

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

Monday, May 21, 2018

2:00 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 April 23, 2018 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:
 - Fisheries Committee Meeting – May 17, 2018
- 5. CACHUMA PROJECT TRUST FUND / RENEWAL FUND ("FUNDS COMMITTEE") MEETING AND SANTA BARBARA COUNTY'S PUBLIC MEETING ON CACHUMA PROJECT BETTERMENT FUND USE OF FUNDS**
Action: Recommend approval by motion and roll call vote of the Board
 - a. Approval of Program Expenditure of Trust Fund for FY 2018-19
 - b. Approval of Program Expenditure of Santa Barbara County Water Agency's Betterment Fund for FY 2018-19
- 6. RESOLUTION NO. 662 – FISH PASSAGE IMPROVEMENT PROJECTS AT QUIOTA CREEK CROSSINGS 5 AND 9**
For discussion and possible action by motion and roll call vote of the Board
 - a. Approving Issuance of Notice of Award
 - b. Authorizing Execution of Construction Contract with the Lowest Responsive, Responsible Bidder

7. GENERAL MANAGER REPORT

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

- Administration
- Personnel
- Operations Division Activities
- Fisheries Division Activities

8. WATER RESOURCES ENGINEER REPORT

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

- Forecasted Lake Elevations
- Infrastructure Improvement Planning

9. OPERATIONS DIVISION REPORT

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

- Lake Cachuma Operations
- Operation and Maintenance Activities

10. FISHERIES DIVISION REPORT

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

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

11. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

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

- Maintenance and Monitoring

12. MONTHLY CACHUMA PROJECT REPORTS

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

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

13. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

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

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

15. [CLOSED SESSION]: CONFERENCE WITH LABOR NEGOTIATORS

- a. [Government Code Section 54957.6(a)]
Agency designated representatives: Board President
Unrepresented Employee: General Manager

16. RECONVENE INTO OPEN SESSION

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

17. MODIFICATION OF GENERAL MANAGER'S COMPENSATION

Action: At Board discretion, consideration and approval of modification to General Manager compensation

18. MEETING SCHEDULE

- **Regular Board Meeting - June 25, 2018 at 2:00 PM, COMB Office**
- **Board Packages available on COMB website www.cachuma-board.org**

19. 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 the
CACHUMA OPERATION AND MAINTENANCE BOARD
held at
3301 Laurel Canyon Road, Santa Barbara, CA
Monday, April 23, 2018**

1. Call to Order, Roll Call

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

Directors Present:

W. Douglas Morgan, Montecito Water District
Kristen Sneddon, City of Santa Barbara
Polly Holcombe, Carpinteria Valley Water District
Lauren Hanson, Goleta Water District

Staff Present:

Janet Gingras, General Manager	Joel Degner, Water Resources Engineer
Edward Lyons, Administrative Manager/CFO	Tim Robinson, Fisheries Division Manager
Dave Stewart, Operations Division Manager	Carinna Butler, Administrative Assistant
William Carter, General Counsel	

Others Present:

Kelley Dyer, City of SB Public Works	Fray Crease, SB County Water Agency
Philip Walker, Santa Barbara resident	Dan Hentschke, City of Santa Barbara
Eric Friedman, Santa Barbara resident	

2. Public Comment

Mr. Walker shared with the Board information on the Santa Ynez Fault and Dr. Charles Richter's list of potential earthquakes.

3. Consent Agenda

Ms. Gingras presented the Consent Agenda as provided in the board packet. Ms. Gingras fielded questions from the Board.

a. Minutes

- Minutes of March 26, 2018 Regular Board Meeting

b. Investment of Funds

- Financial Reports
- Investment Reports

c. Review of Paid Claims

Director Holcombe made a motion to approve the Consent Agenda as presented. Seconded by Director Hanson; the motion passed by 6/0/1/0 vote:

Ayes: Sneddon, Holcombe, Hanson, Morgan

Nayes:

Absent: Walsh

Abstain:

4. Verbal Reports From Board Committees

- *Operations Committee Meeting – April 11, 2018:* Director Sneddon presented the items and noted that the items will be discussed separately within staff reports.
- *Fisheries Committee Meeting – April 18, 2018:* Director Holcombe highlighted in detail the Committee agenda items discussed and noted that the items will also be discussed separately within staff reports.

5. Quarterly Financial Review

Mr. Lyons presented the Quarterly Financial Review for the 3rd Quarter FY 2017-18 budget-to-actuals as incorporated in the board packet. Mr. Lyons gave a detailed overview of accounts listed within the report and fielded questions from the Board. Director Holcombe made a motion to receive and file the Quarterly Financial Review for the 3rd Quarter FY 2017-18. Seconded by Director Sneddon; the motion passed by 6/0/1/0 vote:

Ayes: Sneddon, Holcombe, Hanson, Morgan

Nayes:

Absent: Walsh

Abstain:

6. Resolution No. 659 – Memorandum of Understanding – Participation in Statewide and Countywide Integrated Regional Water Management (IRWM) Program in Santa Barbara County

Ms. Gingras presented Resolution No. 659 as provided in the board packet noting that COMB has participated in the Integrated Regional Water Management (IRWM) Program for Santa Barbara County since 2006. The Memorandum of Understanding (MOU) has been revised to reflect the Department of Water Resources (DWR) guidelines from 2016 and Proposition 1

funding. Ms. Gingras fielded questions from the Board. Director Holcombe made a motion to adopt Resolution No. 659. Seconded by Director Hanson; the motion passed by 6/0/1/0 vote:

Ayes: Sneddon, Holcombe, Hanson, Morgan

Nayes:

Absent: Walsh

Abstain:

7. **Resolution No. 660 – Approving Issuance of a Notice of Award and Authorizing Contract Execution for Construction of the Air Vacuum Air Release / Blow-Off Structure Rehabilitation Project**

Ms. Gingras presented Resolution No. 660 as provided in the board packet to authorize the General Manager to execute a construction contract with Cushman Contracting Corporation for the AVAR / Blow-Off Structure Rehabilitation Project. This project will commence in the winter of FY 2018-19. Ms. Gingras fielded questions from the Board. Director Holcombe made a motion to adopt Resolution No. 660 as amended. Seconded by Director Sneddon; the motion passed by 6/0/1/0 vote:

Ayes: Sneddon, Holcombe, Hanson, Morgan

Nayes:

Absent: Walsh

Abstain:

8. **Quiota Creek Crossing 5 and Crossing 9 Fish Passage Improvement Projects**

Ms. Gingras and Mr. Robinson presented this item as provided in the board packet. Staff is seeking Board approval to adopt Resolution No. 661, authorize the General Manager to execute a purchase order for the bottomless arched culvert product for Crossing 9, solicit competitive bids for the construction of the Quiota Creek Crossing 5 and Crossing 9 Projects and to authorize the General Manager to pay the Santa Barbara County Encroachment Permit fee for Quiota Creek Crossing 9 Project. Ms. Gingras and Mr. Robinson fielded questions from the Board. Director Holcombe made a motion to adopt Resolution No. 661 as amended. Seconded by Director Hanson; the motion passed by 6/0/1/0 vote:

Ayes: Sneddon, Holcombe, Hanson, Morgan

Nayes:

Absent: Walsh

Abstain:

9. **General Manager Report**

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

Ms. Gingras presented topics within her report as provided in the board packet highlighting the prior months' meeting with the Cachuma Project Member Agency Managers, as well as, the meeting between the Bureau of Reclamation, the County Water Agency and the Cachuma Project Member Agencies regarding the Cachuma Project 2015 and 2016 deficits, the 2018 water rates and Reclamation's upcoming 2018-19 projected operational budget for the Cachuma Project. Ms. Gingras also reported on various staff activities including the COMB FY 2018-19 Draft Operating Budget, Western Watershed Enhancement Program (WWEP) Grant Award and Federal Emergency Management Agency (FEMA) request for Public Assistance. Ms. Gingras fielded questions from the Board.

10. Water Resources Engineer Report

- Cachuma Conveyance Operations FY 2018-19
- Lake Cachuma Evaporation Update
- Infrastructure Improvement Planning

Mr. Degner gave a PowerPoint presentation to provide information on the Cachuma Conveyance Operations FY 2018-19 and to update the Board on various staff activities related to this project. Mr. Degner also presented the monthly Water Resources Engineer Report as provided in the board packet highlighting the USBR Lake Cachuma evaporation pan update and the status of infrastructure improvement projects. Mr. Degner fielded questions from the Board.

11. Operations Division Report

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Stewart presented topics within his report as provided in the board packet highlighting various activities along the South Coast Conduit including maintenance of the Corona Del Mar influent pipeline by Goleta Water District, the replacement of three meters by the City of Santa Barbara, as well as, flushing and valve exercising performed by COMB staff. Mr. Stewart updated the Board on the Infrastructure Improvement Plan projects along with a detailed summary of the Division's tasks and objectives for March. Mr. Stewart fielded questions from the Board.

12. Fisheries Division Report

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

Mr. Robinson presented topics within his report as provided in the board packet. Mr. Robinson offered further detail on recent Fisheries Division activities highlighting the gravel augmentation

project on Hilton Creek and migrant trapping activities. Mr. Robinson fielded questions from the Board.

13. Progress Report on Lake Cachuma Oak Tree Program

- Maintenance and Monitoring

Mr. Robinson presented topics within his report as provided in the board packet highlighting staff's ongoing mitigation efforts for the Oak Tree Program.

14. Monthly Cachuma Project Reports

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

Mr. Lyons gave a PowerPoint presentation to provide the Board information on the Monthly Cachuma Project Reports and the method by which they are compiled each month. Mr. Lyons and Ms. Gingras fielded questions from the Board.

15. Directors' Request for Agenda Items for Future Meeting

- The Board asked that the unaccounted for water loss charge be revisited with the Bureau of Reclamation and taken to the Committee for possible action.

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

The Board went into closed session at 4:39 PM

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

17. [CLOSED SESSION]: Annual Performance Review

- a. [Government Code Section 54957(b)(1)]
Title: General Manager

18. RECONVENE INTO OPEN SESSION

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

The Board came out of closed session at 6:19 PM

There was no reportable action.

19. **Meeting Schedule**

- **May 21, 2018 at 2:00 PM, COMB Office**
- **Board Packages Available on COMB Website www.cachuma-board.org**

20. **COMB Adjournment**

There being no further business, the meeting adjourned at 6:20 PM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
✓	<i>Unapproved</i>

Cachuma Operation & Maintenance Board
Statement of Net Position
As of April 30, 2018
UNAUDITED FINANCIALS

ASSETS

Current Assets

Checking/Savings

Trust Funds

1210 · Warren Act Trust Fund

860,274.32

1220 · Renewal Fund

10,215.61

Total Trust Funds

870,489.93

1050 · General Fund

2,230,970.90

1100 · Revolving Fund

21,059.42

Total Checking/Savings

3,122,520.25

Accounts Receivable

1320 · Quarterly Assessments Receivable

251,984.00

Total Accounts Receivable

251,984.00

Other Current Assets

1010 · Petty Cash

500.00

1200 · LAIF

827,905.05

1303 · Bradbury SOD Act Assessments Receivable

190,101.00

1304 · Lauro Dam SOD Assessments Receivable

29,472.92

1400 · Prepaid Insurance

19,432.72

Total Other Current Assets

1,067,411.69

Total Current Assets

4,441,915.94

Fixed Assets

1500 · Vehicles

411,918.76

1505 · Office Furniture & Equipment

443,923.41

1510 · Mobile Offices

97,803.34

1515 · Field Equipment

563,100.87

1525 · Paving

38,351.00

1550 · Accumulated Depreciation

-1,407,786.02

Total Fixed Assets

147,311.36

Other Assets

1910 · LT Bradbury SOD Act Assessments Receivable

4,875,720.07

1920 · LT Lauro SOD Act Assessments Receivable

865,427.91

1922 · Deferred Outflow of Resources (GASB 68)

422,161.00

Total Other Assets

6,163,308.98

TOTAL ASSETS

10,752,536.28

Cachuma Operation & Maintenance Board
Statement of Net Position
As of April 30, 2018
UNAUDITED FINANCIALS

LIABILITIES & EQUITY

Liabilities

Current Liabilities

Accounts Payable

2200 · Accounts Payable 38,140.63

Total Accounts Payable 38,140.63

Other Current Liabilities

2550 · Vacation/Sick 143,385.84

2561 · Bradbury Dam SOD Act 190,111.66

2563 · Laura Dam SOD Act 29,472.92

2565 · Accrued Interest SOD Act 66,595.00

2567 · Loan Payable Current EPFP 402,389.08

2590 · Deferred Revenue 870,489.93

Total Other Current Liabilities 1,702,444.43

Total Current Liabilities 1,740,585.06

Long Term Liabilities

2602 · LT SOD Act Liability-Bradbury 4,875,710.07

2603 · LT SOD Act Liability - Lauro 865,427.91

2604 · OPEB LT Liability 1,054,948.00

2605 · Loan Payable Principal - EPFP 1,013,682.10

2610 · Net Pension Liability (GASB 68) 1,527,915.00

2611 · Deferred Inflow of Resources (GASB 68) 149,427.00

Total Long Term Liabilities 9,487,110.08

Total Liabilities 11,227,695.14

Net Position

3000 · Opening Balance Net Position -1,356,592.05

3901 · Retained Net Assets -860,682.51

Net Income 1,742,115.70

Total Net Position -475,158.86

TOTAL LIABILITIES & NET POSITION 10,752,536.28

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

	Fisheries				Operations				TOTAL			
	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget
Revenue												
3000 REVENUE												
3001 · O&M Budget (Qtrly Assessments)	791,492.00	821,492.00	-30,000.00	96.35%	2,833,188.00	2,893,190.00	-60,002.00	97.93%	3,624,680.00	3,714,682.00	-90,002.00	97.58%
3006 · Warren Act	482,709.20	620,361.00	-137,651.80	77.81%	0.00				482,709.20	620,361.00	-137,651.80	77.81%
3009 · Pmts - Member Agencies - EPPF	0.00				347,587.67				347,587.67	0.00	347,587.67	100.0%
3010 · Interest Income	0.00				10,681.76				10,681.76	0.00	10,681.76	100.0%
3020 · Misc Income	8,122.74				295.13				8,417.87	0.00	8,417.87	100.0%
3035 · Cachuma Project Betterment Fund	90,000.00	90,000.00	0.00	100.0%	0.00				90,000.00	90,000.00	0.00	100.0%
3037 · Grant-QC Crossing #5	0.00	893,287.00	-893,287.00	0.0%	0.00				0.00	893,287.00	-893,287.00	0.0%
3038 · Log Boom Match	0.00				65,000.00				65,000.00	0.00	65,000.00	100.0%
3090 · Proceeds - Disp of Fixed Asset	4,201.00				0.00				4,201.00	0.00	4,201.00	100.0%
Total 3000 REVENUE	1,376,524.94	2,425,140.00	-1,048,615.06	56.76%	3,256,752.56	2,893,190.00	363,562.56	112.57%	4,633,277.50	5,318,330.00	-685,052.50	87.12%
Total Revenue	1,376,524.94	2,425,140.00	-1,048,615.06	56.76%	3,256,752.56	2,893,190.00	363,562.56	112.57%	4,633,277.50	5,318,330.00	-685,052.50	87.12%
Gross Profit	1,376,524.94	2,425,140.00	-1,048,615.06	56.76%	3,256,752.56	2,893,190.00	363,562.56	112.57%	4,633,277.50	5,318,330.00	-685,052.50	87.12%
Expense												
3100 · LABOR - OPERATIONS	0.00				540,420.34	789,107.00	-248,686.66	68.49%	540,420.34	789,107.00	-248,686.66	68.49%
3200 VEH & EQUIPMENT												
3201 · Vehicle/Equip Mtce	0.00				30,291.38	30,000.00	291.38	100.97%	30,291.38	30,000.00	291.38	100.97%
3202 · Fixed Capital	0.00				1,358.73	15,000.00	-13,641.27	9.06%	1,358.73	15,000.00	-13,641.27	9.06%
3203 · Equipment Rental	0.00				1,320.49	5,000.00	-3,679.51	26.41%	1,320.49	5,000.00	-3,679.51	26.41%
3204 · Miscellaneous	0.00				3,462.98	5,000.00	-1,537.02	69.26%	3,462.98	5,000.00	-1,537.02	69.26%
Total 3200 VEH & EQUIPMENT	0.00				36,433.58	55,000.00	-18,566.42	66.24%	36,433.58	55,000.00	-18,566.42	66.24%
3300 · CONTRACT LABOR												
3301 · Conduit, Meter, Valve & Misc	0.00				8,973.99	20,000.00	-11,026.01	44.87%	8,973.99	20,000.00	-11,026.01	44.87%
3302 · Buildings & Roads	0.00				4,054.90	20,000.00	-15,945.10	20.28%	4,054.90	20,000.00	-15,945.10	20.28%
3303 · Reservoirs	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3304 · Engineering, Misc Services	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
Total 3300 · CONTRACT LABOR	0.00				13,028.89	95,000.00	-81,971.11	13.72%	13,028.89	95,000.00	-81,971.11	13.72%
3400 · MATERIALS & SUPPLIES												
3401 · Conduit, Meter, Valve & Misc	0.00				5,337.89	65,000.00	-59,662.11	8.21%	5,337.89	65,000.00	-59,662.11	8.21%
3402 · Buildings & Roads	0.00				4,582.55	8,000.00	-3,417.45	57.28%	4,582.55	8,000.00	-3,417.45	57.28%
3403 · Reservoirs	0.00				1,379.20	5,000.00	-3,620.80	27.58%	1,379.20	5,000.00	-3,620.80	27.58%
Total 3400 · MATERIALS & SUPPLIES	0.00				11,299.64	78,000.00	-66,700.36	14.49%	11,299.64	78,000.00	-66,700.36	14.49%
3500 · OTHER EXPENSES												
3501 · Utilities	0.00				5,697.08	7,000.00	-1,302.92	81.39%	5,697.08	7,000.00	-1,302.92	81.39%
3502 · Uniforms	0.00				3,198.33	5,000.00	-1,801.67	63.97%	3,198.33	5,000.00	-1,801.67	63.97%
3503 · Communications	0.00				15,624.16	18,000.00	-2,375.84	86.8%	15,624.16	18,000.00	-2,375.84	86.8%
3504 · USA & Other Services	0.00				1,782.90	4,000.00	-2,217.10	44.57%	1,782.90	4,000.00	-2,217.10	44.57%
3505 · Miscellaneous	0.00				7,117.38	8,000.00	-882.62	88.97%	7,117.38	8,000.00	-882.62	88.97%
3506 · Training	0.00				120.70	3,000.00	-2,879.30	4.02%	120.70	3,000.00	-2,879.30	4.02%
Total 3500 · OTHER EXPENSES	0.00				33,540.55	45,000.00	-11,459.45	74.54%	33,540.55	45,000.00	-11,459.45	74.54%

	Fisheries				Operations				TOTAL			
	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget
4100 · LABOR - FISHERIES	563,633.36	683,374.00	-119,740.64	82.48%	0.00				563,633.36	683,374.00	-119,740.64	82.48%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	21,743.72	15,000.00	6,743.72	144.96%	0.00				21,743.72	15,000.00	6,743.72	144.96%
4280 · Fixed Capital	34,536.77	15,000.00	19,536.77	230.25%	0.00				34,536.77	15,000.00	19,536.77	230.25%
4290 · Miscellaneous	2,910.60	2,500.00	410.60	116.42%	0.00				2,910.60	2,500.00	410.60	116.42%
Total 4200 · VEHICLES & EQUIP - FISHERIES	59,191.09	32,500.00	26,691.09	182.13%	0.00				59,191.09	32,500.00	26,691.09	182.13%
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	104.00	3,000.00	-2,896.00	3.47%	0.00				104.00	3,000.00	-2,896.00	3.47%
4222 · Fish Projects Maintenance	6,670.95	25,000.00	-18,329.05	26.68%	0.00				6,670.95	25,000.00	-18,329.05	26.68%
Total 4220 · CONTRACT LABOR - FISHERIES	6,774.95	28,000.00	-21,225.05	24.2%	0.00				6,774.95	28,000.00	-21,225.05	24.2%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	3,875.64	7,000.00	-3,124.36	55.37%	0.00				3,875.64	7,000.00	-3,124.36	55.37%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	3,875.64	7,000.00	-3,124.36	55.37%	0.00				3,875.64	7,000.00	-3,124.36	55.37%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	3,471.03	2,500.00	971.03	138.84%	0.00				3,471.03	2,500.00	971.03	138.84%
Total 4500 · OTHER EXPENSES - FISHERIES	3,471.03	2,500.00	971.03	138.84%	0.00				3,471.03	2,500.00	971.03	138.84%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				6,593.59	12,000.00	-5,406.41	54.95%	6,593.59	12,000.00	-5,406.41	54.95%
5001 · Director Mileage	0.00				497.28	1,000.00	-502.72	49.73%	497.28	1,000.00	-502.72	49.73%
5100 · Legal	0.00				42,949.26	75,000.00	-32,050.74	57.27%	42,949.26	75,000.00	-32,050.74	57.27%
5101 · Audit	0.00				16,732.90	21,625.00	-4,892.10	77.38%	16,732.90	21,625.00	-4,892.10	77.38%
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				27,302.76	50,551.00	-23,248.24	54.01%	27,302.76	50,551.00	-23,248.24	54.01%
5310 · Postage/Office Exp	0.00				4,247.24	5,000.00	-752.76	84.95%	4,247.24	5,000.00	-752.76	84.95%
5311 · Office Equip/Leases	0.00				6,418.49	9,200.00	-2,781.51	69.77%	6,418.49	9,200.00	-2,781.51	69.77%
5312 · Misc Admin Expenses	0.00				11,003.57	8,600.00	2,403.57	127.95%	11,003.57	8,600.00	2,403.57	127.95%
5313 · Communications	0.00				6,142.68	8,500.00	-2,357.32	72.27%	6,142.68	8,500.00	-2,357.32	72.27%
5314 · Utilities	0.00				7,022.59	9,737.00	-2,714.41	72.12%	7,022.59	9,737.00	-2,714.41	72.12%
5315 · Membership Dues	0.00				8,138.10	8,500.00	-361.90	95.74%	8,138.10	8,500.00	-361.90	95.74%
5316 · Admin Fixed Assets	0.00				3,704.49	3,000.00	704.49	123.48%	3,704.49	3,000.00	704.49	123.48%
5318 · Computer Consultant	0.00				10,208.59	15,000.00	-4,791.41	68.06%	10,208.59	15,000.00	-4,791.41	68.06%
5325 · Emp Training/Subscriptions	0.00				2,185.63	2,000.00	185.63	109.28%	2,185.63	2,000.00	185.63	109.28%
5330 · Admin Travel/Conferences	0.00				122.34	2,000.00	-1,877.66	6.12%	122.34	2,000.00	-1,877.66	6.12%
5331 · Public Information	0.00				460.67	1,000.00	-539.33	46.07%	460.67	1,000.00	-539.33	46.07%
5317 · Admin Contract Labor	0.00				7,418.50	7,500.00	-81.50	98.91%	7,418.50	7,500.00	-81.50	98.91%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				161,148.68	245,213.00	-84,064.32	65.72%	161,148.68	245,213.00	-84,064.32	65.72%
5299 · ADMIN LABOR	0.00				427,676.99	560,870.00	-133,193.01	76.25%	427,676.99	560,870.00	-133,193.01	76.25%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	5,607.40	20,000.00	-14,392.60	28.04%	0.00				5,607.40	20,000.00	-14,392.60	28.04%
5410 · Postage / Office Supplies	2,398.56	4,000.00	-1,601.44	59.96%	0.00				2,398.56	4,000.00	-1,601.44	59.96%
5411 · Office Equipment / Leases	3,456.03	5,218.00	-1,761.97	66.23%	0.00				3,456.03	5,218.00	-1,761.97	66.23%
5412 · Misc. Admin Expense	5,915.96	5,610.00	305.96	105.45%	0.00				5,915.96	5,610.00	305.96	105.45%
5413 · Communications	4,036.84	4,305.00	-268.16	93.77%	0.00				4,036.84	4,305.00	-268.16	93.77%
5414 · Utilities	3,781.34	5,243.00	-1,461.66	72.12%	0.00				3,781.34	5,243.00	-1,461.66	72.12%
5415 · Membership Dues	5,260.90	5,500.00	-239.10	95.65%	0.00				5,260.90	5,500.00	-239.10	95.65%
5416 · Admin Fixed Assets	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
5417 · Admin Contract Labor	3,994.51	4,000.00	-5.49	99.86%	0.00				3,994.51	4,000.00	-5.49	99.86%
5418 · Computer Consultant	5,496.87	5,000.00	496.87	109.94%	0.00				5,496.87	5,000.00	496.87	109.94%
5425 · Employee Education/Subscription	2,423.76	2,500.00	-76.24	96.95%	0.00				2,423.76	2,500.00	-76.24	96.95%

	Fisheries				Operations				TOTAL			
	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget	Jul '17 - Apr 18	Budget	\$ Over Budget	% of Budget
5426 · Director Fees	3,550.40	6,500.00	-2,949.60	54.62%	0.00				3,550.40	6,500.00	-2,949.60	54.62%
5427 · Director Mileage	222.67	500.00	-277.33	44.53%	0.00				222.67	500.00	-277.33	44.53%
5430 · Travel	1,710.36	2,500.00	-789.64	68.41%	0.00				1,710.36	2,500.00	-789.64	68.41%
5431 · Public Information	247.92	1,500.00	-1,252.08	16.53%	0.00				247.92	1,500.00	-1,252.08	16.53%
5441 · Audt	8,633.10	7,175.00	1,458.10	120.32%	0.00				8,633.10	7,175.00	1,458.10	120.32%
5443 · Liab & Property Ins	14,701.49	24,745.00	-10,043.51	59.41%	0.00				14,701.49	24,745.00	-10,043.51	59.41%
Total 5400 · GENERAL & ADMIN - FISHERIES	71,438.11	107,296.00	-35,857.89	66.58%	0.00				71,438.11	107,296.00	-35,857.89	66.58%
5499 · ADMIN LABOR-FISHERIES	155,876.10	221,470.00	-65,593.90	70.38%	0.00				155,876.10	221,470.00	-65,593.90	70.38%
5510 · Integrated Reg. Water Mgt Plan	0.00				2,408.83	5,000.00	-2,591.17	48.18%	2,408.83	5,000.00	-2,591.17	48.18%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				1,179.18	20,000.00	-18,820.82	5.9%	1,179.18	20,000.00	-18,820.82	5.9%
6090 · COMB Office Building	0.00				480.55	20,000.00	-19,519.45	2.4%	480.55	20,000.00	-19,519.45	2.4%
6096 · SCC Structure Rehabilitation	0.00				77,285.83	225,000.00	-147,714.17	34.35%	77,285.83	225,000.00	-147,714.17	34.35%
6097 · GIS and Mapping	0.00				14,018.19	10,000.00	4,018.19	140.18%	14,018.19	10,000.00	4,018.19	140.18%
6105 · ROW Management Program	0.00				17,478.32	20,000.00	-2,521.68	87.39%	17,478.32	20,000.00	-2,521.68	87.39%
6118 · Repair Lateral 3 Structure	0.00				13,997.49	100,000.00	-86,002.51	14.0%	13,997.49	100,000.00	-86,002.51	14.0%
6120 · Emergency Pumping Fac Project	0.00				141,800.00	223,000.00	-81,200.00	63.59%	141,800.00	223,000.00	-81,200.00	63.59%
6120-2 · EPPF C/O FY 2016	0.00				0.00	-223,000.00	223,000.00	0.0%	0.00	-223,000.00	223,000.00	0.0%
6122 · Rehab San Antonio Crk Blow-off	0.00				0.00	35,000.00	-35,000.00	0.0%	0.00	35,000.00	-35,000.00	0.0%
6130 · NP Slope Stabilization	0.00				69,030.28	103,694.45	-34,664.17	66.57%	69,030.28	103,694.45	-34,664.17	66.57%
6130-1 · NP Slope Stabil C/O Funds FY 16	0.00				0.00	-73,694.45	73,694.45	0.0%	0.00	-73,694.45	73,694.45	0.0%
6132 · Sycamore Canyon Slope Stabiliz	0.00				75,168.34	300,000.00	-224,831.66	25.06%	75,168.34	300,000.00	-224,831.66	25.06%
6133 · Meter Replacement Project	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6134 · N.P. IT/Control Bldg Seismic	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6135 · SCC San Jose Creek Pipe Stabili	0.00				0.00	60,000.00	-60,000.00	0.0%	0.00	60,000.00	-60,000.00	0.0%
Total 6000 · SPECIAL PROJECTS	0.00				410,438.18	1,020,000.00	-609,561.82	40.24%	410,438.18	1,020,000.00	-609,561.82	40.24%
6200 · FISHERIES ACTIVITIES												
6201 · FMP Implementation	44,555.70	60,000.00	-15,444.30	74.26%	0.00				44,555.70	60,000.00	-15,444.30	74.26%
6202 · GIS and Mapping	12,858.25	10,000.00	2,858.25	128.58%	0.00				12,858.25	10,000.00	2,858.25	128.58%
6203 · Grants Technical Support	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6205 · USGS Stream Gauge Program	81,591.67	100,000.00	-18,408.33	81.59%	0.00				81,591.67	100,000.00	-18,408.33	81.59%
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	12,694.76	40,000.00	-27,305.24	31.74%	0.00				12,694.76	40,000.00	-27,305.24	31.74%
Total 6200 · FISHERIES ACTIVITIES	151,700.38	233,000.00	-81,299.62	65.11%	0.00				151,700.38	233,000.00	-81,299.62	65.11%
6300 · HABITAT ENHANCEMENT												
6318 · Quiota Creek Crossing 9	4,385.00	30,000.00	-25,615.00	14.62%	0.00				4,385.00	30,000.00	-25,615.00	14.62%
6319 · Mission Creek at Hwy 192	0.00	30,000.00	-30,000.00	0.0%	0.00				0.00	30,000.00	-30,000.00	0.0%
6303 · Tributary Projects Support	19,992.47	20,000.00	-7.53	99.96%	0.00				19,992.47	20,000.00	-7.53	99.96%
6315 · Quiota Creek Crossing 8	0.00	60,000.00	-60,000.00	0.0%	0.00				0.00	60,000.00	-60,000.00	0.0%
6316 · Quiota Creek Crossing 5	155,714.64	960,000.00	-804,285.36	16.22%	0.00				155,714.64	960,000.00	-804,285.36	16.22%
6317 · Salsipuedes Fish Ladder Repair	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
Total 6300 · HABITAT ENHANCEMENT	180,092.11	1,110,000.00	-929,907.89	16.23%	0.00				180,092.11	1,110,000.00	-929,907.89	16.23%
7007 · INTEREST EXPENSE-EPPF	0.00				58,713.35				58,713.35	0.00	58,713.35	100.0%
Total Expense	1,196,052.77	2,425,140.00	-1,229,087.23	49.32%	1,695,109.03	2,893,190.00	-1,198,080.97	58.59%	2,891,161.80	5,318,330.00	-2,427,168.20	54.36%
Net Surplus/Deficit	180,472.17	0.00	180,472.17	100.0%	1,561,643.53	0.00	1,561,643.53	100.0%	1,742,115.70	0.00	1,742,115.70	100.0%

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

www.treasurer.ca.gov/pmia-laif/laif.asp
May 01, 2018

CACHUMA OPERATION AND MAINTENANCE BOARD

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

PMIA Average Monthly Yields

Account Number:

Tran Type Definitions

April 2018 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
4/13/2018	4/12/2018	QRD	1567315	SYSTEM	3,068.44

Account Summary

Total Deposit:	3,068.44	Beginning Balance:	824,836.61
Total Withdrawal:	0.00	Ending Balance:	827,905.05

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of April, 2018, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all LAIF investments of this agency for the period indicated.


Secretary

AMERICAN RIVIERA BANK

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



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

Page 1


ACCOUNT ANALYSIS CHECKING		Account No	
		Statement Date	04/30/2018
		Last Statement Date	03/30/2018
0	Statement Period		
Previous Balance	10,215.61	# Of Days-Stmt Period	31
0 Deposits/Credits	0.00		
0 Checks/Withdrawals	0.00	Average Balance	10,215.61
Ending Balance	10,215.61		
Total Srvc Chg Today	0.00	YTD Interest	0.00

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of April, 2018, complies with legal requirements for investment policy of government agencies, AB1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.


Secretary

AMERICAN RIVIERA BANK

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



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

Page 1

ACCOUNT ANALYSIS CHECKING		Account No	
		Statement Date	04/30/2018
		Last Statement Date	03/30/2018
<hr/>			
1	Statement Period		
Previous Balance	684,375.32	# Of Days-Stmt Period	31
3 Deposits/Credits	210,899.00		
1 Checks/Withdrawals	35,000.00	Average Balance	791,787.51
Ending Balance	860,274.32		
Total Srv Chg Today	0.00	YTD Interest	0.00

Deposits

Date	Description	Amount
04/09/18	MERCHANT CAPTURE DEPOSIT	145,899.00
04/18/18	FROM XXXXXXXX1514	35,000.00
	Funds Transfer via Online	
04/27/18	FROM XXXXXXXX1514	30,000.00
	Log Boom Grant Proceeds	

Withdrawals

Date	Description	Amount
04/18/18	TO XXXXXXXX1514	35,000.00
	Reverse Transfer	

Daily Balance Summary


Date	Amount	Date	Amount
04/09/2018	830,274.32	04/27/2018	860,274.32
04/18/2018	830,274.32		

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of April, 2018, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.


Secretary

Cachuma Operation & Maintenance Board

Paid Claims

As of April 30, 2018

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
1050 - General Fund				
04/02/2018	25970	Accountemps	Temporary Staff Labor - W/E: 3/16/18 (Admin Div)	-1,413.29
04/02/2018	25971	ACWA-JPIA	Property / Excess Crime Coverage (04/01/18-04/01/19)	-4,706.00
04/02/2018	25972	Business Card	CAL-NEVA Fisheries Conference/Travel/Lodging - T.Robinson, Misc Supplies (Fish Div), Web Domain Renewal, Oak Tree Supplies	-2,071.76
04/02/2018	25973	Cabela's Inc.	Staff Uniforms (Fish Div)	-30.00
04/02/2018	25974	Cushman Contracting Corp.	Emergency Work - Thomas Debris Flow	-17,692.57
04/02/2018	25975	Employee Relations, Inc.	Background Verification (Fish Div)	-53.85
04/02/2018	25976	Flowers & Associates, Inc.	Engineering Svcs - Sycamore Canyon Slope Stablization Proj	-28,733.42
04/02/2018	25977	Giffin Rental & Western Welding	Chipper Rental (Ops Div)	-261.76
04/02/2018	25978	HDR Engineering, Inc.	Engineering Svcs - SCC Structure Rehab Project	-9,734.08
04/02/2018	25979	Kristen Sneddon	Mtg Fees - Mar 2018	-154.52
04/02/2018	25980	Lauren W. Hanson	Mtg Fees - Mar 2018	-155.45
04/02/2018	25981	Paychex, Inc. (HR Essentials)	HR Essentials Mar 18	-202.03
04/02/2018	25982	PG&E	North Portal Electricity - Feb	-306.64
04/02/2018	25983	Pitney Bowes Global Fin Svc	Qtrly Equipment Lease - Postage Machine	-436.16
04/02/2018	25984	Polly Holcombe	Mtg Fees - Mar 2018	-143.42
04/02/2018	25985	Powell Garage	Vehicle Repair 2003 Ford F 150 Vehicle #119 (Fish Div)	-127.68
04/02/2018	25986	The Gas Company	Gas (COMB Office)	-62.52
04/02/2018	25987	United States Geological Survey	1st Qtr 11/1/17 - 01/31/18, Agrmt Dated 11/1/17	-23,187.50
04/02/2018	25988	W. Douglas Morgan	Mtg Fees - Mar 2018	-160.90
04/02/2018	25989	Wells Fargo Vendor Fin Serv	Copier Lease	-407.30
04/02/2018	25990	Winema Industrial & Safety Supply	First Aid Supplies (COMB Office & Vehicles)	-160.82
04/11/2018	25991	Accountemps	Temporary Staff Labor - W/E: 3/23 and 3/30/18 (Admin Div)	-2,553.04
04/11/2018	25992	ACWA-JPIA	Workers Compensation Ins - 01/01/18-03/31/18	-6,943.99
04/11/2018	25993	AT&T	April Phone Charges	-783.33
04/11/2018	25994	City of Santa-Barbara	Trash/Recycle-Mar 2018	-223.05
04/11/2018	25995	Coastal Copy, LP	Mtce agmt TASKalfa 6052ci/3051ci	-288.37
04/11/2018	25996	Cox Communications Santa Barbara	Business Internet April	-140.00
04/11/2018	25997	Culligan of Sylmar	Monthly RO System Mar	-27.95
04/11/2018	25998	Draganchuk Alarm Systems	Alarm Monitoring 4/1-6/30/18	-82.50
04/11/2018	25999	ECHO Communications	Monthly Answering Service April	-62.00
04/11/2018	26000	Frontier Communications	Main Office/Outlying stations/SCADA - Mar	-704.72
04/11/2018	26001	Home Depot Credit Services	Oak Tree Project Supplies (Fish Div)	-319.03
04/11/2018	26002	J&C Services	Office Cleaning - Mar	-600.00
04/11/2018	26003	MarBorg Industries	Portable Toilets Outlying Stations	-241.40
04/11/2018	26004	Nestle Pure Life Direct	Mar 5 Gal Water	-26.85
04/11/2018	26005	O'Reilly Automotive, Inc.	Vehicle Repair - Ford F350 Vehicle #125 (Ops Div)	-149.04
04/11/2018	26006	Pacific Coast Jiffy Lube	Vehicle Repair - Chevy Silverado - Veh #131 (Ops Div)	-148.02
04/11/2018	26007	Paychex, Inc	Payroll Services 3/9/18 and 3/23/18	-363.18
04/11/2018	26008	Powell Garage	Vehicle Repair - Chevy Colorado - Veh #122 (Fish Div)	-306.39
04/11/2018	26009	SAS Institute, Inc.	Annual Software License (Fish Div)	-893.00
04/11/2018	26010	Southern California Edison	Electricity - COMB Office and Outlying Stations - March	-1,216.97
04/11/2018	26011	Trenchalk Network Services, Inc.	Network Services and Support March	-1,207.50
04/11/2018	26012	Underground Service Alert of So. Calif.	Ticket Charges - Mar	-224.50
04/11/2018	26013	Verizon Wireless	Cellular/Modem's/USB's - Mar	-645.53
04/11/2018	26014	Wright Express Fleet Services	Fleet Fuel - Mar	-3,291.14
04/11/2018	26015	ACWA-JPIA	May Health Benefit	-35,151.15
04/12/2018	ACH	WEX Bank	Fleet Fuel - Feb	-2,153.99
04/16/2018	26017	Bureau of Reclamation	2nd Period Entitlement Obligation 4/1-9/30/18	-1,144,863.63
04/25/2018	ACH	American Riviera Bank	Principal and Interest - EPPF Loan	-10,354.21
04/25/2018	ACH	American Riviera Bank	Principal and Interest - EPPF Loan	-28,123.75
04/26/2018	26018	Accountemps	Temporary Staff Labor - W/E: 4/06 and 4/13/18 (Admin Div)	-2,135.44
04/26/2018	26019	Business Card	SRF Conference/Travel/Lodging - T.Robinson, Lunch USBR and MUGM Mtg	-1,519.82
04/26/2018	26020	Cushman Contracting Corp.	Emerg Pumping System: Pay Req #48	-7,000.00
04/26/2018	26021	Federal Express	Mailing (Ops Div)	-27.56
04/26/2018	26022	Flowers & Associates, Inc.	Engineering Svcs - Sycamore Canyon Slope Stablization Proj	-9,368.92
04/26/2018	26023	Frontier Communications	SCADA - Apr	-581.80
04/26/2018	26024	HDR Engineering, Inc.	Tributary Project Maint (Fish Div)	-15,773.24
04/26/2018	26025	Instrument & Valve Services Company	Calibration-pressure transmitters	-1,862.42
04/26/2018	26026	Musick, Peeler & Garrett LLP	General Counsel thru 2/28	-8,508.40

Cachuma Operation & Maintenance Board

Paid Claims

As of April 30, 2018

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
04/26/2018	26027	Paychex, Inc. (HR Essentials)	HR Essentials April 18	-210.43
04/26/2018	26028	PG&E	North Portal / Tecolote Tunnel Electricity - Mar/Apr	-366.19
04/26/2018	26029	Smith-Root, Inc.	Electrofisher Equipment (Fish Div)	-10,196.70
04/26/2018	26030	Southern California Edison	Electricity Foothill Road - March	-26.42
04/26/2018	26031	Spatial Wave	Field Mapplet Software April-June 2018	-900.00
04/26/2018	26032	Staples Credit Plan	Office Supplies	-756.64
04/26/2018	26033	The Gas Company	Utilities (COMB Office)	-48.19
04/26/2018	26034	Tim Robinson	SRF Conference - Meals/Parking/Gas	-86.67
04/26/2018	26035	United States Geological Survey	2nd Qtr 2/1/18 - 04/30/18, Agrmt Dated 11/1/17	-23,187.50
Total 1050 - General Fund				<u>-1,414,846.24</u>
TOTAL				<u>-1,414,846.24</u>

CACHUMA OPERATION & MAINTENANCE BOARD

Fisheries Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Thursday, May 17, 2018
2:00 PM

AGENDA

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Draft 5-Year Habitat Improvement Plan 2019-2023 (*for information*)
4. Renewal Fund / Cachuma Project Warren Act Trust Fund / Santa Barbara County Betterment Fund – Long-Term and Annual Plan (*for information and possible recommendation*)
5. Construction Bid Award – Quiota Creek Fish Passage Improvement Projects – Crossing No. 5 and Crossing No. 9 (*for information and possible recommendation*)
6. Consultant Scopes of Work (SOW) for Fiscal Year 2018-19 (*for information and possible recommendation*)
7. Annual Monitoring Reports / Annual Summary Update (AMR/AMS) (*for information*)
8. Update on Recent Fisheries Division Activities (*for information*)
9. Adjournment

NOTICE TO THE PUBLIC

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

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

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 21, 2018
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: CACHUMA PROJECT WARREN ACT TRUST FUND / RENEWAL FUND AND COUNTY BETTERMENT FUND USE OF FUNDS MEETING

SUMMARY:

Cachuma Project Warren Act Trust Fund / Renewal Fund (“Funds Committee”) Meeting

COMB Resolution No. 249, approved unanimously by the COMB Board in 1997, establishes that the processes for implementation and administration of the Cachuma Project Warren Act 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, a single Committee (the “Funds Committee”) directing the preparation and implementation of Long-Term and Annual Work Plans.

The annual meeting of the Cachuma Project Warren Act Trust Fund / Renewal Fund (Funds Committee), and County Betterment Fund was conducted on April 5, 2018 and a second meeting was held on May 14, 2018. Those in attendance included Janet Gingras, COMB General Manager, previously appointed by the COMB Board to represent the Cachuma Member Units; Edward Lyons, COMB Administrative Manager/CFO; Fray Crease, representing the Santa Barbara County Water Agency; Tim Robinson, COMB Fisheries Division Manager. Mike Lebarre, Chief of Contracts Administration, Bureau of Reclamation, was present by conference call. Else Wolff from the Parent District also attended along with Mr. Paeter Garcia and Mr. Dahlstrom from Santa Ynez River Water Conservation District, ID No. 1.

The Funds Committee met to discuss the Annual and Long Term Plan prepared as outlined in the Master Renewal Contract document. The Cachuma Project Warren Act Trust Fund Revenues collected for calendar year 2017 totaled \$539,521 based on 12,547 AF of State Water delivered to the lake during the year. There will be no Renewal Funds collected for fiscal year 2019 due to the amount of Trust Fund revenues received.

The participating Committee members discussed and subsequently voted and agreed to apply the Warren Act Trust Fund monies for program expenditures and activities related to the Fisheries Program during Fiscal Year 2018-19 as outlined in the plan. Specifically, these funds will provide revenue for a Steelhead Enhancement Project (Quiota Creek Crossings) (\$175,000), genetic analyses of LSYR *O. Mykiss* tissue samples (\$15,000), the Oak Tree Restoration Program (\$50,000), watershed protection (\$30,000), and general fisheries program work (\$284,521).

Santa Barbara County Water Agency Cachuma Betterment Fund meeting

Article 8 (b) of the Cachuma Project Member Unit contracts with Santa Barbara County Water Agency requires the County Water Agency to provide \$100,000 annually for beneficial purposes consistent with the Water Agency Act and within the Santa Ynez River watershed or the Cachuma Project service area. All decisions relating to the expenditure of such funds must be agreed to by both the County Water

Agency and the Cachuma Member Agency Representative, acting by unanimous vote. Consistent with past years, COMB will receive \$90,000 to be used for the stream gauge program. The funds were allocated for the following activities for Fiscal Year 2018-19:

USGS Stream Gauging Program (Fisheries Division)	\$ 90,000
USGS Stream Gauging Program (County of SB)	<u>\$ 10,000</u>
Total	\$100,000

FISCAL IMPACTS:

The COMB FY 2018-19 Proposed Draft Budget reflects the Warren Act Trust Fund and County Betterment Fund revenue offsets for the Fisheries Division approved activities consistent with the Annual Plan.

COMMITTEE STATUS:

The Fisheries Committee reviewed the 2018 Cachuma Project Annual and Long-Term Plan and forwards the following to the Board with a recommendation to approve:

- a. Receive and file the 2018 Annual and Long-Term Plans and approve the recommended program expenditures of Cachuma Project Warren Act Trust Fund monies in the amount of \$539,521 for FY 2018-19 as approved by the Funds Committee.
- b. The proposed program expenditures of the Santa Barbara County Betterment Fund monies in the amount of \$90,000 for FY 2018-19 as agreed upon by the County and the Cachuma Member Agency representative.

RECOMMENDATION:

The Board receive and file the Cachuma Project 2018 Report with Annual and Long-Term Plans and approve:

- a. The recommended program expenditures of Cachuma Project Warren Act Trust Fund monies in the amount of \$539,521 for FY 2018-19 as approved by the Funds Committee.
- b. The proposed program expenditures of the Santa Barbara County Betterment Fund monies in the amount of \$90,000 for FY 2018-19 as agreed upon by the County and the Cachuma Member Agency representative.

LIST OF EXHIBITS:

- 1) Cachuma Project 2018 Report with Annual and Long-Term Plans
- 2) Santa Barbara County Cachuma Project Betterment Fund Letter

CACHUMA PROJECT WARREN ACT TRUST FUND AND CACHUMA PROJECT MASTER CONTRACT RENEWAL FUND

2018 REPORT WITH ANNUAL AND LONG-TERM PLANS FOR WATER YEAR 2019

Background

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. Department of the Interior Bureau of Reclamation (Reclamation). These two funds have similar, but not identical purposes which are explained below.

Warren Act Trust Fund

The Warren Act Trust Fund is a requirement of the Cachuma Project Warren Act Contract that the Central Coast Water Authority (CCWA) negotiated with Reclamation for delivery and transport of State Water Project (SWP) water through the Cachuma Project facilities. A 1995 memorandum of understanding (MOU) executed in conjunction with the Warren Act Contract established a charge of \$43 per acre foot (AF) (\$58 initially with a \$15 service charge by Reclamation), which is not indexed. Payments are required upon delivery of SWP water to Cachuma Reservoir. CCWA makes quarterly payments to COMB based on the prior quarter's deliveries. The South Coast CCWA participants (City of Santa Barbara, Goleta Water District, Montecito Water District, and Carpinteria Valley Water District, plus La Cumbre Mutual Water Company, Morehart Land Company, and Santa Barbara Research Center), have a total entitlement of 13,750 AF per year (Y). These participants, except La Cumbre Mutual Water Company, Morehart Land Company and Santa Barbara Research Center, have an obligation to exchange their SWP water for Santa Ynez River Conservation District ID No. 1's (ID No. 1) Cachuma Project water on an annual basis. ID No. 1's current Cachuma entitlement is 2,651 AFY. ID No. 1 currently delivers approximately 80 AFY to Cachuma Lake County Park, which reduces the amount available for exchange to approximately 2,571 AFY. This makes the maximum annual amount under normal Cachuma yield conditions to be assessed for the Cachuma Project Trust Fund approximately 11,179 AF. SWP water was first delivered into Lake Cachuma (except for minor testing deliveries) in November 1997. From calendar year (CY) 1997 through CY 2016, a total of 78,163 AF has been delivered. Because the 1990s experienced an extended wet period, SWP water deliveries were modest. Calendar years 2000 through 2004, 2007 through 2010, and 2013 through 2017 saw an increase in SWP water deliveries due to drought conditions. SWP deliveries to the lake, in general, fluctuate according to weather conditions.

CCWA and the Cachuma Project Authority (CPA) created the Warren Act Trust Fund through the 1995 MOU which establishes a two person Trust Fund Committee with one representative from Reclamation and one representative from the CPA. Article 3.c. of the MOU provides that CPA manages and administers the Trust Fund. Management of the Trust Fund and other obligations of CPA were assumed by the Cachuma Operation and Maintenance Board (COMB) when CPA and COMB merged in October 1996 and is further confirmed by COMB Board Resolution No. 249 adopted in 1997. Article 4 of the MOU provides for the creation of a Trust Fund Committee, which

is comprised of one representative each from Reclamation and COMB, and an Advisory Committee comprised of one representative each from the Santa Barbara County Water Agency (Agency), U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, and three additional public members. The Advisory Committee representative from Santa Barbara County is appointed from the Water Agency by the County Board of Supervisors. The Trust Fund Committee is authorized to prepare and implement a Long Term Plan and Annual Work Plans for expenditure of Trust Fund monies for purposes consistent with the MOU. The Advisory Committee participates in discussions held at the Trust Fund Committee meetings but has no vote. CCWA can attend the Trust Fund Committee meetings but has no vote.

The Trust Fund Committee shall only take action by unanimous vote and meetings will be announced with reasonable notice. The Trust Fund Committee determines the use of the funds which shall only be expended consistent with the Long Term (5-Year) Plan and applicable Annual Plan, and approved by the Committee. Expenditures of the Trust Fund revenues as stated in the MOU are limited to the following:

- a. Environmental Restoration - *The restoration of any riparian and other habitat of the Santa Ynez River and its watershed which has been adversely affected by the Cachuma Project facilities, including (without limitation) restoration of habitat of rare, threatened or endangered species, fish habitat or populations, and plant and animal habitat.*
- b. Wastewater Reclamation - *Projects, whether new or existing, which will promote reclamation of wastewater within the service areas of the Cachuma Member Units.*
- c. Water Conservation - *Projects which will promote water conservation within the service areas of the Cachuma Member Units.*
- d. Innovative Water Management Techniques - *Other sound and innovative water management techniques which will benefit the Cachuma Member Units in assuring their water customers a reliable water supply of high quality and reasonable price.*
- e. Cachuma Project Betterment - *Capital outlays (other than routine repair and maintenance) which contribute to improvement of the Cachuma Project facilities, including project betterment for the purposes of safety or public recreation in the Santa Ynez River or on Lake Cachuma or adjacent federally-owned lands.*

Renewal Fund

The Renewal Fund is a requirement of the 1995 Renewal Master Contract (executed in 1996) entered into for water conveyance from the Cachuma Project to the five Cachuma Project Member Units, which are the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District, and the Santa Ynez River Water Conservation District, Improvement District No. 1 (ID No. 1). The Renewal Master Contract requires the payment of \$10 per acre foot of water made available by the Cachuma Project during the water year which runs from October 1st to September 30th. This charge escalates according to the Consumer Price Index with a May 1995 price level base. The Renewal Fund itself is capped at \$257,100, which is related to the current annual operational yield of 25,714 AF, at which yield the indexing is moot. However, at lower yields the indexing may have an effect.

Payments into the Renewal Fund are made prior to the beginning of each water year and are reduced by the prior full CY payments to the Trust Fund. For example in WY2016, the prior calendar year is 2014, because that is the nearest prior full calendar year to WY2016. Payments to the Renewal Fund are reduced *pro rata* based on the formula: 1 minus the ratio of the prior calendar

year Trust Fund payment to \$300,000 ($RF = [1 - \text{prior CY TF payment}/\$300,000] \times \$257,100$). For example, if the prior CY Trust Fund payment was \$225,000, the ratio is 0.75; 1 minus 0.75 is 0.25; 0.25 times \$257,100 is \$64,275, which would be the Renewal Fund payment requirement for that water year. The combined total available funds would be the sum of those two amounts, or \$289,275. When the Trust Fund amount in the CY prior to a Cachuma Project water year is greater than \$300,000, the ratio would be greater than 1; 1 minus that amount is less than zero, so there would be no Renewal Fund payment required. The calculation for a zero Renewal Fund payment has occurred for WY2006, WY2016, WY2018, and WY2019 because the amount of SWP water was significant in those years.

The Cachuma Project 1995 Renewal Master Contract states that the contracting officer (Reclamation) and the Cachuma Member Units shall jointly develop a Long Term (5-year) Plan and an Annual Work Plan. Further in the Contract and COMB Board Resolution No. 249, Reclamation and the Cachuma Project Member Units agreed to merge the processes for implementation and administration of the Cachuma Project Warren Act Trust Fund and the Cachuma Project Master Contract Renewal Fund under a single committee (referred to as the “Funds Committee”) directing the preparation and implementation of Long Term and Annual Work Plans. Resolution No. 249 also allowed the COMB Board to appoint a representative from the Cachuma Member Units to the Funds Committee who would represent the interests of and provide recommendations from the Cachuma Member Units, as well as work with Reclamation’s committee member to develop joint Long Term and Annual Work Plans for the use of both Funds. Governing processes from the Funds Committee would apply to the decisions made for the use of the Renewal Funds, specifically that all uses of those funds are unanimous amongst the two representatives. The Cachuma Project Renewal Master Contract specified that five years after adoption of the first Annual Plan, the Contractor (Santa Barbara County) shall be substituted for the Contracting Officer (Reclamation) for the Renewal Fund discussions; this change in representation began in WY2003 and Santa Barbara County has been the representative since that time. This dictates that the voting members of the Funds Committee are Reclamation, COMB and Santa Barbara County. COMB manages and administers both the Trust Fund and the Renewal Fund accounts as stipulated in the Cachuma Project Renewal Master Contract and COMB Board Resolution No. 249.

Article 27(a) of the Cachuma Project Renewal Master Contract (MCA 27) describes the purposes of Renewal Fund, which include the following:

- a. *Mitigation activities for the selected alternative in the Master Contract Renewal EIS/EIR. No mitigation activities were identified, so this section does not apply.*
- b. *Activities which may be required of the Contracting Officer by State Water Resources Control Board (SWRCB) orders affecting the Project Water Rights.*
- c. *Studies described in sub-article 7 (b) which are specific to conducting and preparing studies and reports that are required to be submitted by Reclamation to the SWRCB pursuant to Board WR94-5 paragraph 3, including fisheries studies and other related studies under the continuing jurisdiction of the SWRCB.*
- d. *Studies relating to modifications in the Cachuma Project operations pursuant to sub-article 9 (g), including to protect the environment and groundwater quality downstream of Bradbury Dam, conserve Project Water, and promote efficient water management.*
- e. *Restoration of riparian or other habitat of the Santa Ynez River and its watershed which has been adversely affected by the Project.*

- f. *Activities of Reclamation pursuant to sub-article 27 (i) that are required by law to be the Contractor, those shall be included in the Long Term Plan and Annual Work Plan and reimbursed by the Renewal Fund.*

Aggregating the purposes of the two separate funds, money is available for three general categories:

1. Environmental studies and projects related to the fisheries and *O. mykiss* habitat enhancement within the Santa Ynez River and its tributaries downstream of Bradbury Dam. This includes Cachuma Project Biological Opinion (BiOp) proposed actions, EIR/EIS mitigation activities, SWRCB orders, and water rights-related studies.
2. Water management and conservation by Cachuma Project members.
3. Cachuma Project betterment to the extent that only the Trust Fund can be used for these certain activities.

Annual and Five-Year Plans

The contractual documents establishing the Trust Fund and Renewal Fund require preparation of an Annual Work Plan and a Five-Year Plan. Reclamation, the County Water Agency, and the Cachuma Project Member Units through COMB agreed to use the Funds Committee and Advisory Committee process for both funds to develop common Annual Work Plan and Five-year plans.

Objectives of the Funds

In past years, there has been general consensus reflected in each of the Annual Work Plan and Five-Year Plan to date, that the Renewal Fund and Trust Fund monies should be used for environmental studies or projects related to the Cachuma Project water rights hearings before the SWRCB and the Lower Santa Ynez River (LSYR) Fisheries Program. These studies, which investigate and document various environmental issues related to the Cachuma Project and the effects downstream in the LSYR, have been required by the SWRCB, or are believed by the parties to be helpful in addressing issues before the SWRCB. The BiOp for Cachuma Project operations, issued by the National Marine Fisheries Service (NMFS) in September 2000, has identified a number of fish programs and enhancement projects, and the SWRCB hearings (occurring in 1999 and late 2003 and the water rights decision forthcoming) will likely identify other studies for which the funds may be used. In addition, Reclamation is in reconsultation with the NMFS for a new Cachuma Project BiOp which will most likely contain a fisheries monitoring program and enhancement projects where the funds could be used. The Funds Committee may authorize revenues from the funds for these tasks pursuant to the Annual and 5-year Plans, or may agree to a broader use of the funds, including other purposes identified in the Cachuma Project Renewal Master Contract, the Cachuma Project BiOp and the LSYR Fish Management Plan (FMP) (2000), or Adaptive Management Committee studies and reports.

Revenue Estimates

Trust Fund revenues from Member Unit State Water Project (SWP) deliveries in CY2017 were \$539,521 based on 12,547 AF delivered, and Renewal Fund revenues derived from operational yield of the Cachuma Project deliveries in WY2019 will be \$0 for total available revenues of \$539,521 (Table 1). These available revenues are anticipated to be fully utilized during the coming Water Year. A historical record since 1995 and projected revenues through WY2023 for both funds are shown in Table 2. Fund amounts through WY2019 are based on the actual prior calendar year

SWP water deliveries; subsequent years' revenues are based on full usage of allotted SWP water deliveries (6,977 AF), thus reaching the Trust fund projected average of \$300,000 (6,977 AF) without any projected revenues from the Renewal Fund. If at the beginning of any water year the combined balance of the Cachuma Project Trust Fund and Renewal Fund is \$600,000 or more, then contributions to the Renewal Fund are not required for such water year. It is important to remember that SWP water orders can be changed on a monthly basis, so the actual amount delivered in any year may be quite different from projected orders. CY1998 is a good example of how orders can change where 3,888 AF of SWP water was ordered but no actual deliveries were made into the lake because Lake Cachuma was spilling through July. Deliveries were not possible after that time because fish releases were being made through the Bradbury Dam Outlet Works due to release constraints under the BiOp. Typically, advance orders will be greater than actual deliveries. The SWP water orders are first subject to an exchange with ID No. 1 as described above. The SWP water delivery amounts shown in Table 1 are in consideration of the ID No. 1 exchange amount. The Cachuma Project Member Units maximum available supply from the Cachuma Project each year is currently 25,714 AFY.

Table 1: Trust Fund and Renewal Fund calculation of contributions and assessments for WY2019.

Table 1: CACHUMA PROJECT TRUST FUND and RENEWAL FUND			
CALCULATION OF CONTRIBUTION AND ASSESSMENTS FOR WATER YEAR 2018-2019			
TRUST FUND (T) (Warren Act) - State Water			
GIVEN:	Q = Acre-Feet of State Water Project Deliveries to Cachuma Reservoir in 2017		
	Q =	12,547	Acre-Feet used in 2017
	T =	Warren Act Trust Fund Contribution = Q x \$43 per Acre-Foot	
THEN:	T =	12,547	x \$43
	T =	\$539,521	
WARREN ACT TRUST FUND REVENUE FOR CALENDAR YEAR 2017			
CCWA PARTICIPANTS		USED	AMOUNT DUE
		(af)	(\$)
GOLETA WATER DISTRICT		4357	\$187,351
CITY OF SANTA BARBARA		2890	\$124,270
CARPINTERIA VALLEY WD		1598	\$68,714
MONTECITO WATER DISTRICT		2945	\$126,635
LA CUMBRE MUTUAL WATER COMPANY		676	\$29,068
MOREHART LAND COMPANY		36	\$1,548
SB RESEARCH CENTER (RAYTHEON)		45	\$1,935
TOTAL		12,547	\$539,521
RENEWAL FUND (R) - Cachuma Water			
GIVEN:	W = Annual Operations Yield of 25,714 af x \$10 =	\$257,140	
	Renewal Fund cap:	\$257,100	
	R = Renewal Fund Contribution = [1 - (T/\$300,000)] x W		
THEN:	R = [1 - (\$539,521/\$300,000)] x \$257,100		
	R =	\$0	
RENEWAL FUND ALLOCATION FOR WATER YEAR 2018 - 2019			
(PAYMENT DUE OCTOBER 1, 2018)			
MEMBER UNIT		COST SHARE*	AMOUNT DUE
		(%)	(\$)
GOLETA WATER DISTRICT		36.25	\$0
CITY OF SANTA BARBARA		32.19	\$0
CARPINTERIA VALLEY WD		10.94	\$0
MONTECITO WATER DISTRICT		10.31	\$0
SANTA YNEZ RWCD ID#1		10.31	\$0
TOTAL		100.00	\$0
* based on Cachuma Entitlement			
TOTAL FUNDS AVAILABLE FOR WATER YEAR 2018-2019:			\$539,521

Table 2: Trust Fund and Renewal Fund revenues based on SWP deliveries and constant Cachuma Project deliveries; the funds were initiated in 1997.

Trust Fund			Renewal Fund			Total Available		Expected Expenditures
Calendar Year	SWP Deliveries (AF)	Funds	Water Year	Cachuma Deliveries (AF)	Funds	Water Year	Funds	Funds
1995	-	\$0	1997	25,714	\$257,100	1997	\$257,100	\$257,100
1996	-	\$0	1998	25,714	\$257,100	1998	\$257,100	\$257,100
1997	1,502	\$64,586	1999	25,714	\$201,750	1999	\$266,336	\$266,336
1998	0	\$0	2000	25,714	\$257,100	2000	\$257,100	\$257,100
1999	505	\$21,715	2001	25,714	\$238,490	2001	\$260,205	\$260,205
2000	2,334	\$100,362	2002	25,714	\$171,090	2002	\$271,452	\$271,452
2001	809	\$34,787	2003	25,714	\$227,288	2003	\$262,075	\$262,075
2002	6,708	\$288,444	2004	25,714	\$9,903	2004	\$298,347	\$298,347
2003	4,568	\$196,424	2005	25,714	\$88,765	2005	\$285,189	\$285,189
2004	8,836	\$379,948	2006	25,714	\$0	2006	\$379,948	\$379,948
2005	506	\$21,758	2007	25,714	\$238,453	2007	\$260,211	\$260,211
2006	759	\$32,637	2008	25,714	\$229,130	2008	\$261,767	\$261,767
2007	6,316	\$271,588	2009	25,714	\$24,349	2009	\$295,937	\$295,937
2008	3,694	\$158,842	2010	25,714	\$120,972	2010	\$279,814	\$279,814
2009	2,537	\$109,091	2011	25,714	\$163,609	2011	\$272,700	\$272,700
2010	1,788	\$76,884	2012	25,714	\$191,210	2012	\$268,094	\$268,094
2011	1,013	\$43,559	2013	25,714	\$219,770	2013	\$263,329	\$263,329
2012	385	\$16,555	2014	25,714	\$242,912	2014	\$259,467	\$259,467
2013	2,638	\$113,434	2015	25,714	\$159,887	2015	\$273,321	\$273,321
2014	13,296	\$571,728	2016	25,714	\$0	2016	\$571,728	\$571,728
2015	5,542	\$238,306	2017	25,714	\$52,872	2017	\$291,178	\$291,178
2016	14,427	\$620,361	2018	25,714	\$0	2018	\$620,361	\$620,361
2017	12,547	\$539,521	2019	25,714	\$0	2019	\$539,521	\$539,521
2018	6,977	\$300,000	2020	25,714	\$0	2020	\$300,000	?
2019	6,977	\$300,000	2021	25,714	\$0	2021	\$300,000	?
2020	6,977	\$300,000	2022	25,714	\$0	2022	\$300,000	?
2021	6,977	\$300,000	2023	25,714	\$0	2023	\$300,000	?
2022	6,977	\$300,000	2024	25,714	\$0	2024	\$300,000	?
2023	6,977	\$300,000	2024	25,714	\$0	2025	\$300,000	?
90,710 CY1997-2017 total SWP Delivered								
Notes:								
- Calendar years 1998 through 2017 show actual State Water deliveries to Cachuma Reservoir; following years are requested deliveries.								
- State Water deliveries are based on calendar year.								
- Cachuma Project deliveries are based on water year (October 1 through September 30).								
- Trust Fund charge is \$43 per AF;								
- Renewal fund charge is \$10 per AF (in 1995 dollars).								
- Renewal Fund is reduced by prior full calendar year Trust Fund revenue, for example, 2002 Renewal Fund amount is reduced by 2000 Trust Fund revenue.								
- Total Available is current year Renewal Fund plus full prior year Cachuma Project Trust Fund (for example, 2002 Trust Fund plus 2004 Renewal Fund).								
- Total Available will be increased by any accrued interest in the fund accounts.								
(Please see Financial Statement attached.)								

Table 3 provides a summary of the activities for which the Trust Fund and Renewal Fund revenues have been used since 1997. See Table 2 for the calculation of annual revenues from each of the two funds. Activities are similar year to year and have focused on meeting the requirements in the BiOp and FMP specifically for the Fisheries Program (monitoring, reporting and public outreach), steelhead enhancement projects (tributary fish passage projects), Oak Tree Restoration Program (oak mitigation effort from surcharging Lake Cachuma), public outreach efforts (webpage, newsletters and brochures), conservation easements (as the opportunity arises), watershed protection (erosion control and wildfire prevention), and Hilton Creek channel enhancements efforts (studies and implementation of identified projects).

Table 3: Use of the Trust Fund and Renewal Fund revenues from 1998 to 2019 by Fiscal Year.

Fiscal Year	<i>Activities:</i>							Total
	Fisheries Program	Steelhead Enhancement Projects	Oak Tree Restoration Program	Public Outreach Efforts	Conservation Easements	Watershed Protection	Hilton Creek Channel Enhancement Efforts	
1998	\$257,100	\$0	\$0	\$0	\$0		\$0	\$257,100
1999	\$257,100	\$0	\$0	\$0	\$0		\$0	\$257,100
2000	\$266,336	\$0	\$0	\$0	\$0		\$0	\$266,336
2001	\$195,100	\$62,000	\$0	\$0	\$0		\$0	\$257,100
2002	\$99,005	\$123,200	\$0	\$0	\$10,000		\$28,000	\$260,205
2003	\$215,452	\$48,000	\$0	\$8,000	\$0		\$0	\$271,452
2004	\$187,075	\$75,000	\$0	\$0	\$0		\$0	\$262,075
2005	\$193,347	\$105,000	\$0	\$0	\$0		\$0	\$298,347
2006	\$263,189	\$0	\$0	\$22,000	\$0		\$0	\$285,189
2007	\$317,948	\$0	\$50,000	\$12,000	\$0		\$0	\$379,948
2008	\$198,211	\$0	\$50,000	\$12,000	\$0		\$0	\$260,211
2009	\$198,267	\$0	\$50,000	\$13,500	\$0		\$0	\$261,767
2010	\$241,437	\$0	\$42,000	\$12,500	\$0		\$0	\$295,937
2011	\$227,314	\$0	\$45,000	\$7,500	\$0		\$0	\$279,814
2012	\$222,700	\$0	\$45,000	\$0	\$0		\$5,000	\$272,700
2013	\$97,094	\$147,000	\$24,000	\$0	\$0		\$0	\$268,094
2014	\$91,329	\$147,000	\$25,000	\$0	\$0		\$0	\$263,329
2015	\$69,467	\$150,000	\$40,000	\$0	\$0		\$0	\$259,467
2016	\$146,728	\$375,000	\$50,000	\$0	\$0		\$0	\$571,728
2017	\$91,178	\$150,000	\$50,000	\$0	\$0		\$0	\$291,178
2018	\$365,361	\$175,000	\$50,000	\$0	\$0	\$30,000	\$0	\$620,361
2019	\$284,521	\$175,000	\$50,000	\$0	\$0	\$30,000	\$0	\$539,521

Milestones

Below are important milestones associated with or having an effect on the LSYR Fisheries Program since the issuance of the 2000 Cachuma Project BiOp. Many of these activities have been partially funded by the Trust and Renewal Funds as well as the County’s Cachuma Betterment Fund.

WY2000 (October 1999 – September 2000)

- December 1999 - Completion of Hilton Creek Water Supply System* and Fish Management Plan Inaugural Ceremony
- April 2000 - Lake Cachuma Spilled
- September 2000 - Steelhead Biological Opinion for Cachuma Project Operations Issued by NMFS

WY2001 (October 2000 – September 2001)

October 2000 - Final LSYR Fish Management Plan
February 2001 - Lake Cachuma Spilled
November 2000 - SWRCB Hearings on Cachuma Project Water Rights Permits (Phase 1)

WY2002 (October 2001 – September 2002)

January 2002 - Completion of Salsipuedes Creek/Highway 1 Fish Passage Enhancement**
June 2002 - Administrative Draft EIR/EIS for Fish Management Plan and Biological Opinion

WY2003 (October 2002 – September 2003)

December 2002 - Cachuma Project Settlement Agreement between CCRB, ID#1, SYRWCD & City of Lompoc
April 2003 - Installation of Variable Depth Intake for Hilton Creek Watering System*
May 2003 - Pre-Hearing Conference for SWRCB Hearings on Cachuma Project Water Rights Permits
June 2003 - Draft EIR/EIS for Fish Management Plan and Biological Opinion
August 2003 - Draft SWRCB EIR on Cachuma Operations

WY2004 (October 2003 – September 2004)

Oct-Nov 2003 - SWRCB Hearings on Cachuma Project Water Rights Permits (Phase 2)
January 2004 - Cachuma Park Boat Launch Ramp Raised to Accommodate 1.8 ft Surcharge
January 2004 - Completion of Salsipuedes Creek/Jalama Road Fish Passage Enhancement*
February 2004 - Completion of El Jaro Creek Streambank Stabilization Projects**
February 2004 - MOU Regarding Surcharge of Lake Cachuma and Protection of Cachuma Park Facilities
March 2004 - Completion of Final EIR/EIS for Fish Management Plan and Biological Opinion
March 2004 - Reclamation ROD for Final EIS for Fish Management Plan and Biological Opinion
April 2004 - Installation of Bradbury Dam Gate Extensions for Cachuma Reservoir Surcharge Project
May 2004 - Revised Cachuma Project Fish Passage Supplementation Program (BiOp Term & Condition)
June 2004 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
August 2004 - Upper Basin Analysis - initiated

WY2005 (October 2004 – September 2005)

November 2004 - COMB Certification of Final EIR for Fish Management Plan and Biological Opinion
November 2004 - Modeling Protocol for Target Flow Monitoring Approved and Implemented
December 2004 - Crawford-Hall Filed CEQA Lawsuit against COMB for Final FMP/BiOp EIR
December 2004 - Flow Capacity Modifications for Hilton Creek Watering System and Installation of Pump*
January 2005 - Lake Cachuma Spilled
March 2005 - Amended MOU Regarding Surcharge of Lake Cachuma and Protection of Park Facilities
April 2005 - Installation of Pumping System for Hilton Creek Watering System*
April 2005 - Surcharge Lake Cachuma by 2.5 feet (~7700 acre feet) for Steelhead Fishery Downstream
July 2005 - Summer 2005 (First) Santa Ynez River Fish Management Plan Newsletter
June 2005 - Completion of Year 1 Cachuma Oak Tree Restoration Program
September 2005 - Senior Resources Scientist Hired for Fisheries Program

WY2006 (October 2005 – September 2006)

October 2005 - Approval Letter from NMFS for Revised Cachuma Project Fish Passage Supplementation Program
November 2005 - Crawford-Hall Filed NEPA Lawsuit against United States for Final FMP/BiOp EIS
November 2005 - Fall 2005 Santa Ynez River Fish Management Plan Newsletter
December 2005 - Construction of Hilton Creek Cascade/Chute Fish Passage Enhancement (Reclamation Project) **
January 2006 - Completion of Year 2 Oak Tree Restoration Program – (375 oak trees planted)
February 2006 - Conducted passage supplementation during two storms
February 2006 - Distribution of Fish Projects Brochure

Feb-April 2006 - Supplemental Passage Flow Releases (from 2005 surcharge)
April 2006 - Lake Cachuma Spilled
April 2006 - Interim Agreement with County to Surcharge Lake Cachuma up to 3.0 feet
June 2006 - Preliminary Redesign of Quiota Creek Fish Passage Projects
July 2006 - Summer 2006 Santa Ynez River Fish Management Plan Newsletter
May 2006 - Preliminary Design of El Jaro San Julian Fish Passage
Sept 2006 - Preliminary Design of El Jaro Cross Creek Fish Passage

WY2007 (October 2006 – September 2007)

October 2006 - Development of GIS for Santa Ynez River Fisheries Program
January 2007 - Winter 2007 Santa Ynez River Fish Management Plan Newsletter
January 2007 - Completion of Year 3 Cachuma Oak Tree Restoration Program (375 oak trees planted)
February 2007 - Winter 2007 Santa Ynez River Fish Management Plan Newsletter
March-April 2007 - Crawford-Hall Petition to Add Caltrans to CEQA Lawsuit Against COMB for Final FMP/BiOp EIR and Hearing on Petition (unsuccessful – petition denied)
May 2007 - Completion of Quiota Creek Watershed Draft Report
June 2007 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
July 2007 - SWRCB Revised Draft EIR on Cachuma Operation
September 2007 - Preliminary Design of El Jaro Cross Creek Fish Passage
September 2007 - Completion of Various AMC Reports to meet BiOp Terms & Conditions

WY2008 (October 2007 – September 2008)

December 2007 - Submitted to NMFS the 2006 Fish Passage Supplementation Report
December 2007 - Final Design of El Jaro San Julian Fish Passage
January 2008 - Completion of Year 4 Cachuma Oak Tree Restoration Program (375 oak trees planted)
January 2008 - Lake Cachuma Spilled
March 2008 - Draft Ramp-Down after Spill Protocol
April 2008 - Agreement with County to Surcharge Lake Cachuma up to 3.0 feet
June 2008 - Summer 2008 LSYR Fish Management Plan Newsletter
July 2008 - Construction of El Jaro San Julian Fish Passage Project**
August 2008 - NMFS Draft Recovery Plan Outline for Southern Steelhead
August 2008 - Completion of the Santa Ynez River Genetics Analysis (NOAA Research Lab at UCSC)
September 2008 - Draft Resource Management Plan EIS for Cachuma Recreation Area

WY2009 (October 2008 – September 2009)

March 2009 - Completion of El Jaro San Julian Fish Passage Project**
October 2008 - Construction of the Quiota Creek Fish Passage Bottomless Arched-Culvert at Crossing 6**
December 2008 - Completion of Draft 1993-2004 Santa Ynez River Fisheries Synthesis Report
January 2009 - Completion of Year 5 Cachuma Oak Tree Restoration Program (375 oak trees planted)
February 2009 - Completion of Management Report for Santa Ynez River Genetics Analysis
March 2009 - Completion of El Jaro San Julian Fish Passage Project**
March 2009 - Completion of the Quiota Creek Fish Passage Bottomless Arched-Culvert at Crossing 6**
August 2009 - Construction of Cross Creek Ranch Fish Passage Enhancement Project on El Jaro Creek
August 2009 - Negotiations of Conservation Easements on Salsipuedes and El Jaro Creeks
September 2009 - Completion of Various AMC Reports to meet BiOp Terms & Conditions

WY2010 (October 2009 – September 2010)

November 2009 - Completion of Cross Creek Ranch Fish Passage Enhancement Project on El Jaro Creek**
January 2010 - Completion of Year 6 Cachuma Oak Tree Restoration Program (375 oak trees planted)
February 2010 - Conducted passage supplementation during two storms
April 2010 - Completion of the Surcharge Operations Protocol
June 2010 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)

May 2010 - Completion of the 1.5 cfs Target Flow Operations Guidelines at Alisal Bridge
June 2010 - Submitted to NMFS the 2010 Fish Passage Supplementation Report

WY2011 (October 2010 – September 2011)

January 2011 - Completion of Year 7 of Cachuma Oak Tree Restoration Program (375 oak trees planted)
January 2011 - Submitted to NMFS the BiOp Compliance Binder
March 2011 - Winter 2011 LSYR Fish Management Plan Newsletter
March 2011 - Lake Cachuma Spilled
May 2011 - Submittal of the 2008 Annual Monitoring Report and Trend Analysis for 2005-2008
June 2011 - Completion of the Hilton Creek Channel Enhancement Study
June 2011 - Submitted Compliance Report on Target Flows at Hwy 154 Bridge
August 2011 - Summer 2011 LSYR Fish Management Plan Newsletter
August 2011 - Construction of a Fish Passage Project at Crossing 2 on Quiota Creek**

WY2012 (October 2011 – September 2012)

Oct-Dec 2011 - Maintenance of the Cachuma Oak Tree Restoration Program
Jan-Sept 2012 - Maintenance of the Cachuma Oak Tree Restoration Program
November 2011 - Completion of a Fish Passage Project at Crossing 2 on Quiota Creek**
March 2012 - Submittal of the 2009 Annual Monitoring Report
May 2012 - Submitted Compliance Report on Target Flows at Hwy 154 Bridge
June 2012 - Submitted Guidance Document on Target Flows at Alisal Bridge
September 2012 - Construction of a Fish Passage Project at Crossing 7 on Quiota Creek**

WY2013 (October 2012 – September 2013)

Oct-Dec 2012 - Maintenance of the Cachuma Oak Tree Restoration Program
Jan-Sept 2013 - Maintenance of the Cachuma Oak Tree Restoration Program
November 2012 - Completion of a Fish Passage Project at Crossing 7 on Quiota Creek**
March 2013 - Preliminary Design of Quiota Creek Crossing 0 Project
March 2013 - Preliminary Design of Quiota Creek Crossing 3 Project
June 2013 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
Sept-Dec 2013- Construction of a Fish Passage Project at Crossing 1 on Quiota Creek**
June 2013 - Submittal of the 2011 Annual Monitoring Report (sent to NMFS 3/20/14)

WY2014 (October 2013 – September 2014)

Oct-Dec 2013 - Maintenance of the Cachuma Oak Tree Restoration Program
Jan-Sept 2014 - Maintenance of the Cachuma Oak Tree Restoration Program
December 2013 - Completion of a Fish Passage Project at Crossing 1 on Quiota Creek**
March 2014 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 0 Project
March 2014 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 3 Project
June 2014 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)

WY2015 (October 2014 – September 2015)

Oct-Dec 2014 - Maintenance of the Cachuma Oak Tree Restoration Program
Jan-Sept 2015 - Maintenance of the Cachuma Oak Tree Restoration Program
March 2015 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 4 Project
June 2015 - Submittal of the 2012 Annual Monitoring Report for review
June 2015 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
September 2015 - Construction of a Fish Passage Project at Crossing 3 on Quiota Creek**

WY2016 (October 2015 – September 2016)

Oct-Dec 2015 - Maintenance of the Cachuma Oak Tree Restoration Program
Jan-Sept 2016 - Maintenance of the Cachuma Oak Tree Restoration Program

January 2016 - Completion of a Fish Passage Project at Crossing 3 on Quiota Creek
February 2016 - Submittal of the 2012 Annual Monitoring Report to NMFS
March 2016 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 5 Project
April 2016 - Submittal of the 2013 Annual Monitoring Report for review
June 2016 - Submittal of CalTrans Grant for Quiota Creek Crossing 8 Project
June 2016 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
September 2016 - Construction of a Fish Passage Project at Crossing 0 on Quiota Creek**
September 2016 - Construction of a Fish Passage Project at Crossing 4 on Quiota Creek**

WY2017 (October 2016 – September 2017)

Oct-Dec 2016 - Maintenance of the Cachuma Oak Tree Restoration Program
Jan-Sept 2017 - Maintenance of the Cachuma Oak Tree Restoration Program
December 2016 - Completion of a Fish Passage Project at Crossing 0A on Quiota Creek
December 2016 - Completion of a Fish Passage Project at Crossing 4 on Quiota Creek
May 2017 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 9 Project
June 2017 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
September 2017 - Submittal of the 2014 Annual Monitoring Report for review

WY2018 (October 2017 – September 2018) (dates after March are projected)

Oct-Dec 2017 - Maintenance of the Cachuma Oak Tree Restoration Program
Jan-Sept 2018 - Maintenance of the Cachuma Oak Tree Restoration Program
February 2018 – Hilton Creek gravel augmentation, completion of first of two years
March 2017 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 8 Project
April 2018 - Submittal of the 2014 Annual Monitoring Report to NMFS
May 2018 - Submittal of the 2015 Annual Monitoring Report for review
June 2018 - Submittal of the 2016 Annual Monitoring Report for review
June 2018 - Submittal of the 2017 Annual Monitoring Report for review
June 2018 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)
July 2018 - Submittal of the 2015, 2016 and 2017 Annual Monitoring Reports to NMFS
August 2018 - Construction of a Fish Passage Project at Crossing 5 on Quiota Creek**
September 2018 - Construction of a Fish Passage Project at Crossing 9 on Quiota Creek**

* Funded from Federal Safety of Dams Program for Bradbury Dam Seismic Retrofit.

** Full or partial grants were/are in place for these projects.

FIVE YEAR PLAN WY2019 TO WY2023

The Funds Committee, with suggestions from the Advisory Committee, develops a long-term or Five-Year Plan for use of the revenues from both the Trust Fund and Renewal Fund. The Five-Year Plan (Table 4) is a dynamic document that is updated every year to reflect revised projected work as projects and monitoring efforts are added that directly benefit the Cachuma Project, the LSYR Fisheries Program, and other obligations of the Cachuma Member Units on behalf of Reclamation. These projected activities are called for in the Cachuma Project Biological Opinion (BiOp) and further described in the LSYR Fish Management Plan (FMP). Projected annual revenues are calculated based on environmental fees charged for Cachuma and State water deliveries into Lake Cachuma, and have historically ranged from a minimum of \$257,100 to a maximum of \$620,361. The Five-Year Plan should be a long-term, forward thinking, planning tool to coordinate the use of Trust and Renewal fund revenues, LSYR Fisheries Program budgets, and grant income.

Table 4 summarizes activities and expenditures based on actual revenues from WY2017 and projected revenues and expenses for WY2019-WY2023. The Oak Tree Restoration Program (at Lake Cachuma) was calculated using the estimated fund amount for that task. The estimated amount for Quiota Creek Fish Passage Projects was determined using the estimated construction cost for the Crossing 5 and Crossing 9 projects as well as the estimated design cost in preparation for construction or submitting grant applications for the Quiota Creek Crossing 8 project; all of these expenditures are / will be part of matching funds for State and/or Federal grants that fund the majority of the construction costs of the project. Any remaining costs are funded by the Cachuma Member Units and grant funding. A big concern is watershed protection (erosion control and fire prevention) across the entire Santa Ynez River watershed which is of particular concern for the *O. mykiss* fishery below and above Lake Cachuma and water supply in general. Fisheries Program activities were calculated based on whatever fund amount remained, and reflects only a portion of the entire annual cost for those efforts.

Year 1 activities are developed in more detail in the WY2019 Annual Plan (Table 7) below because these are specifically included in the COMB budget for Fiscal Year 2018-19 (July 1, 2018 through June 30, 2019). In Years 1 and 2 (WY2019 and WY2020), the Oak Tree Restoration program will continue maintenance of the trees planted during the previous 10 years, and will be planting additional oak trees in the late fall of each year. There are tributary restoration projects on Quiota Creek and the Fisheries Program will continue with the longstanding monitoring, analysis, reporting and outreach efforts. Watershed protection across the Santa Ynez River basin will also be addressed. Any funds not used in the Oak Tree Restoration Program or the Quiota Creek Fish Passage Projects will revert to the Fisheries Program. During the remaining years (WY2021-WY2023), a similar level of effort for the Oak Tree Restoration and Fisheries Programs is included, as well as one fish passage project on Quiota Creek or a fish passage project that has yet to be determined. Some of these fish passage projects are listed in the 2000 BiOp as proposed actions and others are voluntary (or local) actions (all non-BiOp projects). Table 5 lists planned but unfunded tributary restoration projects plus estimated costs for the Quiota Creek fish passage projects that should to be constructed over the next five years in compliance with the 2000 BiOp, as well as the planned Jalama Bridge weir fix slated for WY2020. The estimated costs for the Fisheries Program, tributary projects, and the Oak Tree Restoration Program in relation to the use of the Trust and Renewal Funds are presented in Table 6. As noted previously, the allocated revenues from the Trust Fund and Renewal Fund cover only a portion of the total estimated cost of those items as is presented in Tables 5 and 6.

Table 4: The Five-Year Plan (WY2019-2023).

Year 1: WY2019 (October 2018 - September 2019)		
Estimated Funds Available:		\$539,521
Possible Expenditures:		
Oak Tree Restoration Program		\$50,000
Quiota Creek Fish Passage Projects**		\$175,000
Genetic Analyses of LS YR <i>O. Mykiss</i> Tissue Samples		\$15,000
Watershed Protection		\$30,000
Fisheries Program Work - general		\$269,521
		\$539,521
Year 2: WY2020 (October 2019 - September 2020)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Oak Tree Restoration Program		\$50,000
Quiota Creek Fish Passage Projects**		\$75,000
Genetic Analyses of LS YR <i>O. Mykiss</i> Tissue Samples		\$15,000
Watershed Protection		\$30,000
Fisheries Program Work - general		\$130,000
		\$300,000
Year 3: WY2021 (October 2020 - September 2021)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Oak Tree Restoration Program		\$40,000
Fish Passage Projects (to be determined, TBD)**		\$100,000
Genetic Analyses of LS YR <i>O. Mykiss</i> Tissue Samples		\$15,000
Watershed Protection		\$30,000
Fisheries Program Work - general		\$115,000
		\$300,000
Year 4: WY2022 (October 2021 - September 2022)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Oak Tree Restoration Program		\$40,000
Quiota Creek Fish Passage Projects**		\$100,000
Genetic Analyses of LS YR <i>O. Mykiss</i> Tissue Samples		\$15,000
Watershed Protection		\$30,000
Hilton Creek Channel Enhancement		\$115,000
		\$300,000
Year 5: WY2023 (October 2022 - September 2023)		
Estimated Funds Available:		\$300,000
Possible Expenditures:		
Oak Tree Restoration Program		\$40,000
Fish Passage Projects (TBD)**		\$150,000
Genetic Analyses of LS YR <i>O. Mykiss</i> Tissue Samples		\$15,000
Hilton Creek Channel Enhancement		\$95,000
		\$300,000
* Estimated available carryover funds from the previous water year - \$0.		
** For project operating expenses, construction match, and design and technical support.		

Table 5: Estimated costs and construction dates for tributary fish passage projects where some are 2000 BiOp listed projects and others are local actions.

Tributary Projects	Estimated:	
	Construction Date	Cost
Quiota Creek Projects designs	WY2019	\$100,000
Quiota Creek Crossing 5	WY2019	\$960,000
Quiota Creek Crossing 8	WY2020	\$1,085,996
Jalama Bridge Weir Fix	WY2020	\$30,000
Quiota Creek Crossing 9	WY2019	\$1,015,000
Fish Passage Project (TBD)*	WY2021	\$940,000
Quiota Creek Crossing 0B	WY2022	\$840,000
Fish Passage Project (TBD)*	WY2023	\$810,000

* These project cost estimates only include the fish passage components of the project.

Table 6: Estimated future costs for the Fisheries Program, Tributary Projects (Santa Ynez River watershed) and the ongoing Oak Tree Restoration Program from WY2019 through WY2023 in relation to the use of the Trust and Renewal fund estimated revenues.

Water Year	Estimated Program Costs:				Total
	Fisheries	Tributary Projects	Oak Tree Restoration	Watershed Protection	
WY2019	\$284,521	\$175,000	\$50,000	\$30,000	\$539,521
WY2020	\$145,000	\$75,000	\$50,000	\$30,000	\$300,000
WY2021	\$130,000	\$75,000	\$40,000	\$30,000	\$275,000
WY2022	\$130,000	\$100,000	\$40,000	\$30,000	\$300,000
WY2023	\$110,000	\$150,000	\$40,000	\$0	\$300,000

**ANNUAL PLAN
WY2019**

Table 7 lists the activities in the WY2018 Annual Plan that will be funded through the Trust Fund and Renewal Fund revenues. The 2000 Cachuma Project Biological Opinion (BiOp) and associated LSYR Fish Management Plan (FMP) provide guidance on likely activities or projects for the use of the Trust Fund and Renewal Fund revenues. Even though some of the fish enhancement projects will be grant funded, the sum of these activities is still greater than the funding available from the Trust Fund and Renewal Fund. Tasks listed take into consideration restricted usage of the two Funds as stated in the Cachuma Project Warren Act Contract and Cachuma Project Renewal Master Contract, plus activities funded by the Santa Barbara County Water Agency Cachuma Betterment Fund. The Trust and Renewal Funds may also provide matching funds for other sources of money to fund the fish passage enhancement projects through grants. All fish passage projects listed in Table 7 are either 2000 BiOp proposed action projects, local action projects, or listed projects in the draft 2013 Biological Assessment that are anticipated to be included in the new BiOp upon its release. All general Fisheries Program work includes required current BiOp/FMP monitoring, analyses and reporting.

Table 7: The Annual Plan for WY2019.

2018 Revenues:	
Trust Fund (CY2017)	\$539,521
Renewal Fund (WY2019)	\$0
Total Funds Available:	\$539,521
Fiscal Year 2018 Expenditures for the Cachuma Project BO & FMP:	
Oak Tree Restoration Program	\$50,000
Quiota Creek Fish Passage Projects (X-5, X-8, X-9)	\$175,000
Genetic Analyses of LSYR <i>O. Mykiss</i> Tissue Samples	\$15,000
Watershed Protection	\$30,000
Fisheries Program Work - general	\$269,521
Total Expenditures:	\$539,521

The Oak Tree Restoration Program is a multi-year planting and maintenance effort to replace oak tree losses around Cachuma Reservoir due to saturation and inundation of trees near the shore resulting from the fish conservation surcharge pool. The program will continue until the mitigation ratio of 2:1 (planted to lost) has been accomplished after 20 years in 2025. The allocation for the Oak Tree Restoration Program is about half of the actual cost. Funds for the tributary project (construction, designs, and technical support) on Quiota Creek are only a fraction of the total cost of those restoration projects planned to initiate construction WY2019 onward.

Six tributary fish passage projects on Quiota Creek are required to be completed by Reclamation per the 2000 BiOp. Three additional Quiota Creek projects were expected to be constructed by others, and all nine projects are described in the FMP and 2004 Cachuma Project EIR/EIS. Seven Quiota Creek projects have been completed to date; Crossing 6 in 2008, Crossing 2 in 2011, Crossing 7 in 2012, Crossing 1 in 2013, Crossing 3 in 2015, Crossing 0A in 2016, and Crossing 4 in 2016. Grants have been secured for Crossing 5 and Crossing 9 projects with an estimated construction schedule

for the fall of WY2019. A grant has been submitted for Quiota Creek Crossing 8 that would be estimated for construction in WY2020. Grants will continue to be applied for every year until all projects are completed. The type of fix proposed for the fish passage impediments is a full span bridge (bottomless arched culvert) that allows for complete juvenile and adult fish passage for *O. mykiss*. The estimated amount for the fish passage projects was determined by using the COMB project expenses, the COMB construction match, and a portion of the estimated cost for design and technical support.

Wild fires are a continuous concern throughout the Santa Ynez River watershed and along the South Coast. Funds have been dedicated to watershed protection (erosion control and fire prevention). Tasks include but are not limited to prevention of erosion, facility protection from stormflow debris, forest fuel reduction and road side clearing. This is a new effort that will be of benefit to the *O. mykiss* fishery within the management area as well as water supply.

The Fisheries Program encompasses a wide range of field and analytical activities to comply with the 15 Reasonable and Prudent Measures outlined in the 2000 Cachuma Project BiOp and the monitoring plan described in the 2000 Biological Assessment and FMP. These efforts include monitoring steelhead migration throughout the LSYR basin, dry-season snorkel surveys, redd surveys, habitat mapping, water quality monitoring, GIS database development, beaver dam monitoring, stream discharge measurements, integrated multivariate database development, report writing, and public outreach both locally and at professional fisheries meetings. The estimated total expenditures listed in Table 7 for these items was simply the remainder of the Trust Fund and Renewal Fund revenues after subtracting the allocated expenses from the Oak Tree Restoration Program spread across several required compliance tasks. These funds will be specifically used for: design work for pending Fish Passage Projects; required tributary project maintenance, monitoring and reporting; and genetic analyses of LSYR *O. mykiss* tissue samples. Any funds not used in the Oak Tree Restoration Program or the Quiota Creek Fish Passage Projects will revert to the Fisheries Program.

BETTERMENT FUND

For reference only, the Santa Barbara Water Agency shall provide \$100,000 per year into the Cachuma Betterment Fund that must be used for Cachuma Project related activities as specified in the 1996 Cachuma Project Member Unit Contracts between the County of Santa Barbara Water Agency and the Cachuma Project Member Units. The Cachuma Project Member Units and the Water Agency must mutually agree on the use of these funds. Representatives of the Betterment Fund convene an annual meeting not in association with the Trust and Renewal Funds annual meeting. Usage of the Betterment Funds since WY2012 and proposed usage in WY2019 are presented in Table 8. COMB has an annual contract with the U. S. Geological Survey (USGS) to perform the required stream gauging and water quality monitoring.

Table 8: Betterment Fund usage since Santa Barbara County Fiscal Year (FY) 2012 (7/1/11-6/30/12) and proposed usage in FY2019 (7/1/18-6/30/19).

FY2012 (July 2011 - June 2012)		
Carryover from WY2011:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>
FY2013 (July 2012 - June 2013)		
Carryover from WY2012:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>
FY2014 (July 2013 - June 2014)		
Carryover from WY2013:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>
FY2015 (July 2014 - June 2015)		
Carryover from WY2014:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>

FY2016 (July 2015 - June 2016)		
Carryover from WY2015:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>
FY2017 (July 2016 - June 2017)		
Carryover from WY2016:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>
FY2018 (July 2017 - June 2018)		
Carryover from WY2017:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>
FY2019 (July 2018 - June 2019)		
Carryover from WY2018:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<i>\$100,000</i>



Santa Barbara County Public Works Department

Flood Control ♦ Water Agency ♦ Project Clean Water

130 E. Victoria Street, Suite 200, Santa Barbara, CA 93101

PH (805) 568-3440 FAX (805) 568-3434

<http://cosb.countyofsb.org/pwd/water>

SCOTT D. MCGOLPIN

Director

THOMAS D. FAYRAM

Deputy Director

DATE: March 14, 2018

TO: Interested Parties

FROM: Fray A. Crease, Water Agency Manager

RE: Notice of Public Workshop, Uses of Fiscal Year 2018-19 Cachuma Project Allocation

A public workshop to discuss expenditure of \$100,000 during fiscal year 2018-19 pursuant to Cachuma Member Unit Contracts will be held:

Thursday, April, 5, 2018, 10:00 AM at

Cachuma Operation and Maintenance Board

3301 Laurel Canyon Road

Santa Barbara, CA 93105

If you are unable to attend the workshop, you are welcome to provide written comments to:

Santa Barbara County Water Agency

130 E. Victoria St., Suite 200

Santa Barbara, CA 93101

Attn.: Fray A. Crease

Background and Discussion

Contracts between the County Water Agency and the Cachuma Member Units (approved in 1996) include a provision that states "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." As part of the original Member Unit Contracts, the Water Agency had provided \$100,000 per year for 40 years toward the cost of water purchases from the project by the Member Units.

During development of the renewed contracts, the Agency and the Member Units agreed to expand the potential uses of this \$100,000 per year so as to include a wide range of planning activities and potential projects in the Santa Ynez River watershed and within the Cachuma Project service area. Decisions relating to expenditures of these funds require concurrence by both the Agency and the Cachuma Member Units.

Currently several resource evaluations are underway in the Santa Ynez River basin. They include: 1) steelhead/rainbow trout studies pursuant to implementation of the Cachuma Project Biological Opinion (September, 2000) and the Lower Santa Ynez Fish Management Plan (October, 2000); and 2) groundwater and surface-water flow and quality monitoring pursuant to several cooperative agreements among local agencies and the United States Geological Survey.

The Agency spends approximately \$150,000 per year in these interagency studies. The Cachuma Member Units currently expend roughly \$900,000 per year on fisheries activities as well as an estimated \$100,000 per year on stream flow and water quality monitoring in the Santa Ynez River. Water Agency staff will consider information received in this workshop during development of budget recommendations to the Water Agency Board of Directors. Further information regarding any of these studies may be obtained from the Agency.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 21, 2018
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Resolution No. 662 - Fish Passage Improvement Project(s) at Quiota Creek Crossings 5 and 9

SUMMARY:

The Quiota Creek Crossing 5 and Crossing 9 Project(s) were publicly distributed for open competitive bidding on May 1, 2018 and are considered as one project with two sub-projects (Crossing 5 and Crossing 9). A required Pre-Bid Site Visit was conducted on 5/8/18 where four contractors participated (Sunquest General, Bosco Contractors, Specialty Construction, and Peter Lapidus Construction). Bids were due on Tuesday, May 15, 2018 at 9:00 AM and were reviewed and scored on Wednesday, May 16, 2018 by engineering staff from Montecito Water District and Carpinteria Valley Water District. Through the competitive bidding and review process, the lowest responsive responsible bidder was selected and will be recommended for COMB Board consideration during the May 21, 2018 COMB Board meeting. Construction is estimated to take two to three months for each project. Permits require that all instream work be completed by October 31st and that the project in its entirety is completed by December 1, 2018.

The following are descriptions of each sub-project.

Quiota Creek Crossing 5

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 is being designed to the minimum design standards set by all regulatory agencies. The bridge has already been fabricated by ConTech as requested and is being stored at the fabricators at no cost to COMB in Wasco, CA. Final design approvals from Santa Barbara County (County) and California Department of Fish and Wildlife (CDFW) in representation of the National Marine Fisheries Service (NMFS) have been received and all permits have been obtained. All funding for this project has been secured from a CDFW-FRGP grant (\$893,287) and a COMB construction match (\$50,000). The funding and project were accepted through Resolution No. 633 by the COMB Board on June 26, 2017 (the grant funding was accepted through Resolution 632 on May 22, 2017). Final design approval and the Notice to Proceed (NTP) from CDFW-NMFS have been obtained. COMB's resident engineer for the project will be Gino Filippin of Filippin Engineering who has been approved by the County. The temporary construction Right-of-Entry Agreements from the two landowners within the project boundary have been obtained.

The expenditure and sole source justification for the ConTech prefabricated bottomless arched culvert system (plus delivery costs) were approved by the Board on June 26, 2017.

Quiota Creek Crossing 9

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 is being designed to the minimum design standards set by all regulatory agencies. Pending final design approval by Santa Barbara County (County) and CDFW-NMFS, the project will begin in September and be completed in December of 2018. Drawings have been submitted to NMFS-CDFW and the County. All funding for this project has been

secured from a CDFW- FRGP grant (\$993,121) and a COMB construction match (\$50,000). The funding and project were accepted through Resolution No. 661 by the COMB Board on April 23, 2018 (the grant funding was accepted through Resolution 658 on February 26, 2018). Final design approval and the Notice to Proceed (NTP) from CDFW-NMFS will be obtained by the end of summer, 2018. Design approval from the County is expected by the end of the summer and full payment of the County Encroachment Permit Fee will be needed before their permit can be issued. Applications have been submitted for all project permits and are all expected by the end of the summer, 2018. COMB's resident engineer for the project will be Gino Filippin of Filippin Engineering who has been approved by the County. The temporary construction Right-of-Entry Agreements from the landowners within the project boundary have been obtained.

The quote for the ConTech prefabricated bottomless arched culvert (arch) system plus delivery is \$267,182.83 (tax not included) (Exhibit 2). Justification for sole sourcing the bottomless arch system purchase to ConTech is provided (Exhibit 3). The County Encroachment Permit fee of \$30,303 (Exhibit 4) needs to be paid prior to issuance of that permit.

FINANCIAL IMPACT:

Quiota Creek Crossing 5

COMB is obligated to \$66,196 for staff time (COMB services) and \$42,630 for operations expenses (independent design review, all permit fees, etc.). The draft COMB budget provided \$930,000 for construction and \$30,000 for design of the project for this fiscal year. There is a secured \$50,000 construction cost match from COMB. Revenues will cover the costs to purchase the ConTech arch system, construction of the project, and operating expenses. Warren Act Trust Fund revenues are also reflected at an estimated \$36,604 for FY 2017-18 and \$52,500 for FY 2018-19. A summary of the project costs are outlined below:

	FY 2017-19
Estimated Construction Cost	
Construction Estimate (*)	\$ 836,162
Project Management and Oversight	66,196
Operating Expenses	99,755
Sub Total:	\$ 1,002,113
Available Funding	
CDFW Grant (Operating and Construction)	\$ 893,287
Warren Act Trust Fund FY 2017-18	36,604
Warren Act Trust Fund FY 2018-19	52,500
Sub Total:	\$ 982,391
Balance to be Funded by Member Agencies	\$ 19,722
(*) Includes ConTech Invoice for Bridge System.	

Quiota Creek Crossing 9

COMB is obligated to a \$50,000 construction match, \$66,879 for staff time (COMB services), and \$43,059 for operations expenses (independent design review, all permit fees, etc.). The draft COMB budget provides \$1,085,996 for construction and \$30,000 for design of the project for this fiscal year. Revenues will cover the costs to purchase the ConTech arch system, construction of the project, and operating expenses. Trust Fund and Renewal Fund revenues are also reflected at \$70,000 for FY 2017-18 and \$122,500 for FY 2018-19. A summary of the project costs are provided below:

	FY 2017-19
Estimated Construction Cost	
Construction Estimate (*)	\$ 1,035,996
Project Management and Oversight	66,879
Operating Expenses	100,184
Sub Total:	\$ 1,203,059
Available Funding	
CDFW Grant (Operating and Construction)	\$ 993,121
Warren Act Trust Fund FY 2017-18	70,000
Warren Act Trust Fund FY 2018-19	122,500
Sub Total:	\$ 1,185,621
Balance to be Funded by Member Agencies	\$ 17,438
(*) Includes ConTech Invoice for Bridge System	

A summary of ongoing project (Crossing 5 and Crossing 9) financials will be presented separately in a monthly memo in the COMB Board packet.

Construction Contractor

The lowest responsive responsible bidder was identified by the two engineers reviewing the bids. The lowest responsive responsible bidding contractor is Peter Lapidus Construction at \$649,950 for the Quiota Creek Crossing 5 Project and \$709,600 for the Quiota Creek Crossing 9 Project for a total bid of \$1,359,550.

LEGAL CONCURRENCE:

All documents have been or will be reviewed by COMB legal counsel.

ENVIRONMENTAL COMPLIANCE:

All conditions outlined in the permits for the project(s) will be followed.

COMMITTEE STATUS:

On May 17, 2018, the Fisheries Committee reviewed the Quiota Creek Crossing 5 and Crossing 9 Fish Passage Improvement Project(s) and forwards the ConTech Engineered Solutions Proposal for Crossing 9, the Santa Barbara County encroachment permit invoice for Crossing 9, and the results of the competitive bidding for execution of a construction contract for the Crossing 5 and Crossing 9 Project(s) to the Board with a recommendation to approve.

RECOMMENDATION:

The Board approve:

Action Item 6.i: Authorization of the General Manager to execute a purchase order agreement for the prefabricated ConTech Engineered Solutions bottomless arched culvert product for Crossing 9 (Exhibit 2), as proposed.

Action Item 6.ii: Authorization for the General Manager to pay the Santa Barbara County Encroachment Permit fee (Exhibit 4) as quoted.

Action Item 6.iii: Authorization for the General Manager, through Resolution No. 662, to issue a notice of award and execute a construction contract for Quiota Creek Crossing 5 and Crossing 9 Project(s) with the lowest responsive and responsible bidder, Peter Lapidus Construction, in an amount not to exceed \$649,950 for Quiota Creek Crossing 5 and \$709,600 for Quiota Creek Crossing 9 for a total amount of \$1,359,550.

LIST OF EXHIBITS:

1. Resolution No. 662
2. ConTech Engineered Solutions Quotation for the purchase of the prefabricated bottomless arched culvert at Crossing 9.
3. Non-Competitive Bid Contract justification for the purchase of the ConTech product for Crossing 9, as proposed.
4. Invoice for the Santa Barbara County Encroachment Permit fee assessed for the project.

RESOLUTION NO. 662

RESOLUTION OF THE GOVERNING BOARD OF THE CACHUMA OPERATION & MAINTENANCE BOARD APPROVING ISSUANCE OF A NOTICE OF AWARD AND AUTHORIZING CONTRACT EXECUTION WITH PETER LAPIDUS CONSTRUCTION, INC. FOR CONSTRUCTION OF THE FISH PASSAGE IMPROVEMENT PROJECT AT QUIOTA CREEK CROSSINGS 5 AND 9

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, the Carpinteria Valley Water District (collectively herein the “South Coast Member Agencies”), and the Santa Ynez River Water Conservation District, Improvement District No. 1 (“ID No. 1”); and

WHEREAS, in August, 1997, the National Marine Fisheries Service (“NMFS”) listed anadromous steelhead (“Steelhead”) in the Southern California Evolutionarily Significant Unit, including the Santa Ynez River downstream of Bradbury Dam, as an endangered species under the federal Endangered Species Act, and completed and issued on September 11, 2000, a Biological Opinion relative to Cachuma Project operations as they relate to steelhead; and

WHEREAS, COMB is committed to implement and cooperate in operations and other management actions designed to protect and enhance habitat conditions for steelhead in the Santa Ynez River and its tributaries downstream of Bradbury Dam; and

WHEREAS, the fish passage improvements at Crossing Number 5 on Quiota Creek, a tributary to the Lower Santa Ynez River, will provide improved access to the perennial reaches of Quiota Creek and restore habitat to enhance conditions for steelhead (“Project No. 5”). Project No. 5 will replace an existing “at-grade” Arizona-type concrete crossing with a 59-foot prefabricated concrete bottom-less arched culvert (or bridge), which will remain owned, operated and maintained by the County of Santa Barbara. The new bridge system will consist of an internal span of 59 feet and rise approximately 12 feet. A single 18-foot wide lane road surface will be constructed over the top of the arch of the bridge connecting to the existing County road surface; and

WHEREAS, COMB estimates that the total expenditures for Project No. 5 would be approximately One Million Two Thousand One Hundred Thirteen Dollars (\$1,002,113), which would include a significant amount of state grant funding, along with Warren Act funding, assessments to Member Agencies and a construction match of \$50,000; and

WHEREAS, in 2017, COMB was awarded Eight Hundred Ninety-Three Thousand Two Hundred Eighty-Seven Dollars (\$893,287) in California Department of Fish and Wildlife

("CDFW")-Fisheries Restoration Grant Program ("FRGP") funding ("Grant No. 5") for Project No. 5, for a net expenditure of approximately \$108,826; and

WHEREAS, on May 22, 2017, the COMB Governing Board approved Resolution 632 accepting Grant No. 5 to fund a significant portion of the total expenditures necessary for Project No. 5; and

WHEREAS, the fish passage improvements at Crossing Number 9 on Quiota Creek, a tributary to the Lower Santa Ynez River, will provide improved access to the perennial reaches of Quiota Creek and restore habitat to enhance conditions for steelhead ("Project No. 9"). Project No. 9 will replace an existing "at-grade" Arizona-type concrete crossing with a 60-foot prefabricated concrete bottom-less arched culvert (or bridge), which will remain owned, operated and maintained by the County of Santa Barbara. The new bridge system will consist of an internal span of 60 feet and rise approximately 13 feet. A single 18-foot wide lane road surface will be constructed over the top of the arch of the bridge connecting to the existing County road surface; and

WHEREAS, COMB estimates that the total expenditures for Project No. 9 would be approximately One Million Two Hundred Three Thousand Fifty-Nine Dollars (\$1,203,059), which would include a significant amount of state grant funding, along with Warren Act funding, assessments to Member Agencies and a construction match of \$50,000; and

WHEREAS, in 2018, COMB was awarded Nine Hundred Ninety-Three Thousand One Hundred Twenty-One Dollars (\$993,121) in CDFW-FRGP funding ("Grant No. 9") for a net expenditure of approximately \$209,938; and

WHEREAS, on February 26, 2018, the COMB Governing Board approved Resolution 657 accepting Grant No. 9 to fund a significant portion of the total expenditures necessary for Project No. 9; and

WHEREAS, COMB has prepared a detailed Scope of Work with specific tasks to be performed, a schedule of completion and a detailed budget that was used for selection of a construction contractor and construction management of both Projects Nos. 5 and 9; and

WHEREAS, a competitive bidding process was performed regarding both Projects Nos. 5 and 9, which requested responsive bids, with any received and sealed bids opened on May 15, 2018, and with Peter Lapidus Construction, Inc. prevailing as the lowest responsive, responsible bidder for said Projects; and

WHEREAS, it is in the best interest of COMB to enter into a contract with Peter Lapidus Construction, Inc. for both Projects Nos. 5 and 9, including for the reasons provided in the related staff report;

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

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

2. The Governing Board authorizes a Notice of Award be issued and approves a contract to be executed with Peter Lapidus Construction, Inc. for the construction of the Fish Passage Improvement Projects at Quiota Creek Crossings 5 and 9 in a total amount not to exceed \$1,359,550.

3. The Governing Board further authorizes COMB's officers and staff, including the General Manager, to continue to do all things necessary and appropriate, including, but not limited to, execution and delivery of necessary documents, the obtaining of applicable permits, and any other actions to construct and implement both Projects No. 5 and 9 using the approved expenditures.

4. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 21st day of May 2018, by the following roll call vote:

Ayes:

Nays:

Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

Quote # QUO-315673-B5Y5T5					
Date	4/30/2018	Account Name	Cachuma Operation and Maintenance Board, Inc	Reply-To	
Quote #	QUO-315673-B5Y5T5	Contact Name	Cachuma Operation and Maintenance Board, Inc	Contech Rep.	Andrew Runk
		Phone	(805) 687-4011	Address	5670 Greenwood Plaza #530, Greenwood Village, Colorado, 80111
Project Name	Quiota Creek Crossing 9	Fax	(805) 569-5825	Phone	303-241-8154
Project #	567926	Email		Fax	
Project City/State	Santa Barbara, CA			Email	ARunk@conteches.com

Contech's offer to sell the products described in this quotation is expressly conditioned upon Buyer's assent to the Contech Conditions of Sale ("Contech COS") included herewith and/or viewable at www.conteches.com/cos. A valid tax exemption certificate must be issued to Contech or sales tax will be added.

Item #	Description	Pieces	Quantity	Extended Unit Price	Unit	Unit Total
	CON/SPAN O-Series - 20 linear ft. of Shape O1060: 60'-0" x 13'-3 1/8" Precast Bridge Units. 5 units, 4 ft. typical Lay Length. HS-25 Loading, 1 ft. Max Cover. 2 - Detached Counterfort Precast Headwalls approx. 1 ft. each, will also have 2 attached portions 3 - Precast Wingwalls - 12 ft. Long, 12 ft. Long & 30.5 ft. Long. Heaviest Pick Weight = TBD Tons.	1.00	1.00	\$267,182.83	EA	\$267,182.83
					Total	\$267,182.83
					(Tax not included) Net Total	\$267,182.83

Standard Notes

- All orders must be shipped within 30 days of manufacture or a storage charge applies equal to a maximum of 5% per month of the selling price of the stored material.
- Allowable unloading time for delivery trucks is two (2) hours. Demurrage charges of \$75.00 per hour thereafter will be added.
- Construction loadings typically exceed the intended post-construction live load used for design. Contact your Contech representative for specific guidelines and limitations based on the construction live loads anticipated.
- Flexible structures of the type on this project are reliant on the type of structural backfill used, the compaction of that material and the balanced placement of structural backfill. Contact your Contech representative for specific information.
- One or more of the products quoted herein is nonstandard and not returnable. A down payment equal to 1/3 of the item(s) total is required and must be received prior to commencement of any performance by Contech. Tax will be applied unless a sales tax exemption document has been provided prior to invoicing.
- The estimated lead time for the submittal package is 3-4 weeks from the receipt of a signed purchase document and receipt of the required design documents and project information. Approval review process is in addition to stated timeframes. The estimated manufacturing lead time for this material is 8-12 weeks from the receipt of approved submittal documents.
- The sale of these materials requires a preconstruction meeting be held that must include Contech and all parties directly involved in the construction process.
- This quotation expires 30 days from the date shown. Prices are firm for shipment within 120 days of the date of quotation and are subject to a maximum escalation of 8% for each 30 days thereafter.

Quote # QUO-315673-B5Y5T5

Scope Of Work

CON/SPAN O-Series

CON/SPAN O-Series pricing includes precast concrete units, associated headwalls and wingwalls with mounting hardware (if applicable and specified), joint sealant material, masonite shims, filter fabric for vertical wingwall joints and perforated drain tile behind precast wall system. Contech will provide contract drawings, fabrication drawings, structural calculations upon request, and on-site consultation during installation of precast units.

Pricing does not include any site preparation, foundation work, installation of any kind, or backfill monitoring. As part of the construction process, the contractor is to perform the items listed below in accordance with the Contech contract drawings:

1. Construct cast-in-place foundations or install precast foundations as appropriate
2. Unload and set structure utilizing crane
3. Grout the unit legs and wingwalls into the keyway
4. Apply all joint sealing material
5. Excavate for and backfill the structure (Select backfill material is required per CONTECH specifications)
6. Any and all permits, inspection fees, flagmen, barricades, flares, traffic control devices, utility protection, and/or other safety devices as may be required

All materials and services that are not expressly included in the aforementioned scope of work are excluded and subject to additional charges.

PAYMENT TERMS ARE 1/2%-10, NET 30 DAYS FROM DATE OF INVOICE UNLESS MATERIAL IS OTHERWISE NOTED AS NON-STANDARD ABOVE. IF NON-STANDARD, PAYMENT TERMS ARE 1/3 AT ORDER ACCEPTANCE AND PRIOR TO START OF PRODUCTION, 2/3 NET 30 DAYS FROM DATE OF INVOICE. THIS OFFER IS SUBJECT TO CREDIT APPROVAL. UNLESS OTHERWISE STATED, PRICES QUOTED APPLY ONLY TO THE REFERENCED PROJECT AND ARE IN EFFECT FOR 15 DAYS FROM THE DATE OF QUOTATION. SELLER RESERVES THE RIGHT TO ADJUST PRICES AFTER 15 DAYS FROM THE DATE OF QUOTATION BUT THE CONTECH COS REMAIN APPLICABLE. PRICES ARE BASED ON ESTIMATED QUANTITIES SHOWN. IF A DIFFERENT QUANTITY IS PURCHASED, CONTECH RESERVES THE RIGHT TO ADJUST THE PRICES. THIS QUOTATION CONTAINS THE ENTIRE AGREEMENT WITH RESPECT TO PURCHASE AND SALE OF PRODUCTS DESCRIBED AND SUPERSEDES ALL PREVIOUS COMMUNICATIONS, BUYER'S SIGNATURE BELOW, DIRECTION TO MANUFACTURE, OR ACCEPTANCE OF DELIVERY OF GOODS DESCRIBED ABOVE, SHALL BE DEEMED AN ACCEPTANCE OF THE CONTECH COS. SELLER EXPRESSLY REJECTS ANY OTHER TERMS AND CONDITIONS. PRICES ARE F.O.B. ORIGIN WITH FREIGHT ALLOWED TO THE JOBSITE WITH UNLOADING BY OTHERS AT A TRUCK ACCESSIBLE LOCATION. THIS QUOTATION IS ISSUED BY CONTECH ENGINEERED SOLUTIONS LLC FOR ITSELF AND/OR ON BEHALF OF ONE OR MORE OF ITS SUBSIDIARIES, INCLUDING BUT NOT LIMITED TO KEYSTONE RETAINING WALL SYSTEMS LLC.

<u>Acceptance</u>		<u>Contech Engineered Solutions LLC.</u>	
WE HEREBY ORDER THE DESCRIBED MATERIAL SUBJECT TO ALL TERMS AND CONDITIONS OF THIS QUOTATION AND IN THE Contech COS INCLUDED HEREWITH AND VIEWABLE AT www.conteches.com/cos		By	Andrew Runk
Company		(O)	303-241-8154
By		(F)	
Title		(Cell)	
Date		Title	

Quote # QUO-315673-B5Y5T5

Contech - CONDITIONS OF SALE

1. **ACCEPTANCE.** This quotation is an offer to sell to potential customer(s). BUYER'S RIGHT TO ACCEPT THIS OFFER IS LIMITED TO BUYER'S ASSENT TO THE TERMS AND CONDITIONS PRINTED HEREON AND THE ATTACHED OR ACCOMPANYING QUOTE, AND NO TERMS ADDITIONAL TO OR DIFFERENT FROM THOSE IN THIS OFFER ARE BINDING ON SELLER. THERE ARE NO UNDERSTANDINGS, TERMS, CONDITIONS OR WARRANTIES NOT FULLY EXPRESSED HEREIN.
2. **LIMITED WARRANTIES.** Seller warrants that it can convey good title to the products sold under this contract and that they are free of liens and encumbrances. Seller also warrants that the products sold under this contract are substantially free from defects in material and workmanship for a period of one year after the date of delivery. There are no express or implied warranties with respect to products sold hereunder which are misused, abused or used in conjunction with mechanical equipment improperly designed, used or maintained, or which are used, supplied for use or made available for use in any nuclear application of which Seller has not been notified in writing by Buyer at the time of order for the products sold hereunder. SELLER MAKES NO OTHER WARRANTY WHATSOEVER, EXPRESS OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE ARE DISCLAIMED BY SELLER AND EXCLUDED FROM THIS CONTRACT.
3. **LIMITATION OF BUYER'S REMEDIES AND SELLER'S LIABILITY.** Seller's liability hereunder shall be limited to the obligation to repair or replace only those products proven to have been defective in material or workmanship at the time of delivery, or allow credit, at its option. Seller's total cumulative liability in any way arising from or pertaining to any product or service sold or required to be sold under this contract shall NOT in any case exceed the purchase price paid by Buyer for such products or services. IN NO EVENT SHALL SELLER HAVE ANY LIABILITY FOR COMMERCIAL LOSS, LOST PROFITS, CLAIMS FOR LABOR, OR CONSEQUENTIAL, SPECIAL, PUNITIVE OR INCIDENTAL DAMAGES OF ANY TYPE, WHETHER BUYER'S CLAIM BE BASED IN CONTRACT, TORT, WARRANTY, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE. IT IS EXPRESSLY AGREED THAT BUYER'S REMEDIES EXPRESSED IN THIS PARAGRAPH ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES.
4. **LIMITATION OF BUYER'S REMEDIES AND SELLER'S LIABILITY FOR FAILURE OR DELAY IN DELIVERY.** NO DELIVERY DATES ARE GUARANTEED. BUYER'S SOLE AND EXCLUSIVE REMEDIES AND SELLER'S ONLY LIABILITY FOR ANY DELAY IN DELIVERY SHALL BE LIMITED AS SET FORTH IN PARAGRAPH 3 OF THIS CONTRACT.
5. **FORCE MAJEURE.** In any event and in addition to all other limitations stated herein, Seller shall not be liable for any act, omission, result or consequence, including but not limited to any delay in delivery or performance, which is (i) due to any act of God, the performance of any government order, any order bearing priority rating or order placed under any allocation program (mandatory or voluntary) established pursuant to law, local labor shortage, fire, flood or other casualty, governmental regulation or requirement, shortage or failure of raw material, supply, fuel, power or transportation, breakdown of equipment, or any cause beyond Seller's reasonable control whether of similar or dissimilar nature to those above enumerated, or (ii) due to any strike, labor dispute, or difference with workers, regardless of whether or not Seller is capable of settling any such labor problem.
6. **BUYER'S OBLIGATION TO PASS ON LIMITATION OR WARRANTIES AND REMEDIES.** In order to protect Seller against claims by Buyer's buyer, if Buyer resells any of the products purchased under this agreement, Buyer shall include the language contained in paragraphs 2 and 3 of this agreement, dealing with Seller's limitations of warranties and remedies, in an enforceable agreement with Buyer's buyer, or otherwise include language in an enforceable agreement with its buyer that makes Seller's limitation of warranties and remedies binding on its buyer. Buyer shall also include a provision in its agreement with its buyer applying Ohio law to any claims its buyer might assert against Seller with respect to products manufactured by Seller, and requiring its buyer to bring any such action against Seller either in federal district court in Cincinnati, Ohio or the common pleas court for Butler County, Ohio. Buyer shall defend, indemnify and hold Seller harmless from any and all claims, causes of action, damages, losses or expenses (including reasonable attorneys' fees) that Seller incurs by reason of Buyer's failure to comply with this paragraph.
7. **PASSAGE OF TITLE.** Title to the products sold hereunder shall pass upon delivery to the carrier at the point of shipment. Neither Buyer nor the consignee shall have the right to divert or reassign such shipment to any destination other than specified in the bill of lading without permission of the Seller. Unless otherwise agreed Seller reserves the right to select the mode of transportation.
8. **PAYMENTS AND LATE CHARGES ON PAST DUE ACCOUNTS.** Buyer represents that Buyer is solvent and can and will pay for the products sold to Buyer in accordance with the terms hereof. If Buyer shall fail to comply with any provision or to make payments in accordance with the terms of this contract or any other contract between Buyer and Seller, Seller may at its option defer shipments or, without waiving any other rights it may have, terminate this contract. All deliveries shall be subject to the approval of Seller's Credit Department. Seller reserves the right, before making any delivery, to require payment in cash or security for payment, and if Buyer fails to comply with such requirement, Seller may terminate this contract. A late charge of 1-1/2% monthly (18% annual rate) or the maximum allowed by state law, if less, will be imposed on all past due accounts, and Buyer is responsible for all costs of collection including without limitation reasonable attorneys' fees and court costs.
9. **TRANSPORTATION CHARGES.** Delivered prices or prices involving competitive transportation adjustments shall be subject to appropriate adjustment to reflect changes in transportation charges.
10. **CLAIMS BY BUYER.** Buyer shall thoroughly inspect products sold under this contract immediately upon receipt to verify conformance with the specifications of the contract. Buyer must notify Seller of claims for failure or delay in delivery within 30 days after the scheduled delivery date. Buyer must notify Seller of any claims for nonconforming or defective products within 30 days after the nonconformity or defect was or should have been discovered. In addition, Seller must be given an opportunity to investigate the claim before Buyer disposes of the material, or else Buyer's claim will be barred. Seller shall incur no liability for damage, shortages, or other cause alleged to have occurred or existed at or prior to delivery to the carrier unless the Buyer shall have entered full details thereof on its receipt to the carrier.
11. **MECHANICAL PROPERTIES; CHEMICAL ANALYSES.** Data referring to mechanical properties or chemical analysis are the result of tests performed on specimens obtained from specific locations of the product(s) in accordance with prescribed sampling procedures; any warranty thereof is limited to the values obtained at such locations and by such procedures. There is no warranty with respect to values of the materials at other locations.
12. **PATENTS.** Seller shall indemnify Buyer against attorneys' fees and any damages or costs awarded against Buyer in the event any legal proceeding is brought against Buyer by a third person claiming the material delivered hereunder in itself constitutes an infringement of any U.S. patent, provided Buyer gives Seller prompt notice of any such suit being brought, gives Seller the opportunity to defend any such suit, and cooperates with Seller with respect to any such defense; unless the material is made in accordance with material designs, or specifications required by Buyer, in which case Buyer shall similarly indemnify Seller.
13. **PERMISSIBLE VARIATIONS.** The products sold hereunder shall be subject to Seller's standard manufacturing variations, tolerances and classifications.
14. **TECHNICAL ADVICE.** Buyer represents that it has made its own independent determination that the products it is purchasing under this contract meet the design requirements of Buyer's project and are suitable for Buyer's intended application. Buyer further represents that it has not relied in any respect on any written or oral statements or advice from Seller, other than the standard product specifications set forth in the most recent addition of Seller's published product brochures, in making that determination.
15. **TAXES.** No taxes imposed with respect of the sale of the products or services sold hereunder are included in any quotation by Seller. All applicable taxes shall be added and paid by Buyer in addition to the purchase price.
16. **BUYER'S RIGHT OF TERMINATION.** Buyer may terminate this contract in whole or in part upon notice in writing to Seller. Seller shall thereupon cease work and transfer to Buyer title to all completed and partially completed products and to any raw materials or supplies acquired by Seller especially for the purpose of performing this contract, and Buyer shall pay Seller the sum of the following:
 - (1) the contract price for all products which have been completed prior to termination;
 - (2) the cost to Seller of the material or work in process as shown on the books of Seller in accordance with the accounting practice consistently maintained by Seller plus a reasonable profit thereon, but in no event more than the contract price;
- (3) the cost f.o.b. Seller's plant of materials and supplies acquired especially for the purpose of performing this contract; and
- (4) reasonable cancellation charges, if any, paid by Seller on account of any commitment(s) made hereunder.
17. **SELLER'S RIGHT OF TERMINATION.** In addition to the other rights of termination provided for in this contract, and if this contract is made pursuant to any governmental rule or regulation, plan, order or other directive, upon the directive, effected or impaired termination thereof, Seller shall have the option of canceling this contract in whole or in part.
18. **WAIVER.** Failure or inability of either party to enforce any right hereunder shall not waive any right in respect to any other or future rights or occurrences.
19. **DELIVERY.** Unless otherwise agreed to in writing by the Seller, the Buyer hereby agrees to take delivery of the materials on this order within the later of thirty (30) days after the wanted date shown on the face of the order or within thirty (30) days after notification, oral or written, that the materials are ready for shipment. In the event that the Buyer does not arrange to take delivery of the materials in accordance with this Contract, Seller, at Seller's option, may:
 - (a) invoice the Buyer for the materials less freight if applicable; store the material in Seller's yard for a period not to exceed sixty (60) days from the date of invoice; charge a storage fee not to exceed 5% per month or fraction thereof of the selling price of the stored materials; add any applicable price increases listed on the face of the order; charge for any repair work to protective coatings harmed by weathering while such material is being stored; and charge applicable freight when shipment to the Buyer is made. Materials remaining in storage after sixty (60) days from the invoice date shall become the property of the Seller for disposition at the Seller's discretion. In that event, Buyer shall not be liable for the invoice price of the materials, but shall be liable for the storage fee and any repair work to protective coatings; or
 - (b) cancel the order and invoice the Buyer for cancellation charges, which shall be 25% of the selling price of the materials if the materials are standard, in-stock material, or the full selling price if the materials are special or nonstandard in nature and were especially fabricated for the Buyer.
20. **PERIOD OF LIMITATIONS.** Buyer and Seller agree that any action by Buyer against Seller relating to this contract or the products sold hereunder, including, without limitation, any action for breach of contract or warranty, or otherwise in connection with the products sold under this contract, must be commenced by Buyer against Seller within one year after the cause of action therefore accrues or one year of delivery of the products sold hereunder, if less.
21. **CONFLICTING PROVISIONS OFFERED BY BUYER.** Any terms and conditions of any purchase order or other instrument issued by the Buyer, in connection with the subject matter of this document, which are in addition to or inconsistent with the terms and conditions expressed herein, will not be binding on Seller in any matter whatsoever unless accepted by Seller in writing.
22. **SEVERABILITY.** In case any provision of this contract shall be declared invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired.
23. **APPLICABLE LAW.** This contract shall be governed by, and construed and enforced in accordance with, the laws of Ohio. Buyer and Seller specifically agree that any legal action brought relating to this contract shall be brought and tried exclusively in the federal district court in Cincinnati, Ohio, or, in the absence of jurisdiction, the Butler County Court of Common Pleas in Hamilton, Ohio.

REV. 03/15

Quiota Creek Crossing 9 Project

Non-Competitively Bid (NCB) Contract Justification Corrective Action Plan

To: Cachuma Operation and Maintenance Board

From: Timothy H. Robinson (Project Manager, COMB) and Michael C. Garello (Design Engineer, HDR)

Contract: Procurement of a prefabricated ConTech bottomless arch culvert bridge system for the Quiota Creek Crossing 9 Project as required by the project design.

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

A. Factors of Consideration

1. *Why is the submission of a NCB necessary and what are the determining factors that caused the problem?*

ConTech is the sole vendor for the required 60 foot bottomless arched culvert (arch) system (O-Series) that meets the design criteria for the Quiota Creek Crossing 9 project. In short, there are no other suppliers/vendors that provide the same product, design specifications, and price that are required for the project.

Factors determining that conclusion are as follows:

- California Department of Fish and Wildlife (CDFW), as the grantor, requires the use of qualified and experienced contractors and vendors to perform work and supply materials. The basis for that requirement is to ensure project design specifications and construction meets the obligation to prevent environmental degradation and enhance the steelhead fishery.
- Santa Barbara County (County) requires that the proposed bridge system meet and/or exceed Caltrans design standards for a public road. The specific ConTech arch system proposed for the project satisfies those requirements and was the only vendor that provided the necessary span length and load capacity. Caltrans and other national state Department of Transportations (DOT) recognize that ConTech arch systems are standardized to meet state DOT loading requirements.
- In 2010, COMB's design engineer at HDR with staff conducted a search for the most cost effective bridge or bottomless arched culvert system suitable for replacing low flow concrete stream crossings on Refugio Road where it crosses Quiota Creek. ConTech arch systems were the only product that met that engineering design criteria and esthetics requested by the landowners. The specific ConTech arch system selected was compared to other vendors of bridge or arch system specifically for span length, load capacity, flow conveyance, off-site fabrication, installation ease, cost, esthetics, and service provided by the vendor. The results of the study were presented to COMB Member Unit managers on 3/3/09, the COMB Board on 11/22/10, and

summarized in a design memo (4/22/10). ConTech was the sole vendor to meet the design criteria and requests of the landowners.

- Fabrication of the ConTech product in the Los Angeles and Bakersfield areas reduces shipping costs and oversight expenses incurred by the County and COMB engineers for fabrication oversight required by the County.
- The selected arch system is the initial and central component of the design process. The O-Series provides greater flow conveyance at a lower cost than the B-Series that was used in previous projects. Once the arch system is determined, the entire project is then designed around that structure. Five similar projects on Quiota Creek (48-foot arch for Quiota Creek Crossing 6 in 2008, a 60-foot arch for Quiota Creek Crossing 2 in 2010, a 60-foot arch for Quiota Creek Crossing 7 in 2012, a 60-foot arch for Quiota Creek Crossing 1 in 2013, a 53-foot arch for Quiota Creek Crossing 3, a 54-foot arch for Quiota Creek Crossing 4, and a 59-foot arch for Quiota Creek Crossing 5) have successfully followed this design process, each with substantially reduced design and permit costs due to using the same vendor (ConTech) and arch system.
- The vendor is required to supply shop drawings and calculations to COMB and Santa Barbara County (County) that are provided to a third party for independent review. Therefore, the bridge structure has to be selected, reviewed by the County and an independent engineer, and approved by COMB's design engineer and the County prior to the issuance of the project County Encroachment Permit. ConTech has met this obligation in a timely manner at no cost to COMB.
- ConTech is the only vendor that offers the O-Series product which does carry a patent. Other vendors supply fabricated bridge or arch systems but do not meet the design requirements listed above. Vendors considered and the reasons their product does not meet the obligation and unique design criteria for the current project as provided by HDR are as follows:
 - TechSpan – Height to span ratios are not favorable for Refugio Road applications. This system has a rounded arch that is too tall for the required span and flow conveyance of Quiota Creek along Refugio Road. In addition, foundations are larger and as a result more costly than the ConTech arch system.
 - SFC Bridge Systems – Their maximum span is 48 feet. The design for the Quiota Creek Crossing 9 project requires a 60 foot span.
 - TriCon Precast Limited – Has similar arch systems but their Redi-Arch product comes in spans of 12-42 feet which does not meet the span length requirement for this project. Also they are based and only fabricate in Texas, making for high shipping costs.
 - Oldcastle Precast – Has box and arch style bridge systems with spans 30 feet or less. Their arches are ConTech designed and this fabricator serves as middle man for ConTech.
 - Big-R – Sells steel parallel chord truss bridges. Although they are popular, footing and abutment design and construction costs for this style of bridge would exceed those of the ConTech arch system. Use of

this system would require substantial redesign for a product that costs more than the selected and superior Contech arch system. Also this system is not as esthetic in the eyes of the landowners.

Hence, the required flow conveyance, design, height, span length, minimum load capacity, cost, proximity of the fabricator, and esthetics make the ConTech product unique for the required arch system on Quiota Creek, specifically at Crossing 9.

- The ConTech arch systems provide design flexibility with regard to meeting the combination of height, span, and flow conveyance requirements. The height and span are governed by the conveyance requirement which is 1 foot of freeboard under the bottom chord of the bridge at the 50-year flood event. Other road design and safety factors which govern the vertical curve of the road also support the use of the ConTech arch system. No other vendor is capable of providing this construction flexibility.

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

- The project would not meet the requirements of the County set forth to ensure span length and load capacity.
- The project would have to be completely redesigned for an alternative bridge / arch system. This would require reconfiguring the foundations, re-analyzing the hydraulic design for flow conveyance under the structure, and determining the required scour protection for the foundations, rock slope protection, and associated embankment fill and revegetation.
- A redesign would result in further engineering costs both in design and review for the bridge/arch system, road, embankments, in-stream structures, and revegetation.
- The County Encroachment Permit fee would increase due to lack of familiarity with a different structure.
- Other bridge/arch system may increase the size of the project specifically if the County does not grant variances. Currently COMB has received five design variances for each of the Quiota Creek projects that cumulatively reduce the size and subsequently the cost of the project while maintaining road safety standards, fish passage, the rural esthetics of the area, and landowner cooperation. Without those variances, the project would cost significantly more and would not be of the same rural character or be acceptable to the landowners.

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

- COMB's staff and design engineer at HDR continue to study the market, technologies, and availability of bridge/arch systems. If a better system comes onto the market at less cost, it will be evaluated in comparison with the current ConTech arch system.
- To date, alternative bridge/arch systems have failed to meet County design standards specifically for minimum load bearing and flood conveyance; for example a multiple recessed box culvert that was proposed for one of the

Quiota Creek crossings. Staff will continue to work closely with the County on our designs so that we propose projects with products that are acceptable to the County standards and design criteria.

- The vendor product selection is determined by the unique setting of each project regarding geologic, hydrologic, and fluvial geomorphic characteristics. Quiota Creek Crossings 0 through 9 have very similar characteristics and the ConTech arch system is particularly well suited for those conditions. Where other bridge options are appropriate in design and economically viable, and appropriate, they are being evaluated.



B. Price Analysis

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

- COMB's project engineering team evaluated and conducted a design and price comparison and found the ConTech arch system to meet design and price obligations.
- The required product is just not available from other vendors or prefabricators.

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

- Due to the sign of the vendor and their volume of sales, the supplier is able to provide to COMB at no cost signed and sealed Shop Drawing and calculations required for project design evaluation; a benefit that other vendors cannot provide.
- COMB and HDR review costs are expedited by using nearly identical products for each of the Quiota Creek projects to date.
- Spread footings are much easier to design and construct than are typical footings and abutments required by other bridge/arch systems.

	COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS - TRANSPORTATION DIVISION 4417 Cathedral Oaks Road Santa Barbara, CA 93110 Tel. (805) 681-4990	
INVOICE		
DEVELOPMENT PERMIT		

Please make checks payable to:
County of S.B. - P.W. Trans.

Invoice Date: 5/10/2018

Permit No.: **D0190101**

PERMITTEE:

Refugio Rd Quiota Creek Crossing #9
Cachuma Operation & Maintenance Board
3301 LAUREL CANYON ROAD
Santa Barbara, CA 93105

AGENT:

Cachuma Operation and Maintenance Board

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Amount Enclosed: _____

The following permit services have been provided to you
by Public Works - Transportation Division.

Location: 0 REFUGIO RD, Santa Ynez

Permit Fees:

Issuance Fee: \$68.00
Road Closure Fee \$1,235.00
Dev. Plan Check Review (Fix Fee) \$10,000.00
Dev Inspect Oversight & Admin Deposit (Reimb) \$17,000.00
Dev. Inspect_Final Reports (Fix Fee) \$2,000.00
TOTAL FEES: \$30,303.00

Balance Due: \$30,303.00

Please reference the Permit Number on your check.
Please enclose REMIT copy with payment and mail to:
County of Santa Barbara
Public Works Transportation Permit Office
4417 Cathedral Oaks Rd.
Santa Barbara, CA 93110
If you have any questions, Please call (805) 681-4990

All permits fees must be **PAID IN FULL**
prior to completion of work.

DUPLICATE INVOICE: ONE for REMITTANCE, ONE for PERMITTEE



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.”

May 21, 2018

General Manager Report

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

Administration

- COMB FY 2018-19 Draft Operating Budget

The COMB FY 2018-19 Draft Operating Budget and associated support materials have been presented to the Member Agency General Managers for review and comment. Comments from the General Managers will be incorporated in the document prior to the Administrative Committee meeting scheduled for next week. The budget will be presented to the Board at a Special meeting in early June.

- USBR O & M Contract Renewal

Each month, staff requests an update from Reclamation related to the issuance of the draft O & M contract for the Cachuma Transferred Project Works. Reclamation’s Contracts Administration Chief, Fresno, has indicated the regional office in Sacramento is reviewing a draft template O & M contract which will be used to formulate the basic language for the new Transferred Project Works O & M contract for the Cachuma Project. The receipt of the draft template to the Fresno office is expected in early June with a projected mid-summer release of a draft contract to COMB.

- FEMA Request for Public Assistance

Sycamore Canyon Slope Stabilization Project (FEMA-4308-DR-CA)

The February 2017 storm event resulted in a landslide condition that exposed a portion of the South Conduit in the Sycamore Canyon Section. COMB submitted a Request for Public Assistance to the Federal Emergency Management Agency (FEMA) and received a preliminary cost estimate (\$50.6k) to repair the hillside back to pre-event conditions. COMB has since contracted with Flowers and Associates, Inc. to perform a detailed topographic study, geotechnical study, and engineering evaluation to determine the current safety factor of the slope and appropriate engineering design. COMB has initiated an informal reconsideration of the project prior to requesting a more formal review and appeal. COMB’s intent with the Sycamore Slope Stabilization Project is to expand the scope of the project to be a Hazard Mitigation Project (HMP) under FEMA reimbursement guidelines and reduce or eliminate long-term risk to South Coast Conduit near Sycamore Creek.

Thomas Fire and Thomas Debris Flow (FEMA-4353-DR-CA)

The January 2018 storm event and subsequent debris flows caused damage to South Coast Conduit appurtenant structures. In particular, air-vent (AVAR) and blow-off (BO) structures were severed in places and covered in mud and debris, causing impairment to the operational condition of the system. COMB staff submitted a Request for Public Assistance to FEMA under the following FEMA categories:

Category A: Debris Removal – Includes costs of debris removal from water pipeline appurtenances at various creek crossings caused by the event.

Category B: Protective Cover Measures – Includes staff overtime labor and equipment costs related to fire and flood monitoring, flow changes, evacuation, and staff time spent marking and protecting the SCC pipeline from other contractors removing debris, blasting, and drilling in the areas near the pipeline.

Category F: Public Utilities – Includes costs to replace loss of vault lids, repair damage to sections of the vaults, pipe and flapper valves.

Submitted claims have been preliminarily approved and total approximately seventy percent of the emergency contract costs for rehabilitation of the appurtenant structures damaged during the event. In addition, staff is in contact with CalOES for potential cost share reimbursement.

Personnel

- Staff Professional Development

Edward Lyons, Administrative Manager/CFO, is participating in the ACWA/JPIA Leadership Essentials Program for the water industry. The Leadership Essentials Program is a 1-year program offered through ACWA/JPIA for senior management staff of member agencies. The program consists of 50 academic hours of learning divided into four in-classroom sessions along with monthly webinars. The curriculum is specifically formulated to help participants lead effectively across three leadership spectrums: Self Leadership, Team Leadership, and Agency Leadership. The annual program is limited to 15 participants and provides an excellent opportunity to network and collaborate with other leaders in the water industry.

Tim Robinson, Fisheries Division Manager, and Joel Degner, Water Resources Engineer, will be participating in the upcoming annual ESRI conference held each year in San Diego. Staff submitted an abstract and was accepted to give an oral presentation on Maintenance of a Primary Water Delivery Pipeline Using GIS Technologies. This is an international conference with well over 15,000 participants that showcases current and future advancements. Participating in the conference provides an opportunity for professional development in GPS and GIS technologies for field mapping, spacial data analyses and reporting. The conference showcases over 50 concurrent sessions during five days which includes technical training sessions in a wide variety of applications of ArcGIS, practitioner presentations on individual applications of the GIS software across multiple disciplines, and extensive vender exhibits that provide the opportunity to interact with sales and IT professionals in GPS and GIS technologies.

Operations Division Activities

The Operations Division has been performing structure maintenance on the south reach of the system including Ortega Reservoir weed abatement activities in alignment with the annual work plan. Southern California Edison has an ongoing program of replacing service poles and notifies COMB Operations through the dig alert system. Each notification requires the field crew to respond for a site inspection to confirm installation parameters in connection with the South Coast Conduit. Through various notifications, the Operations crew responds on a daily basis to property owners' right-of-way questions, USA call outs and land use applications inquiries.

Fisheries Division Activities

The Fisheries Division (FD) staff continues preparing materials for the draft Fiscal Year 2018-19 COMB Operating Budget. The FD Manager has been working with the General Manager on completion of the Annual and Long-term Plans for Water Year 2019 for the Cachuma Project Warren Act Trust Fund and Cachuma Project Master Contract Renewal Fund Report. Progress has been made on 2000 BiOp compliance reporting with Reclamation, specifically on the Annual Monitoring Reports. There has been a noted efficiency improvement working collaboratively with Reclamation on document preparation and completion which has been a welcome change for all parties. All routine 2000 BiOp compliance monitoring has been carried out as required which includes migrant trapping, redd surveys, stream flow

General Manager Report
May 21, 2018

monitoring, water quality monitoring, and lake profile monitoring. All field work for the Oak Tree Program inventory has been completed and staff is now preparing the annual report for the Lake Cachuma Oak Tree Program Committee. Preparations are well under way for constructing two habitat restoration projects on Quiota Creek before the end of the year.

Respectfully Submitted,

Janet Gingras

General Manager

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: May 21, 2018
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

COMB, in collaboration with the Member Agencies, has developed a Lake Elevation Projection Model which is a spreadsheet model that forecasts the lake elevation for two years based on the current reservoir status and Member Agencies projected demand and water importation. The model can vary parameters which are key to the lake storage: WR 89-18 releases, Central Coast Water Authority state water inflows, expected natural hydrology (rainfall, evaporation, inflow), and South Coast Conduit demands. COMB has received Member Agency supply and demand projections through Water Year 2019 updated in May 2018. Santa Ynez River Water Conservation District has indicated the 2018 downstream water right release would be limited to 10,000 AF.

Assuming a 10,000 AF downstream water rights release, full capacity deliveries from CCWA and current forecasted exports from the lake, the lake elevation would drop as low as 689 feet above sea level (ft amsl) at the end of November 2018. It would not drop below 685 ft amsl until July/August 2019 in conjunction with the 2019 downstream water rights release. In considering the delay option for installation of the Emergency Pumping Facility Project (EPFP), COMB would need to provide Cushman a Notice to Proceed (NTP) 45 calendar days before the lake drops below elevation 685 ft amsl and the lake elevation must remain above 680 ft amsl for 120 days. The realistic scenario of a 10,000 AF downstream water rights release, full CCWA pipeline capacity deliveries, and South Coast forecasted exports from Lake Cachuma would make the delay option feasible. The EPFP implementation options will be further evaluated in the June Operations Committee and June Board meeting.

A summary of the projected Fiscal Year (FY) 2018-19 costs for the potential Emergency Pumping Facility Project options are provided below (Table 1). Costs include installation, operation & maintenance, and electrical costs. The total implementation costs in a Dry Water Year 2019 (WY19), where the drought continues and the EPFP is needed, is compared to costs in a Wet WY19, where the inflow into Lake Cachuma would rebound lake levels and require removal of the EPFP and components.

Table 1. Summary of EPFP Options

EPFP Extended Contract Operations Options	FY 2018-19 Costs with Dry WY19	FY 2018-19 Costs with Wet WY19
Option 1: Full Deployment	\$1,929,000	\$2,090,000
Option 2: Partial Deployment	\$1,980,000	\$1,130,000
Option 3: Delay Deployment	\$1,900,375	\$84,000

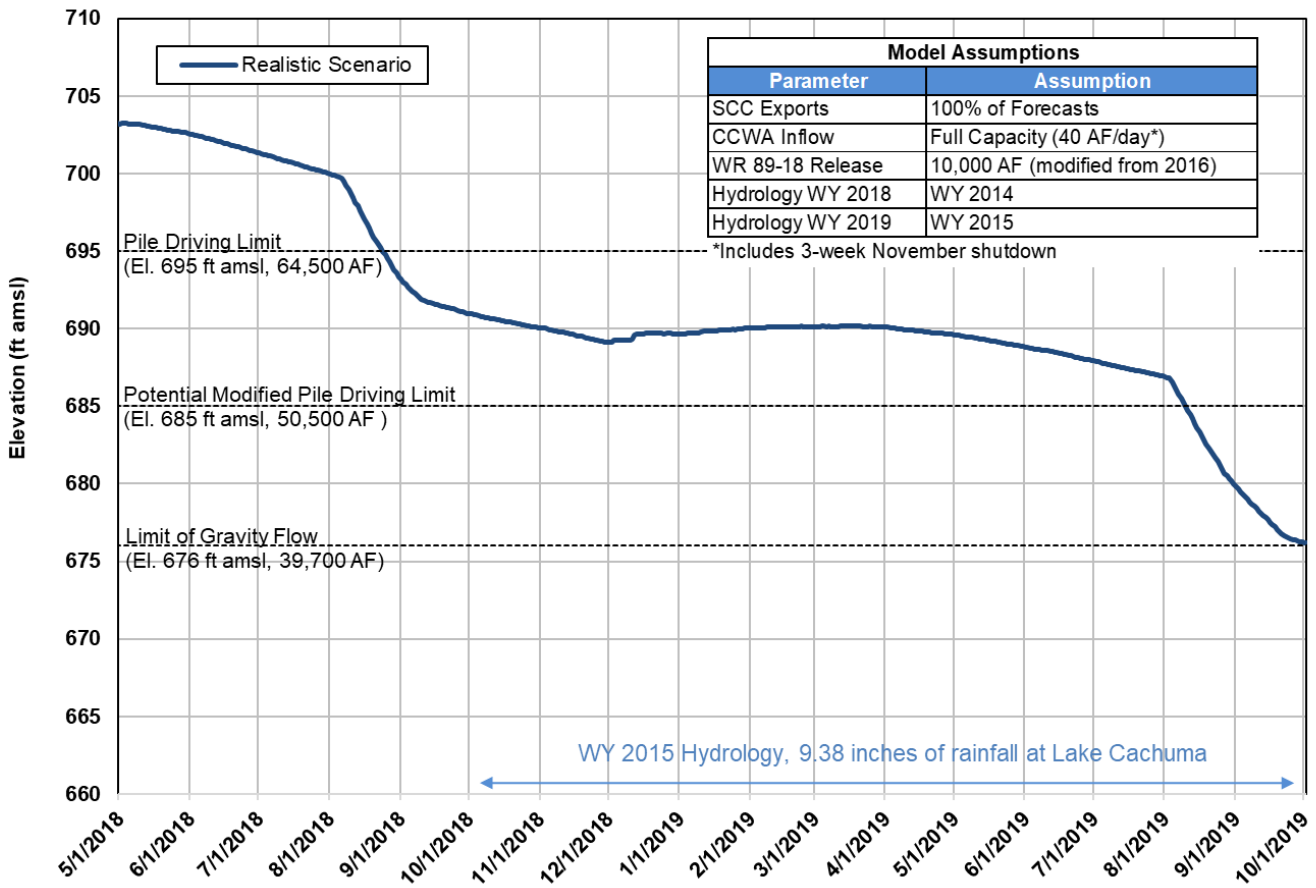


Figure 1. Forecasted Lake Cachuma Elevation with a Repeat of Dry Hydrology (WY 2015)

Infrastructure Improvement Planning

Infrastructure improvement planning efforts continue by COMB staff. A draft budget for FY 2018-19 has been prepared for review by the Administrative Committee prior to submission to the Board. In addition, supporting documents including the Infrastructure Improvement Planning document has been updated. Table 2 provides a summary of the FY 2017-18 Infrastructure Improvement Projects. Several projects were delayed this year due to the drought and impacts from the Thomas Fire and subsequent debris flows.

Table 1. Infrastructure Improvement Projects Status

<i>Infrastructure Improvement Projects</i>	<i>Status / Phase</i>	<i>Complexity / Challenges</i>	<i>Estimated Completion Date</i>
SCC Structure Rehabilitation (AVAR/BO)	Engineering completed by HDR Engineering. Construction contract approved. Schedule A, B, C work to be completed in FY 2018-2019 (Cater WTP to Barker Pass).	Work to be completed in low demand months. Two 3-day shutdowns required which need to be coordinated with Member Agencies demands.	May 2019 (Sch. A, B, C)
ROW Identification Program	Brochure prepared/website updated. Approval needed from Public Relations Committee before distribution.	Brochure may generate additional questions from landowners within easements. Brochure will be distributed first to property owners with the SCC located within their parcel.	June 2018 (additional work planned in following years).
Lateral 3 Structure	Construction contract in place, parts ordered, repair scheduled for FY 2018-2019. Delayed due to drought/fire impacts.	Requires 10-day shutdown in upper reach of the system.	January 2019
Emergency Pumping Facility Project	Contract and permits in place for re-deployment if necessary. Evaluated alternatives to delay or partially deploy to reduce costs. Implementation options will be discussed in more detail in June meetings.	Need highly dependent on lake levels and actual downstream releases. Current design requires long lead time in installation before the barge is utilized.	TBD
Rehabilitate San Antonio Creek Blow-off	RFP issued for engineering design. One proposal was received for engineering. Potential contractor visited site and refined proposal. Repair planned to be timed with Lateral 3 shutdown in FY 2018-2019.	Based on evaluation of the blow-off, the current plan is to replace the valves in-kind and abandon 3" riser pie from the saddle connection. The repair requires shutdown in upper reach of the system and is planned to occur during Lateral 3 shutdown.	January 2019
North Portal Slope Stabilization	Slope stabilization work complete, road re-pavement is needed. Remaining funds in contract could be used to repave portion of roadway.	Area vulnerable due to Whittier Fire.	October 2017
Sycamore Canyon Slope Stabilization	Geotech/survey work complete, preliminary engineering design and costs received. Plan to complete first phase slope stabilization work FY 18-19.	First phase of the repair in FY 18-19 will focus on stabilizing the eroded slope and fixing the drainage issues. A second phase will likely be needed in the future to stabilize the overall slope. Work will remain in easement.	October 2018 (Phase I)
Meter Replacement Project	City of Santa Barbara replaced three meters in system in March 2018 including Cater influent, Gibraltar and booster pump station meters with highly accurate, lab-tested Venturi meters as part of their overall meter update program. The new meters were operational in April.	COMB plans to continue to observe meter reads and compare its system meter measurements with the member unit meters. Additional meter replacements are on hold at this time until evaluation is complete.	TBD (on hold)
North Portal IT/Control Building Seismic Assessment	RFP ready to be issued but on hold as lake levels impact seismic assessment.	With lower lake levels and the Intake Tower exposed, it is easier to evaluate the structural integrity of Intake Tower.	TBD
SCC San Jose Creek Pipe Stabilization Evaluation	A detailed survey of the crossing is needed for implementing temporary protection measures and potential future repair. A survey is planned for future months.	Top of pipeline is exposed on west bank of creek. In near term, temporary pipe protection options are being considered. There exists a need for a long-term solution. Fish passage impacts to the stream are a challenge.	October 2018 (temp protection)

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: May 21, 2018
TO: Janet Gingras, General Manager
FROM: Dave Stewart, Operations Division Manager
RE: **MONTHLY OPERATIONS DIVISION REPORT**

Operations

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

Lake Cachuma Operations

The total flow from Lake Cachuma into the Tecolote Tunnel for April was 1,002.5 acre-feet, for an average daily flow of 33.41 acre-feet. Lake elevation was 703.45 feet at the beginning of April and 703.23 feet at the end of April. Storage change decreased 363 acre-feet. CCWA wheeled 1218.6 acre-feet of water to Cachuma Project facilities.

Operation and Maintenance Activities

COMB staff regularly performs the following duties:

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

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

- Operation of the Lake Cachuma North Portal Intake Tower and Jet Flow Valve
- Regulate and maintain flows from Lake Cachuma to meet the needs of South Coast Member Units
- Dam inspection and instrumentation reports (all reservoirs)
- Weekly safety meetings
- Weekly rodent bait (all reservoirs)
- Weekly toe drain and piezometer reads at Ortega (L23)

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

Weekly Safety Meetings:

The primary purpose of the weekly safety meetings is to update training and educate staff on safe practices in the field and on-site. In the safety meetings, staff is urged to ask questions regarding the topic being discussed and to share related examples. The discussion also includes practices on preventative measures. Regular safety meetings assist staff to continually be aware of safety practices while on the job. The following topics were reviewed this past month:

Reading:

- Housekeeping – Discussed housekeeping techniques in and around the workplace or while out in the field and the importance of maintaining a clean working area to prevent injuries or accidents.
- Scorpion Safety – Discussed the dangers of working in areas where scorpions are present. Reviewed with staff the appropriate Personal Protective Equipment (PPE) to use while working in these areas along with company protocols and first aid steps to take if a scorpion sting occurred.
- Disposable Respirators – Reviewed the proper use for disposable respirators along with the correct application for when to use them.

COMB Operations staff specifically performed the following activities:

- Staff has been on site monitoring several ongoing projects throughout the area, working closely with the construction and engineering contractors to ensure that:
 - 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
- Continued the annual structure maintenance program on the Lower Reach of the SCC. To date staff has completed maintenance and valve exercising at 25 sites. The scope of work in this program is the exercising of all valves, servicing of air vents, repainting signage, cleaning and re-establishing site access.
- Completed repairs to the Toro Canyon blow off station #592+80 damaged during the mudslides.
- Completed repairs to the Parra Grande blow off station #318+50 damaged during the mudslides.
- Completed repairs to the Arroyo Paredon Air Vent and Turnout structures at station

#700+30 damaged during the mudslides.

- Began repairs to the San Ysidro Road blow off station #388+10 damaged during the mudslides.
- Completed the annual Lauro Reservoir weed abatement program. Included in this program is the clearing and removal of vegetation and brush around the reservoir, dam, roads, yards and control station to meet defensible space requirements.
- Obtained the Lake Cachuma monthly water sampling for the City of Santa Barbara.
- The Operations department continually inspects all sites, reservoirs and the SCC for items to add to the IIP for future projects.

Current IIP projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation and Replacement - Executed contract with the lowest responsible bidder (Cushman Contracting Corporation).
- North Portal Slope Stabilization - The slope stabilization work is complete and road paving is slated for FY 2018-19.
- Sycamore Canyon Slide Repair – Survey and geotechnical field work is complete. Met with contractor to discuss results and preliminary design. Received preliminary design exhibits and construction cost estimate.
- Lateral No. 3 Replacement – The contractor is in place and parts are acquired. Construction is delayed until next winter due to drought and lack of alternative sources of water.

OPERATIONS PROJECT PHOTOS



Station #592+80 (Before)



Station # 592+80 (After)



Station #700+30 (Before)



Station #700+30 (After)



Station #318+50 (Before)



Station #318+50 (After)



Station #388+10 (Current- Blowoff structure buried)

On Going Projects

LAT 3A



Remove abandoned turnout and reconfigure blow off structure.

PATTERSON AVE.



Patterson Oaks subdivision

BOULDERS PROJECT



Boulders subdivision

CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: May 21, 2018
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- Reclamation continues to deliver approximately 2 cfs to Hilton Creek at the Lower Release Point through the Hilton Creek Emergency Backup System by gravity flow that is sustaining the *O. mykiss* population in the creek. No water is being delivered to the Upper Release Point due to difficulties in operating the Hilton Creek Watering System pumps. Target flows to the Highway 154 Bridge are being met through flow augmentation through the Outlet Works.

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

LSYR Steelhead Monitoring Elements:

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.

Migrant Trapping: The 2018 Trapping Plan was submitted to Reclamation in January with no comments received. This monitoring effort normally begins in January and continues through May depending on stream flow rates. This year the Hilton Creek traps were installed on 3/5/18 and the Salsipuedes Creek traps were installed on 3/23/18. Traps were installed late due to low flow conditions with little opportunity for fish movement. 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 migrant traps at Salsipuedes Creek and Hilton Creek have been removed for the season due to low and impassable flow for migration and a lengthy period of no fish movement observed, respectively. 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 were initiated in January within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access was permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Plan. The initial redd survey of the year started on 1/4/18. Redds have been observed in Hilton Creek, Quiota Creek, and Salsipuedes Creek. No new redds have been observed in the LSYR basin for over a month and the monitoring effort has been concluded for the season.

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.

Hilton Creek Gravel Augmentation: To date, the project has been successful as spawning activity has been observed at 3 of the 5 gravel augmentation sites and young of the year have just been observed at one of those sites. An initial report for this year's effort has been submitted to Reclamation for review.

Tributary Project Updates:

Quiota Creek Crossing 5: As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. COMB was awarded the grant and the COMB Board accepted the grant by resolution on 5/22/17. The Board approved by resolution expenditures of funds for the project on 6/26/17. All permits and final designs for the project have been obtained and approved. The construction of the project has gone out for competitive bidding in conjunction with the Quiota Creek Crossing 9 Project. The results of that bidding effort for both projects are presented under a separate Board memo.

Quiota Creek Crossing 8: Funding for this project have been applied for through two separate grant programs. The initial grant was with CalTrans and required a Cooperative Agreement with the County. 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 for this project 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. On 5/15/18, the CDFW-FRGP Technical Grant Review Team visited the site. They evaluated the technical aspects of the project, scored it, and then will provide their recommendations to the Director of CDFW. The grant award notices will be given during February 2019.

Quiota Creek Crossing 9: COMB was awarded a CDFW-FRGP grant for the Crossing 9 Project for \$993,121 with a \$50,000 COMB construction match. The project is tentatively scheduled for construction in the fall of this year pending permit acquisition and design approval. The construction of the project has gone out for competitive bidding in conjunction with the Quiota Creek Crossing 5 Project. The results of that bidding effort for both projects are presented under a separate Board memo.

Salsipuedes Creek – Jalama Road Fish Ladder: On 5/15/18, CDFW grant manager and design engineer visited the site to review the COMB prepared design options for fixing the fish ladder as requested by CDFW. We are now awaiting their recommendations on how to go forward with the fix of the fish ladder if they determine it to be necessary.

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

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

The HCWS and HCEBS are owned, operated and maintained by Reclamation. The HCEBS was completed at the end of January 2016. With this system fully operational, Reclamation has now been working on the identified repairs to the HCWS with recent success on getting the pumping system operational. Work is still needed on the HCEBS to meet operational design and Reclamation has been working on that system during the week of 5/14/18.

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 Reclamation'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 Reclamation 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, and the most recent release 8/21/17 - 11/8/17. 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 last winter's runoff) by NMFS and Reclamation. Therefore they are not reflected in Table 1.

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

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	0	3,200
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		16,711	
Total:	9,184	22,344	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 4/30/18.			
*** 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 Reclamation report) and the Annual Monitoring Summaries (the COMB report). The WY2013 and WY2014 AMRs and AMSs have been completed and sent to NMFS and posted on the COMB webpage, respectively. Staff has been providing information to Reclamation as requested in support of re-consultation and other operational requests.

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

Consultant Activity Summary:

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 21, 2018
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, 2017 to the present (7/1/17 – 5/21/18, Table 1). Labor and expenses for the entire fiscal year (July 2017 - June 2018) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16, which sets the mitigation number for the program. The 2016 Annual Inventory and Fiscal Year 2016-2017 Financial Report has been completed and reviewed by the Lake Cachuma Oak Tree Committee during their 8/9/17 meeting. The directives for the coming fiscal year have been presented by the Committee chairperson during the August COMB Board meeting and those directives have been followed.

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

	July 2017	Aug 2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018*	March 2018*	April 2018*	May 2018
Year 9 Oaks (2016-2017)	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Weeded		Irrigated Weeded	Mulched			Irrigated Weeded
Year 8 Oaks (2015-2016)	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Weeded	Irrigated Weeded		Mulched	Mulched	Mulched Weeded	Irrigated Weeded
Year 7 Oaks (2014-2015)			Irrigated Weeded						Mulched Deer Cages	Mulched Weeded	
Year 6 Oaks (2010-2011)				Irrigated Weeded Deer Cages	Pruning Deer Cages		Deer Cages	Deer Cages			
Year 5 Oaks (2009-2010)					Deer Cages	Irrigated Weeded					
Year 4 Oaks (2008-2009)						Irrigated Weeded					Deer Cages
Year 3 Oaks (2007-2008)						Irrigated Weeded					Deer Cages
Year 2 Oaks (2006-2007)				Irrigated Weeded Deer Cages							
Year 1 Oaks (2005-2006)				Irrigated Weeded Deer Cages							
*Annual Oak Tree Inventory											

The annual oak tree inventory has been completed (see photos in Exhibit 1). The inventory results will be provided to the Lake Cachuma Oak Tree Committee.

Crews have begun irrigating the Year 8 and Year 9 oak trees at Bradbury Dam and the Santa Barbara County Park. Hand weeding is being conducted in and around the trees during irrigation. Once the newer age classes of oak trees have been watered, crews will provide late spring irrigation to the older age classes of trees as timer permits.

Deer cages are also being removed from the Year 3 and Year 4 trees at Bradbury Dam that have grown taller than 6 feet. Some tree cages are also being widened in these zones to accommodate growing trees.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

1. Photos of the 2017 Oak Tree Inventory.

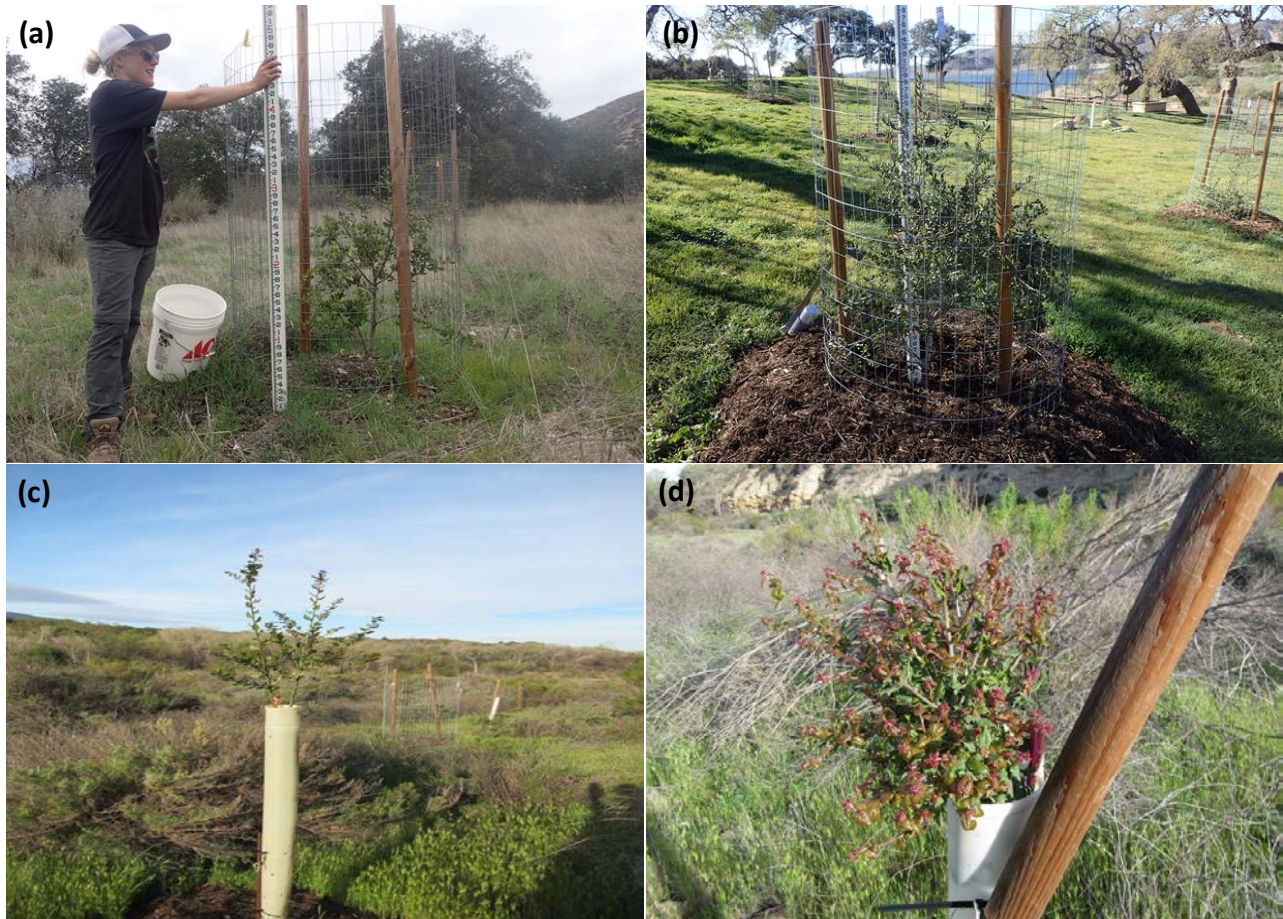


Exhibit 1: Lake Cachuma Oak Tree Restoration Program showing (a) height measurement during annual oak tree inventory, (b) Year 8 tree (2016) at Santa Barbara County Park, (c) vertical growth through 4 foot tube, and (d) new prolific growth above tube.

CACHUMA OPERATION AND MAINTENANCE BOARD

METERED USE REPORT FOR APRIL 2018

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		46.84	18+62	G. WEST	78.98
Boundary Meter - West		(0.04)	78+00	Corona Del Mar FILTER Plant	204.03
			122+20	STOW RANCH	0.00
				Raytheon (SWP) (Warren Act Contract)	(5.00)
				Morehart (SWP) (Warren Act Contract)	(3.00)
				SWP CREDIT (Warren Act Contract)	(196.03)
			TOTAL		78.98
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	46.82
			386+65	MWD YARD	7.68
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	154.35
			510+95	MWD PUMP (SWD)	10.47
			510+95	ORTEGA CONTROL	2.09
			526+43	ASEGRA RD	3.61
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	0.00
				SWP CREDIT (Warren Act Contract)	(225.02)
			TOTAL		0.00
			CITY OF SANTA BARBARA		
			CATER	INFLOW	869.13
			Gibraltar	PENSTOCK	(58.33)
			CATER	SO. FLOW	(469.94)
			Sheffield	SHEF.LIFT	184.27
				SWP (Warren Act)	(496.17)
				La Cumbre Mutual SWP (Warren Act)	(28.96)
			TOTAL		(0.00)
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		1.89
			TOTAL		1.89
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		1218.00
			STATE WATER TO SOUTH COAST (including from storage)		(1000.98)
			METERED DIVERSION		80.88
SWP CREDIT (Warren Act Contract) (46.80) TOTAL 0.00					
Note: Meter reads were taken on: 4/30/2018					

17-18 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF APRIL 2018 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

	MONTH	WYTD
SCC WATER PRODUCTION:		
Cachuma Lake (Tec. Diversion)	1,028.2	8,876.5
Tecolote Tunnel Infiltration	116.3	636.6
Cachuma Lake (County Park)	1.9	10.3
Subtotal - Water Production	1,146.4	9,523.3
SCC WATER DELIVERIES:		
State Water Diversion	1,001.0	6,621.8
Cachuma Diversion	80.9	2,372.4
So. Coast Storage gain/(loss)	49.6	57.9
Subtotal - Water Deliveries	1,131.5	9,052.1
Total Water Production	1,146.4	9,523.3
Total Water Deliveries	1,131.5	9,052.1
Difference = Apparent Water Loss	14.9	471.2
% Apparent Water Loss	1.30%	4.95%

SCC APPARENT WATER LOSS ALLOCATION ⁽²⁾

	GWD	SB CITY	MWD	CVWD	TOTAL
CURRENT MONTH CHARGE / (ADJUSTMENT) ⁽²⁾					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.2	0.0	0.0	0.0	0.2
Subtotal Cachuma Project	0.2	0.0	0.0	0.0	0.2
(+) State Water Project	0.4	7.7	5.1	1.5	14.7
Total	0.6	7.7	5.1	1.5	14.9
WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)					
M&I	9.9	0.0	0.0	37.0	46.9
Agriculture	6.5	0.0	0.0	49.1	55.6
Subtotal Cachuma Project	16.4	0.0	0.0	86.1	102.5
(+) State Water Project	16.6	150.1	185.1	17.0	368.8
Total	33.0	150.1	185.1	103.1	471.3

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	0.0	0.0	0.0	0.0	1.9	1.9
Agricultural	79.0	0.0	0.0	0.0	N/A	79.0
Subtotal Project Water Use	79.0	0.0	0.0	0.0	1.9	80.9
(+) Apparent Water Loss	0.2	0.0	0.0	0.0	N/A	0.2
(+) Evaporative Loss ⁽³⁾	16.1	45.0	11.4	0.2	0.1	72.8
Total Project Water Charge	95.2	45.0	11.4	0.2	2.0	153.8
WATER YEAR-TO-DATE						
Water Usage						
M&I	1,097.3	0.0	0.0	289.3	10.3	1,396.8
Agricultural	591.9	0.0	0.0	385.7	N/A	977.7
Subtotal Project Water Use	1,689.2	0.0	0.0	675.1	10.3	2,374.5
(+) Apparent Water Loss	16.4	0.0	0.0	86.1	N/A	102.5
(+) Evaporative Loss ⁽³⁾	122.3	243.6	61.8	18.8	0.7	447.2
Total Project Water Charge (*)	1,827.9	243.6	61.8	780.0	10.9	2,924.2

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

17-18 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF APRIL 2018 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT WATER BALANCE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
Project Water Carryover - 10/1/2017	3,088.0	3,988.0	1,011.0	800.0	16.0	8,903.0
(-) Project Water Charge (WYTD)	1,827.9	243.6	61.8	780.0	10.9	2,924.2
Balance Carryover Water	1,260.1	3,744.4	949.2	20.0	5.1	5,978.8
Current Year Allocation ⁽⁴⁾	3,728.0	3,311.0	1,060.0	1,125.0	1,060.0	10,284.0
(-) Balance of Project Water Charge (WYTD)	0.0	0.0	0.0	0.0	0.0	0.0
Net Allocation Available Before Adjustments	3,728.0	3,311.0	1,060.0	1,125.0	1,060.0	10,284.0
Adjustments to Net Allocation (WYTD)						
Carryover Balances Spilled	0.0	0.0	0.0	0.0	0.0	0.0
Surplus	0.0	0.0	0.0	0.0	0.0	0.0
State Water Exchange ⁽⁵⁾	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment ⁽⁶⁾	100.0	0.0	0.0	0.0	0.0	100.0
Balance Current Year Allocation	3,828.0	3,311.0	1,060.0	1,125.0	1,060.0	10,384.0
Total Cachuma Project Water Available	5,088.1	7,055.4	2,009.2	1,145.0	1,065.1	16,362.8

Footnotes

- (1) Water Year = October 1 through September 30
- (2) Based on an correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted-for water loss based on lake conditions
- (3) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (4) Per USBR, 40% Allocation to Member Agencies, effective 10/1/17
- (5) There were no SWP Exchanges in February 2018
State Water Deliveries to Lake Cachuma for March 2018 (Total =976 AF): MWD 255 AF; CVWD 70 AF
GWD 381 AF(Morehart 2 AF); City of S.B. 254 AF; and LaCumbre 10 AF; (Raytheon 4 AF)
- (6) Transfer per Contract for Exchange Water with Thomas B. Bishop Company and GWD (100 AF)

SUMMARY: APPARENT WATER LOSS ALLOCATION

April 2018

	Lauro & Cater Loss (LE + CTPL)	Ortega Toe Drain (OTD)	Use Area 1	Use Area 2	Use Area 3	Use Area 4	Total (AF)	Rounded Total (AF)
GWD	0.3	0.0	0.1	0.1	0.0	0.0	0.6	0.6
City of SB	5.1	0.0	0.2	2.3	0.1	0.0	7.7	7.7
MWD	2.3	0.5	0.1	1.0	0.1	1.0	5.1	5.1
CVWD	0.5	0.5	0.0	0.2	0.0	0.2	1.5	1.5
Total	8.1	1.0	0.5	3.7	0.3	1.3	14.9	14.9

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **April 2018**

GLEN ANNIE RESERVOIR ⁽¹⁾

Capacity at 385' elevation:	518	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	336.00	Feet
Water in Storage	30.92	AF

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	547.80	Feet
Water in Storage	566.18	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	446.50	Feet
Water in Storage	17.95	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	374.24	Feet
Water in Storage	21.86	AF

TOTAL STORAGE IN RESERVOIRS ⁽¹⁾

Change in Storage	605.99	AF
	49.64	AF

CACHUMA RESERVOIR ⁽²⁾

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

Stage of Reservoir Elevation	703.23	Feet
Water in Storage	77,436	AF
Surface Area	1,654	
Evaporation	634.1	AF
Inflow	288.9	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	155.0	AF
Outlet	121.0	AF
Spill/Seismic Release	0	AF
State Water Project Water	1259.7	AF
Change in Storage	-347	AF
Tecolote Diversion	1,028.2	AF

Rainfall:	Month:	9.37	Season:	Percent of Normal:	48%
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(1) The Glen Annie Reservoir is currently offline and is excluded from the Total Storage in Reservoirs amount.

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Goleta Water District**
 Last updated by C.O.M.B. 04/30/18

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
	3,088.0	3,728.0
Total	3,088.0	3,728.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
570.6	170.4	741.1	45.1	741.1	786.2	605.4	180.8	0.0
434.3	160.6	595.0	17.8	595.0	612.8	447.3	165.5	0.0
102.2	35.9	138.1	11.2	138.1	149.3	110.5	38.8	0.0
0.0	42.6	42.6	10.4	42.6	53.0	0.0	53.0	0.0
0.0	98.0	98.0	12.2	98.0	110.2	0.0	110.2	0.0
0.0	11.6	11.6	9.6	11.6	21.2	0.0	21.2	0.0
0.0	79.2	79.2	16.1	79.2	95.2	0.0	95.2	0.0
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,107.2	598.4	1,705.6	122.3	1,705.6	1,827.9	1,163.2	664.7	0.0

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

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
Month	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	3,088.0	1,976.0	1,112.0	2,609.0	1,119.0	3,728.0
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Bishop Ranch Exch (100AF)	-	-	-	100.0	-	100.0
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
Month	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	2,301.8	1,370.6	931.2	2,609.0	1,119.0	3,728.0
Nov	1,689.0	923.3	765.7	2,609.0	1,119.0	3,728.0
Dec	1,539.7	812.8	726.9	2,609.0	1,119.0	3,728.0
Jan	1,486.7	812.8	673.9	2,609.0	1,119.0	3,728.0
Feb	1,376.5	812.8	563.7	2,609.0	1,119.0	3,728.0
Mar	1,355.3	812.8	542.5	2,609.0	1,119.0	3,728.0
Apr	1,260.1	812.8	447.3	2,709.0	1,119.0	3,828.0
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **5,088.1**

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **City of Santa Barbara**
 Last updated by C.O.M.B. 04/30/18

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	3,988.0	3,311.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	3,988.0	3,311.0

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
0.0	0.0	0.0	58.3	0.0	58.3	58.3	0.0	0.0	0.0	0.0
0.0	0.0	0.0	30.4	0.0	30.4	30.4	0.0	0.0	0.0	0.0
0.0	0.0	0.0	25.9	0.0	25.9	25.9	0.0	0.0	0.0	0.0
0.0	0.0	0.0	26.1	0.0	26.1	26.1	0.0	0.0	0.0	0.0
0.0	0.0	0.0	31.5	0.0	31.5	31.5	0.0	0.0	0.0	0.0
0.0	0.0	0.0	26.5	0.0	26.5	26.5	0.0	0.0	0.0	0.0
0.0	0.0	0.0	45.0	0.0	45.0	45.0	0.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	243.6	-	243.6	243.6	-	-	-	-

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	-	-		-	-	

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
Month	Total	Allocation		Allocation	
		M & I	----	M & I	----
Begin Bal	3,988.0	3,988.0		3,311.0	3,311.0
Oct					-
Nov					-
Dec					-
Jan					-
Feb					-
Mar					-
Apr					-
May					-
Jun					-
Jul					-
Aug					-
Sep					-

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
Month	Total	Allocation		Allocation	
		M & I	----	M & I	----
Oct	3,929.7	3,929.7	-	3,311.0	3,311.0
Nov	3,899.3	3,899.3	-	3,311.0	3,311.0
Dec	3,873.4	3,873.4	-	3,311.0	3,311.0
Jan	3,847.4	3,847.4	-	3,311.0	3,311.0
Feb	3,815.8	3,815.8	-	3,311.0	3,311.0
Mar	3,789.3	3,789.3	-	3,311.0	3,311.0
Apr	3,744.4	3,744.4	-	3,311.0	3,311.0
May					
Jun					
Jul					
Aug					
Sep					

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 7,055.4

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Carpinteria Valley Water District**
 Last updated by C.O.M.B. 04/30/18

CARRYOVER WATER	CURRENT YEAR ALLOCATION
-----------------	-------------------------

	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Month		
Oct	800.0	1,125.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	<u>800.0</u>	<u>1,125.0</u>

TOTAL WATER CHARGED			WATER USE CHARGED				WATER USE CHARGED				
Acre-feet											
M & I	Agr	Total	Evap	Used	Total	Allocation		Allocation		Total	
						M & I	Agr	M & I	Agr		
Oct	85.9	121.2	207.1	11.7	207.1	218.8	90.7	128.1	0.0	0.0	0.0
Nov	125.0	155.3	280.3	4.5	280.3	284.8	127.0	157.8	0.0	0.0	0.0
Dec	115.4	158.4	273.7	2.0	273.7	275.7	116.2	159.5	0.0	0.0	0.0
Jan	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Mar	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Apr	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Total	<u>326.3</u>	<u>434.9</u>	<u>761.1</u>	<u>18.8</u>	<u>761.1</u>	<u>780.0</u>	<u>334.0</u>	<u>446.0</u>	<u>-</u>	<u>-</u>	<u>-</u>

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

SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS				
				Allocation		Allocation		Total
				M & I	Agr	M & I	Agr	Total
Month								
Begin Bal	800.0	340.0	460.0	518.0	607.0	1,125.0		
Oct								
Nov								
Dec								
Jan								
Feb								
Mar								
Apr								
May								
Jun								
Jul								
Aug								
Sep								

BALANCE - CARRYOVER WATER				BALANCE - CURR YR ALLOC				
				Allocation		Allocation		Total
				M & I	Agr	M & I	Agr	Total
Month								
Oct	581.2	249.3	331.9	518.0	607.0	1,125.0		
Nov	296.4	122.2	174.2	518.0	607.0	1,125.0		
Dec	20.7	6.0	14.7	518.0	607.0	1,125.0		
Jan	20.6	6.0	14.5	518.0	607.0	1,125.0		
Feb	20.4	6.0	14.4	518.0	607.0	1,125.0		
Mar	20.3	6.0	14.2	518.0	607.0	1,125.0		
Apr	20.0	6.0	14.0	518.0	607.0	1,125.0		
May								
Jun								
Jul								
Aug								
Sep								

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 1,145.0

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 04/30/18

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	1,011.0	1,060.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	1,011.0	1,060.0

Month	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
	Acre-feet			Evap	Used	Total	Allocation		Allocation		Total
	M & I	Agr	Total				M & I	Agr	M & I	Agr	
Oct	0.0	0.0	0.0	14.8	-	14.78	11.6	3.2	0.0	0.0	0.0
Nov	0.0	0.0	0.0	7.7	-	7.7	6.0	1.7	0.0	0.0	0.0
Dec	0.0	0.0	0.0	6.6	-	6.6	5.2	1.4	0.0	0.0	0.0
Jan	0.0	0.0	0.0	6.6	-	6.6	5.2	1.4	0.0	0.0	0.0
Feb	0.0	0.0	0.0	8.0	-	8.0	6.3	1.7	0.0	0.0	0.0
Mar	0.0	0.0	0.0	6.7	-	6.7	5.3	1.4	0.0	0.0	0.0
Apr	0.0	0.0	0.0	11.4	-	11.4	9.0	2.4	0.0	0.0	0.0
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	61.8	-	61.8	48.5	13.3	-	-	-

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	
Begin Bal	1,011.0	794.0	217.0	986.0	74.0	1,060.0	
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	996.2	782.4	213.8	986.0	74.0	1,060.0
Nov	988.5	776.3	212.2	986.0	74.0	1,060.0
Dec	982.0	771.2	210.8	986.0	74.0	1,060.0
Jan	975.3	766.0	209.3	986.0	74.0	1,060.0
Feb	967.4	759.7	207.6	986.0	74.0	1,060.0
Mar	960.6	754.4	206.2	986.0	74.0	1,060.0
Apr	949.2	745.5	203.7	986.0	74.0	1,060.0
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,009.2

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**
 Last updated by C.O.M.B. 04/30/18

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	16.0	1,060.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	16.0	1,060.0

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED			
M & I	Agr	Total	Evap	Used	Total	Allocation		Allocation		Total
						M & I	Agr	M & I	Agr	
2.4	0.0	2.4	0.2	2.4	2.6	2.6	0.0	0.0	0.0	0.0
1.2	0.0	1.2	0.1	1.2	1.3	1.3	0.0	0.0	0.0	0.0
2.4	0.0	2.4	0.1	2.4	2.4	2.4	0.0	0.0	0.0	0.0
0.9	0.0	0.9	0.1	0.9	1.0	1.0	0.0	0.0	0.0	0.0
1.3	0.0	1.3	0.1	1.3	1.4	1.4	0.0	0.0	0.0	0.0
0.2	0.0	0.2	0.1	0.2	0.2	0.2	0.0	0.0	0.0	0.0
1.9	0.0	1.9	0.1	1.9	2.0	2.0	0.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
10.3	0.0	10.3	0.7	10.3	10.9	10.9	0.0	0.0	0.0	0.0

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
2.6	(2.6)	-	-
1.3	(1.3)	-	-
2.4	(2.4)	-	-
1.0	(1.0)	-	-
1.4	(1.4)	-	-
0.2	(0.2)	-	-
2.0	(2.0)	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	16.0	0.0	16.0	710.0	350.0	1,060.0
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

*NOTE:

Month
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 Aug
 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
County Parks Usage (AF)	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	2.4	-	13.4	710.0	350.0	1,060.0
Nov	1.2	-	12.0	710.0	350.0	1,060.0
Dec	2.4	-	9.6	710.0	350.0	1,060.0
Jan	0.9	-	8.6	710.0	350.0	1,060.0
Feb	1.3	-	7.2	710.0	350.0	1,060.0
Mar	0.2	-	7.0	710.0	350.0	1,060.0
Apr	1.9	-	5.1	710.0	350.0	1,060.0
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **1,065.1**

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Santa Barbara Co. Water Agency**
 Last updated by C.O.M.B. 04/30/18

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	8,903.0	10,284.0	0.1	658.9	291.7	950.6	130.2	950.6	1,080.8	768.7	312.1	0.0	0.0	0.0
Nov			0.0	560.6	315.9	876.5	60.5	876.5	937.0	612.1	324.9	0.0	0.0	0.0
Dec			0.0	219.9	194.3	414.2	45.7	414.2	459.9	260.1	199.7	0.0	0.0	0.0
Jan			0.0	0.9	0.0	43.5	43.3	43.5	86.8	32.2	54.5	0.0	0.0	0.0
Feb			0.0	1.3	98.0	99.3	52.0	99.3	151.3	39.2	112.1	0.0	0.0	0.0
Mar			0.0	0.2	11.6	11.8	42.9	11.8	54.7	32.0	22.8	0.0	0.0	0.0
Apr			0.0	1.9	79.2	81.0	72.8	81.0	153.8	55.9	97.9	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-	-
Total	8,903.0	10,284.0	0.2	1,443.7	1,033.3	2,477.0	447.2	2,477.0	2,924.2	1,800.2	1,124.0	0.0	0.0	0.0

Month	CONVERSIONS (M&I AND AG)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	2.6	(2.6)	-	-
Nov	1.3	(1.3)	-	-
Dec	2.4	(2.4)	-	-
Jan	1.0	(1.0)	-	-
Feb	1.4	(1.4)	-	-
Mar	0.2	(0.2)	-	-
Apr	2.0	(2.0)	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	-	-

Month
 Oct
 Nov
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Month	SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
	Begin Bal	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct		8,903.0	7,098.0	1,805.0	8,134.0	2,150.0	10,284.0
Nov		-	-	-	-	-	-
Dec		-	-	-	-	-	-
Jan		-	-	-	-	-	-
Feb		-	-	-	-	-	-
Mar		-	-	-	-	-	-
Apr		-	-	-	100.0	-	100.0
May		-	-	-	-	-	-
Jun		-	-	-	-	-	-
Jul		-	-	-	-	-	-
Aug		-	-	-	-	-	-
Sep		-	-	-	-	-	-

Month
 Oct
 Nov
 Dec
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 Mar
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 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	2.4	7,822.2	6,332.0	1,490.3	8,134.0	2,150.0	10,284.0
Nov	1.2	6,885.3	5,721.1	1,164.1	8,134.0	2,150.0	10,284.0
Dec	2.4	6,425.4	5,463.4	961.9	8,134.0	2,150.0	10,284.0
Jan	0.9	6,338.6	5,432.2	906.4	8,134.0	2,150.0	10,284.0
Feb	1.3	6,187.3	5,394.3	792.9	8,134.0	2,150.0	10,284.0
Mar	0.2	6,132.6	5,362.6	770.0	8,134.0	2,150.0	10,284.0
Apr	1.9	5,978.8	5,308.7	670.1	8,234.0	2,150.0	10,384.0
May							
Jun							
Jul							
Aug							
Sep							

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 16,362.8

CACHUMA DAILY OPERATIONS



Month & Year: **May 2018**

Time of Observations: **0830**

Evaporation Pan Factor: **81%**

Day	Beginning Storage: 77,436			Surface Area acres	Rainfall inches	Rainfall acre-feet	Evap. inches	Evap. acre-feet	CCWA Inflow acre-feet	Releases					Computed Inflow acre-feet		
	Elevation ft	Storage acre-feet	Change acre-feet							S. Coast acre-feet	Hilton acre-feet	WR8918 acre-feet	Outlet acre-feet	Spillway acre-feet			
1	703.20	77386	-50	1653	0.00		0.17	19.0	40.8	35.9	5.0		4.0		-26.5		
2	703.24	77452	66	1654	0.40	55.1	0.08	8.9	40.6	37.9	5.0		4.0		26.1		
3	703.23	77436	-17	1654	0.00		0.26	29.0	40.5	39.9	6.0		3.0		20.9		
4	703.22	77419	-17	1654	0.00		0.42	46.9	40.5	38.7	4.0		6.0		38.6		
5	703.21	77403	-17	1654	0.00		0.24	26.8	40.5	33.5	5.0		6.0		14.3		
6	703.21	77403	0	1654	0.00		0.10	11.2	40.5	29.9	5.0		6.0		11.6		
7	703.21	77403	0	1654	0.00		0.27	30.1	40.5	29.5	5.0		5.0		29.1		
8	703.19	77370	-33	1653	0.00		0.14	15.6	40.5	41.3	5.0		6.0		-5.6		
9	703.17	77337	-33	1653	0.00		0.62	69.2	40.5	49.7	5.0		5.0		55.3		
10	703.15	77304	-33	1652	0.00		0.33	36.8	40.4	48.9	5.0		6.0		23.3		
11	703.13	77271	-33	1652	0.00		0.19	21.2	40.6	50.8	5.0		5.0		8.4		
12	703.10	77221	-50	1651	0.00		0.17	18.9	40.6	51.0	5.0		6.0		-9.2		
13	703.09	77205	-17	1651	0.00		0.17	18.9	40.6	49.1	5.0		5.0		20.9		
14	703.08	77188	-17	1651	0.00		0.24	26.7	40.6	30.8	5.0		6.0		11.4		
15	703.06	77155	-33	1650	0.00		0.16	17.8	40.6	37.5	5.0		6.0		-7.3		
16	703.05	77139	-17	1650	0.00		0.37	41.2	40.6	42.8	4.0		6.0		36.9		
17	703.02	77089	-50	1649	0.00		0.32	35.6	40.6	43.3	5.0		6.0		-0.2		
18	703.00	77056	-33	1649	0.00		0.26	28.9	40.7	43.5	5.0		6.0		9.7		
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
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TOTALS			-380		0.40	55.1	4.51	502.9	0.0	730.2	0.0	734.0	89.0	0.0	97.0	0.0	257.8

Park Usage

Rain %

Yr. Total



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



**Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: April 2018**

Cachuma Lake Recreation Area Launch Data -- April 2018		
Inspection Data		
Total Vessels entering Park	448	
Total Vessels launched	435	
Total Vessels Quarantined	13	
Returning with Boat Launch Tag	311	71%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	124	29%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	13	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	13	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	3	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	13	
Demographic Data		
Quarantined from infected county	3	
Quarantined from SB County	9	
Quarantined from uninfected co	1	

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: 2018.04.30; 1:00 –3:00 PDT
 Method: 10 PVC/Cement Sampling Stations; 52 linear feet of line
 Surveyors: SBCO Parks
 Lake elevation: Max feet: 753.00, current 703.44; Max acre-feet: 193,305, current: 77,254;
 Current capacity: 40%