warren Act)	0.00
				La Cumbre Mutual SWP (Warren Act)	0.00
			TOTAL		404.04
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
				COUNTY PARK, ETC	2.12
			TOTAL		2.12
			BREAKDOWN OF DELIVERIES BY TYPE:		
				STATE WATER DELIVERED TO LAKE	0.00
				STATE WATER TO SOUTH COAST (including from storage)	0.00
			METERED DIVERSION		2,202.13
SWP CREDIT (Warren Act Contract)		0.00			
TOTAL		421.37			
Note:	Meter reads were taken on: 9/30/2019				

WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT**

FOR THE MONTH OF **SEPTEMBER 2019** AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾

(All in rounded Acre Feet)

CACHUMA PROJECT		
	MONTH	WYTD
WATER PRODUCTION:		
Cachuma Lake (Tec. Diversion)	2,154.7	13,791.2
Tecolote Tunnel Infiltration	78.8	958.6
Cachuma Lake (County Park)	2.1	22.9
Subtotal - Water Production	2,235.6	14,772.7
WATER DELIVERIES:		
State Water Diversion	0.0	5,033.8
Cachuma Diversion	2,202.1	9,732.3
Storage gain/(loss)	52.9	34.2
Subtotal - Water Deliveries	2,255.1	14,800.2
Total Water Production	2,235.6	14,772.7
Total Water Deliveries	2,255.1	14,800.2
Difference = Apparent Water Loss	(19.4)	(27.5)
% Apparent Water Loss	-0.87%	-0.19%

SCC APPARENT WATER LOSS ALLOCATION (AWL) ⁽⁴⁾

	GWD	SB CITY	MWD	CVWD	TOTAL
CURRENT MONTH CHARGE / (ADJUSTMENT) ⁽³⁾					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	0.0	0.0	0.0	0.0	0.0
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
Total Current Month	0.0	0.0	0.0	0.0	0.0
WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)					
M&I	(0.2)	(2.1)	0.0	0.0	(2.3)
Agriculture	(0.0)	0.0	0.0	0.0	(0.0)
Subtotal Cachuma Project	(0.3)	(2.1)	0.0	0.0	(2.3)
(+) State Water Project	0.7	3.3	1.3	(0.8)	4.5
Total AWL Charged (WYTD) ⁽³⁾	0.4	1.2	1.3	(0.8)	2.1
Total AWL Not Charged (WYTD) ⁽³⁾					(29.7)
Total AWL Incurred (WYTD)					(27.6)

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	819.2	404.0	245.7	186.5	2.1	1,657.5
Agricultural	287.8	0.0	21.9	234.9	N/A	544.6
Subtotal Project Water Use	1,107.0	404.0	267.6	421.4	2.1	2,202.1
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁴⁾	0.0	54.5	10.3	0.0	0.2	65.0
Total Project Water Charge	1,107.0	458.5	277.9	421.4	2.3	2,267.1
WATER YEAR-TO-DATE						
Water Usage						
M&I	4,373.8	1,202.3	708.3	902.1	22.9	7,209.3
Agricultural	1,352.5	0.0	63.5	1,022.6	N/A	2,438.6
Subtotal Project Water Use	5,726.3	1,202.3	771.8	1,924.8	22.9	9,647.9
(+) Apparent Water Loss	(0.3)	(2.1)	0.0	0.0	N/A	(2.3)
(+) Evaporative Loss ⁽⁴⁾	181.5	640.6	162.1	71.7	2.7	1,058.7
Total Project Water Charge (*)	5,907.5	1,840.9	933.9	1,996.5	25.6	10,704.3

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

WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF **SEPTEMBER 2019** AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT WATER BALANCE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
Project Water Carryover - 10/1/2018	3,771.3	7,264.2	1,864.1	1,305.2	40.4	14,245.2
Transfers/Adjustment	0.0	0.0	0.0	0.0	0.0	0.0
(-) Project Water Charge (WYTD)	3,771.3	1,840.9	933.9	1,305.2	25.6	7,876.8
Balance Carryover Water	0.0	5,423.3	930.2	0.0	14.8	6,368.4
Current Year Allocation ⁽⁵⁾	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
(-) Balance of Project Water Charge (WYTD)	2,136.2	0.0	0.0	691.3	0.0	2,827.5
Net Allocation Available Before Adjustments	7,185.8	8,277.0	2,651.0	2,121.7	2,651.0	22,886.5
Adjustments to Net Allocation (WYTD)						
Carryover Balances Spilled	0.0	0.0	0.0	0.0	0.0	0.0
Surplus	0.0	0.0	0.0	0.0	0.0	0.0
State Water Exchange ⁽⁶⁾	798.0	531.0	530.0	354.0	(2,213.0)	0.0
Transfers/Adjustment ⁽⁷⁾	100.0	0.0	0.0	0.0	0.0	100.0
Transfers/Adjustment ⁽⁸⁾	0.0	(399.9)	0.0	0.0	0.0	(399.9)
Transfers/Adjustment ⁽¹⁰⁾	0.0	(82.0)	0.0	0.0	0.0	(82.0)
Transfers/Adjustment ⁽¹¹⁾	0.0	295.0	(295.0)	0.0	0.0	0.0
Transfers/Adjustment ⁽¹²⁾	(143.3)	143.3	0.0	0.0	0.0	0.0
Balance Current Year Allocation	7,940.5	8,764.4	2,886.0	2,475.7	438.0	22,504.6
Total Cachuma Project Water Available	7,940.5	14,187.8	3,816.2	2,475.7	452.8	28,873.0

Footnotes

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only.
- (3) Based on correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted-for water loss based on lake conditions
- (4) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (5) Per USBR, 20% initial allocation to Member Agencies, effective 10/1/18. In March 2019, USBR increased the allocation to 100% (25,714 acre feet) available water supply for the remaining contract year which ends on September 30, 2019.
- (6) Per SWP Exchange Agrmt GWD received 172 AF; City of SB received 114 AF; MWD received 114 AF and CVWD received 76 AF from ID#1 in September 2019.
- (7) Transfer per Contract for Exchange Water with Thomas B. Bishop Company and GWD (100 AF) - April 2019
- (8) Transfer per Santa Ynez Exchange Agreement with City of SB and La Cumbre Mutual Water Agency (94.43 AF) in September 2019.
- (9) Memo only - State Water Deliveries to Lake Cachuma for September 2019 was zero.
- (10) Adjustment to the City of Santa Barbara for April (39 AF) and May (43 AF) La Cumbre Exchange, credit given in error - June 2019
- (11) Transfer per Juncal agreement between SB & MWD (295.04 AF)
- (12) Transfer per Overlap agreement between SB & GWD 143.33 AF

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **SEPTEMBER 2019**

GLEN ANNIE RESERVOIR ⁽¹⁾

Capacity at 385' elevation:	335	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	545.60	Feet
Water in Storage	438.09	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	448.40	Feet
Water in Storage	24.00	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	378.40	Feet
Water in Storage	31.21	AF

TOTAL STORAGE IN RESERVOIRS ⁽¹⁾

Change in Storage	493.30	AF
	52.23	AF

CACHUMA RESERVOIR

Capacity at 750' elevation:	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF
Stage of Reservoir Elevation	735.64	Feet
Water in Storage	144,475	AF
Surface Area	2,511	
Evaporation	1,169.2	AF
Inflow	34.9	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	157.7	AF
Outlet	228.1	AF
Spill/Seismic Release	0	AF
State Water Project Water	0	AF
Change in Storage	-3,608	AF
Tecolote Diversion	2,087.8	AF

Rainfall: Month: 0.01 Season: 0.01 Percent of Normal: 5%

(1) The Glen Annie Reservoir is currently offline and is excluded from the Total Storage in Reservoirs amount.

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Goleta Water District**
 Last updated by C.O.M.B. 09/30/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Evap	Used	Total	Allocation		Allocation		Total
			M & I	Agr	Total				M & I	Agr	M & I	Agr	
Oct	3,771.3	1,864.0	276.5	78.0	354.5	44.7	354.5	399.2	311.4	87.8	0.0	0.0	0.0
Nov			293.6	87.7	381.4	29.7	381.4	411.1	316.5	94.5	0.0	0.0	0.0
Dec			0.0	12.4	12.4	13.6	12.4	26.0	0.0	26.0	0.0	0.0	0.0
Jan			0.0	9.8	9.8	11.7	9.8	21.5	0.0	21.5	0.0	0.0	0.0
Feb			0.0	3.8	3.8	8.2	3.8	12.1	0.0	12.1	0.0	0.0	0.0
Mar		7,458.0	0.0	6.2	6.2	14.8	6.2	21.0	0.0	21.0	0.0	0.0	0.0
Apr			379.5	56.7	436.2	20.0	436.2	456.3	397.0	59.3	0.0	0.0	0.0
May			405.8	95.2	501.0	17.4	501.0	518.3	419.8	98.5	0.0	0.0	0.0
Jun			711.3	177.8	889.1	14.9	889.1	904.0	723.2	180.8	0.0	0.0	0.0
Jul			717.5	252.1	969.6	6.3	969.6	975.9	722.2	253.7	0.0	0.0	0.0
Aug			770.1	284.8	1,054.9	0.2	25.7	25.9	18.9	7.0	751.3	277.9	1,029.2
Sep			819.2	287.8	1,107.0	0.0	0.0	0.0	0.0	0.0	819.2	287.8	1,107.0
Total	3,771.3	9,322.0	4373.5	1352.4	5726.0	181.5	3589.8	3771.3	2909.0	862.3	1570.5	565.7	2136.2

Month	CONVERSIONS (M&I AND AG SPLIT)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	371.7	(371.7)	-	-
Aug	18.9	(18.9)	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	3,771.3	2,518.4	1,252.9	1,254.0	610.0	1,864.0
Oct						-
Nov						-
Dec						-
Jan						-
Feb						-
Mar	Mid-Year Allocation			5,017.3	2,440.7	7,458.0
Apr	Bishop Ranch Exch (+100AF) + ID# 1 Exch (+59AF)			135.5	23.5	159.0
May	ID# 1 Exch (+64AF)			36.5	27.5	64.0
Jun	ID# 1 Exch (+134AF)			64.3	69.7	134.0
Jul	ID# 1 Exch (+181AF)			65.7	115.3	181.0
Aug	ID# 1 Exch (+188AF)			84.4	103.6	188.0
Sep	ID# 1 Exch (+172AF) + SB Overlap (-143.33 AF)			(65.9)	94.6	28.7

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,372.1	2,207.0	1,165.1	1,254.0	610.0	1,864.0
Nov	2,961.0	1,890.5	1,070.5	1,254.0	610.0	1,864.0
Dec	2,935.0	1,890.5	1,044.5	1,254.0	610.0	1,864.0
Jan	2,913.4	1,890.5	1,023.0	1,254.0	610.0	1,864.0
Feb	2,901.3	1,890.5	1,010.9	1,254.0	610.0	1,864.0
Mar	2,880.4	1,890.5	989.9	6,271.3	3,050.7	9,322.0
Apr	2,424.1	1,493.5	930.6	6,406.8	3,074.2	9,481.0
May	1,905.8	1,073.6	832.1	6,443.3	3,101.7	9,545.0
Jun	1,001.8	350.4	651.3	6,507.6	3,171.4	9,679.0
Jul	25.9	0.0	25.9	6,573.3	3,286.7	9,860.0
Aug	0.0	0.0	0.0	5,906.5	3,112.3	9,018.8
Sep	0.0	0.0	0.0	5,021.4	2,919.1	7,940.5

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **7,940.5**

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **City of Santa Barbara**
 Last updated by C.O.M.B. 09/30/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	7,264.2	1,655.5
Nov		
Dec		
Jan		
Feb		
Mar		6,621.5
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	7,264.2	8,277.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	-----	Total
93.3	0.0	93.3	89.8	93.3	183.1	183.1	0.0	0.0
235.3	0.0	235.3	65.1	235.3	300.4	300.4	0.0	0.0
0.0	0.0	0.0	31.2	0.0	31.2	31.2	0.0	0.0
0.0	0.0	0.0	27.0	0.0	27.0	27.0	0.0	0.0
0.0	0.0	0.0	19.0	0.0	19.0	19.0	0.0	0.0
0.0	0.0	0.0	34.1	0.0	34.1	34.1	0.0	0.0
26.5	0.0	26.5	50.1	26.5	76.6	76.6	0.0	0.0
12.2	0.0	12.2	52.6	12.2	64.8	64.8	0.0	0.0
35.5	0.0	35.5	66.2	35.5	101.7	101.7	0.0	0.0
76.7	0.0	76.7	77.9	76.7	154.6	154.6	0.0	0.0
316.8	0.0	316.8	73.0	316.8	389.8	389.8	0.0	0.0
404.0	0.0	404.0	54.5	404.0	458.5	458.5	0.0	0.0
1,200.2	-	1,200.2	640.6	1,200.2	1,840.9	1,840.9	0.0	0.0

CONVERSIONS (M&I AND AG SPLIT)				
Month	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	-	-

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
Month	Total	Allocation		Allocation	
		M & I	-----	M & I	-----
Begin Bal	7,264.2	7,264.2		1,655.5	1,655.5
Oct					-
Nov					-
Dec					-
Jan					-
Feb					-
Mar	Mid-Year Allocation			6,621.5	6,621.5
Apr	LCMWD Trsfr (-39AF) + ID# 1 Exch (+39AF)			-	-
May	LCMWD Trsfr (-43AF) + ID# 1 Exch (+43AF)			-	-
Jun	LCMWD Trsfr (-75AF) + ID# 1 Exch (+89AF) + Apr/May corr. (-82 AF)			(68.0)	(68.0)
Jul	LCMWD Trsfr (-98.62AF) + ID# 1 Exch (+121AF)			22.4	22.4
Aug	LCMWD Trsfr (-49.39AF) + ID# 1 Exch (+125AF)			75.6	75.6
Sep	LCMWD Trsfr (-94.93AF) + ID #1 Exch (+114AF) + Juncal Trsfr (+295.04 AF) + GWD Overlap (+143.33AF)			457.4	457.4

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
Month	Total	Allocation		Allocation	
		M & I	-----	M & I	-----
Oct	7,081.1	7,081.1	-	1,655.5	1,655.5
Nov	6,780.7	6,780.7	-	1,655.5	1,655.5
Dec	6,749.5	6,749.5	-	1,655.5	1,655.5
Jan	6,722.5	6,722.5	-	1,655.5	1,655.5
Feb	6,703.4	6,703.4	-	1,655.5	1,655.5
Mar	6,669.3	6,669.3	-	8,277.0	8,277.0
Apr	6,592.7	6,592.7	-	8,277.0	8,277.0
May	6,527.9	6,527.9	-	8,277.0	8,277.0
Jun	6,426.2	6,426.2	-	8,209.0	8,209.0
Jul	6,271.6	6,271.6	-	8,231.4	8,231.4
Aug	5,881.9	5,881.9	-	8,307.0	8,307.0
Sep	5,423.3	5,423.3	-	8,764.4	8,764.4

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 14,187.8

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Carpinteria Valley Water District**
 Last updated by C.O.M.B. 09/30/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	1,305.2	563.0
Nov		
Dec		
Jan		
Feb		
Mar		2,250.0
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	1,305.2	2,813.0

TOTAL WATER CHARGED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
0.0	0.0	0.0	16.2	0.0	16.2	7.4	8.8	0.0
0.0	0.0	0.0	12.0	0.0	12.0	5.5	6.5	0.0
0.0	0.0	0.0	5.9	0.0	5.9	2.7	3.2	0.0
0.0	0.0	0.0	5.1	0.0	5.1	2.3	2.8	0.0
0.0	0.0	0.0	3.6	0.0	3.6	1.6	1.9	0.0
0.0	0.0	0.0	2.4	0.0	2.4	1.1	1.3	0.0
107.6	120.2	227.8	8.6	227.8	236.5	111.7	124.8	0.0
134.3	130.1	264.4	7.1	264.4	271.5	137.9	133.6	0.0
150.1	139.7	289.8	6.2	289.8	296.0	153.3	142.6	0.0
146.4	162.1	308.5	3.7	308.5	312.2	148.2	164.0	0.0
177.2	235.7	412.9	0.9	143.0	143.8	61.7	82.1	115.8
186.5	234.9	421.4	0.0	0.0	0.0	0.0	0.0	186.5
902.1	1,022.6	1,924.8	71.7	1,233.5	1,305.2	633.6	671.6	302.3

CONVERSIONS (M&I AND AG SPLIT)				
Month	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	36.3	(36.3)	-	-
Sep	(0.0)	0.0	-	-

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
Month	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	1,305.2	597.3	707.9	258.5	304.5	563.0
Oct						-
Nov						-
Dec						-
Jan						-
Feb						-
Mar	Mid-Year Allocation			1,033.1	1,216.9	2,250.0
Apr	ID# 1 Exch (+26AF)			15.6	10.4	26.0
May	ID# 1 Exch (+28AF)			16.0	12.0	28.0
Jun	ID# 1 Exch (+60AF)			28.8	31.2	60.0
Jul	ID# 1 Exch (+81AF)			29.4	51.6	81.0
Aug	ID# 1 Exch (+83AF)			37.3	45.7	83.0
Sep	ID# 1 Exch (+76AF)			34.2	41.8	76.0

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
Month	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	1,289.0	589.9	699.1	258.5	304.5	563.0
Nov	1,276.9	584.4	692.6	258.5	304.5	563.0
Dec	1,271.0	581.7	689.4	258.5	304.5	563.0
Jan	1,265.9	579.3	686.6	258.5	304.5	563.0
Feb	1,262.4	577.7	684.7	258.5	304.5	563.0
Mar	1,259.9	576.6	683.4	1,291.6	1,521.4	2,813.0
Apr	1,023.5	464.9	558.6	1,307.2	1,531.8	2,839.0
May	752.0	327.0	425.0	1,323.2	1,543.8	2,867.0
Jun	456.0	173.7	282.4	1,352.0	1,575.0	2,927.0
Jul	143.8	25.5	118.4	1,381.4	1,626.6	3,008.0
Aug	0.0	0.0	(0.0)	1,302.9	1,518.2	2,821.1
Sep	0.0	(0.0)	0.0	1,150.6	1,325.1	2,475.7

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,475.7

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 09/30/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	1,864.1	530.0
Nov		
Dec		
Jan		
Feb		
Mar		2,121.0
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	1,864.1	2,651.0

TOTAL WATER USED				WATER USE CHARGED			WATER USE CHARGED		
Acre-feet				Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total	
0.0	0.0	0.0	23.2	0.0	23.2	18.3	4.9	0.0	
0.0	0.0	0.0	17.2	0.0	17.2	13.6	3.6	0.0	
0.0	0.0	0.0	8.4	0.0	8.4	6.6	1.8	0.0	
0.0	0.0	0.0	7.3	0.0	7.3	5.7	1.5	0.0	
0.0	0.0	0.0	5.1	0.0	5.1	4.0	1.1	0.0	
0.0	0.0	0.0	9.2	0.0	9.2	7.3	1.9	0.0	
0.0	0.0	0.0	13.5	0.0	13.5	10.7	2.8	0.0	
0.0	0.0	0.0	14.2	0.0	14.2	11.2	3.0	0.0	
18.5	1.9	20.4	17.9	20.4	38.3	34.7	3.6	0.0	
206.5	18.2	224.7	19.7	224.7	244.4	224.6	19.8	0.0	
237.6	21.5	259.1	16.2	259.1	275.3	252.4	22.8	0.0	
245.7	21.9	267.6	10.3	267.6	277.9	255.2	22.7	0.0	
708.3	63.5	771.8	162.1	771.8	933.9	844.4	89.5	0.0	

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
Oct	-	-	-
Nov	-	-	-
Dec	-	-	-
Jan	-	-	-
Feb	-	-	-
Mar	-	-	-
Apr	-	-	-
May	-	-	-
Jun	-	-	-
Jul	-	-	-
Aug	-	-	-
Sep	-	-	-

SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
Allocation				Allocation		
Total				M & I	Agr	Total
Begin Bal	1,864.1	1,473.0	391.1	493.0	37.0	530.0
Oct						-
Nov						-
Dec						-
Jan						-
Feb						-
Mar	Mid-Year Allocation			1,972.9	148.1	2,121.0
Apr	ID# 1 Exch (+39AF)			23.4	15.6	39.0
May	ID# 1 Exch (+42AF)			24.0	18.0	42.0
Jun	ID# 1 Exch (+89AF)			42.7	46.3	89.0
Jul	ID# 1 Exch (+121AF)			43.9	77.1	121.0
Aug	ID# 1 Exch (+125AF)			56.1	68.9	125.0
Sep	ID # 1 Exch (+114 AF) + Juncal Transfer (-295.04 AF)			(243.7)	62.7	(181.0)

BALANCE - CARRYOVER WATER				BALANCE - CURR YR ALLOC		
Allocation				Allocation		
Total				M & I	Agr	Total
Oct	1,840.9	1,454.7	386.2	493.0	37.0	530.0
Nov	1,823.7	1,441.1	382.6	493.0	37.0	530.0
Dec	1,815.3	1,434.4	380.9	493.0	37.0	530.0
Jan	1,808.0	1,428.7	379.3	493.0	37.0	530.0
Feb	1,802.9	1,424.7	378.3	493.0	37.0	530.0
Mar	1,793.7	1,417.4	376.3	2,465.9	185.1	2,651.0
Apr	1,780.2	1,406.7	373.5	2,489.4	200.6	2,690.0
May	1,766.0	1,395.5	370.5	2,513.3	218.7	2,732.0
Jun	1,727.7	1,360.8	367.0	2,556.1	264.9	2,821.0
Jul	1,483.4	1,136.2	347.1	2,600.0	342.0	2,942.0
Aug	1,208.1	883.8	324.3	2,656.2	410.8	3,067.0
Sep	930.2	628.6	301.6	2,412.4	473.5	2,886.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 3,816.2

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**
 Last updated by C.O.M.B. 09/30/19

Month	CARRYOVER WATER		CURRENT YEAR ALLOCATION										
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Allocation			Allocation				
			M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
Oct	40.4	530.0	2.3	0.0	2.3	0.5	2.3	2.8	2.8	0.0	0.0	0.0	0.0
Nov			2.0	0.0	2.0	0.3	2.0	2.3	2.3	0.0	0.0	0.0	0.0
Dec			1.3	0.0	1.3	0.2	1.3	1.5	1.5	0.0	0.0	0.0	0.0
Jan			0.9	0.0	0.9	0.1	0.9	1.0	1.0	0.0	0.0	0.0	0.0
Feb			1.5	0.0	1.5	0.1	1.5	1.6	1.6	0.0	0.0	0.0	0.0
Mar		2,121.0	0.9	0.0	0.9	0.2	0.9	1.1	1.1	0.0	0.0	0.0	0.0
Apr			1.9	0.0	1.9	0.2	1.9	2.1	2.1	0.0	0.0	0.0	0.0
May			1.9	0.0	1.9	0.2	1.9	2.1	2.1	0.0	0.0	0.0	0.0
Jun			2.1	0.0	2.1	0.3	2.1	2.4	2.4	0.0	0.0	0.0	0.0
Jul			3.0	0.0	3.0	0.3	3.0	3.2	3.2	0.0	0.0	0.0	0.0
Aug			3.0	0.0	3.0	0.2	3.0	3.3	3.3	0.0	0.0	0.0	0.0
Sep			2.1	0.0	2.1	0.2	2.1	2.3	2.3	0.0	0.0	0.0	0.0
Total	40.4	2,651.0	22.9	0.0	22.9	2.7	22.9	25.6	25.6	0.0	0.0	0.0	0.0

Month	CONVERSIONS (M&I AND AG SPLIT)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	133.5	(133.5)

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	40.4	40.4	-	175.0	355.0	530.0
Oct				-	-	-
Nov				-	-	-
Dec				-	-	-
Jan				-	-	-
Feb				-	-	-
Mar	Mid-Year Allocation			700.3	1,420.7	2,121.0
Apr	ID #1 Exchange (-163AF)			(98.0)	(65.0)	(163.0)
May	ID #1 Exchange (-177AF)			(101.0)	(76.0)	(177.0)
Jun	ID #1 Exchange (-372AF)			(178.6)	(193.4)	(372.0)
Jul	ID #1 Exchange (-504AF)			(183.0)	(321.0)	(504.0)
Aug	ID #1 Exchange (-521AF)			(234.0)	(287.0)	(521.0)
Sep	ID #1 Exchange (-476AF)			(214.2)	(261.8)	(476.0)

*NOTE:

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	2.3	37.6	37.6	-	175.0	355.0	530.0
Nov	2.0	35.3	35.3	-	175.0	355.0	530.0
Dec	1.3	33.8	33.8	-	175.0	355.0	530.0
Jan	0.9	32.8	32.8	-	175.0	355.0	530.0
Feb	1.5	31.2	31.2	-	175.0	355.0	530.0
Mar	0.9	30.1	30.1	-	875.3	1,775.7	2,651.0
Apr	1.9	28.1	28.1	-	777.3	1,710.7	2,488.0
May	1.9	26.0	26.0	-	676.3	1,634.7	2,311.0
Jun	2.1	23.6	23.6	-	497.7	1,441.3	1,939.0
Jul	3.0	20.3	20.3	-	314.7	1,120.3	1,435.0
Aug	3.0	17.1	17.1	-	80.7	833.3	914.0
Sep	2.1	14.8	14.8	-	0.0	438.0	438.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **452.8**

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

Contract Year: 10/1/18 to: 9/30/19

Contract Entity: **Santa Barbara Co. Water Agency**
 Last updated by C.O.M.B. 09/30/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet				Evap	Div	Total	Allocation		Allocation		Total
			Use %	M & I	Agr	Total				M & I	Agr	M & I	Agr	
Oct	14,245.2	5,142.5	0.0	372.1	78.0	450.1	174.5	450.1	624.5	523.0	101.5	0.0	0.0	0.0
Nov			0.0	530.9	87.7	618.7	124.4	618.7	743.0	638.3	104.7	0.0	0.0	0.0
Dec			0.0	1.3	12.4	13.7	59.3	13.7	73.0	42.0	31.0	0.0	0.0	0.0
Jan			0.0	0.9	9.8	10.6	51.3	10.6	61.9	36.1	25.8	0.0	0.0	0.0
Feb			0.0	1.5	3.8	5.4	36.1	5.4	41.4	26.3	15.1	0.0	0.0	0.0
Mar		20,571.5	0.0	0.9	6.2	7.2	60.6	7.2	67.8	43.6	24.2	0.0	0.0	0.0
Apr			0.0	515.5	176.9	692.4	92.5	692.4	784.9	598.0	186.9	0.0	0.0	0.0
May			0.0	554.2	225.3	779.5	91.5	779.5	870.9	635.9	235.0	0.0	0.0	0.0
Jun			0.1	917.6	319.4	1,236.9	105.3	1,236.9	1,342.3	1,015.3	327.0	0.0	0.0	0.0
Jul			0.1	1,150.0	432.4	1,582.4	107.9	1,582.4	1,690.3	1,252.8	437.5	0.0	0.0	0.0
Aug			0.1	1,504.6	542.0	2,046.6	90.4	747.6	838.0	726.0	111.9	867.1	432.0	1,299.1
Sep			0.1	1,657.5	544.6	2,202.1	65.0	673.7	738.7	716.0	22.7	1,005.7	522.7	1,528.4
Total	14,245.2	25,714.0	0.5	7,207.0	2,438.6	9,645.6	1,058.7	6,818.1	7,876.8	6,253.4	1,623.5	1872.8	954.7	2827.5

Month	CONVERSIONS (M&I AND AG SPLIT)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	371.7	(371.7)	-	-
Aug	55.1	(55.1)	-	-
Sep	(0.0)	0.0	133.5	(133.5)

Month	SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total	
		M & I	Agr	M & I	Agr		
Begin Bal	14,245.2	11,893.3	2,351.9	3,836.0	1,306.5	5,142.5	
Oct	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	
Jan	-	-	-	-	-	-	
Feb	-	-	-	-	-	-	
Mar	Mid-Year Allocation	-	-	15,345.1	5,226.4	20,571.5	
Apr	-	-	-	76.6	(15.6)	61.0	
May	-	-	-	(24.5)	(18.5)	(43.00)	
Jun	-	-	-	(110.7)	(46.3)	(157.0)	
Jul	-	-	-	(21.6)	(77.1)	(98.6)	
Aug	-	-	-	19.5	(68.9)	(49.4)	
Sep	-	-	-	(32.2)	(62.7)	(94.9)	

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	2.3	13,620.7	11,370.3	2,250.4	3,836.0	1,306.5	5,142.5
Nov	2.0	12,877.6	10,731.9	2,145.7	3,836.0	1,306.5	5,142.5
Dec	1.3	12,804.6	10,689.9	2,114.7	3,836.0	1,306.5	5,142.5
Jan	0.9	12,742.7	10,653.8	2,088.9	3,836.0	1,306.5	5,142.5
Feb	1.5	12,701.3	10,627.4	2,073.8	3,836.0	1,306.5	5,142.5
Mar	0.9	12,633.5	10,583.9	2,049.6	19,181.1	6,532.9	25,714.0
Apr	1.9	11,848.5	9,985.9	1,862.7	19,257.7	6,517.3	25,775.0
May	1.9	10,977.6	9,350.0	1,627.6	19,233.2	6,498.8	25,732.0
Jun	2.1	9,635.3	8,334.7	1,300.6	19,122.4	6,452.6	25,575.0
Jul	3.0	7,945.0	7,453.7	491.4	19,100.9	6,375.5	25,476.4
Aug	3.0	7,107.1	6,782.8	324.3	18,253.2	5,874.7	24,127.9
Sep	2.1	6,368.4	6,066.8	301.6	17,348.8	5,155.8	22,504.6

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 28,873.0

CACHUMA DAILY OPERATIONS

Month & Year: **October 2019**
 Time of Observations: **0830** Evaporation Pan Factor: **75%**

Day	Beginning Storage: 144,475			Surface Area acres	Rainfall		Evaporation		CCWA Inflow acre-feet	Releases					Computed Inflow acre-feet
	Elevation ft	Storage acre-feet	Change acre-feet		inches	acre-feet	inches	acre-feet		Park Diversion acre-feet	South Coast acre-feet	Hilton Creek acre-feet	WR 89-18 acre-feet	Outlet acre-feet	
1	735.59	144,349	(126)	2,509	-		0.190	29.8	-		49.8	5.2		7.3	(33.9)
2	735.55	144,249	(100)	2,508	-		0.130	20.4	-		48.3	5.2		8.3	(17.8)
3	735.51	144,150	(99)	2,506	-		0.230	36.0	-		50.8	5.2		7.3	0.3
4	735.47	144,050	(100)	2,505	-		0.140	21.9	-		48.7	5.2		7.4	(16.8)
5	735.43	143,950	(100)	2,503	-		0.210	32.9	-		49.4	5.2		7.5	(5.0)
6	735.40	143,875	(75)	2,502	-		0.190	29.7	-		48.3	5.2		8.2	16.4
7	735.37	143,800	(75)	2,501	-		0.250	39.1	-		48.6	5.2		7.3	25.2
8	735.33	143,700	(100)	2,500	-		0.230	35.9	-		48.6	5.2		7.3	(3.0)
9	735.30	143,625	(75)	2,499	-		0.230	35.9	-		49.7	5.2		8.2	24.0
10	735.25	143,501	(124)	2,497	-		0.060	9.4	-		52.6	5.1		7.3	(49.6)
11	735.22	143,426	(75)	2,496	-		0.280	43.7	-		58.0	5.2		7.3	39.2
12	735.18	143,326	(100)	2,495	-		0.220	34.3	-		58.7	5.2		7.3	5.5
13	735.13	143,201	(125)	2,493	-		0.230	35.8	-		58.5	5.2		8.3	(17.2)
14	735.09	143,076	(125)	2,492	-		0.200	31.1	-		57.8	5.2		7.3	(23.6)
15	735.05	143,002	(74)	2,490	-		0.190	29.6	-		58.7	5.1		7.3	26.7
16	735.02	142,927	(75)	2,489	-		0.150	23.3	-		56.9	5.1		8.3	18.6
17	734.97	142,802	(125)	2,488	-		0.130	20.2	-		64.6	5.1		7.3	(27.8)
18	734.92	142,677	(125)	2,486	-		0.200	31.1	-		71.6	5.1		7.3	(9.9)
19	734.87	142,552	(125)	2,484	-		0.190	29.5	-		82.1	5.1		7.3	(1.0)
20	734.82	142,428	(124)	2,483	-		0.280	43.4	-		31.4	5.1		8.3	(35.8)
21	734.78	142,328	(100)	2,481	-		0.230	35.7	-		61.0	5.1		7.3	9.1
22	734.75	142,253	(75)	2,480	-		0.180	27.9	-		53.8	5.1		7.3	19.1
23	734.72	142,178	(75)	2,479	-		0.150	23.2	-		39.0	5.1		8.3	0.6
24															
25															
26															
27															
28															
29															
30															
31															
TOTALS			(2,297)		-	-	4.490	699.9	-	-	1,246.9	118.6	-	175.0	(56.6)

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 2019****

Cachuma Lake Recreation Area Launch Data -- September 2019		
Inspection Data		
Total Vessels entering Park	406	
Total Vessels launched	392	
Total Vessels Quarantined	14	
Returning with Boat Launch Tag	236	60%
New: Removed from Quarantine		
Kayak/Canoe: Inspected, launched	156	40%
4-stroke Engines		
2-strokes, w/CARB star ratings		
2-strokes, NO emissions ratings		
Quarantine Data		
Total Vessels Quarantined	14	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	14	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	4	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	14	
Demographic Data		
Quarantined from infected county	4	
Quarantined from SB County	10	
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.

* These conditions are no longer being tracked.

EARLY DETECTION MONITORING PROGRAM SUMMARY

Summary: No Dreissenid mussels were detected
 Inspection Site: Cachuma Lake, Santa Barbara County, California
 Inspection Date and Time: 2019.09.27; 10:00 a.m. to 12:00 p.m. PDT
 Method: 6 PVC/Cement Sampling Stations; 134 linear feet of line
 Surveyors: SBCO Parks Employees
 Lake elevation: Max feet: 753.00, current 735.78; Max acre-feet: 193,305, current: 144,828;
 Current capacity: 74.9%