

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

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**Monday, March 25, 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 February 25, 2019 Regular Board Meeting
  - b. Investment of Funds
    - Financial Reports
    - Investment Reports
  - c. Review of Paid Claims
4. **VERBAL REPORTS FROM BOARD COMMITTEES**  
Receive verbal information regarding the following committee meetings:
  - Operations Committee Meeting – March 14, 2019
5. **APPOINTMENT OF REPRESENTATIVE TO CACHUMA PROJECT TRUST FUND AND RENEWAL FUND COMMITTEE AND BETTERMENT FUND USE OF FUNDS DISCUSSION**  
Action: Approve Appointment of Representative by motion and roll call vote of the Board
6. **AVAR/BLOW-OFF REHABILITATION PROJECT / SOUTH COAST CONDUIT (SCC) ISOLATION VALVE ENGINEERING DESIGNS**  
Action: Recommend approval by motion and roll call vote of the Board
7. **SOUTH COAST CONDUIT (SCC) LOWER REACH LATERAL STRUCTURES REHABILITATION PROJECT - ENGINEERING DESIGN**  
Action: Recommend approval by motion and roll call vote of the Board

8. **RESOLUTION NO. 684 – U.S. BUREAU OF RECLAMATION WATERSMART DROUGHT RESILIENCY GRANT OPPORTUNITY**  
Action: Recommend approval by motion and roll call vote of the Board
9. **PURCHASE OF REPLACEMENT FLEET VEHICLE – OPERATIONS DIVISION**  
Action: Recommend approval by motion and roll call vote of the Board
10. **GENERAL MANAGER REPORT**  
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
  - Meetings
  - Administration
  - Fisheries Division Activities
11. **WATER RESOURCES ENGINEER REPORT**  
Receive information from the Water Resources Engineer, including but not limited to the following:
  - Forecasted Lake Elevations
  - Climate Conditions
  - Lake Cachuma Conveyance Feasibility Study
  - Lake Cachuma Water Quality and Sediment Management Plan
  - Infrastructure Improvement Project Status
12. **OPERATIONS DIVISION REPORT**  
Receive information regarding Operations Division, including but not limited to the following:
  - Lake Cachuma Operations
  - Operation and Maintenance Activities
13. **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
14. **FINAL UPDATE ON FISH PASSAGE IMPROVEMENT PROJECTS**  
Receive information regarding the status of the Fish Passage Improvement Projects
  - a. Quiota Creek Crossing 5
  - b. Quiota Creek Crossing 9
15. **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
16. **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

17. **DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**
18. **[CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION**
  - a. [Government Code Section 54956.9(d)(4)]  
Name of matter: Non-Payment by Cachuma Member Unit of Annual/Quarterly Invoices in Violation of Separation Agreement
19. **[CLOSED SESSION]: ANNUAL PERFORMANCE REVIEW**
  - a. [Government Code Section 54957(b)(1)]  
Title: General Manager
20. **[CLOSED SESSION]: CONFERENCE WITH LABOR NEGOTIATORS**
  - a. [Government Code Section 54957.6(a)]  
Agency designated representatives: Board President  
Unrepresented Employee: General Manager
21. **RECONVENE INTO OPEN SESSION**

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

  - 18a. Non-Payment by Cachuma Member Unit of Annual/Quarterly Invoices in Violation of Separation Agreement
  - 19a. Annual Performance Review – General Manager
  - 20a. Conference with Labor Negotiators
22. **MODIFICATION OF GENERAL MANAGER'S COMPENSATION**

Action: At Board discretion, consideration and approval of modification to General Manager compensation
23. **MEETING SCHEDULE**
  - April 22, 2019 at 1:00 PM, COMB Office
  - Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)
24. **COMB ADJOURNMENT**

#### NOTICE TO PUBLIC

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

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

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

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

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

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

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

**Monday, February 25, 2019  
1:00 PM**

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**1. CALL TO ORDER, ROLL CALL**

The meeting was called to order at 1:00 PM.

Those in attendance were:

**Directors Present:**

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

**General Counsel Present:**

William Carter, Musick, Peeler & Garrett, LLP

**Staff Present:**

Janet Gingras, General Manager	Dave Stewart, Operations Division Manager
Edward Lyons, Administrative Manager/CFO	Dorothy Turner, Administrative Assistant II
Joel Degner, Water Resources Engineer	Scott Volan, Project Biologist
Elijah Papen, Program Analyst	

**Others Present:**

Farfalla Borah, Goleta Water District	Charles Hamilton, Resident
Fray Crease, SB Water Agency	Eileen Preston, WE Watch
Kelley Dyer, City of Santa Barbara	Philip Walker, Resident

**2. PUBLIC COMMENT**

Mr. Walker shared how a super-Atmospheric River Storm (ARkStorm) might impact California. Mr. Walker also commented on the Stockton area levies and the recent Highway 154 closure.

3. **CONSENT AGENDA**

- a. Minutes of January 28, 2019 Regular Board Meeting
- b. Investment of Funds
  - Financial Reports
  - Investment Reports
- c. Review of Paid Claims

The consent agenda was addressed in two motions to allow Director Plough to abstain. Director Hanson motioned to approve the minutes of the January 28, 2019 Regular Board Meeting. Seconded by Director Sneddon, the motion passed with a vote of five in favor and one abstention.

Ayes: Sneddon, Hanson, Holcombe

Nays:

Abstain: Plough

Absent:

Ms. Gingras commented upon various items of note within the Investments and Paid Claims Reports. Director Hanson motioned to approve the Investment Reports and Paid Claims. Director Sneddon seconded the motion which passed unanimously with a vote of six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Abstain:

Absent:

4. **VERBAL REPORTS FROM BOARD COMMITTEES**

- *Administrative Committee Meeting – February 15, 2019:* Director Holcombe presented the topics within the Administrative Committee Meeting agenda, noting that items will be addressed within the Board meeting agenda.

5. **MID-YEAR COMMITTEE APPOINTMENTS FOR FISCAL YEAR 2018-19; SELECTION OF ACWA REPRESENTATIVE**

- Administrative Committee
- Operations Committee
- Fisheries Committee
- Lake Cachuma Oak Tree Committee
- Public Outreach Committee
- ACWA Representative Selection

President Holcombe presented her member assignments for the various committees. Further, she solicited interest from Board members to be appointed as the ACWA JPIA representative. After a short discussion, Director Sneddon was appointed as COMB's representative to ACWA JPIA, with a request that she report back to the board on her ACWA JPIA activities.

6. **FINAL COMPREHENSIVE ANNUAL FINANCIAL REPORT (CAFR) – FISCAL YEAR ENDING JUNE 30, 2018**

Ms. Gingras offered the final Comprehensive Annual Financial Report (CAFR) and Letter of Required Communication, as presented in the Board Packet, for receipt & filing. President Holcombe called for the vote to receive and file the CAFR. Director Hanson so moved and Director Sneddon seconded the motion. The motion passed unanimously with six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Abstain:

Absent:

7. **RESOLUTION NO. 683 – ADOPTION OF SANTA BARBARA COUNTYWIDE INTEGRATED REGIONAL WATER MANAGEMENT PLAN 2019 UPDATE**

Ms. Gingras presented the staff memo and Resolution, noting that the 2019 changes to the Integrated Regional Water Management Plan (IRM Plan) were made to bring the plan into compliance with the 2016 guidelines and update mandated provisions. Director Plough motioned that Resolution No. 683 be approved; Director Hanson seconded. Director Sneddon asked for an overview of the history of the IMWM Plan which was provided by Ms. Gingras. After discussion, the vote was called for and the motion passed unanimously with six in favor.

Ayes: Sneddon, Plough, Hanson, Holcombe

Nays:

Abstain:

Absent:

8. **GENERAL MANAGER REPORT**

- Administration
- Operations / Engineer Activities
- Fisheries Division Activities

Ms. Gingras presented her report as contained in the Board packet, highlighting the Transferred Project Works Contract Renewal, the release of unexpended funds to the member agencies, the Non-Member Agency invoice, various infrastructure work and an update on Fisheries activities. A discussion ensued regarding the Non-Member Agency invoice and payment. Mr. Carter advised the Board of the sequence of events in the matter and the next step to be taken.

9. **WATER RESOURCES ENGINEER REPORT**

- Forecasted Lake Elevations
- Climate Conditions
- Highway 154 Closure
- Infrastructure Improvement Project Status

Mr. Degner presented his staff report supplemented by a slide show illustrating the topics within his report. He provided data on recent storm events, the highway 154 debris flow, projections on lake elevation taking into account CCWA deliveries and forecasts of inflows and outflows. He provided an

overview of the Santa Ynez River downstream accounting methods and history. Mr. Degner fielded questions from the Board and responded to points of discussion.

**10. OPERATIONS DIVISION REPORT**

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Stewart presented the Operations Division Report as contained in the Board packet, noting the hiring of a new Water Service Worker I, a couple of successful conduit shutdowns for repairs and the City of Santa Barbara repair of a failed culvert next to the conduit. There were no questions from the Board.

**11. FISHERIES DIVISION REPORT**

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

Mr. Volan presented the Fisheries Division Report, illustrated by a slide show highlighting the work in progress, including the annual beaver dam survey, the ongoing migrant trapping and the Passage Supplementation Program. He fielded questions from the Board.

**12. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**

- Maintenance and Monitoring

Mr. Volan provided a summary of the ongoing maintenance of the Oak Tree program, noting that Cachuma Park is a great location for the plantings, both as an access point and the availability of water. Oak Tree inventories for years one through nine are finished and work is beginning on year ten trees just planted. He fielded questions from the Board.

**13. 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 as provided in the Board packet, noting that there was nothing unusual to report.

**14. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

Director Sneddon requested that a closed session be scheduled for the next board meeting.



15. **MEETING SCHEDULE**

- **March 25, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

16. **COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 2:57 PM

Respectfully submitted,

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Janet Gingras, Secretary of the Board

**APPROVED:**

	<i>Approved</i>
√	<i>Unapproved</i>

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Polly Holcombe, President of the Board

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**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of February 28, 2019  
**UNAUDITED FINANCIALS**

	<b>Feb 28, 19</b>
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
<b>Trust Funds</b>	
1210 · Warren Act Trust Fund	\$ 727,325.77
1220 · Renewal Fund	10,215.61
<b>Total Trust Funds</b>	\$ 737,541.38
1050 · General Fund	487,220.31
1100 · Revolving Fund	114,076.98
<b>Total Checking/Savings</b>	1,338,838.67
<b>Accounts Receivable</b>	
1301 · Accounts Receivable	1,569.98
1320 · Quarterly Assessments Receivable	135,776.00
<b>Total Accounts Receivable</b>	137,345.98
<b>Other Current Assets</b>	
1010 · Petty Cash	500.00
1200 · LAIF	1,283,070.07
1303 · Bradbury SOD Act Assessments Receivable	195,566.00
1304 · Lauro Dam SOD Assessments Receivable	30,258.63
1400 · Prepaid Insurance	19,555.72
<b>Total Other Current Assets</b>	1,528,950.42
<b>Total Current Assets</b>	3,005,135.07
<b>Fixed Assets</b>	
1500 · Vehicles	445,723.91
1505 · Office Furniture & Equipment	443,923.41
1510 · Mobile Offices	97,803.34
1515 · Field Equipment	594,001.22
1525 · Paving	38,351.00
1550 · Accumulated Depreciation	(1,462,883.66)
<b>Total Fixed Assets</b>	156,919.22
<b>Other Assets</b>	
1910 · Long Term Bradbury SOD Act Assess Receivable	4,680,154.07
1920 · Long Term Lauro SOD Act Assess Receivable	835,169.28
1922 · Deferred Outflow of Resources (GASB 68)	581,365.00
<b>Total Other Assets</b>	6,096,688.35
<b>TOTAL ASSETS</b>	<b>\$ 9,258,742.64</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of February 28, 2019  
**UNAUDITED FINANCIALS**

Feb 28, 19

**LIABILITIES & NET POSITION**

**Liabilities**

**Current Liabilities**

**Accounts Payable**

2200 · Accounts Payable \$ 18,835.99

**Total Accounts Payable** 18,835.99

**Other Current Liabilities**

2550 · Vacation/Sick 150,085.16

2561 · Bradbury Dam SOD Act 195,576.66

2563 · Lauro Dam SOD Act 30,258.63

2565 · Accrued Interest SOD Act 62,424.00

2567 · Loan Payable Current EPFP 418,020.44

2590 · Deferred Revenue 737,541.38

**Total Other Current Liabilities** 1,593,906.27

**Total Current Liabilities** 1,612,742.26

**Long Term Liabilities**

2602 · Long Term SOD Act Liability - Bradbury 4,680,144.07

2603 · Long Term SOD Act Liability - Lauro 835,169.28

2604 · OPEB Long Term Liability 5,078,967.00

2605 · Loan Payable Principal - EPFP 644,953.06

2610 · Net Pension Liability (GASB 68) 1,781,995.00

2611 · Deferred Inflow of Resources (GASB 68) 149,386.00

**Total Long Term Liabilities** 13,170,614.41

**Total Liabilities** 14,783,356.67

**Net Position**

3000 · Opening Balance Net Position (5,296,580.05)

3901 · Retained Net Assets (1,283,902.60)

**Net Position** 1,055,868.62

**Total Net Position** (5,524,614.03)

**TOTAL LIABILITIES & NET POSITION** \$ 9,258,742.64

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

Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul '18 - Feb 19	Budget	\$ Over/(Under)		Jul '18 - Feb 19	Budget	\$ Over/(Under)		Jul '18 - Feb 19	Budget	\$ Over/(Under)	
			Budget	% of Budget			Budget	% of Budget			Budget	% of Budget
<b>Revenue</b>												
<b>3000 REVENUE</b>												
3001 · O&M Budget (Qtrly Assessments)	\$ 685,485.00	\$ 946,511.00	\$ (261,026.00)	72.42%	\$ 2,504,180.00	\$ 3,292,374.00	\$ (788,194.00)	76.06%	\$ 3,189,665.00	\$ 4,238,885.00	\$ (1,049,220.00)	75.25%
3006 · Warren Act	471,032.95	539,521.00	-68,488.05	87.31%	0.00				471,032.95	539,521.00	-68,488.05	87.31%
3009 · Pmts - Member Agencies - EPFP	0.00				231,725.10				231,725.10	0.00	231,725.10	100.0%
3010 · Interest Income	0.00				19,295.85				19,295.85	0.00	19,295.85	100.0%
3035 · Cachuma Project Betterment Fund	0.00	90,000.00	-90,000.00	0.0%	0.00				0.00	90,000.00	-90,000.00	0.0%
3037 · Grant-QC Crossing #5	870,117.62	893,287.00	-23,169.38	97.41%	0.00				870,117.62	893,287.00	-23,169.38	97.41%
3039 · Grant-QC Crossing #9	981,246.00	993,121.00	-11,875.00	98.8%	0.00				981,246.00	993,121.00	-11,875.00	98.8%
3042 · Sycamore Cnyn Slope Stabln Reim	0.00				7,502.00				7,502.00	0.00	7,502.00	100.0%
<b>Total 3000 REVENUE</b>	<b>3,007,881.57</b>	<b>3,462,440.00</b>	<b>-454,558.43</b>	<b>86.87%</b>	<b>2,762,702.95</b>	<b>3,292,374.00</b>	<b>-529,671.05</b>	<b>83.91%</b>	<b>5,770,584.52</b>	<b>6,754,814.00</b>	<b>-984,229.48</b>	<b>85.43%</b>
<b>Total Revenue</b>	<b>3,007,881.57</b>	<b>3,462,440.00</b>	<b>-454,558.43</b>	<b>86.87%</b>	<b>2,762,702.95</b>	<b>3,292,374.00</b>	<b>-529,671.05</b>	<b>83.91%</b>	<b>5,770,584.52</b>	<b>6,754,814.00</b>	<b>-984,229.48</b>	<b>85.43%</b>
<b>Gross Profit</b>	<b>3,007,881.57</b>	<b>3,462,440.00</b>	<b>-454,558.43</b>	<b>86.87%</b>	<b>2,762,702.95</b>	<b>3,292,374.00</b>	<b>-529,671.05</b>	<b>83.91%</b>	<b>5,770,584.52</b>	<b>6,754,814.00</b>	<b>-984,229.48</b>	<b>85.43%</b>
<b>Expense</b>												
<b>3100 · LABOR - OPERATIONS</b>	0.00				477,234.42	813,247.00	-336,012.58	58.68%	477,234.42	813,247.00	-336,012.58	58.68%
<b>3200 VEH &amp; EQUIPMENT</b>												
3201 · Vehicle/Equip Mtce	0.00				21,225.04	30,000.00	-8,774.96	70.75%	21,225.04	30,000.00	-8,774.96	70.75%
3202 · Fixed Capital	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3203 · Equipment Rental	0.00				2,773.43	5,000.00	-2,226.57	55.47%	2,773.43	5,000.00	-2,226.57	55.47%
3204 · Miscellaneous	0.00				247.99	5,000.00	-4,752.01	4.96%	247.99	5,000.00	-4,752.01	4.96%
<b>Total 3200 VEH &amp; EQUIPMENT</b>	<b>0.00</b>				<b>24,246.46</b>	<b>70,000.00</b>	<b>-45,753.54</b>	<b>34.64%</b>	<b>24,246.46</b>	<b>70,000.00</b>	<b>-45,753.54</b>	<b>34.64%</b>
<b>3300 · CONTRACT LABOR</b>												
3301 · Conduit, Meter, Valve & Misc	0.00				6,189.95	20,000.00	-13,810.05	30.95%	6,189.95	20,000.00	-13,810.05	30.95%
3302 · Buildings & Roads	0.00				3,177.72	20,000.00	-16,822.28	15.89%	3,177.72	20,000.00	-16,822.28	15.89%
3303 · Reservoirs	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3304 · Engineering, Misc Services	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
<b>Total 3300 · CONTRACT LABOR</b>	<b>0.00</b>				<b>9,367.67</b>	<b>95,000.00</b>	<b>-85,632.33</b>	<b>9.86%</b>	<b>9,367.67</b>	<b>95,000.00</b>	<b>-85,632.33</b>	<b>9.86%</b>
<b>3400 · MATERIALS &amp; SUPPLIES</b>												
3401 · Conduit, Meter, Valve & Misc	0.00				17,293.38	65,000.00	-47,706.62	26.61%	17,293.38	65,000.00	-47,706.62	26.61%
3402 · Buildings & Roads	0.00				1,376.82	8,000.00	-6,623.18	17.21%	1,376.82	8,000.00	-6,623.18	17.21%
3403 · Reservoirs	0.00				785.25	5,000.00	-4,214.75	15.71%	785.25	5,000.00	-4,214.75	15.71%
<b>Total 3400 · MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>				<b>19,455.45</b>	<b>78,000.00</b>	<b>-58,544.55</b>	<b>24.94%</b>	<b>19,455.45</b>	<b>78,000.00</b>	<b>-58,544.55</b>	<b>24.94%</b>
<b>3500 · OTHER EXPENSES</b>												
3501 · Utilities	0.00				4,328.99	7,000.00	-2,671.01	61.84%	4,328.99	7,000.00	-2,671.01	61.84%
3502 · Uniforms	0.00				347.35	5,000.00	-4,652.65	6.95%	347.35	5,000.00	-4,652.65	6.95%
3503 · Communications	0.00				11,942.17	18,500.00	-6,557.83	64.55%	11,942.17	18,500.00	-6,557.83	64.55%
3504 · USA & Other Services	0.00				1,361.55	4,000.00	-2,638.45	34.04%	1,361.55	4,000.00	-2,638.45	34.04%
3505 · Miscellaneous	0.00				6,653.06	8,000.00	-1,346.94	83.16%	6,653.06	8,000.00	-1,346.94	83.16%
3506 · Training	0.00				177.55	3,000.00	-2,822.45	5.92%	177.55	3,000.00	-2,822.45	5.92%
<b>Total 3500 · OTHER EXPENSES</b>	<b>0.00</b>				<b>24,810.67</b>	<b>45,500.00</b>	<b>-20,689.33</b>	<b>54.53%</b>	<b>24,810.67</b>	<b>45,500.00</b>	<b>-20,689.33</b>	<b>54.53%</b>
<b>4100 · LABOR - FISHERIES</b>	436,910.57	692,409.00	-255,498.43	63.1%	0.00				436,910.57	692,409.00	-255,498.43	63.1%
<b>4200 · VEHICLES &amp; EQUIP - FISHERIES</b>												
4270 · Vehicle/Equip Mtce	12,378.97	15,000.00	-2,621.03	82.53%	0.00				12,378.97	15,000.00	-2,621.03	82.53%
4280 · Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 · Miscellaneous	156.83	2,500.00	-2,343.17	6.27%	0.00				156.83	2,500.00	-2,343.17	6.27%
<b>Total 4200 · VEHICLES &amp; EQUIP - FISHERIES</b>	<b>12,535.80</b>	<b>32,500.00</b>	<b>-19,964.20</b>	<b>38.57%</b>	<b>0.00</b>				<b>12,535.80</b>	<b>32,500.00</b>	<b>-19,964.20</b>	<b>38.57%</b>

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

Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul '18 - Feb 19	Budget	\$ Over/(Under)		Jul '18 - Feb 19	Budget	\$ Over/(Under)		Jul '18 - Feb 19	Budget	\$ Over/(Under)	
			Budget	% of Budget			Budget	% of Budget			Budget	% of Budget
<b>4220 · CONTRACT LABOR - FISHERIES</b>												
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	9,575.94	25,000.00	-15,424.06	38.3%	0.00				9,575.94	25,000.00	-15,424.06	38.3%
<b>Total 4220 · CONTRACT LABOR - FISHERIES</b>	<b>9,575.94</b>	<b>28,000.00</b>	<b>-18,424.06</b>	<b>34.2%</b>	<b>0.00</b>				<b>9,575.94</b>	<b>28,000.00</b>	<b>-18,424.06</b>	<b>34.2%</b>
<b>4300 · MATERIALS/SUPPLIES - FISHERIES</b>												
4390 · Miscellaneous	6,659.41	7,000.00	-340.59	95.13%	0.00				6,659.41	7,000.00	-340.59	95.13%
<b>Total 4300 · MATERIALS/SUPPLIES - FISHERIES</b>	<b>6,659.41</b>	<b>7,000.00</b>	<b>-340.59</b>	<b>95.13%</b>	<b>0.00</b>				<b>6,659.41</b>	<b>7,000.00</b>	<b>-340.59</b>	<b>95.13%</b>
<b>4500 · OTHER EXPENSES - FISHERIES</b>												
4502 · Uniforms	0.00	3,500.00	-3,500.00	0.0%	0.00				0.00	3,500.00	-3,500.00	0.0%
<b>Total 4500 · OTHER EXPENSES - FISHERIES</b>	<b>0.00</b>	<b>3,500.00</b>	<b>-3,500.00</b>	<b>0.0%</b>	<b>0.00</b>				<b>0.00</b>	<b>3,500.00</b>	<b>-3,500.00</b>	<b>0.0%</b>
<b>4999 · GENERAL &amp; ADMINISTRATIVE</b>												
5000 · Director Fees	0.00				5,190.90	12,000.00	-6,809.10	43.26%	5,190.90	12,000.00	-6,809.10	43.26%
5001 · Director Mileage	0.00				323.51	1,000.00	-676.49	32.35%	323.51	1,000.00	-676.49	32.35%
5100 · Legal	0.00				43,418.99	75,000.00	-31,581.01	57.89%	43,418.99	75,000.00	-31,581.01	57.89%
5101 · Audit	0.00				13,985.68	22,750.00	-8,764.32	61.48%	13,985.68	22,750.00	-8,764.32	61.48%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				38,389.00	50,551.00	-12,162.00	75.94%	38,389.00	50,551.00	-12,162.00	75.94%
5310 · Postage/Office Exp	0.00				3,542.34	5,000.00	-1,457.66	70.85%	3,542.34	5,000.00	-1,457.66	70.85%
5311 · Office Equip/Leases	0.00				5,556.86	9,200.00	-3,643.14	60.4%	5,556.86	9,200.00	-3,643.14	60.4%
5312 · Misc Admin Expenses	0.00				10,382.89	11,500.00	-1,117.11	90.29%	10,382.89	11,500.00	-1,117.11	90.29%
5313 · Communications	0.00				4,722.00	8,500.00	-3,778.00	55.55%	4,722.00	8,500.00	-3,778.00	55.55%
5314 · Utilities	0.00				5,491.67	9,737.00	-4,245.33	56.4%	5,491.67	9,737.00	-4,245.33	56.4%
5315 · Membership Dues	0.00				9,137.15	9,345.00	-207.85	97.78%	9,137.15	9,345.00	-207.85	97.78%
5316 · Admin Fixed Assets	0.00				1,938.92	3,000.00	-1,061.08	64.63%	1,938.92	3,000.00	-1,061.08	64.63%
5318 · Computer Consultant	0.00				10,010.30	15,000.00	-4,989.70	66.74%	10,010.30	15,000.00	-4,989.70	66.74%
5325 · Emp Training/Subscriptions	0.00				595.04	2,000.00	-1,404.96	29.75%	595.04	2,000.00	-1,404.96	29.75%
5330 · Admin Travel/Conferences	0.00				16.30	2,000.00	-1,983.70	0.82%	16.30	2,000.00	-1,983.70	0.82%
5331 · Public Information	0.00				664.27	3,500.00	-2,835.73	18.98%	664.27	3,500.00	-2,835.73	18.98%
5317 · Admin Contract Labor	0.00				23,614.72	47,680.00	-24,065.28	49.53%	23,614.72	47,680.00	-24,065.28	49.53%
<b>Total 4999 · GENERAL &amp; ADMINISTRATIVE</b>	<b>0.00</b>				<b>176,980.54</b>	<b>292,763.00</b>	<b>-115,782.46</b>	<b>60.45%</b>	<b>176,980.54</b>	<b>292,763.00</b>	<b>-115,782.46</b>	<b>60.45%</b>
<b>5299 · ADMIN LABOR</b>	<b>0.00</b>				<b>358,661.49</b>	<b>549,881.00</b>	<b>-191,219.51</b>	<b>65.23%</b>	<b>358,661.49</b>	<b>549,881.00</b>	<b>-191,219.51</b>	<b>65.23%</b>
<b>5400 · GENERAL &amp; ADMIN - FISHERIES</b>												
5407 · Legal - FD	989.00	20,000.00	-19,011.00	4.95%	0.00				989.00	20,000.00	-19,011.00	4.95%
5410 · Postage / Office Supplies	1,937.50	4,000.00	-2,062.50	48.44%	0.00				1,937.50	4,000.00	-2,062.50	48.44%
5411 · Office Equipment / Leases	2,992.12	5,418.00	-2,425.88	55.23%	0.00				2,992.12	5,418.00	-2,425.88	55.23%
5412 · Misc. Admin Expense	4,320.49	7,500.00	-3,179.51	57.61%	0.00				4,320.49	7,500.00	-3,179.51	57.61%
5413 · Communications	2,911.27	5,805.00	-2,893.73	50.15%	0.00				2,911.27	5,805.00	-2,893.73	50.15%
5414 · Utilities	2,957.08	5,243.00	-2,285.92	56.4%	0.00				2,957.08	5,243.00	-2,285.92	56.4%
5415 · Membership Dues	4,791.85	5,955.00	-1,163.15	80.47%	0.00				4,791.85	5,955.00	-1,163.15	80.47%
5416 · Admin Fixed Assets	1,044.03	3,000.00	-1,955.97	34.8%	0.00				1,044.03	3,000.00	-1,955.97	34.8%
5417 · Admin Contract Labor	12,715.65	23,110.08	-10,394.43	55.02%	0.00				12,715.65	23,110.08	-10,394.43	55.02%
5418 · Computer Consultant	5,390.10	7,000.00	-1,609.90	77.0%	0.00				5,390.10	7,000.00	-1,609.90	77.0%
5425 · Employee Education/Subscription	2,215.40	2,500.00	-284.60	88.62%	0.00				2,215.40	2,500.00	-284.60	88.62%
5426 · Director Fees	2,795.10	6,500.00	-3,704.90	43.0%	0.00				2,795.10	6,500.00	-3,704.90	43.0%
5427 · Director Mileage	174.19	500.00	-325.81	34.84%	0.00				174.19	500.00	-325.81	34.84%
5430 · Travel	1,248.82	2,500.00	-1,251.18	49.95%	0.00				1,248.82	2,500.00	-1,251.18	49.95%

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

Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul '18 - Feb 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul '18 - Feb 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul '18 - Feb 19	Budget	\$ Over/(Under) Budget	% of Budget
5431 · Public Information	1,357.69	1,500.00	-142.31	90.51%	0.00				1,357.69	1,500.00	-142.31	90.51%
5441 · Audit	7,153.82	12,250.00	-5,096.18	58.4%	0.00				7,153.82	12,250.00	-5,096.18	58.4%
5443 · Liab & Property Ins	20,671.00	24,745.00	-4,074.00	83.54%	0.00				20,671.00	24,745.00	-4,074.00	83.54%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	<b>75,665.11</b>	<b>137,526.08</b>	<b>-61,860.97</b>	<b>55.02%</b>	<b>0.00</b>				<b>75,665.11</b>	<b>137,526.08</b>	<b>-61,860.97</b>	<b>55.02%</b>
5499 · ADMIN LABOR-FISHERIES	130,281.46	211,508.92	-81,227.46	61.6%	0.00				130,281.46	211,508.92	-81,227.46	61.6%
5510 · Integrated Reg. Water Mgt Plan	0.00				5,114.93	5,000.00	114.93	102.3%	5,114.93	5,000.00	114.93	102.3%
<b>6000 · SPECIAL PROJECTS</b>												
6062 · SCADA	0.00				735.99	20,000.00	-19,264.01	3.68%	735.99	20,000.00	-19,264.01	3.68%
6090 · COMB Office Building	0.00				0.00	200,000.00	-200,000.00	0.0%	0.00	200,000.00	-200,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00				514,741.13	484,400.00	30,341.13	106.26%	514,741.13	484,400.00	30,341.13	106.26%
6096-2 · SCC Str Rehab Thomas DebrisFlow	0.00				15,690.82				15,690.82	0.00	15,690.82	100.0%
6097 · GIS and Mapping	0.00				4,733.44	10,000.00	-5,266.56	47.33%	4,733.44	10,000.00	-5,266.56	47.33%
6105 · ROW Management Program	0.00				2,975.00	20,000.00	-17,025.00	14.88%	2,975.00	20,000.00	-17,025.00	14.88%
6118 · Repair Lateral 3 Structure	0.00				88,384.50	100,000.00	-11,615.50	88.39%	88,384.50	100,000.00	-11,615.50	88.39%
6120 · Emergency Pumping Fac Project	0.00				56,774.17	230,000.00	-173,225.83	24.68%	56,774.17	230,000.00	-173,225.83	24.68%
6122 · Rehab San Antonio Crk Blow-off	0.00				73,296.26	60,000.00	13,296.26	122.16%	73,296.26	60,000.00	13,296.26	122.16%
6132 · Sycamore Canyon Slope Stabiliz	0.00				25,821.98	500,000.00	-474,178.02	5.16%	25,821.98	500,000.00	-474,178.02	5.16%
6132-1 · SycCynSlopeStab-CO Funds FY2017	0.00				0.00	-500,000.00	500,000.00	0.0%	0.00	-500,000.00	500,000.00	0.0%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				0.00	50,000.00	-50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6138 · Cachuma Watershed Mgmt Study <sup>(1)</sup>	0.00				33,791.30	143,583.00	-109,791.70	23.53%	33,791.30	143,583.00	-109,791.70	23.53%
<b>Total 6000 · SPECIAL PROJECTS</b>	<b>0.00</b>				<b>816,944.59</b>	<b>1,342,983.00</b>	<b>-526,038.41</b>	<b>60.83%</b>	<b>816,944.59</b>	<b>1,342,983.00</b>	<b>-526,038.41</b>	<b>60.83%</b>
<b>6200 · FISHERIES ACTIVITIES</b>												
6201 · FMP Implementation	1,518.96	45,000.00	-43,481.04	3.38%	0.00				1,518.96	45,000.00	-43,481.04	3.38%
6202 · GIS and Mapping	2,933.44	10,000.00	-7,066.56	29.33%	0.00				2,933.44	10,000.00	-7,066.56	29.33%
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	31,000.68	100,000.00	-68,999.32	31.0%	0.00				31,000.68	100,000.00	-68,999.32	31.0%
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	15,407.11	40,000.00	-24,592.89	38.52%	0.00				15,407.11	40,000.00	-24,592.89	38.52%
<b>Total 6200 · FISHERIES ACTIVITIES</b>	<b>50,860.19</b>	<b>216,000.00</b>	<b>-165,139.81</b>	<b>23.55%</b>	<b>0.00</b>				<b>50,860.19</b>	<b>216,000.00</b>	<b>-165,139.81</b>	<b>23.55%</b>
<b>6300 · HABITAT ENHANCEMENT</b>												
6303 · Tributary Projects Support	73.60	20,000.00	-19,926.40	0.37%	0.00				73.60	20,000.00	-19,926.40	0.37%
6315 · Quiota Creek Crossing 8	4,211.04	30,000.00	-25,788.96	14.04%	0.00				4,211.04	30,000.00	-25,788.96	14.04%
6316 · Quiota Creek Crossing 5	941,707.71	960,000.00	-18,292.29	98.1%	0.00				941,707.71	960,000.00	-18,292.29	98.1%
6317 · Salspuedes Fish Ladder Repair	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6318 · Quiota Creek Crossing 9	1,102,299.55	1,115,996.00	-13,696.45	98.77%	0.00				1,102,299.55	1,115,996.00	-13,696.45	98.77%
<b>Total 6300 · HABITAT ENHANCEMENT</b>	<b>2,048,291.90</b>	<b>2,133,996.00</b>	<b>-85,704.10</b>	<b>95.98%</b>	<b>0.00</b>				<b>2,048,291.90</b>	<b>2,133,996.00</b>	<b>-85,704.10</b>	<b>95.98%</b>
7007 · INTEREST EXPENSE-EPFP	0.00				31,119.30				31,119.30	0.00	31,119.30	100.0%
<b>Total Expense</b>	<b>2,770,780.38</b>	<b>3,462,440.00</b>	<b>-691,659.62</b>	<b>80.02%</b>	<b>1,943,935.52</b>	<b>3,292,374.00</b>	<b>-1,348,438.48</b>	<b>59.04%</b>	<b>4,714,715.90</b>	<b>6,754,814.00</b>	<b>-2,040,098.10</b>	<b>69.8%</b>
<b>Net Surplus/(Deficit)</b>	<b>\$ 237,101.19</b>	<b>\$ 0.00</b>	<b>\$ 237,101.19</b>	<b>100.0%</b>	<b>\$ 818,767.43</b>	<b>\$ 0.00</b>	<b>\$ 818,767.43</b>	<b>100.0%</b>	<b>\$ 1,055,868.62</b>	<b>\$ 0.00</b>	<b>\$ 1,055,868.62</b>	<b>100.0%</b>

Footnote/Disclosure:

<sup>(1)</sup> The budget for the Cachuma Watershed Management Study was adjusted to reflect Phase I costs only (\$143,583). The second phase of the project will commence in fiscal year 2019-20 for a cost of \$275,085.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Submitted by:	Janet Gingras

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**SUBJECT:** Investment Report – February 28, 2019

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### **RECOMMENDATION**

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of February 28, 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 February 2019, is reported at 2.392%.

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		01/31/2019	\$ 283,070.07
(+) Deposits/Credits		02/27/2019	1,000,000.00
(-) Checks/Withdrawals			-
Statement Balance		02/28/2019	\$ 1,283,070.07

#### 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	01/31/2019	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	02/28/2019	\$ 10,215.61
American Riviera Bank Warren Acct Trust Fund			
	Previous Balance	01/31/2019	\$ 1,015,871.22
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals	02/01/2019	(288,545.45)
	Statement Balance	02/28/2019	\$ 727,325.77

**STATEMENT**

The above statement of investment activity for the month of February, 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.

  
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 Secretary

## Cachuma Operation &amp; Maintenance Board

## Paid Claims

As of February 28, 2019

Date	Num	Name	Memo	Amount
<b>1050 - General Fund</b>				
02/05/2019	26630	AT&T	Long Distance Charges 12/28/18-1/27/19	-613.83
02/05/2019	26631	Bartlett, Pringle & Wolf, LLP	Audit Services FY 2017-18	-2,357.00
02/05/2019	26632	Bedrock Building Supplies	Sycamore Canyon Slope Stabilization - Sand	-58.73
02/05/2019	26633	Boyd & Associates	Alarm Monitoring 4/1/19 - 6/30/19	-125.00
02/05/2019	26634	Business Card	Staff event, website, training & supplies (Ops & Fish)	-1,882.43
02/05/2019	26636	City of Santa-Barbara	Trash / Recycling 12/27/18-1/30/19	-249.88
02/05/2019	26637	Cori Hayman	Director Meeting Fees January 2019	-161.60
02/05/2019	26638	County of Santa Barbara Water Agency Dept	IRWM Share of Cost 7/1/18-12/31/18	-5,114.93
02/05/2019	26639	Cushman Contracting Corp.	EPFP Pumping System & South Coast Conduit Rehabilitation Progress Payment	-275,123.36
02/05/2019	26640	ECHO Communications	Message Service January 2019	-66.00
02/05/2019	26641	Employee Relations, Inc.	Background Check (Fish)	-43.85
02/05/2019	26642	Frontier Communications	Phone Service - Ortega Hill	-56.29
02/05/2019	26643	Frontier Communications	Phone Service - North Portal	-56.47
02/05/2019	26644	Frontier Communications	Phone Service - Carpinteria	-56.29
02/05/2019	26645	Frontier Communications	Phone Service - Main Office	-431.75
02/05/2019	26646	Government Finance Officers Assn	Membership Renewal 4/1/19-3/31/20	-160.00
02/05/2019	26647	Harrison Hardware	Oak Tree Program & Fisheries Supplies	-897.12
02/05/2019	26648	Instrument & Valve Services Company	Calibration of Equipment (Ops)	-1,862.65
02/05/2019	26649	Kristen Sneddon	Director Meeting Fees January 2019	-154.81
02/05/2019	26650	Lauren W. Hanson	Director Meeting Fees January 2019	-467.40
02/05/2019	26651	Musick, Peeler & Garrett LLP	General Counsel	-4,186.00
02/05/2019	26652	Nestle Pure Life Direct	Operations - Safety	-9.15
02/05/2019	26653	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 1/11/19 & 1/25/19	-593.86
02/05/2019	26654	Polly Holcombe	Director Meeting Fees January 2019	-433.22
02/05/2019	26655	Santa Barbara Police Department	Annual Alarm Registration Fee	-40.00
02/05/2019	26656	Southern California Edison	Electricity - Main & Outlying Stations	-1,227.20
02/05/2019	26657	Spatial Wave	GIS & Mapping - Field Mapplet Software Maintenance Jan-Mar 2019	-900.00
02/05/2019	26658	Staples Credit Plan	Printer cartridges, misc office supplies, chair, batteries	-1,442.86
02/05/2019	26659	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-137.05
02/05/2019	26660	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalpas 3051ci & 6052ci	-411.08
02/05/2019	26661	Wright Express Fleet Services	Fleet Fuel January 2019	-2,744.67
02/06/2019	26662	Prober Land Surveying	Quiota Creek Crossing 8 - Survey of site	-2,340.00
02/21/2019	26663	A.M. Leonard, Inc.	Oak Tree Program - Aluminum Tree Tags	-103.18
02/21/2019	26664	Association of Ca Water Agencies/JPIA	March Health Benefits Coverage	-32,943.97
02/21/2019	26665	Cabela's LLC/Bass Pro LLC	Wader Supplies (Fish)	-405.48
02/21/2019	26666	Carpinteria Valley Water Dist.	Carpinteria Valley Water District - Return of Funds FY 2017-18	-162,738.00
02/21/2019	26667	City of Santa-Barbara	City of Santa Barbara - Return of Funds FY 2017-18	-478,609.00
02/21/2019	26668	Coastal Copy, LP	Copier Maintenance Agreement January 2019 Taskalpas 3051ci & 6052ci	-1,021.20
02/21/2019	26669	CONTECH Engineered Solutions, LLC	Quiota Creek Crossing 9 - Construction Services	-191,927.35
02/21/2019	26670	Cox Communications Santa Barbara	Business Internet - February	-140.00
02/21/2019	26671	Federal Express	Shipping (Admin)	-87.95
02/21/2019	26672	Frontier Communications	Phone Service - SCADA	-571.92
02/21/2019	26673	Giffin Rental & Western Welding	Tecolote Tunnel Walk-Through - Generator Rental	-420.42
02/21/2019	26674	Goleta Water Distr.	Goleta Water District - Return of Funds FY 2017-18	-539,168.00
02/21/2019	26675	Home Depot Credit Services	Supplies (Ops)	-361.78
02/21/2019	26676	J&C Services	Office Cleaning Service - Weekly 1/18/19-2/8/19	-600.00
02/21/2019	26677	Montecito Water Dist.	Montecito Water District - Return of Funds FY 2017-18	-153,400.00
02/21/2019	26678	O'Reilly Automotive, Inc.	Parts & Supplies (Ops & Fish)	-34.77
02/21/2019	26679	Powell Garage	2006 Chevy Colorado 4x4 - Oil Change & Services (Fish)	-77.25
02/21/2019	26680	Prober Land Surveying	ROW Identification Program - Survey of Mission Creek at SCC Crossing	-2,975.00
02/21/2019	26681	Sansum Clinic-Occupational Medicine	Pre-Employment Physicals (Ops & Fish)	-538.00
02/21/2019	26682	Smardan-Hatcher Co.	Supplies (Ops)	-32.50
02/21/2019	26683	Southern California Edison	Electricity - Outlying Stations	-76.05
02/21/2019	26684	The Gas Company	Gas - Main Office	-46.46
02/21/2019	26685	Turenchalk Network Services, Inc.	Network & Software Support	-1,252.30
02/21/2019	26686	United States Geological Survey	USGS Quarterly Joint Funding Agreement 8/1/18-10/31/18	-23,187.50
02/21/2019	26687	Verizon Wireless	Operations Cell Phone, Wireless Modems & SCADA USBs	-703.52
02/21/2019	26688	Woodard & Curran	Lake Cachuma Water Quality & Sediment Study - Professional Services	-33,576.97
02/26/2019	ACH022519A	American Riviera Bank (ARB)	EPFP Loan Pmt 1 of 2	-28,123.75
02/26/2019	ACH022519B	American Riviera Bank (ARB)	EPFP Loan Pmt 2 of 2	-10,354.21
02/28/2019	26689	Culligan of Sylmar	RO Rental 2/1/19-2/28/19	-28.95
02/28/2019	26690	Cushman Contracting Corp.	Emergency Pumping System - Pay Req #58 Phase II	-7,000.00

Cachuma Operation & Maintenance Board

**Paid Claims**

As of February 28, 2019

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
02/28/2019	26691	Cushman Contracting Corp.	SCC Rehabilitation - Progress Payment #6	-18,358.00
02/28/2019	26692	Dal Pozzo Tire Corp.	1999 Chevy C-6500 - Flat Repair (Ops)	-55.00
02/28/2019	26693	Famcon Pipe & Supply	Conduit Maintenance - 6" Waterman Flap Valves	-2,392.50
02/28/2019	26694	MarBorg Industries	Portable Facilities - Outlying Stations	-568.22
02/28/2019	26695	PG&E	Electricity - North Portal & Tecolote Tunnel	-298.34
02/28/2019	26696	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalfas 3051ci & 6052ci	-411.08
Total 1050 - General Fund				<u>-1,996,993.10</u>
<b>TOTAL</b>				<b><u>-1,996,993.10</u></b>

**APPROVED FOR PAYMENT**

\_\_\_\_\_ Director

\_\_\_\_\_ Director

\_\_\_\_\_ Director

# CACHUMA OPERATION & MAINTENANCE BOARD

## Operations Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

**Thursday, March 14, 2019**  
**10:00 a.m.**

### AGENDA

*Chair:* Director Sneddon  
*Alternate:* Director Holcombe

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. Operations / Engineering Projects Update (*for information and possible recommendation*)
  - a. AVAR/BO Rehabilitation Project/SCC Isolation Valve Engineering Design
  - b. SCC Lower Reach Lateral Structures Engineering Design
  - c. Water Quality and Sediment Management Study
  - d. Annex to Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan
  - e. Five-Year Infrastructure Improvement Plan
4. Emergency Pumping Facility Project (*for information and possible recommendation*)
  - a. Makai Ocean Engineering, Inc.
  - b. Cushman Contracting Corporation Contract
  - c. WaterSmart Drought Resiliency Grant Application
5. Purchase of Fleet Vehicle (*for information and possible recommendation*)
6. Projects within USBR Right-of-Way (*for information*)
7. 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:	March 25, 2019
Submitted by:	Janet Gingras

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**SUBJECT:**     **Appointment of Representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of Funds Discussion**

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**RECOMMENDATION:**

Board approve the appointment of the Cachuma Operation and Maintenance Board General Manager to serve as the Cachuma Member Units' representative for the Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund use of funds discussion.

**SUMMARY:**

On April 14, 1996, Reclamation and the Santa Barbara County Water Agency (SBCWA) entered into the Renewal Master Contract which provides for water service from the Cachuma Project. Article 27 of the Master Contract provides that the Cachuma Member Units establish a fund (Renewal Fund) for the purpose of financing Cachuma Project related activities. Per the contract, the formula for calculating the Renewal Fund obligation has an inverse relationship to the Warren Act Trust Fund deposits which are affiliated with the amount of State Project water delivered to the federal facility (Lake Cachuma).

The amount to be deposited in the Renewal Fund by the Cachuma Member Units at the start of each Water Year is not to exceed an amount which bears a ratio to \$257,100 (\$10 per AF of full allocation), which is inverse to the ratio which the amount paid into the Warren Act Trust Fund bears to \$300,000.

Article 27 also provides that Reclamation and the Cachuma Member Units are to jointly develop a Long Term Plan and Annual Work Plans for expenditure of the Renewal Fund monies for purposes consistent with expenditures outlined in the article. Article 3.c. of the Warren Act MOU provides that the Cachuma Project Authority (CPA)(successor agency is COMB) manages and administers the Warren Act Trust Fund. Article 4 of the Warren Act MOU provides for the creation of a Trust Fund Committee, which is comprised of one representative each from Reclamation and CPA (now COMB).

Resolution No. 249, approved unanimously by the COMB Board of Directors in 1997, established the process for administration of the Cachuma Project Trust Fund and the Master Contract Renewal Fund which are merged and carried out under a single committee directing the preparation and implementation of Long Term and Annual Work Plans. The Trust Fund Committee is now referred to as the Trust Fund / Renewal Fund Committee and develops a single Long Term Plan and Annual Plans for expenditure of monies from both Funds. Further, the COMB Board shall appoint a representative to that Committee, based on recommendations from the Cachuma Member Units, and the said representative shall represent the interests of the Cachuma Member Units and shall work with the Bureau of Reclamation Committee member to develop joint Long Term and Annual Work Plans for use of the funds.

In addition to the Warren Act Trust Fund and the Renewal Fund monies, included in the Member Unit Contracts with Santa Barbara County, Article 8 (b) states that the "Water Agency shall provide \$100,000 per year during the term hereof for beneficial purposes consistent with the Water Agency Act and within the Santa Ynez River watershed and the Cachuma Project service area." Decisions relating to expenditure of these funds require concurrence by both the Water Agency and the Cachuma Member Units.

For Board consideration, it is recommended the General Manager be appointed to serve as the Member Units' representative on the Warren Act Trust Fund / Renewal Fund Committee and Betterment Fund use of funds discussion.

**LIST OF EXHIBITS:**

1. COMB Resolution No. 249



**RESOLUTION NO. 249**

**A RESOLUTION OF THE BOARD OF DIRECTORS APPROVING  
MANAGEMENT OF THE CACHUMA PROJECT TRUST FUND AND THE  
CACHUMA MASTER CONTRACT RENEWAL FUND**

**WHEREAS**, the Cachuma Operation and Maintenance Board, as the successor agency following its merger with the Cachuma Project Authority (Authority), has accepted the obligations of the Authority set out in Contract No. 5-07-20-W1281, Memorandum of Understanding for the Creation of a Trust Fund ("Cachuma Project Trust Fund") between the Central Coast Water Authority and the Cachuma Project Authority and the United States of America; and

**WHEREAS**, the Cachuma Member Units, acting jointly, have obligations as set out in Article 27. Renewal Fund ("Cachuma Master Contract Renewal Fund") of Contract No. I75r-1802R, Contract Between the United States and Santa Barbara County Water Agency Providing for Water Service from the Project; and

**WHEREAS**, the Cachuma Operation and Maintenance Board, in accordance with Article 3.1. of the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project, has the power to perform any and all acts necessary to carry out fully, on behalf of the Cachuma Member Units, the provisions of Contract No. I75r-1802R; and

**WHEREAS**, the Cachuma Member Units desire to carry out their joint obligations under the Cachuma Master Contract Renewal Fund through the Cachuma Operation and Maintenance Board;

**NOW, THEREFORE, BE IT RESOLVED**, that the processes for implementation and administration of the Cachuma Project Trust Fund and the Cachuma Master Contract Renewal Fund shall be merged and carried out under the process established by the Cachuma Project Trust Fund, with, to the extent permitted by Federal law and Contract Nos. 5-07-20-W1281 and I75r-1802R, a single Committee (the "Funds Committee") directing the preparation and implementation of Long Term and Annual Work Plans; and,

**BE IT FURTHER RESOLVED**, that the Cachuma Operation and Maintenance Board shall appoint a representative to that Committee, based on recommendations from the Cachuma Member Units, and said representative shall represent the interests of the Cachuma Member Units and shall work with the Bureau of Reclamation Committee member to develop joint Long Term and Annual Work Plans for use of the Funds; and,

**BE IT FURTHER RESOLVED**, that, prior to final approval at the Committee level by the Cachuma Member Units' representative, funding of water-rights related projects shall be approved by the Cachuma Conservation and Release Board (CCRB) and the Santa Ynez River Water Conservation District Improvement District No. 1 (ID No. 1), funding of Cachuma Project betterment related projects or other qualifying projects not water-rights related shall be approved by the Cachuma Operation and Maintenance Board, and funding of all projects which are both water-rights related and Cachuma Project betterment related shall be approved by the Cachuma Operation and Maintenance Board, CCRB and ID No. 1; and,

**BE IT FURTHER RESOLVED**, that the Cachuma Operation and Maintenance Board shall be responsible for managing the Funds accounts, that the General Manager shall have responsibility for day-to-day management and shall provide for requested administrative support. The Board of Directors shall also review and approve disbursements based on approved budgets from the Funds Committee; and,

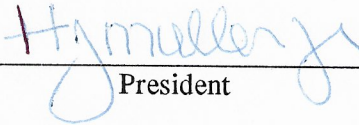
**BE IT FURTHER RESOLVED**, that this Resolution shall take effect immediately,

**ADOPTED** this 27th day of January, 1997 by the following vote:

**AYES:** Clarke, Langer, Mills, Muller, Roberts

**NOES:** None

**ABSENT/ABSTAIN:** None

  
\_\_\_\_\_  
President

**ATTEST:**

  
\_\_\_\_\_  
Secretary of the Board

comb\res\_248.rev

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Submitted by:	Joel Degner
Approved by:	Janet Gingras

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**SUBJECT:** Air Vacuum Air Release Valve (AVAR)/ Blow-off Rehabilitation Project – Engineering Services for Schedule D and E and In-line Isolation Valve

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**RECOMMENDATION:**

The Board of Directors approve the proposed HDR Engineering, Inc. Professional Services Agreement (PSA) contract amendment for the AVAR/Blow-off Rehabilitation Schedule D and E and In-line Isolation Valve Design services in the amount of \$44,000 and authorize the General Manager to execute the contract amendment with HDR Engineering, Inc.

**SUMMARY:**

The rehabilitation upgrades to the Air Vacuum Air Release Valve (AVAR) and Blow-Off facilities are essential for continued reliable delivery of water through the South Coast Conduit (SCC). HDR Engineering, Inc. was selected to assist COMB with design of the AVAR/Blow-off Rehabilitation project based on a competitive proposal for \$137,000 in 2016. HDR Engineering, Inc. provided the engineering design for the repairs and the plans and specifications for bid solicitation. HDR divided the work into six schedules (A through F). Schedule A, B, and C were competitively bid and repairs were completed in the winter of 2018-19, resulting in the rehabilitation of 23 structures. HDR also prepared a design report. In the design report, HDR recommended a new in-line isolation valve be installed at an existing structure in the Montecito area to facilitate Schedule D and E work and to improve emergency response capabilities. This in-line isolation valve would allow Montecito Water District to supply their system from either their Office Pump Station or East Valley Pump Station. COMB staff recommends approval of the proposed contract amendment for Engineering Services to modify the AVAR/Blow-off designs for Schedule D and E and, in addition, complete a design for the in-line valve in the Montecito reach for a contract amendment amount of \$44,000. HDR Engineering Inc. completed the work on the previous PSA contract with \$15,500 remaining. This amendment would increase the PSA contract with HDR Engineering Inc. for the AVAR/Blow-off Rehabilitation from \$137k to \$181k.

**BACKGROUND:**

The SCC is a concrete-lined, concrete-encased steel pipeline extending twenty-six miles from the Goleta reach south to Carpinteria. The pipeline ranges in diameter from 27" to 48". From Barker Pass to Ortega Reservoir the conduit is 30" in diameter.

The SCC contains three main different types of appurtenant structures: blowoffs, air vents, and laterals (or turnouts). These structures are located within vaults along the length of the SCC. Overtime, the metal components of these structures have corroded and are in need of replacement. Due to the corrosion on the blow-off risers, the riser pipes on many of the blow-offs need to be abandoned (encased) and replaced with manhole covers containing blow-off outlets and new components. Existing air vents connect to the conduit through the manhole covers and can be replaced with new manhole covers, which is a less complicated repair than the blow-off riser abandonment.

This AVAR/Blow-off rehabilitation project is in response to three Reclamation recommendations regarding the system (Table 1). The design for the rehabilitation work also includes installation of a double valve system for the air vents and blows-offs, with one valve installed inside the vault and one valve installed outside of the vault. Two valves allow minimal water to be released when exercising valves. In addition, the valve located outside of the vault allows a single operator to open and close the air vent or blowoff without needing to meet the requirements for confined space entry into the vaults in the event of an emergency.

**Table 1. Applicable U.S. Bureau of Reclamation Recommendations**

Item	Category	Description
2012-1-A (26)	1	Retrofit all subgrade air valve vaults along the SCC, from Cater Water Treatment Plant to the Carpinteria Dam
2004-2-I	2	Replace/refurbish all blow offs, blow-off nozzles, and air valves located in the Carpinteria section of the SCC
2013-2-L (42)	2	Repair or replace the corroded pipe inside of the blow-off structures at stations 225+98, 227+20, 388+10, 504+65, 552+45, 803+45, 804+24, and along the Carpinteria Reach

During 2016 in a competitive bid process, HDR Engineering, Inc. was selected as the engineering firm to provide a detailed assessment of site conditions, equipment condition, and access constraints. Alternative strategies for implementing the repairs were investigated and a recommended approach was determined. HDR Engineering then prepared the plans and specifications for bidding the rehabilitation work.

The designs and specifications provide the suggested repairs on the SCC from Cater Treatment Plant to Carpinteria Reservoir. The repair and upgrade of the blow-offs and AVAR facilities have been divided into 6 different schedules by location and shutdown consideration. The six schedules are summarized below in Table 2. HDR also prepared a design report. In the design report, HDR recommended a new in-line isolation valve be installed in the Montecito area to facilitate AVAR/BO work and to improve emergency response capabilities. This in-line isolation valve would allow Montecito Water District to supply their system from either the Office Pump Station or East Valley Pump Station.

**Table 2. Repair Schedule**

Schedule	Location	Shutdown Required	Blowoffs	Air Vents
A	Cater WTP to Sheffield Control Station	Completed	4	0
B	Sheffield Control Station to Barker Pass	Completed	7	3
C	Cater WTP to Carpinteria Reservoir	Completed	0	9
D	Barker Pass to Valley Club Golf Course	Winter 2019-2020	4	2
E	Valley Club Golf Course to Ortega Reservoir	Winter 2019-2020	1	1
F	Ortega Reservoir to Carpinteria Reservoir	Winter 2020-2021	12	13

COMB has rehabilitated and upgraded blow-off and air and vacuum/air release (AVAR) valve facilities on the Lower Reach of the SCC from Cater Treatment Plant to Barker Pass in the winter of 2018-19. This completed Schedule A, B, and C (Table 2).

**FISCAL IMPACTS:**

The total proposed cost for the AVAR/Blow-off Schedule D and E and In-line Isolation Valve Engineering Design work totals \$59,470. The current fiscal year 2018-19 budget amount for the in-line valve engineering is \$25,000. The remaining \$35,000 will be included in the fiscal year 2019-20 Operating Budget. However, since HDR Engineering completed the previously proposed work under budget by \$15,500, the total contract amendment would be for \$44,000.

**LEGAL CONCURRENCE:**

Legal counsel will review the PSA contract amendment.

**ENVIRONMENTAL COMPLIANCE:**

The engineering design work does not require additional environmental documentation.

**COMMITTEE STATUS:**

The Operations Committee reviewed the proposed HDR Engineering, Inc. Professional Services Agreement (PSA) contract amendment for the AVAR/Blow-off Rehabilitation Schedule D and E and In-line Isolation Valve Design services in the amount of \$44,000 and forwards to the Board with a recommendation to approve and authorize the General Manager to execute the contract amendment with HDR Engineering, Inc.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Submitted by:	Joel Degner
Approved by:	Janet Gingras

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**SUBJECT:**     **South Coast Conduit Lower Reach Lateral Structures Rehabilitation Project  
Evaluation and Design – Engineering Contract**

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**RECOMMENDATION:**

The Board of Directors approve the proposed engineering costs (evaluation and design) for the South Coast Conduit Lower Reach Lateral Structures Rehabilitation Project and authorize the General Manager to execute a sole sourced Professional Services Agreement contract with Flowers & Associates, Inc. for the South Coast Conduit Lower Reach Lateral Structures Rehabilitation Project engineering services in an amount not to exceed \$83,100. Professional services will be divided into two separate phases; Phase I for \$40,300 (FY 208-19) and Phase II for \$43,200 (FY 2019-20).

**SUMMARY:**

There are forty-four lateral connections housed in concrete cylinder structures on the lower reach of the South Coast Conduit. The function of these connections is to provide water to sections of the Montecito Water District and Carpinteria Valley Water District. Each connection contains an air valve where applicable, an upstream valve, a meter, and a downstream valve. . Thirty-five of the existing lateral appurtenances pose an operational risk due to age, corrosion, and valve operating conditions. The dependability of these valves is necessary to provide reliable water service to customers served in sections of the Montecito and Carpinteria Water District Boundary areas.



In addition, all of the lateral connections need to have replacement valving installed to effectively isolate the laterals ahead of the planned South Coast Conduit (SCC) shutdown for repairs to the blow-off and air-vac structures in late 2020.

Overall, this project will replace corroded and poorly functioning valves on active lateral connections. The existing valving will be used to isolate the downstream piping which will be partially removed to install the new isolation valve and any needed make-up and connection piping. As part of the scope and during the shutdown to repair the SCC facilities, the old isolation valve will be removed and replaced with a new spool. COMB requires engineering services to thoroughly investigate current lateral arrangements and to produce rehabilitation designs. The evaluation and design work would be mostly completed to allow for the first construction phase to begin next fiscal year (FY 2019-20). Due to unique conditions at each site, evaluation and design work is required for each individual structure.

Staff is recommending utilizing Flowers & Associates, Inc. specifically for the work as outlined in the non-competitive bid justification form attached as an exhibit to this memorandum. Carpinteria Valley Water District has engaged Flowers and Associates, Inc. to inspect and analyze each turnout and lateral in the Carpinteria reach. Field evaluation for this work has been coordinated with COMB and primarily completed under contract with Carpinteria Valley Water District. Flowers & Associates, Inc. has provided a proposal and quotation to staff for the COMB evaluation and design portion of the project.

**FISCAL IMPACTS:**

The adopted operating budget for the SCC Lower Reach Lateral Structures for fiscal year (FY 2018-19) is \$50,000. Flowers & Associates, Inc. provided a quote on a time and materials basis not to exceed \$83,100 for the evaluation and design of the SCC Lower Reach Lateral Structures Rehabilitation Project. \$40,300 of this amount is for pre-construction evaluation, design, and bid services, occurring within the current fiscal year (FY 2018-19) with the remainder being an allowance for additional engineering services that would be required next fiscal year (Phase 2) during the construction phase of the project. Phase 2 engineering services would occur after a Notice to Proceed has been provided to a construction contractor.

**ENVIRONMENTAL COMPLIANCE:**

The evaluation and design phase of the project will not require environmental compliance considerations.

**COMMITTEE STATUS:**

The Operations Committee reviewed the proposed engineering costs (evaluation and design) for the South Coast Conduit Lower Reach Lateral Structures Rehabilitation Project and forwards to the Board with a recommendation to approve and authorize the General Manager to execute a Professional Services Agreement contract with Flowers & Associates, Inc. for the South Coast Conduit Lower Reach Lateral Structures Rehabilitation Project engineering services in an amount not to exceed \$83,100. Professional services will be divided into two separate phases; Phase I for \$40,300 (FY 2018-19) and Phase II for \$43,200 (FY 2019-20).

**LIST OF EXHIBITS:**

1. Non-Competitive Bid Justification Form



# CACHUMA OPERATION AND MAINTENANCE BOARD

## Non-Competitively Bid (NCB) Contract Justification

### South Coast Conduit (SCC) Carpinteria Reach Lateral Rehabilitation Project

**Date:** March 25, 2019

**To:** Board of Directors

**From:** Engineering / Operations Division

**Contract:** South Coast Conduit (SCC) Carpinteria Reach Lateral Rehabilitation Project – Engineering Design – Flowers & Associates, Inc.

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**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 has outstanding Category 1 (subgrade air vents) and Category 2 (corroded blowoff nozzles, lateral valve replacements) Reclamation recommendations to complete in the Carpinteria Reach of the South Coast Conduit (SCC). These repairs are being completed as part of the Air Vacuum Air Release/Blowoff Rehabilitation Project. Shutdowns of the SCC are required to perform these repairs and are scheduled in Carpinteria in the winter of 2020-2021. COMB previously met with Carpinteria Valley Water District (CVWD) staff to plan potential shutdowns of the South Coast Conduit. Based on these meetings, CVWD hired Flowers and Associates to perform an analysis of how to maintain customer service at each turnout during the planned shutdown. This study required an inspection of each turnout with Flowers and Associates, COMB, and CVWD staff. The Bureau of Reclamation maintains the ownership of each turnout to the pipe flange of the downstream isolation valve. The turnout valves are all original and in need of replacement. During the shutdown of the SCC, isolation of each turnout is required using Reclamation owned valves. The original isolation valves cannot be relied upon given their current state.

By hiring Flowers and Associate to perform the engineering design for the replacement of the isolation valves, the required effort to visit and understand each turnout would not need to be duplicated. The field evaluation and analysis has mostly been completed under the contract work with CVWD. In addition, Flowers and Associates, Inc. is familiar with customer demands served by each turnout, which will be beneficial in planning the turnout shutdowns to perform the valve replacements.

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

The SCC Carpinteria Reach Lateral Isolation Replacement – Engineering Design would not be able to be performed concurrently with the CVWD funded study, which is evaluating how to maintain service to each turnout during a shutdown of the SCC. Not having this NCB approved would increase costs for an engineering consultant to visit each lateral in the field, for COMB staff to accompany those inspections, and for CVWD staff to provide additional information and background on each lateral to a new consultant. It could also delay the project.

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

COMB will continue to bid work according to its procurement policy. In this case, there is substantial cost savings, coordinated efficiencies and relay of information, economies of scale and overarching project benefits to utilize the same consultant that CVWD hired for their turnout study to perform the related engineering design work for the lower reach lateral valve replacements.

**RESTRICTED CONTRACTOR JUSTIFICATION (NON COMPETITIVE BID)**

**A. PRICE ANALYSIS**

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

COMB estimated the engineering design phase of the project to be \$50,000. The preconstruction engineering design will be completed for \$40,300 based on the proposal. In addition, approximately three days of field effort have already occurred under CVWD contract. This saves approximately \$8,000 of consultant effort and additional savings for CVWD and COMB staff time if COMB selected a different consultant.

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

Approximately three days of field effort have already occurred under CVWD contract. This saves approximately \$8,000 of consultant effort and an additional three days for two CVWD staff and two COMB staff.

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Prepared by:	Joel Degner
Approved by:	Janet Gingras

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**SUBJECT:** Resolution No. 684 - U.S. Bureau of Reclamation Grant Funding Opportunity

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**RECOMMENDATION:**

The Board of Directors adopt Resolution No. 684 which supports the application and financial commitment to the Bureau of Reclamation's WaterSMART Drought Resiliency Program Federal Funding Opportunity and authorize staff to submit a grant application to Reclamation for the secured pipeline project.

**SUMMARY:**

The Bureau of Reclamation has made a funding opportunity available as part of its WaterSMART Drought Response Program for projects that build long-term resiliency to drought and reduce the need for emergency response actions. Drought resiliency projects increase the reliability of water supplies, improve water management or provide benefits for fish, wildlife and the environment. Proposed projects that are supported by an existing drought plan are prioritized. Federal funding for this open opportunity is available in two funding groups:

Funding Group I: Up to \$300,000 per agreement for a project that can be completed within two years.

Funding Group II: Up to \$750,000 per agreement for a project that can be completed within three years.

Those entities eligible to apply for funding include states, Indian Tribes, irrigation districts, water districts, or other organizations with water or power delivery authority located in the western United States or United States Territories as identified in the Reclamation Act of June 17, 1902. Applicants must also provide a 50 percent non-Federal cost-share. Reclamation anticipates awarding between 10 and 15 drought resiliency projects this year. The deadline for submission to this funding opportunity is March 27, 2019.

Staff submitted a project information form for the secured pipeline project to the Santa Barbara County IRWMP stakeholders for consideration in the next round of funding. The request included project costs of approximately \$2.9m with IRWMP grant funding support requested at 50% totaling \$1.45m. In addition, if awarded, the Reclamation WaterSmart Drought Resiliency funding group II opportunity would provide up to \$750k as additional cost share for a project which could be completed within three years. The Member Agencies would be requested to financially support the remaining project costs.

The secured pipeline project is recommended (Makai Ocean Engineering) to be installed when the lake level reaches 700' elevation or below, which would be indicative of a receding (drought condition) lake elevation at our local resource. If California and the western states receive average rainfall during the next two winter periods, it could be possible that Reclamation will discontinue the issuance of drought related funding opportunities for resiliency projects. Hence, staff is recommending and seeking approval to move forward with the application process during this open opportunity.

**LEGAL CONCURRENCE:**

Legal Counsel has reviewed Resolution No. 684 for presentation to the Board for adoption.

**FISCAL IMPACTS:**

The federal funding amount for this Bureau of Reclamation Funding Opportunity is up to \$750,000 per agreement for a project that can be completed within three years. The grant opportunity provides for funding up to fifty-percent (50%) of the project cost with a recipient cost share of fifty-percent (50%). The engineering and design for the project would be budgeted in the Fiscal Year 2019-20 COMB Operating Budget. Grant funding awards will be announced in Spring/Summer 2019.

**COMMITTEE STATUS:**

The Operations Committee has reviewed Resolution No. 684 and forwards to the Board with a recommendation to adopt and authorize staff to submit a grant application to the Bureau of Reclamation for the secured pipeline project.

**EXHIBITS:**

1. Resolution No. 684

**RESOLUTION NO. 684**

**RESOLUTION OF THE GOVERNING BOARD OF THE  
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING APPLICATION  
TO THE U.S. BUREAU OF RECLAMATION WATERSMART DROUGHT RESPONSE  
PROGRAM: DROUGHT RESILIENCY PROJECTS FUNDING OPPORTUNITY**

**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 (collectively the “Joint Powers Agreement”); and

**WHEREAS**, the Member Agencies of COMB consist of the City of Santa Barbara, the Goleta Water District, 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”); and

**WHEREAS**, Reclamation recently released a grant-funding opportunity under the WaterSMART Drought Response Program for drought-related resiliency projects and implementation; and

**WHEREAS**, commitments outlined within the WaterSMART Drought Response Grant Funding Program require a fifty-percent (50%) cost share of total costs for the recipient; and

**WHEREAS**, the project description included in the grant application defines the scope and necessity to install a secured conveyance pipeline in Lake Cachuma for improved reliability, sustainability and drought resiliency (“Project”); and

**WHEREAS**, on March 14, 2019, the Project was reviewed and considered by COMB’s Operations Committee with a recommendation to forward to the COMB Governing Board for approval; and

**WHEREAS**, grant funding awarded under the WaterSMART Drought Response Grant Funding Program would be presented to the Board for final approval prior to implementation.

**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 supports the Project; namely, the concept of installing a secured conveyance pipeline in Lake Cachuma for improved reliability and drought resiliency.
3. The Governing Board approves an application for Project funding under Reclamation's WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2019.
4. 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 procurement of engineering designs, and any other actions to implement the Project upon the Board's approval of expenditures.
5. This Resolution shall take effect immediately.

**PASSED, APPROVED AND ADOPTED** by the Governing Board of the Cachuma Operation and Maintenance Board, this 25<sup>th</sup> day of March 2019, by the following roll call vote:

**Ayes:**

**Nays:**

**Abstain:**

**APPROVED:**

\_\_\_\_\_  
President of the Governing Board

**ATTEST:**

\_\_\_\_\_  
Secretary of the Governing Board

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Submitted by:	Dave Stewart
Approved by:	Janet Gingras

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**SUBJECT:** Purchase of Replacement Fleet Vehicle

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**RECOMMENDATION:**

The Board of Directors authorize the General Manager to execute a purchase order with Vreeland Ford in an amount not to exceed \$30,010 for the purchase of a replacement fleet vehicle.

**SUMMARY:**

The Operations Division is requesting authorization to replace an existing fleet truck with a new truck in accordance with our Vehicle Replacement Matrix (attached). Staff received four quotations from various local dealers for the purchase of the replacement vehicle. Purchase price quotations ranged from \$30,010 to \$37,988. Vreeland Ford of Buellton provided the lowest quotation.

**FISCAL IMPACTS:**

The Fiscal Year 2018-19 Operating Budget contains funding for the purchase of a replacement vehicle.

**COMMITTEE STATUS:**

The Operations Committee reviewed the proposed cost for the purchase of a replacement fleet vehicle and forwards to the Board with a recommendation to approve.

**LIST OF EXHIBITS:**

1. Vehicle Replacement Matrix

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**CACHUMA OPERATION AND MAINTENANCE BOARD  
VEHICLE REPLACEMENT MATRIX  
AS OF JUNE 2018**

**DRAFT**

VEHICLE/ EQUIPMENT#	VEHICLE TYPE	YEAR	LICENSE #	VIN#	MILEAGE SCORING	OVERALL CONDITION OF THE VEHICLE	MAINTENANCE/ REPAIRS NEEDED IN UPCOMING MONTHS	VEHICLE AGE	SCORE	VEHICLE TO BE REPLACED IN FY 2018-19	VEHICLE TO BE REPLACED IN FY 2019-20	VEHICLE TO BE REPLACED IN FY 2020-21	VEHICLE TO BE REPLACED IN FY 2021-22	VEHICLE TO BE REPLACED IN FY 2022-23
<b>FISHERIES</b>														
119	Ford F-150 4WD	2003	1052182	1FTRW08623KD11937	3	1	0	4	8			Yes		
122	Chevy Colorado 4x4	2006	1197147	1GCDT196868198584	4	2	0	3	9		Yes			
130	Chevy 2500 HD 4WD Crew Cab	2012	1385771	1GC1KVCGXCF204276	0	0	0	2	2					
132	Ford F-150 4WD Supercab	2015	1447024	1FTFX1EG3FKE06157	0	0	0	1	1					
133	International 2,000 Gallon Water Truck	2013	1386718	3HAJTSKM8DL257077	0	1	0	1	2					
134	Ford F-150	2018	1549481	1FTEW1EP7JKD73526	0	0	0	0	0					
135	Wylie Water Tank Trailer	2012	SE517568	5VUTG1425CP000001	0	1	0	2	3					
<b>OPERATIONS</b>														
118	Chevy C-Series, C-6500	1999	1117561	1GBJ6H1D0XJ106329	0	1	0	4	5					
121	Ford F-550 4x4 chasis	2005	1197073	1FDAF57Y85EB32487	1	2	0	3	6				Yes	
124	Ford Ranger	2006	1227065	1FTYR14U66PA34424	2	4	0	3	9	Yes				
125	Ford F-350	2007	1218224	1FDWF36YX7EB40525	0	1	0	3	4					
127	Chevy Silverado 3500HD	2007	1313731	1GBJK34K77E511346	0	1	0	3	4					
128	Ford Explorer	2008	1330733	1FMEU63E38UB18886	3	1	0	2	6					Yes
131	Chevy Silverado 1500 4WD	2015	1441833	3GCUKPEC0FG425486	1	0	0	1	2					
136	Utility Big Text Trailer Mfg.	2010	1369513	16VCX1628A2H54655	0	0	0	2	2					
137	Carson Trailer	2010	4KN7969	4HXSU102XAC149522	0	0	0	2	2					

MILEAGE SCORING	VEHICLE AGE SCORING	OVERALL CONDITION SCORING (USING KELLEY BLUE BOOK STANDARDS LISTED BELOW)
0 to 50,000 miles - 0 50,001 to 80,000 miles - 1 80,001 to 100,000 miles - 2 100,001 to 150,000 miles - 3 150,001 to 200,000 miles - 4	Less than a year old - 0 1-5 years old - 1 6-10 years old - 2 11-15 years old - 3 15 years or older - 4	<p align="center"><b>Excellent condition - 0</b></p> <p>Excellent condition means that the vehicle looks new, is in excellent mechanical condition and needs no reconditioning. This vehicle has never had any paint or body work and is free of rust. The vehicle has a clean Title History and will pass a smog and safety inspection. The engine compartment is clean, with no fluid leaks and is free of any wear or visible defects. The vehicle also has complete and verifiable service records. Less than 5 percent of all used vehicles fall into this category.</p> <p align="center"><b>Good condition - 1</b></p> <p>Good condition means that the vehicle is free of any major defects. This vehicle has a clean Title History, the paint, body and interior have only minor (if any) blemishes, and there are no major mechanical problems. There should be little or no rust on this vehicle. The tires match and have substantial tread wear left. A "good" vehicle will need some reconditioning to be sold at retail. Most consumer owned vehicles fall into this category.</p> <p align="center"><b>Fair condition - 2</b></p> <p>Fair condition means that the vehicle has some mechanical or cosmetic defects and needs servicing but is still in reasonable running condition. This vehicle has a clean Title History, the paint, body and/or interior need work performed by a professional. The tires may need to be replaced. There may be some repairable rust damage.</p> <p align="center"><b>Poor condition - 3</b></p> <p>Poor condition means that the vehicle has severe mechanical and/or cosmetic defects and is in poor running condition. The vehicle may have problems that cannot be readily fixed such as a damaged frame or a rusted-through body. A vehicle with a branded title (salvage, flood, etc.) or unsubstantiated mileage is considered "poor." A vehicle in poor condition may require an independent appraisal to determine its value.</p> <p align="center"><b>Inoperable condition - 4</b></p> <p>Vehicle unable to be driven due to mechanical or safety reasons.</p>

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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.”*

March 25, 2019

## **General Manager Report**

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

### Meetings

- Member Agency Meeting

Staff conducted a meeting in early March with Member Agency staff to discuss the continued development of the Infrastructure Improvement Plan (IIP) including the internally adjusted schedule, approach on organizing the asset management tool and related critical needs assessment, and the process to identify and categorize projects and develop associated project descriptions. An update on progress and incremental elements related to the plan will be presented to the Operations Committee once comments are received from Member Agency staff and incorporated into the plan.

In addition to the IIP discussion, staff presented material related to projected lake elevations, the preliminary results of the pipeline feasibility study performed by Makai Ocean Engineering, and discussions related to the current emergency pumping facility contract. Staff updated the Member Agencies on the Water Quality and Sediment Management Study currently being conducted by Woodard and Curran consultants.

- Santa Barbara County Integrated Regional Water Management (IRWM) Plan 2019 Update

On March 8, 2019, the IRWM Participating Cooperating Partners met at Vandenberg Village Community Services District. Jane Gray with Dudek (Consultant for the County) announced that the 2019 Santa Barbara County IRWM Plan was adopted by the County Board of Supervisors at their February 26<sup>th</sup> meeting. The Plan will be submitted to the Department of Water Resources (DWR) in April with an anticipated mandatory pre-application meeting with DWR to be scheduled in June or July. Ms. Gray also distributed nine project solicitations received from the IRWM Cooperating Partners for consideration in Round 1 funding. Each Cooperating Partner had the opportunity to provide a brief summary of their respective project to the entire group. Following the discussion, the Cooperating Partners selected a sub-committee that will be tasked with developing selection criteria and project ranking prior to moving the projects forward to a public workshop to be scheduled in May.

- Information Technology (IT)

Administrative staff recently met with our outsourced IT consultant, Turenchalk Network Services, Inc. The purpose of the meeting was to review COMB's server and network systems, identify updates to system requirements and assess current IT protocols, review data disaster recovery practices, as well as, identify potential new risks against cybersecurity threats. The discussion included a review of backup processes, structure hierarchy and access protocols. COMB staff is in the process of developing a comprehensive IT inventory and replacement policy including hardware and software. In addition, a risk management plan will be developed which will incorporate a disaster recovery policy and procedure, short and long term IT planning objectives, and field maplet and SCADA system master plans.

Administration

- Cachuma Project Preliminary Cost Estimates – FY 2019-20

For purposes of fiscal year 2019-20 budget preparation and planning, staff has provided the Member Agencies a preliminary estimate of Cachuma Project costs for the upcoming fiscal and water year which included the projected water rates for WY 2019-20, remaining water rate deficits from WY 2015-2017, the COMB FY 2019-20 projected operating budget, Bradbury and Lauro Dam SOD Act repayment obligations, the annual water rights fee and the Emergency Pumping Facility (EPF) loan assessment obligation. The COMB operating budget projections are very fluid until it is determined if certain projects will be implemented. As the Infrastructure Improvement and Habitat Improvement Plans are prepared and presented to the appropriate committees and Board, the projected COMB FY 2019-20 operating budget will develop in alignment.

- ACWA/JPIA Retrospective Premium Adjustment (RPA) Stabilization Fund Report

COMB is slated to receive a premium adjustment refund originating from the ACWA/JPIA Liability, Property and Worker's Compensation Programs. At the beginning of each policy period, the JPIA collects a deposit premium representing estimated costs for that year. Annually, the JPIA looks back at the estimate and reconciles the fund balance for each agency to actual claims paid. When a member's fund balance exceeds 50 percent of its basic premium, the excess money is refunded. This year's refund, in the amount of \$25,046.23, is reflective of a low paid claims history.

- Fiscal Year 2019-20 Draft Operating Budget Development

The Fiscal Year 2019-20 COMB Draft Operating Budget is being developed and will be presented to Member Agency staff for review during mid-April. Staff is preparing components necessary to present a comprehensive budget document for review by the Districts. Once comments have been received and incorporated, an Administrative Committee meeting will be conducted prior to the draft budget presentation to the Board.

- Cachuma Project Water Rates - 2<sup>nd</sup> Period Entitlement Pass-through Invoice

The pass-through invoicing for the Cachuma Project Water Rates 2<sup>nd</sup> period entitlement has been issued to the Cachuma Project Member Agencies. Reclamation has adjusted the invoice since the 1<sup>st</sup> period entitlement billing was issued to reflect revised payoff amounts for each agency related to the budget deficits generated from previous fiscal years.

Fisheries Division Activities

- Hilton Creek Watering System (Pumping Platform)

Several weeks ago, the Hilton Creek Pumping Platform was observed by COMB staff as listing to one side as lake water was rising. In addition, electrical components for the pumping platform were becoming submerged under water. Reclamation was informed and requested a technical team from Boise, Idaho to provide an underwater inspection on the barge system. It was found that the one of the turnbuckle pulleys was twisted and not operating properly. Further, the intake pipeline serving the pumping platform was also breaching the surface of the lake in an arched manner. Reclamation has indicated they will be procuring the appropriate technical personnel to repair the issues associated with the system. In the meantime, flows into Hilton Creek are provided by gravity through the emergency backup system which eliminates the ability for state water to be delivered to the lake at this time.

Respectfully Submitted,

*Janet Gingras*  
General Manager

## CACHUMA OPERATION AND MAINTENANCE BOARD

### MEMORANDUM

**DATE:** March 25, 2019  
**TO:** Janet Gingras, General Manager  
**FROM:** Joel Degner, Water Resources Engineer  
**RE: MONTHLY ENGINEERING REPORT**

The following summary provides the Board with information and an overview of progress by engineering staff.

#### **FORECASTED LAKE ELEVATIONS**

The Lake Elevation Projection Model has been updated with data through March 18, 2019. Water deliveries from CCWA have not occurred in March due to issues related to the Hilton Creek Watering System (HCWS). Currently, Hilton Creek is being supplied at the upper release point through the Emergency Backup System through the penstock on gravity flow. CCWA has provided Reclamation with a proposed bypass solution to allow CCWA deliveries to the lake. The preliminary lake model results assume no CCWA deliveries can occur above the elevation of 719'. This is a conservative assumption for planning purposes and likely to change in the future with either the repair of the Hilton Creek Water System or installation of the proposed CCWA bypass.

The baseflow recession curve developed by the County of Santa Barbara was used to model the receding inflow through the end of April 2019. Dry conditions similar to 2013 were assumed for the rest of the Water Year 2019 and for Water Year 2020 and Water Year 2021. The modeling assumes a downstream release of 8,000 to 12,000 acre-feet (AF) in 2019 and 2020 by Santa Ynez River Water Conservation District (SYRWCD). However, in wetter-than-normal years SYRWCD has not always requested a downstream release.

Member agency projections for imports/exports from Lake Cachuma were provided to COMB in January 2019 based on dry conditions and assuming a 20% allocation in Water Year 2018-2019. With the increased available supplies in Lake Cachuma, the Member Agencies have requested that the current 2018-2019 allocation be increased to 100 percent. Updated forecasts will be requested from the member agencies once the 2018-2019 Cachuma Project allocation and 2019 State Water Project Allocation have been finalized. For preliminary planning purposes in the conservative scenario, the modeling assumes the Member Agencies would shift their groundwater demands to surface water in Lake Cachuma for the rest of water year 2019 and match 2013 imports/exports in 2020 and match 2014 imports/exports in 2021.

Figure 1 presents the preliminary projected elevation at Lake Cachuma through September 2021 assuming a repeat of dry year hydrology. Key components of the Emergency Pumping Facility Project (EPFP) are held in storage under an existing contract with Cushman Contracting Corporation (CCC). Based on the terms of the contract, COMB would need to issue CCC a Notice to Proceed (NTP) not later than 45 days before the lake drops below elevation 685 ft to mobilize and install the pilings and pipeline to Site 1 and build the pump station. With the increase in lake levels, the lake elevation is projected to remain above 685 through at least the Summer of 2021. Implementation of the EPFP will not likely be needed until the Summer/Fall of 2021 if the next two winter periods are dry.

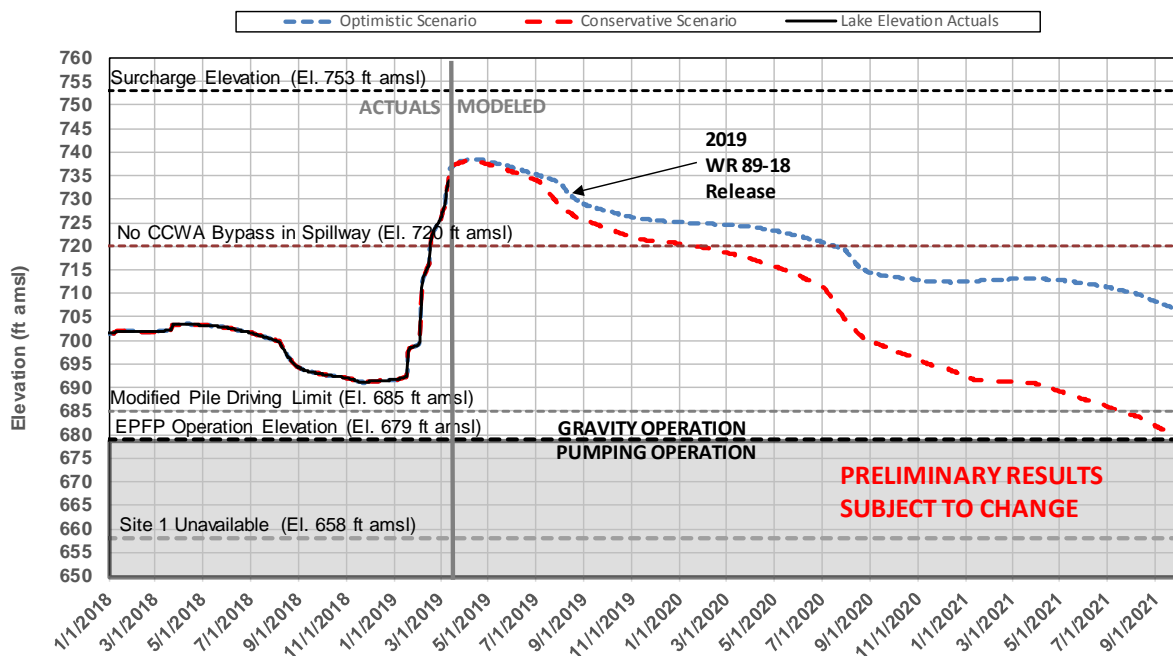
#### **CLIMATE CONDITIONS**

The United States Drought Monitor removed drought conditions from Santa Barbara County as of March 12, 2019. However, the drought monitor does not reflect the long-term deficits in precipitation that occurred from 2012 to 2019. The 7-year average rainfall measured at Bradbury Dam through March 18, 2019 is still 67% of the normal average from 1958 to 2019 and the 2<sup>nd</sup> driest 7-year period since the dam was constructed. Weak El Nino conditions are likely to continue through the Northern Hemisphere spring 2019 (~80% chance) and summer (~60% chance) according to the National Weather Service Climate Prediction Center. The Santa

Barbara County-wide precipitation to date is 136% of Normal (as of March 18, 2019). Gibraltar Reservoir began spilling on January 17, 2019 and Jameson Reservoir is full and began spilling on February 3<sup>rd</sup>. The antecedent moisture index at Gibraltar is 6.0 indicating wet conditions. Given the wet antecedent conditions and with both upstream reservoirs full, additional storm events this water year will generate higher amounts of runoff into Lake Cachuma per inch of rain than when conditions were drier earlier in the water year.

**Table 1. Lake Elevation Projection Scenarios**

Parameter	Optimistic	Conservative
SCC Exports	Forecast	SCC Forecast + GW Forecast in 2019, 2013 demands in 2020, 2014 demands in 2021
CCWA Inflow	Forecast	80% forecast in 2019, 2013 deliveries in 2020, and 2014 Deliveries in 2021
WR 89-18 Release	8,000 AF (2018)	12,000 AF (2016)



**Figure 1. Lake Cachuma Elevation Forecast (as of 3/18/2019) using 2013 Dry Year Hydrology**

**LAKE CACHUMA CONVEYANCE FEASIBILITY STUDY**

Makai Ocean Engineering has evaluated the existing EPFP pipeline stored at the lake for suitability for a bottom-mounted application. The pipeline could potentially be made suitable by adding pipe stiffeners every 7 feet. However, the estimated cost of the stiffeners (\$482,000) is only slightly less than the cost of new unstiffened DR 17 pipe (\$560,000). Unstiffened DR-17 pipe also has higher factors of safety for both suction collapse and long-term pressure and has additional advantages of eliminating the issues of storage of the existing pipe, avoiding uncertainties of existing pipe condition, and simplifying assembly and deployment for a bottom-mounted deployment. Makai recommends installing unstiffened DR17 pipeline with some pressure surge mitigation measures (controlling vent vacuum relief valves at pump station and inflow check valve). In addition, Makai evaluated the deployment of the bottom-mounted pipeline at an elevation of 700 feet or less. Installing the bottom-mounted pipeline at a higher elevation would require more evaluation and add more complication to the installation due to managing the bending stresses on the pipeline.

## LAKE CACHUMA WATER QUALITY AND SEDIMENT MANAGEMENT PLAN

The Lake Water Quality and Sediment Management Study kicked off in November 2018. The consultant (Woodard and Curran) has requested and compiled relevant datasets from COMB and its Member Agencies. In addition, the consultant has conducted interviews with technical staff from COMB and each Member Agency to generate the list of lake issues and determine relevance. The technical review team will meet at the end of March to review the progress on the study and discuss trends in the data and relevance of the lake issues.

### INFRASTRUCTURE IMPROVEMENT PROJECT STATUS

Table 2 provides a summary of the FY 2018-2019 Infrastructure Improvement Projects. COMB staff performed a critical needs assessment as part of the infrastructure improvement plan update. COMB staff will meet in April with Member Agency staff regarding the continued development of the updated Infrastructure Improvement Plan.

**Table 2. Infrastructure Improvement Projects Status**

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
<b>Infrastructure Improvement Projects</b>			
Sycamore Canyon Slope Stabilization	Bid documents were issued on March 15, 2019. Bids will be received in early April, for the April board meeting review and approval.	Several components (permitting, potential for winter rains, and grant funding) resulted in a delay of the project to 2019.	September 2019
SCC Structure Rehabilitation (AVAR/BO)	A contract amendment is requested to continue engineering design for Schedule D and E in Montecito for next winter.	Work in Montecito requires a line valve to facilitate shutdowns.	Schedule A, B, C completed in January 2019. Schedule D and E planned for winter 2019-2020.
Lateral 3 Repair	Construction was completed in early December.	This project required a 7-day shutdown and welders to enter the SCC and travel ~1000 feet.	Completed in December 2018.
Rehabilitate San Antonio Creek Blow-off	Valves and piping were replaced in early December 2018. A minor amount of additional work is needed to install the floorstands and stem extensions.	The valves were replaced in 2018. Floorstands were not installed due to a delay in shipment in the stem extensions. Floorstands and stem extensions will be installed once conditions dry out for access.	Valves replaced in December 2018, with minor finish work completed in May 2019
SCC Line Valves for Shutdown	The isolation valve would be installed as part of the planned AVAR/BO work in the Montecito Area next winter. Engineering plans will be developed in spring based on previously installed in-live valves. However, the in-line valve installation will likely not require a bypass.	Additional line valves in the SCC could better facilitate planned maintenance activities.	Design by June 2019
SCC Structure Rehabilitation : Lower Reach Laterals	Staff worked with CVWD and CVWD contractor on visiting and reviewing each lateral in the CVWD portion of the lower reach. This project will involve a condition assessment and rehabilitation plan for the portions of the Lower Reach laterals under COMB's responsibility. Engineering is planned for spring 2019.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves may need replacement.	Plan/Design by June 2019
<b>Special Projects</b>			
Emergency Pumping Facility Project	Key components barge are currently being stored under contract. COMB has the option to continue to store these components as part of the EFPF contract. The pipeline to reach Site 1 is currently floating in the lake and requires relocation or removal.	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	The consultant performed interviews of key staff from each Member Agencies and from COMB. The 1st Technical Review meeting is scheduled to occur at the end of March.	Recent wildfires and subsequent storm events have resulted in decreased water quality and increased sedimentation into Lake Cachuma.	March 2020

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**CACHUMA OPERATION AND MAINTENANCE BOARD**

**MEMORANDUM**

**DATE:** March 25, 2019

**TO:** Janet Gingras, General Manager

**FROM:** Dave Stewart, Operations Manager

**RE:** MONTHLY OPERATIONS DIVISION REPORT

**Operations** – Report Attached

# MONTHLY OPERATIONS DIVISION REPORT



**March 25, 2019**

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**CACHUMA OPERATION  
& MAINTENANCE BOARD  
DAVE STEWART**



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# Monthly Operations Division Report

## Introduction

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 Carpentaria 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.
- Prompt response to Underground Service Alerts (USA's) within the USBR right-of-way.

## Operations staff regularly performs the following duties:

- Weekly off site inspections of major facilities
- Structure maintenance on all air vent, blow off and turnouts
- Dam inspection and instrumentation reports (all reservoirs)
- Annual exercising of control valves
- Quarterly meter calibrations
- Weekly safety meetings
- Weekly rodent bait (all reservoirs)
- Weekly toe drain and piezometer reads at Ortega (L23)
- USA Dig Alerts – Respond as necessary to alerts
- Pesticide report to County of Santa Barbara
- Operational tests of generators at the North Portal and at Lauro Yard
- Inspection of fire extinguishers
- Read anodes and rectifier data
- Water samples taken at Lake Cachuma
- Clean up, inspection and tool inventory of all vehicles
- Clean up and organize service yard and all buildings

***“Our mission is to provide a reliable source of water to our member agencies in an efficient and cost effective manner for the betterment of our community.”***

## Lake Cachuma Operations

The total flow from Lake Cachuma into the Tecolote Tunnel for February was 519.1 acre-feet, for an average daily flow of 18.53 acre-feet. Lake elevation was 699.23 feet at the beginning of February and 725.50 feet at the end of February. Storage change increased 49,902 acre-feet. CCWA wheeled 204.0 acre-feet of water to Cachuma Project facilities.

## South Coast Conduit Operations

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

- Staff has been on site monitoring several ongoing projects throughout the area, working closely with the construction and engineering contractors to ensure that:
  - Pipeline easements and the right-of-way remain accessible to operations staff for possible emergencies and ongoing facility maintenance.
  - All projects are following the COMB and USBR approved plans.
  - No damage occurs to the SCC during the construction process.
- Per the annual work plan and USBR standard operating procedures, staff performed the required annual exercising of all large diameter gate valves at the South Portal, Glenn Annie Turn Out, and Ortega Reservoir Control Station.
- Staff planted ten oak trees at the Davidson property in Toro canyon to replace the trees cleared from repair work activities.
- Staff cleaned up & removed mud and debris from the blow off structures at Montecito creek and Arroyo Paredon creek.
- Staff began weed abatement at Lauro Reservoir
- Staff installed a new wash water pump at the Lake Cachuma intake tower

## Pictures

*New wash water pump – Intake Tower*



*Valve Exercising*



***Lauro Reservoir weed abatement***



***Blow-off clean up***



# CACHUMA OPERATION AND MAINTENANCE BOARD

## BOARD MEMORANDUM

**DATE:** March 25, 2019  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE: MONTHLY FISHERIES DIVISION REPORT**

### HIGHLIGHTS:

- USBR continues to deliver approximately 2.9 cfs of Lake Cachuma water to Hilton Creek through the Hilton Creek Emergency Backup System (HCEBS) which is sustaining the *O. mykiss* population in the creek.
- The Passage Supplementation Program was initiated by USBR on 2/6/19 and was concluded on 3/21/19 using most of the 3,200 af of water in the Fish Passage Supplementation Account (pending final USBR determination).
- The Hilton Creek Watering System (HCWS) has recently sustained damages that have left it inoperable.

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:

**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.

**Migrant Trapping:** The 2019 Trapping Plan was provided to Reclamation in January who then submitted it to NMFS. This monitoring effort normally begins in January and continues through May depending on streamflow rates. This year the Hilton Creek and Salsipuedes Creek traps were installed on 1/23/19. The LSYR Mainstem Trap was installed in association with the Passage Supplementation Program on 2/7/19. Traps are removed during high flow events for safety of the staff, fishery and equipment, or if flows are too low to enable migration. The Santa Ynez River Lagoon opened on 1/18/19 and continues to be wide open for river-ocean connectivity. Results of the trapping program are presented in the Annual Monitoring Report.

**Redd Surveys:** Redd surveys are conducted every two weeks from mid-January through May. Surveys are conducted within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access is permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. Spawning activity has only been observed so far in Hilton Creek. The number of redds is reported in the Annual Monitoring Plan.

**Passage Supplementation:** USBR initiated the Passage Supplementation Program in February once the watershed met all established criteria. The implementation guidelines are presented in the 2000 BiOp and the 2004 AMC memo. Supplemented stormflow events were conducted on 2/6/19 (9 days), 2/15/19 (16 days), and 3/4/19 (~20 days). Each supplementation event used approximately 696 af, 938 af, and 1,398 af, respectively, for a total of 2,962 af leaving 238 af in the FPSA. If Hilton Creek releases are determined by USBR to be included in passage supplementation, then the FPSA will be over allocated by 128 af. Confirmation from Reclamation on the accounting has been requested. So far, no migrating *O. mykiss* have been observed at the LSYR Mainstem Trap during all events.

**Hilton Creek Stormflow Condition:** Winter storms continue to provide upper basin flow that has flushed down sediment from the Whitter Fire burn scar. Sediment load has been reducing with time although the majority of pool habitats continue to be filled with sediment.

**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 5:** This project has been successfully completed and a final report is provided in a separate Board memo.

**Quiota Creek Crossing 8:** Funding for this project has been applied for through three separate grant programs. The initial grant was submitted by the County to Caltrans that required a Cooperative Agreement between the County and COMB. The agreement was discussed at the 5/4/16 Fisheries Committee meeting with approval by the Board on 5/23/16 to move forward with the project and the Cooperative Agreement. The County Board of Supervisors approved the Cooperative Agreement on 7/12/16. With a fully executed Cooperative Agreement, the County submitted a CalTrans Federal Highway Administration (CT-FHWA) grant application to fund the project and CalTrans approved the funding for a full bridge replacement. SBCAG approved the project on 11/17/16. A Professional Service Agreement (PSA) for COMB with the County to manage the project was approved by the Board during the 3/27/17 Board meeting and was fully executed on 5/16/17. The Request for Authorization (RFA) has been sent by the County to Caltrans to begin grant expenditures with no response. Caltrans has informed the County that the Federal prioritization for rural bridge replacement projects (the County's pending grant funding) has been stalled due to being 100% oversubscribed with no additional federal allocation, hence the list of truly awarded projects will not be addressed until 2020, suggesting this funding opportunity is on hold.

The second funding opportunity is through a CDFW-FRGP grant application 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 is now preparing permit applications and our design team is working on final designs.



**Quiota Creek Crossing 9:** This project has been successfully completed and a final report is provided in a separate Board memo.

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

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

**Hilton Creek Watering System (HCWS) and Emergency Backup System (HCWBS) 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 worked on their system on 3/5/19, 3/14/19, and 3/16/19 when they found several issues with the HCWS that need repair and have left the system inoperable. The timeframe on those identified repairs has yet to be determined but it will not be available for use anytime soon. Currently USBR is delivering water to the creek through the HCEBS to the Upper Release Point by gravity flow.

**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. There have been no releases from the Fish Passage Supplementation Account (FPSA). Determination of critical drought and the associated accounting and possible usage of the AMA and FPSA during that period have not been finalized and approved (or if those accounts are now replenished from WY2017's runoff) by NMFS and USBR. Therefore they are not reflected in Table 1. Passage Supplementation was initiated in February and the amount used from the Fish Passage Supplementation Account reflected in the table is only through this month.

**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).

<b>Accounts*</b>	<b>Allocation</b>	<b>Amount Used**</b>	<b>Amount Remaining</b>
<b>Units:</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>
<b>Fish Passage Supplementation</b>	3,200	1,504	1,696
<b>Adaptive Management</b>	500	149	351
<b>Fish Rearing***</b>	5,484	5,484	0
<b>Project Yield</b>		17,463	
<b>Total:</b>	<b>9,184</b>	<b>24,600</b>	<b>2,047</b>
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 2/28/19.			
*** 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:** Staff continues to work with Quiota Creek and Salsipuedes Creek watershed landowners, interested parties within the Santa Ynez Valley and the County on a variety of fisheries related issues. Staff successfully completed a week long training course on electro-fishing that certified staff in the use of this equipment over a wide range of fisheries activities. The course was extremely informative and useful for compliance monitoring and restoration efforts. The COMB Fisheries Division manager gave a requested presentation to a 3<sup>rd</sup> Grade class at Rio del Sol Academy in Oxnard where students are involved with a program studying southern steelhead.

**Consultant Activity Summary:**

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

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT: Final Report on Fish Passage Improvement Project – Quiota Creek Crossing 5**

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**RECOMMENDATION:**

The Board of Directors receives and files the final report on the Fish Passage Improvement Project at Quiota Creek Crossing 5.

**SUMMARY:**

***Project Description:*** A 59-foot prefabricated bottomless arched culvert with three wing walls is planned to replace the current concrete low flow crossing at Quiota Creek Crossing 5. The project will remove a fish passage barrier and provide for unimpeded juvenile and adult fish passage for the endangered southern steelhead to NMFS designated critical habitat upstream. The project will also improve road safety and accessibility for the landowners and the public along S. Refugio Road.

***Project Location:*** The nearest town is Santa Ynez. Quiota Creek Crossing 5 is located off of Hwy 246 via Refugio Road 4.7 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 \$649,950, was issued a Notice to Proceed on 6/11/18.

***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, Bert Johnson, and Jemmi Irabon.

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

Status	Time
Notice to Proceed	6/11/2018
Construction start	7/23/2018
Refugio Road closure	7/23/2018
Contract Time (approximate to complete all work)*	4 months
Completion Date and Refugio Road reopened	12/21/2018
Number of construction work days (WD**) (expected)	62
Elapsed Time (WD to the Board mtg)	62
Remaining Time (WDs to complete all work)	0
Time Elapsed (WD) to Date (%)	100%
*Long construction period due to being tied to the QC X9 Project.	
**WD: Working Days.	

**Work Performed to Date:** PLC has completed all of the clearing and grubbing at the site, completely removed the low flow concrete crossing and damaged culvert, excavated both foundations, formed and poured both foundations, installed all rock slope protections around the bridge foundations, installed the bridge, completely back filled the bridge, completed all stream work, stained and graffiti proofed the bridge, installed the road berms and road base, paved the road, hydro-mulched and seeded, assisted with mitigation tree planting, and completed all site cleanup tasks to complete the project. The ConTech pre-fabricated arch-bridge system was delivered and installed on 8/28/18. COMB's resident engineer and County engineers have been overseeing the project during all phases of the construction. The pre-project condition (Figure 1) and current construction efforts (Figures 2-7) are presented as Exhibits. The bridge was successfully fabricated in the fall of 2017 at Bethlehem Construction in Wasco, CA and was stored at the pre-cast location at no cost to COMB until it was installed at the end of August.

**Work Projected for Next Month:** Final documentation for Santa Barbara County.

**FINANCIAL IMPACT:**

A summary of the estimated project costs and available funding for the project (Table 1) and the final expenditures (Table 2) are presented below. There has been one change order for the project that is reflected in Table 1 and Table 2. CDFW-FRGP grant reimbursement invoices have been submitted, the first has been paid (97%) and the second is pending (3%).

**Table 1:** Estimated project revenues and expenditures for the project.

	FY 2017-18	FY 2018-19	Totals
<b>Revenues</b>			
CDFW Grant Funding	\$ -	\$ 893,287	\$ 893,287
WATF	\$ 86,671	\$ 22,500	\$ 109,171
Budget Assessments	\$ 54,241	\$ 19,722	\$ 73,963
<b>Total:</b>	\$ 140,912	\$ 935,509	\$ 1,076,421
<b>Expenditures</b>			
PLC Construction	\$ -	\$ 649,950	\$ 649,950
Change Order No. 1	\$ -	\$ 64,823	\$ 64,823
Contech Bridge	\$ 82,784	\$ 165,564	\$ 248,348
Engineers/Permits	\$ 46,362	\$ 53,822	\$ 100,184
<b>Total:</b>	\$ 129,146	\$ 934,159	\$ 1,063,305
<b>Differential</b>			\$ 13,116



**LIST OF EXHIBITS:**

Construction photos:



**Figure 1:** Pre-project condition looking upstream.



**Figure 2:** Completed paving and guardrail and bridge rail installed.



**Figure 3:** Planting project mitigation trees



**Figure 4:** Hydro-mulching/seeding the project site.



**Figure 5:** Completed hydro-mulching and seeding.



**Figure 6:** The project with the first streamflow event of the year.





**Figure 7:** The project after winter stormflow events (3/1/19).

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT:** Update on Fish Passage Improvement Project – Quiota Creek Crossing 9

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**RECOMMENDATION:**

The Board of Directors receives and files the final report on the Fish Passage Improvement Project at Quiota Creek Crossing 9.

**SUMMARY:**

***Project Description:*** A 60-foot prefabricated bottomless arched culvert with three wing walls is planned to replace the current concrete low flow crossing at Quiota Creek Crossing 9. The project will remove a fish passage barrier and provide for unimpeded juvenile and adult fish passage for the endangered southern steelhead to NMFS designated critical habitat upstream. The project will also improve road safety and accessibility for the landowners and the public along S. Refugio Road.

***Project Location:*** The nearest town is Santa Ynez. Quiota Creek Crossing 9 is located off of Hwy 246 via Refugio Road 5.2 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 \$709,600, was issued a Notice to Proceed on 9/4/18.

***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, Bert Johnson, and Jemmi Irabon.

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

Status	Time
Notice to Proceed	9/4/2018
Construction start	9/5/2018
Refugio Road closure	7/23/2018
Contract Time (approximate to complete all work)*	3 months
Completion Date and Refugio Road reopened	12/21/2018
Number of construction work days (WD**) (expected)	69
Elapsed Time (WD to the Board mtg)	69
Remaining Time (WDs to complete all work)	0
Time Elapsed (WD) to Date (%)	100%
*Long construction period due to being tied to the QC X5 Project.	
**WD: Working Days.	

**Work Performed to Date:** PLC has completed all of the clearing and grubbing at the site, completely removed the low flow concrete crossing and damaged culvert, excavated both foundations, formed and poured both foundations, successfully installed the pre-fabricated bridge on 10/3/18, installed the two rock weirs downstream of the bridge and all the rock slope protection around the bridge foundations, completely backfilled the bridge, placed all of the road embankments and road base, paved the road, stained and anti-graffiti coated the bridge, installed the guard and bridge rails, paved the road, hydro-mulched/seeded, assisted in planting project mitigation trees, and conducted all site cleanup tasks to finish the project. ConTech completed fabrication of the arch-bridge system at Bethlehem Construction in Wasco, CA on 9/14/18 and assisted with the successful bridge installation on 10/3/18. COMB's resident engineer and County engineers have been overseeing the project during all phases of the construction. The pre-project condition (Figure 1) and current construction efforts (Figures 2-7) are presented as Exhibits.

**Work Projected for Next Month:** Final documentation for Santa Barbara County.

**FINANCIAL IMPACT:**

A summary of the estimated project costs and available funding for the project (Table 1) and the current expenditures (Table 2) are presented below. There have been two change orders for this project, both reviewed and approved by the Board that are reflected in Table 1 and will be in Table 2 upon receiving the associated invoices. CDFW-FRGP grant reimbursement invoices have been submitted, the first has been paid (99%) and the second is pending (1%).

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

	FY 2017-18	FY 2018-19	Totals
<b>Revenues</b>			
CDFW Grant Funding	\$ -	\$ 993,121	\$ 993,121
WATF	\$ 42,425	\$ 152,500	\$ 194,925
Budget Assessments	\$ 30,000	\$ 17,438	\$ 47,438
<b>Total:</b>	\$ 72,425	\$ 1,163,059	\$ 1,235,484
<b>Contracted Construction Project Expenditures</b>			
PLC Construction	\$ -	\$ 709,600	\$ 709,600
Change Order No. 1	\$ -	\$ 61,241	\$ 61,241
Change Order No. 2	\$ -	\$ 43,826	\$ 43,826
Contech Bridge	\$ 95,962	\$ 191,927	\$ 287,889
Engineers/Permits	\$ 15,418	\$ 98,044	\$ 113,462
	\$ 111,380	\$ 1,104,638	\$ 1,216,018
<b>Differential</b>			\$ 19,466

**Table 2:** Expenditures to date for the project.

<b>Estimated Project Costs (all):</b>		\$1,203,059
<b>Available Funding (all):</b>		\$1,235,484
<b>Total Expenditure to Date:</b>	<b>FY18</b>	<b>FY19</b>
ConTech Bridge (delivered + tax) - Invoice 1:	\$ 95,962	
ConTech Bridge (delivered + tax) - Invoice 2:		\$ 191,927
Geotechnical Services (Fugro) - Invoice 1:		\$ 1,618
Geotechnical Services (Fugro) - Invoice 2:		\$ 1,929
Resident Engineer - AECOM (fabrication) - Invoice 1:		\$ 6,132
Resident Engineer - AECOM (fabrication) - Invoice 2:		\$ 2,376
Materials Testing - Krazan (fabrication) - Invoice 1:		\$ 3,985
Materials Testing - Krazan (fabrication) - Invoice 2:		\$ 1,405
PLC - Invoice 1:		\$ 29,805
PLC - Invoice 2:		\$ 65,085
PLC - Invoice 3:		\$ 273,710
PLC - Invoice 4:		\$ 402,241
PLC - Invoice 5:		\$ 43,826
Resident Engineer - Gino Filippin (site construction) - Invoice 1:		\$ 366
Resident Engineer - Gino Filippin (site construction) - Invoice 2:		\$ 5,639
Resident Engineer - Gino Filippin (site construction) - Invoice 3:		\$ 2,196
Resident Engineer - Gino Filippin (site construction) - Invoice 4:		\$ 3,660
Resident Engineer - Gino Filippin (site construction) - Invoice 5:		\$ 2,288
Arborist Services (Ken Knight) - Invoice 1:		\$ 500
Onsite Material Testing (Fugro) - Invoice 1:		\$ 3,283
Onsite Material Testing (Fugro) - Invoice 2:		\$ 4,664
Onsite Material Testing (Fugro) - Invoice 3:		\$ 3,761
Project Engineering Design - HDR - Invoice 1:		\$ 9,712
Project Engineering Design and Oversight - HDR - Invoice 2:		\$ 4,570
Project Engineering Design and Oversight - HDR - Invoice 3:		\$ 5,476
Project Engineering Design and Oversight - HDR - Invoice 4:		\$ 8,491
Project Engineering Design and Oversight - HDR - Invoice 5:		\$ 657
Project Engineering for As-Built Drawings - HDR - Invoice 6:		\$ 1,071
Project Engineering for As-Built Drawings - HDR - Invoice 7:		\$ 2,445
Mitigation Trees (Mazanita Nursery) - Invoice 1:		\$ 684
Tri-Co Reproduction - all invoices:	\$ 272	\$ 398
SWRCB SWPPP Fee:		\$ 221
SB County Encroachment Permit Fee:	\$ 10,000	\$ 20,303
SB County Encroachment Permit Addendum Fee:		\$ 68
CDFW 1600 Permit Fee:	\$ 5,146	
<b>Total Paid:</b>	<b>\$ 111,380</b>	<b>\$ 1,104,490</b>
<b>Summary:</b>		
<b>% Project Expenditures through 3/25/2019:</b>		101.1%
<b>Estimated Construction Costs minus Total Expenditures:</b>		-\$12,811
<b>Available Funding minus Total Expenditures:</b>		\$19,614

**LEGAL CONCURRENCE:**

COMB legal counsel has reviewed and approved 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 over the low flow crossing.



**Figure 2:** Completed paving.



**Figure 3:** Planting of project mitigation trees.



**Figure 4:** Hydro-mulching/seeding of the project site.



**Figure 5:** Completed bridge rails and guardrails.



**Figure 6:** Completed project with the first streamflow event of the year.





**Figure 7:** Project after winter stormflow events.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	March 25, 2019
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

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

**SUMMARY:**

***Maintenance***

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since July, 2018 to the present (7/1/18 – 3/25/19, 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.

**Table 1:** Cachuma Oak Tree Program completed tasks since July, 2018.

	July 2018	Aug 2018	Sept 2018	Oct 2018	Nov 2018	Dec 2018 <sup>2</sup>	Jan 2019 <sup>2</sup>	Feb 2019 <sup>2</sup>	Mar 2019 <sup>3</sup>
<b>Year 10 Oaks (2018-2019)</b>						Planted	Planted		
<b>Year 9 Oaks (2016-2017)</b>	Irrigated Weeded		Irrigated Weeded	Irrigated Weeded					
<b>Year 8 Oaks (2015-2016)</b>	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded				
			Deer Cages		Mulched				
<b>Year 7 Oaks (2014-2015)</b>	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded				
		Deer Cages			Mulched				
<b>Year 6 Oaks (2010-2011)</b>	Irrigated <sup>1</sup>								
<b>Year 5 Oaks (2009-2010)</b>	Irrigated <sup>1</sup>								
<b>Year 4 Oaks (2008-2009)</b>	Irrigated <sup>1</sup>			Deer Cages	Deer Cages				
<b>Year 3 Oaks (2007-2008)</b>	Irrigated <sup>1</sup>			Deer Cages	Deer Cages				
<b>Year 2 Oaks (2006-2007)</b>	Irrigated <sup>1</sup>								
<b>Year 1 Oaks (2005-2006)</b>	Irrigated <sup>1</sup>								
<sup>1</sup> Stressed trees irrigated.									
<sup>2</sup> Oak tree inventory (Year 1-9).									
<sup>3</sup> Oak tree inventory (Year 10).									

Staff initiated the annual oak tree inventory in December and has completed all of the older age classes of oak trees (Years 1-9) as well as the new trees (Year 10) (Exhibit 1). The annual report will be provided to the Committee in July after the end of the Fiscal Year

Recent winter rains have allowed Fisheries Division personnel to focus on inventory work only, rather than irrigating the oak trees. Mulching and weeding is expected to occur for the remainder of the winter, provided rainfall continues and irrigation is not needed.

**RECOMMENDATION:**

For Board information only.

**LIST OF EXHIBITS:**

**Current Oak Tree Program photos**



**Exhibit 1:** Lake Cachuma Oak Tree Restoration Program trees showing spring growth at (a) the Long Pool Terrace and (b) the County Park.

**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**METERED USE REPORT FOR FEBRUARY 2019**

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
<b>CARPINTERIA WATER DISTRICT</b>			<b>GOLETA WATER DISTRICT</b>		
Boundary Meter - East		120.44	18+62	G. WEST	3.84
Boundary Meter - West		(0.02)	78+00	Corona Del Mar FILTER Plant	260.86
			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)	(260.86)
			<b>TOTAL</b>		<b>3.84</b>
			<b>MONTECITO WATER DISTRICT</b>		
			260+79	BARKER PASS	18.46
			386+65	MWD YARD	17.84
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	1.84
			510+95	MWD PUMP (SWD)	0.00
			510+95	ORTEGA CONTROL	6.89
			526+43	ASEGRA RD	0.36
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	0.00
				SWP CREDIT (Warren Act Contract)	(45.39)
			<b>TOTAL</b>		<b>0.00</b>
			<b>CITY OF SANTA BARBARA</b>		
			CATER	INFLOW	525.00
			Gibraltar	PENSTOCK	(153.50)
			CATER	SO. FLOW	(202.15)
			Sheffield	SHEF.LIFT	33.16
				SWP (Warren Act)	(184.95)
				La Cumbre Mutual SWP (Warren Act)	(17.56)
			<b>TOTAL</b>		<b>(0.00)</b>
			<b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b>		
			COUNTY PARK, ETC		1.53
			<b>TOTAL</b>		<b>1.53</b>
			<b>BREAKDOWN OF DELIVERIES BY TYPE:</b>		
			STATE WATER DELIVERED TO LAKE		178.00
			STATE WATER TO SOUTH COAST (including from storage)		(629.18)
			<b>METERED DIVERSION</b>		<b>5.37</b>
<b>SWP CREDIT (Warren Act Contract)</b> (120.42) <b>TOTAL</b> <b>0.00</b>					
Note: Meter reads were taken on: 2/28/2019					

**WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF FEBRUARY 2019 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

<b>CACHUMA PROJECT</b>		
<b>WATER PRODUCTION:</b>	<b>MONTH</b>	<b>WYTD</b>
Cachuma Lake (Tec. Diversion)	519.1	4,549.8
Tecolote Tunnel Infiltration	91.8	357.0
Cachuma Lake (County Park)	1.5	8.0
<b>Subtotal - Water Production</b>	<b>612.5</b>	<b>4,914.8</b>
<b>WATER DELIVERIES:</b>		
State Water Diversion	629.2	3,860.7
Cachuma Diversion	5.4	1,100.8
Storage gain/(loss) <sup>(2)</sup>	(2.2)	(28.9)
<b>Subtotal - Water Deliveries</b>	<b>632.4</b>	<b>4,932.6</b>
<b>Total Water Production</b>	<b>612.5</b>	<b>4,914.8</b>
<b>Total Water Deliveries</b>	<b>632.4</b>	<b>4,932.6</b>
<b>Difference = Apparent Water Loss <sup>(3)</sup></b>	<b>(19.9)</b>	<b>(17.8)</b>
<b>% Apparent Water Loss</b>	<b>-3.25%</b>	<b>-0.36%</b>

**SCC APPARENT WATER LOSS ALLOCATION (AWL) <sup>(4)</sup>**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>TOTAL</b>
<b>CURRENT MONTH CHARGE / (ADJUSTMENT) <sup>(4)</sup></b>					
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	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
<b>Total Current Month</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)</b>					
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	<b>(0.3)</b>	<b>(2.1)</b>	<b>0.0</b>	<b>0.0</b>	<b>(2.3)</b>
(+) State Water Project	0.7	3.3	1.3	(0.8)	4.5
<b>Total AWL Charged (WYTD) <sup>(4)</sup></b>	<b>0.4</b>	<b>1.2</b>	<b>1.3</b>	<b>(0.8)</b>	<b>2.1</b>
<b>Total AWL Not Charged (WYTD) <sup>(4)</sup></b>					<b>(19.9)</b>
<b>Total AWL Incurred (WYTD)</b>					<b>(17.8)</b>

**CACHUMA PROJECT WATER CHARGE**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRID #1</b>	<b>TOTAL</b>
<b>CURRENT MONTH</b>						
Water Usage						
M&I	0.0	0.0	0.0	0.0	1.5	1.5
Agricultural	3.8	0.0	0.0	0.0	N/A	3.8
<b>Subtotal Project Water Use</b>	<b>3.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.5</b>	<b>5.4</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(5)</sup>	8.2	19.0	5.1	3.6	0.1	36.1
<b>Total Project Water Charge</b>	<b>12.1</b>	<b>19.0</b>	<b>5.1</b>	<b>3.6</b>	<b>1.6</b>	<b>41.4</b>
<b>WATER YEAR-TO-DATE</b>						
Water Usage						
M&I	570.4	330.7	0.0	0.0	8.0	909.1
Agricultural	191.8	0.0	0.0	0.0	N/A	191.8
<b>Subtotal Project Water Use</b>	<b>762.2</b>	<b>330.7</b>	<b>0.0</b>	<b>0.0</b>	<b>8.0</b>	<b>1,100.8</b>
(+) Apparent Water Loss	(0.3)	(2.1)	0.0	0.0	N/A	(2.3)
(+) Evaporative Loss <sup>(5)</sup>	108.0	232.2	61.2	42.8	1.2	445.5
<b>Total Project Water Charge (*)</b>	<b>870.0</b>	<b>560.8</b>	<b>61.2</b>	<b>42.8</b>	<b>9.2</b>	<b>1,543.9</b>

(\*) 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 FEBRUARY 2019 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

**CACHUMA PROJECT WATER BALANCE**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRID #1</b>	<b>TOTAL</b>
<b>Project Water Carryover - 10/1/2018</b>	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
<b>(-) Project Water Charge (WYTD)</b>	<b>870.0</b>	<b>560.8</b>	<b>61.2</b>	<b>42.8</b>	<b>9.2</b>	<b>1,543.9</b>
<b>Balance Carryover Water</b>	<b>2,901.3</b>	<b>6,703.4</b>	<b>1,802.9</b>	<b>1,262.4</b>	<b>31.2</b>	<b>12,701.3</b>
<b>Current Year Allocation <sup>(6)</sup></b>	<b>1,864.0</b>	<b>1,655.5</b>	<b>530.0</b>	<b>563.0</b>	<b>530.0</b>	<b>5,142.5</b>
<b>(-) Balance of Project Water Charge (WYTD)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Net Allocation Available Before Adjustments</b>	<b>1,864.0</b>	<b>1,655.5</b>	<b>530.0</b>	<b>563.0</b>	<b>530.0</b>	<b>5,142.5</b>
<b><u>Adjustments to Net Allocation (WYTD)</u></b>						
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 <sup>(7)</sup>	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment	0.0	0.0	0.0	0.0	0.0	0.0
<b>Balance Current Year Allocation</b>	<b>1,864.0</b>	<b>1,655.5</b>	<b>530.0</b>	<b>563.0</b>	<b>530.0</b>	<b>5,142.5</b>
<b>Total Cachuma Project Water Available</b>	<b>4,765.3</b>	<b>8,358.9</b>	<b>2,332.9</b>	<b>1,825.4</b>	<b>561.2</b>	<b>17,843.8</b>

**Footnotes**

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only.
- (3) Negative Apparent Water Loss in February is due, in part, to the added storage from rainfall and inflow to Lauro Reservoir.
- (4) 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
- (5) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (6) Per USBR, 20% initial allocation to Member Agencies, effective 10/1/18. Lake conditions to be reviewed in Spring 2019 for a potential additional allocation
- (7) The SWP Exchange amount for February 2019 was zero.
- (8) Memo only - State Water Deliveries to Lake Cachuma for February 2019 (Total =178 AF): MWD 56 AF; CVWD 38 AF  
GWD 84 AF (Morehart 0 AF); City of S.B. 0 AF; and LaCumbre 0 AF: (Raytheon 0 AF)

**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**WATER STORAGE REPORT - REVISED**

MONTH: **FEBRUARY 2019**

**GLEN ANNIE RESERVOIR <sup>(1)</sup>**

Capacity at 385' elevation:	518	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	<b>335.00</b>	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	<b>542.30</b>	Feet
Water in Storage	380.06	AF

**ORTEGA RESERVOIR**

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	<b>446.80</b>	Feet
Water in Storage	18.90	AF

**CARPINTERIA RESERVOIR**

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	<b>376.40</b>	Feet
Water in Storage	26.59	AF

**TOTAL STORAGE IN RESERVOIRS <sup>(1)</sup>**

Change in Storage	425.55	AF
	(1.08)	AF

**CACHUMA RESERVOIR**

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

Stage of Reservoir Elevation	<b>725.50</b>	Feet
Water in Storage	<b>120,552</b>	AF
Surface Area	<b>2,219</b>	
Evaporation	<b>224.8</b>	AF
Inflow	<b>50,958.3</b>	AF
Downstream Release WR8918	<b>0.0</b>	AF
Fish Release (Hilton Creek)	<b>236.1</b>	AF
Outlet	<b>1511.2</b>	AF
<b>Spill/Seismic Release</b>	<b>0</b>	AF
State Water Project Water	<b>204</b>	AF
Change in Storage	<b>49,902</b>	AF
Tecolote Diversion	<b>519.1</b>	AF

<b>Rainfall:</b>	<b>Month:</b>	8.26	<b>Season:</b>	19.04	<b>Percent of Normal:</b>	132%
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(1) The Glen Annie Reservoir is currently offline and is excluded from the Total Storage in Reservoirs amount.



COMB STATE WATER PROJECT ACCOUNTING - SOUTH COAST ONLY (Does not include SYRWCD, ID#1 or exchange water)

Month	Total Delivered to Lake per CCWA	CVWD						MWD						CITY OF SB						GWD						LCMWC				RSYS			MLC						
		Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake					
<b>2018</b>																																							
Bal. Frwd					(0)	0	167	270	219	18	4	0	659	301	346	16	11	0	1595	452	387	2	(0)	0	62	49	30	0	80	0	0	12	2	2	0	0			
January	1275	201	31	3	0	311	253	257	35	5	0	614	253	367	29	13	0	1440	380	146	3	1	0	293	85	52	1	113	0	0	12	2	2	0	0				
February	1142	169	20	3	1	372	255	98	14	4	0	753	254	291	19	10	0	1373	381	9	1	2	0	663	10	15	1	107	4	4	12	2	2	0	0				
March	976	70	6	1	2	320	287	225	5	9	0	801	287	496	8	16	0	1140	636	196	0	8	0	1094	0	29	1	77	5	5	12	3	3	0	0				
April	1218	0	47	2	4	338	309	290	23	13	0	784	285	491	23	18	0	892	463	400	2	18	0	1137	0	22	1	54	5	5	12	3	3	0	0				
May	1255	190	154	12	5	327	263	310	10	15	0	713	264	459	10	17	0	671	395	791	2	21	0	719	50	51	1	51	5	5	12	5	5	0	0				
June	1157	175	174	6	6	256	256	425	-11	16	0	538	256	682	-9	15	0	239	384	950	-2	17	0	139	86	91	1	45	3	3	12	5	5	0	0				
July <sup>(1)</sup>	1160	170	239	-6	8	140	283	431	-8	12	0	387	282	477	-5	5	0	44	424	560	-1	3	0	1	93	72	1	65	0	0	12	5	5	0	0				
August <sup>(1)</sup>	1230	143	258	-5	6	132	274	364	4	6	0	287	274	314	3	1	0	0	409	409	0	0	0	0	74	58	1	80	0	0	12	7	7	0	0				
September	1220	182	186	2	2	154	283	314	2	4	0	250	282	280	1	0	0	1	424	424	0	0	0	0	94	81	1	92	0	0	12	3	3	0	0				
October	1275	189	165	1	2	82	123	300	-5	2	0	76	123	126	-1	0	0	0	185	185	0	(0)	0	0	41	16	1	117	2	2	12	2	2	0	0				
November	559	83	156	-2	1	195	342	130	5	0	0	283	342	192	4	(0)	0	145	428	210	1	0	0	217	45	41	1	120	6	6	12	7	7	0	0				
December	1284	114	0	1	0																																		
<b>Total</b>	<b>13751</b>	<b>1686</b>	<b>1435</b>	<b>18</b>	<b>38</b>	<b>0</b>	<b>195</b>	<b>3198</b>	<b>3362</b>	<b>91</b>	<b>91</b>	<b>0</b>	<b>283</b>	<b>3203</b>	<b>4520</b>	<b>98</b>	<b>107</b>	<b>0</b>	<b>145</b>	<b>4961</b>	<b>4667</b>	<b>8</b>	<b>69</b>	<b>0</b>	<b>217</b>	<b>627</b>	<b>558</b>	<b>11</b>	<b>120</b>	<b>30</b>	<b>30</b>	<b>12</b>	<b>46</b>	<b>46</b>	<b>0</b>				

(\*) Adj / Notes:

July and August 2018 - Includes a credit adjustment to Apparent Water Loss (AWL). AWL is attributed to system loss, meter discrepancies and change in water storage. COMB staff monitors trends for potential corrective action or accounting adjustment.

Month	Total Delivered to Lake per CCWA	CVWD						MWD						CITY OF SB						GWD						LCMWC				RSYS			MLC						
		Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake								
<b>2019</b>																																							
Bal. Frwd						195						283					145					217					120												
January	1282	197	68	0	1	0	323	296	108	0	1	0	470	296	237	-1	1	0	204	444	131	0	1	0	530	47	46	0	120	0	0	12	2	2	0	0			
February	178	38	120	0	1	0	240	56	45	0	1	0	480	0	185	0	1	0	19	84	261	0	1	0	351	0	18	0	102	0	0	12	0	0	0	0			
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
July <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
August <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
<b>Total</b>	<b>1460</b>	<b>235</b>	<b>188</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>240</b>	<b>352</b>	<b>154</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>480</b>	<b>296</b>	<b>422</b>	<b>-1</b>	<b>1</b>	<b>0</b>	<b>19</b>	<b>528</b>	<b>392</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>351</b>	<b>47</b>	<b>64</b>	<b>1</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>2</b>	<b>2</b>	<b>0</b>				

(\*) Adj / Notes:

Total SC Storage at month end (AF):	1089
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Total Storage at month end (AF):	1203
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**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. 02/28/19

Month	Carryover Balance Prior Yr		Approved Allocation Curr Yr		CARRYOVER WATER			CURRENT YEAR ALLOCATION					
	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED						
	Acre-feet						Allocation		Allocation			Total	
	M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total		
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			-	-	-	-	-	-	-	-	-	-	-
Apr			-	-	-	-	-	-	-	-	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3,771.3</b>	<b>1,864.0</b>	<b>570.2</b>	<b>191.7</b>	<b>761.9</b>	<b>108.0</b>	<b>761.9</b>	<b>870.0</b>	<b>627.9</b>	<b>242.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

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	-	-	-	-

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	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

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	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,765.3**

**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. 02/28/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	7,264.2	1,655.5
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>7,264.2</b>	<b>1,655.5</b>

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED			
Acre-feet			Allocation				Allocation			
M & I	Agr	Total	Evap	Used	Total	M & I	-----	M & I	-----	Total
93.3	0.0	93.3	89.8	93.3	183.1	183.1	0.0	0.0	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	0.0	0.0	31.2	0.0	31.2	31.2	0.0	0.0	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	0.0	0.0	19.0	0.0	19.0	19.0	0.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>328.6</b>	<b>-</b>	<b>328.6</b>	<b>232.2</b>	<b>328.6</b>	<b>560.8</b>	<b>560.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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	-	-	-	-

Month  
Oct  
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Aug  
Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
Month	Allocation		Allocation		Total
	M & I	-----	M & I	-----	
Begin Bal	Total	7,264.2	7,264.2	1,655.5	1,655.5
Oct					-
Nov					-
Dec					-
Jan					-
Feb					-
Mar					-
Apr					-
May					-
Jun					-
Jul					-
Aug					-
Sep					-

Month  
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Jun  
Jul  
Aug  
Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
Month	Allocation		Allocation		Total
	M & I	-----	M & I	-----	
Oct	Total	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					-
Apr					-
May					-
Jun					-
Jul					-
Aug					-
Sep					-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **8,358.9**

# SUMMARY OF WATER USED

CACHUMA PROJECT - CONTRACT #175R-1802

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

Contract Entity: **Carpinteria Valley Water District**  
Last updated by C.O.M.B. 02/28/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	CARRYOVER WATER						CURRENT YEAR ALLOCATION				
			TOTAL WATER CHARGED			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	1,305.2	563.0	0.0	0.0	0.0	16.2	0.0	16.2	7.4	8.8	0.0	0.0	0.0
Nov			0.0	0.0	0.0	12.0	0.0	12.0	5.5	6.5	0.0	0.0	0.0
Dec			0.0	0.0	0.0	5.9	0.0	5.9	2.7	3.2	0.0	0.0	0.0
Jan			0.0	0.0	0.0	5.1	0.0	5.1	2.3	2.8	0.0	0.0	0.0
Feb			0.0	0.0	0.0	3.6	0.0	3.6	1.6	1.9	0.0	0.0	0.0
Mar			-	-	-	-	-	-	-	-	-	-	-
Apr			-	-	-	-	-	-	-	-	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,305.2</b>	<b>563.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>42.8</b>	<b>-</b>	<b>42.8</b>	<b>19.6</b>	<b>23.2</b>	<b>-</b>	<b>-</b>	<b>-</b>

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	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Begin Bal	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
	1,305.2	597.3	707.9	258.5	304.5	563.0	
Oct						-	
Nov						-	
Dec						-	
Jan						-	
Feb						-	
Mar						-	
Apr						-	
May						-	
Jun						-	
Jul						-	
Aug						-	
Sep						-	

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	1,289.0	589.9	699.1	258.5	304.5	563.0
Oct	1,276.9	584.4	692.6	258.5	304.5	563.0
Nov	1,271.0	581.7	689.4	258.5	304.5	563.0
Dec	1,265.9	579.3	686.6	258.5	304.5	563.0
Jan	1,262.4	577.7	684.7	258.5	304.5	563.0
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 1,825.4

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

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

Contract Entity: **Montecito Water District**  
 Last updated by C.O.M.B. 02/28/19

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	1,864.1	530.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>1,864.1</b>	<b>530.0</b>

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
0.0	0.0	0.0	23.2	0.0	23.20	18.3	4.9	0.0	0.0	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	0.0	0.0	8.4	0.0	8.4	6.6	1.8	0.0	0.0	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	0.0	0.0	5.1	0.0	5.1	4.0	1.1	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	61.2	-	61.2	48.3	12.8	-	-	-

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Month  
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SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	1,864.1	1,473.0	391.1	493.0	37.0	530.0
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

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BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
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	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,332.9**

**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. 02/28/19**

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	40.4	530.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>40.4</b>	<b>530.0</b>

	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED			Total	
	M & I	Agr	Total	Evap	Used	Total	Allocation		Allocation		
							M & I	Agr	M & I		Agr
Oct	2.3	0.0	2.3	0.5	2.3	2.8	2.8	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	
Dec	1.3	0.0	1.3	0.2	1.3	1.5	1.5	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	
Feb	1.5	-	2	0.1	2	2	2	-	-	-	
Mar	-	-	-	-	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	-	-	-	-	
Jul	-	-	-	-	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	-	-	-	-	
<b>Total</b>	<b>8.0</b>	<b>0.0</b>	<b>8.0</b>	<b>1.2</b>	<b>8.0</b>	<b>9.2</b>	<b>9.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
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Month  
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	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			Total
	Total	Allocation		Allocation			
		M & I	Agr	M & I	Agr		
Begin Bal	40.4	40.4	-	175.0	355.0	530.0	
Oct	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	
Jan	-	-	-	-	-	-	
Feb	-	-	-	-	-	-	
Mar	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	
May	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	
Jul	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	

\*NOTE:

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	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			Total
	County Parks Usage (AF)	Allocation		Allocation			
		M & I	Agr	M & I	Agr		
Oct	2.3	37.6	-	175.0	355.0	530.0	
Nov	2.0	35.3	-	175.0	355.0	530.0	
Dec	1.3	33.8	-	175.0	355.0	530.0	
Jan	0.9	32.8	-	175.0	355.0	530.0	
Feb	1.5	31.2	-	175.0	355.0	530.0	
Mar	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	
May	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	
Jul	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **561.2**

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #75R-1802**

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

Contract Entity: **Santa Barbara Co. Water Agency**  
 Last updated by C.O.M.B. 02/28/19

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		
			Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
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	-	-	-
Mar			-	-	-	-	-	-	-	-	-	-	-	-
Apr			-	-	-	-	-	-	-	-	-	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>14,245.2</b>	<b>5,142.5</b>	<b>0.1</b>	<b>906.7</b>	<b>191.7</b>	<b>1,098.5</b>	<b>445.5</b>	<b>1,098.5</b>	<b>1,543.9</b>	<b>1,265.9</b>	<b>278.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

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

Month	SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
	Begin Bal	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct		14,245.2	11,893.3	2,351.9	3,836.0	1,306.5	5,142.5
Nov		-	-	-	-	-	-
Dec		-	-	-	-	-	-
Jan		-	-	-	-	-	-
Feb		-	-	-	-	-	-
Mar		-	-	-	-	-	-
Apr		-	-	-	-	-	-
May		-	-	-	-	-	-
Jun		-	-	-	-	-	-
Jul		-	-	-	-	-	-
Aug		-	-	-	-	-	-
Sep		-	-	-	-	-	-

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	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 17,843.8**

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# CACHUMA DAILY OPERATIONS

Month & Year: **March 2019**  
 Time of Observations: **0830** Evaporation Pan Factor: **76%**

Day	Beginning Storage: 120,552			Surface Area	Rainfall		Evaporation		CCWA Inflow	Releases					Computed Inflow	
	Elevation	Storage	Change		inches	acre-feet	inches	acre-feet		Park Diversion	South Coast	Hilton Creek	WR 89-18	Outlet		Spillway
	ft	acre-feet	acre-feet	acres	inches	acre-feet	inches	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet
1	725.79	121,197	645	2,226	-		0.210	29.6	-		18.8	13.6		41.8		748.8
2	726.16	122,025	828	2,236	0.86	160.2	0.060	8.5	-		19.7	13.6		14.9		724.5
3	727.03	123,980	1,955	2,258	0.05	9.4	0.090	12.9	-		19.7	13.9		2.9		1,994.9
4	727.55	125,156	1,176	2,270	-		0.010	1.4	-		19.3	13.5		234.2		1,444.5
5	727.93	126,022	866	2,279			0.090	13.0	-		-	7.1		213.1		1,099.2
6	728.66	127,691	1,669	2,296	1.45	277.5	0.060	8.7	-		-	4.3		174.4		1,578.9
7	730.62	132,258	4,567	2,359	0.05	9.8	0.040	6.0	-		-	5.2		91.2		4,659.5
8	731.81	135,090	2,832	2,392	0.06	12.0	0.030	4.5	-		6.4	5.4		71.0		2,907.4
9	732.64	137,083	1,993	2,414	-		0.120	18.3	-		9.7	5.5		61.0		2,087.5
10	733.27	138,615	1,532	2,434	-		0.090	13.9	-		9.4	5.4		55.1		1,615.8
11	733.82	139,959	1,344	2,451	-		0.120	18.6	-		9.0	5.6		55.9		1,433.1
12	734.29	141,116	1,157	2,466	-		0.120	18.7	-		9.4	5.7		57.8		1,248.6
13	734.66	142,028	912	2,477	-		0.190	29.8	-		9.4	5.7		56.8		1,013.7
14	735.04	142,977	949	2,490	-		0.170	26.8	-		11.8	5.8		54.9		1,048.3
15	735.36	143,775	798	2,501	-		0.190	30.1	-		11.6	5.8		53.8		899.3
16	735.64	144,475	700	2,511	-		0.120	19.1	-		11.7	5.8		49.8		786.4
17	735.91	145,158	683	2,520	-		0.200	31.9	-		12.5	5.8		45.7		778.9
18	736.15	145,765	607	2,528	-		0.180	28.8	-		11.9	5.8		34.8		688.3
19	736.37	146,321	556	2,536			0.200	32.1			11.2	5.8		34.7		639.8
20	736.60	146,903	582	2,544	0.10	21.2	0.080	12.9			11.9	5.9		34.6		626.1
21	736.88	147,621	718	2,554	0.45	95.8	0.060	9.7			11.9	5.8		8.8		658.4
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<b>TOTALS</b>	27,069			3.02	585.9	2.430	375.5	-	-	-	225.2	151.0	-	1,447.2	-	28,682.0
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Park Usage  Rain % Yr. Total

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



**Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: February 2019**

<b>Cachuma Lake Recreation Area Launch Data -- February 2019</b>		
<b>Inspection Data</b>		
Total Vessels entering Park	142	
Total Vessels launched	122	
Total Vessels Quarantined	20	
Returning with Boat Launch Tag	85	70%
New: Removed from Quarantine		
Kayak/Canoe: Inspected, launched	37	30%
4-stroke Engines		
2-strokes, w/CARB star ratings		
2-strokes, NO emissions ratings		
<b>Quarantine Data</b>		
Total Vessels Quarantined	20	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	20	
<b>Quarantine Cause</b>		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	6	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	20	
<b>Demographic Data</b>		
Quarantined from infected county	6	
Quarantined from SB County	11	
Quarantined from uninfected co	3	

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: 2019.2.28; 12:00 2:00 PDT  
 Method: 10 PVC/Cement Sampling Stations; 52 linear feet of line  
 Surveyors: SBCO Parks  
 Lake elevation: Max feet: 753.00, current 725.5; Max acre-feet: 193,305, current: 120,552;  
 Current capacity: 62.40%