

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

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

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**Monday, January 23, 2017**

**2:00 P.M.**

**AGENDA**

1. **CALL TO ORDER, ROLL CALL**
2. **PUBLIC COMMENT** (Public may address the Board on any subject matter not on the agenda and within the Board's jurisdiction. See "Notice to the Public" below. Please make your comments from the podium once acknowledged by the President of the Board.)
3. **CONSENT AGENDA** (All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.)  
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
  - a. Minutes of December 19, 2016 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:
  - Oak Tree Committee Meeting – January 12, 2017
  - Fisheries Committee Meeting – January 13, 2017
5. **PROPOSED RESOLUTIONS**  
Action: Recommend approval by motion and roll call vote on one motion unless member requests separate consideration
  - a. Resolution No. 624 Authorizing Signatories for General Fund Account at American Riviera Bank
  - b. Resolution No. 625 Authorizing Signatories for Revolving Fund Account at American Riviera Bank
  - c. Resolution No. 626 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at American Riviera Bank
  - d. Resolution No. 627 Authorizing Investment of Monies in the Local Agency Investment Fund
  - e. Resolution No. 628 Establishing a Supplemental Account Agreement for Telephone Transfers
6. **LAKE CACHUMA: EMERGENCY PUMPING FACILITY (EPF) PROJECT**  
Receive an updated informational presentation from HDR Engineering, Inc.
  - HDR Engineering, Inc. Presentation – Alternatives for Long-Term Pump Station Operations

7. **FISCAL YEAR 2015-16 UNEXPENDED FUNDS**  
Action: Recommend approval by motion and roll call vote of the Board
8. **FISH PASSAGE IMPROVEMENT PROJECT – QUIOTA CREEK CROSSING 0A UPDATE AND CHANGE ORDER REQUEST**  
Action: Recommend approval by motion and roll call vote of the Board
9. **GENERAL MANAGER REPORT**  
Receive information from the General Manager on topics pertaining to COMB, including but not limited to, the following:
  - Meetings
  - Operations Division Activities
  - Fisheries Division Activities
10. **OPERATIONS DIVISION REPORT**  
Receive information regarding Operations Division, including but not limited to the following:
  - Lake Cachuma Operations
  - Operation and Maintenance Activities
11. **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
12. **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
13. **MONTHLY CACHUMA PROJECT REPORTS**  
Receive information regarding the Cachuma Project, including but not limited to the following:
  - Cachuma Water Reports
  - Cachuma Reservoir Current Conditions
  - Lake Cachuma Quagga Survey
14. **DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**
15. **[CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION**
  - a. [Government Code Section 54956.9(d)(4)]  
Name of matter: Protest of Member Agency re: Payment of Assessment for Certain Fisheries Related Activities
  - b. [Government Code Section 54956.9(d)(2)]  
Name of matter: Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision

16. **RECONVENE INTO OPEN SESSION**  
[Government Code Section 54957.7]  
Disclosure of actions taken in closed session, as applicable  
[Government Code Section 54957.1]
  - a. Protest of Member Agency re: Payment of Assessment for Certain Fisheries Related Activities
  - b. Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision
17. **MEETING SCHEDULE**
  - **February 27, 2017 at 2:00 P.M., COMB Office**
  - **Board Packages Available on COMB Website [www.cachuma-board.org](http://www.cachuma-board.org)**
18. **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 & MAINTENANCE BOARD**

**held at  
3301 Laurel Canyon Road, Santa Barbara, CA  
Monday, December 19, 2016**

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**1. Call to Order, Roll Call**

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

**Directors present:**

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

**Others present:**

Janet Gingras	Donna Payne
Adelle Capponi	John Dorwin
Adriane Passani	Nick Turner
Heather Harrison	Danna McGrew
Tim Robinson	William Carter
Edward Lyons	David Flora Jr.
Nina Pisani	Phil Walker

**2. Public Comment**

Mr. John Dorwin, counsel to a member of the public and resident of Santa Barbara, notified the Board of his tentative plans to take certain potential litigation to court in Los Angeles County, instead, for expediency purposes.

Mr. Phil Walker noted the varying degrees of drought conditions across California; and Mr. Robert McDonald, General Manager of Carpinteria Valley Water District (CVWD), voiced his support and appreciation in regards to pursuing a Seismic Reliability Assessment of the Tecolote Tunnel's North Portal Intake Tower.

**3. Consent Agenda**

**a. Minutes**

November 4, 2016 Special Board Meeting  
November 28, 2016 Regular Board Meeting

**b. Investment Funds**

Financial Reports  
Investment Reports

**c. Review of Paid Claims**

Director Hanson moved to approve the consent agenda, as presented in the board packet. Following staff explanation of several paid claims, Director Holcombe seconded the motion, which carried 6/0/1 as follows:

**Ayes:** Morgan, Holcombe, Hanson, White

**Nays:** None

**Absent/Abstain:** Walsh

#### **4. Verbal Reports from Board Committees**

- *Administrative Committee Meeting – December 9, 2016:* Director White stated the Administrative Committee received Bartlett, Pringle, & Wolfe, LLP's (BPW) presentation of the COMB Fiscal Year 2015-16 Draft Financial Audit as the sole item, and that it would be presented to the Board as the next item of today's agenda. He also updated the Board regarding the Fiscal Year 2015-16 Unexpended Funds, which staff will present at the following Regular Board meeting.

#### **5. Draft Financial Audit Report as of June 30, 2016 – Presentation from Bartlett, Pringle & Wolfe, LLP**

The Board received BPW's presentation of the COMB Fiscal Year 2015-16 Draft Financial Audit. President Morgan commended auditors and staff, noting explicitly that the audit was clean and thorough, and the Board was pleased with the results.

Director Hanson moved to receive and file the finalized COMB Fiscal Year 2015-16 Audit. Seconded by Director Holcombe, the motion carried 6/0/1 as follows:

**Ayes:** Morgan, Holcombe, Hanson, White

**Nays:** None

**Absent/Abstain:** Walsh

#### **6. General Manager Report**

- *Cachuma Project Member Unit Manager Meetings*
- *Administration*
- *Operations Division*
- *Fisheries Division*

Ms. Janet Gingras, General Manager, highlighted topics within her report, provided updates on current and ongoing deliverables and topic of interest, and offered to field questions from the Board.

#### **7. Operations Division Report**

- *Lake Cachuma Operations*
- *Operation and Maintenance Activities*

Mr. David “Buddy” Flora, COMB Lead Operator, presented the report on behalf of Operations Division Manager, Mr. Dave Stewart, and gave a detailed summary of the Division’s tasks and objectives for the month and addressed questions from the Board.

#### **8. Update: Fish Passage Improvement Projects**

- *Quiota Creek Crossing 0A*
- *Quiota Creek Crossing 4*

Mr. Tim Robinson, Fisheries Division Manager, was pleased to report that the Crossing 0A Project was complete on December 15, 2016, and to the upmost satisfaction of all various interests, including that of granting and regulatory agencies. Director Hanson inquired as to whether there had been any resurgence of interest in implementing a similar project on an adjacent parcel, to which Mr. Robinson replied that he was uncertain, but would do some investigating. Additionally, he notified the Board that the Crossing 4 Project is substantially complete, with only closeout work remaining, and that he anticipates under-budget project completion within a tight schedule.

#### **9. Fisheries Division report**

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

Mr. Robinson highlighted his report, as included in the board packet, and offered to field questions from the Board.

#### **10. Progress Report on Lake Cachuma Oak Tree Program**

- Maintenance and Monitoring

Mr. Robinson updated the Board on the progress of the Program. He offered once more to coordinate and then escort any interested Directors on a program tour.

#### **11. Monthly Cachuma Projects Reports**

The monthly reports were included in the Board Packet for information.

#### **12. 2017 COMB Regular Board Meeting Calendar**

A calendar listing all 2017 COMB Regular Board Meeting dates was included in the Board Packet for information.

#### **13. Resolution No. 623 Honoring Adelle Capponi on her Retirement from COMB**

On behalf of the Board, President Morgan read aloud and presented the resolution to Ms. Adelle Capponi graciously praising and thanking her for her many years of dutiful efficiency and brightness. Director Hanson then moved to approve Resolution No. 623. Seconded by Director Holcombe, the motion carried 6/0/1 as follows:

**Ayes:** Morgan, Holcombe, Hanson, White

**Nays:** None

**Absent/Abstain:** Walsh

#### **14. Directors' Requests for Agenda Items for Future Meeting**

- President Morgan requested the COMB employee Benefits structure go to the Administrative Committee for prompt review and consideration.
- Director White, echoed by Director Hanson, requested Ms. Gingras investigate COMB's eligibility to participate in the scoping and development of a Community Wildfire Protection Plan within the Cachuma Watershed.

#### **15. [Closed Session]: Conference with Legal Counsel: Existing and Potential Litigation**

The Board went into closed session at 4:05 p.m.

- a) [Government Code Section 54956.9(d)(4)]  
Name of matter: Protest of Member Agency re: Payment of Assessment for Certain Fisheries Related Activities
- b) [Government Code Section 54956.9(d)(2)]  
Name of matter: Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision

#### **16. 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 5:04 p.m.

- a) Protest of Member Agency re: Payment of Assessment for Certain Fisheries Related Activities
- b) Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision

There was no reportable action.

#### **17. Meeting Schedule**

- **January 23, 2017 at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**  
[www.cachuma-board.org](http://www.cachuma-board.org)

#### **18. COMB Adjournment**

There being no further business, the meeting adjourned at 5:05 p.m.

Respectfully submitted,

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Janet Gingras, Secretary of the Board

**APPROVED:**

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Doug Morgan, President of the Board

	<b><i>Approved</i></b>
√	<b><i>Unapproved</i></b>

**COMB**  
**Statement of Net Assets**

As of December 31, 2016  
UNAUDITED FINANCIALS

**ASSETS**

**Current Assets**

**Checking/Savings**

**TRUST FUNDS**

1210 · WARREN ACT TRUST FUND 713,592.52

1220 · RENEWAL FUND 63,087.61

**Total TRUST FUNDS** 776,680.13

1050 · GENERAL FUND 720,500.77

1100 · REVOLVING FUND 85,223.00

**Total Checking/Savings** 1,582,403.90

**Accounts Receivable**

1301 · ACCOUNTS Receivable 50,000.00

1325 · Bank Loan Receiveable - EPFP 25,395.46

**Total Accounts Receivable** 75,395.46

**Other Current Assets**

1010 · PETTY CASH 500.00

1200 · LAIF 1,062,865.55

1303 · Bradbury SOD Act Assmnts Rec 184,938.00

1304 · Lauro Dam SOD Assesmnt Rec 25,930.00

1315 · Assessments Rec 77,517.78

1400 · PREPAID INSURANCE 27,269.72

**Total Other Current Assets** 1,379,021.05

**Total Current Assets** 3,036,820.41

**Fixed Assets**

1500 · VEHICLES 436,876.93

1505 · OFFICE FURN & EQUIPMENT 440,652.20

1510 · MOBILE OFFICES 97,803.34

1515 · FIELD EQUIPMENT 559,852.38

1525 · PAVING 38,351.00

1550 · ACCUMULATED DEPRECIATION -1,367,626.55

**Total Fixed Assets** 205,909.30

**Other Assets**

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

1920 · LT Lauro SOD Act Assess Rec 914,412.00

1922 · Deferred Outflows of Resources (GASB 68) 148,586.00

**Total Other Assets** 6,128,819.07

**TOTAL ASSETS** 9,371,548.78

**COMB**  
**Statement of Net Assets**

As of December 31, 2016  
UNAUDITED FINANCIALS

**LIABILITIES & NET ASSETS**

**Liabilities**

**Current Liabilities**

**Accounts Payable**

2200 · ACCOUNTS PAYABLE

242,462.74

**Total Accounts Payable**

242,462.74

**Other Current Liabilities**

Payroll-DepPrm Admin

177.31

Payroll-DepPrm FD

4.62

Payroll-DepPrm Ops

517.46

Payroll-PERS EE Field

-2.25

2505 · ACCRUED WAGES

37,117.79

2550 · VACATION/SICK

159,283.55

2561 · BRADBURY DAM SOD ACT

184,948.66

2563 · LAURO DAM SOD ACT

25,930.00

2565 · ACCRUED INTEREST SOD ACT

87,008.00

2567 · Loan Payable current EPFP

442,932.00

2590 · DEFERRED REVENUE

776,680.13

**Total Other Current Liabilities**

1,714,597.27

**Total Current Liabilities**

1,957,060.01

**Long Term Liabilities**

2602 · LT SOD Act Liability-Bradbury

5,065,811.07

2603 · LT SOD Act Liability - Lauro

914,412.00

2604 · OPEB LT Liability

907,923.00

2605 · Loan Payable - EPFP

1,494,909.14

2610 · Net Pension Liability (GASB 68)

1,160,030.00

2611 · Deferred Inflows of Resources (GASB 68)

224,052.00

**Total Long Term Liabilities**

9,767,137.21

**Total Liabilities**

11,724,197.22

**NET POSITION**

3000 · Opening Bal Equity

-1,357,356.05

3901 · Retained Net Assets

-631,271.21

Net Income

-364,021.18

**Total Net Assets**

-2,352,648.44

**TOTAL LIABILITIES & NET POSITION**

9,371,548.78

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
Budget vs. Actuals July 2016 - Jun 2017

	Fisheries			Operations			TOTAL		
	Jul - Dec 16	Budget	% of Budget	Jul - Dec 16	Budget	% of Budget	Jul - Dec 16	Budget	% of Budget
Income									
3000 REVENUE									
3001 - O&M Budget (Qtrly Assessments)	586,972.00	1,305,904.00	44.95%	2,199,163.03	4,417,789.00	49.78%	2,786,135.03	5,723,693.00	48.68%
3006 - Warren Act	0.00	238,306.00	0.0%	0.00	0.00	0.0%	0.00	238,306.00	0.0%
3007 - Renewal Fund	0.00	52,872.00	0.0%	0.00	0.00	0.0%	0.00	52,872.00	0.0%
3009 - Pmts - Member Agencies - EPPP	0.00	0.00	0.0%	637,104.25	0.00	0.0%	637,104.25	0.00	100.0%
3010 - Interest Income	0.00	0.00	0.0%	2,754.20	0.00	0.0%	2,754.20	0.00	100.0%
3015 - Watershed Sanitary Survey	0.00	0.00	0.0%	7,258.99	0.00	0.0%	7,258.99	0.00	100.0%
3033 - Grant-QC Crossing # 0 (a&b)	0.00	671,635.00	0.0%	0.00	0.00	0.0%	0.00	671,635.00	0.0%
3034 - Grant-QC Crossing #4	0.00	938,295.00	0.0%	0.00	0.00	0.0%	0.00	938,295.00	0.0%
3035 - Cachuma Project Betterment Fund	77,517.78	90,000.00	86.13%	0.00	0.00	0.0%	77,517.78	90,000.00	86.13%
3036 - Landowner Match-QC Crossing 0a	50,000.00	0.00	0.0%	0.00	0.00	0.0%	50,000.00	0.00	100.0%
<b>Total 3000 REVENUE</b>	<b>714,489.78</b>	<b>3,297,012.00</b>	<b>21.67%</b>	<b>2,846,280.47</b>	<b>4,417,789.00</b>	<b>64.43%</b>	<b>3,560,770.25</b>	<b>7,714,801.00</b>	<b>46.16%</b>
Total Income	714,489.78	3,297,012.00	21.67%	2,846,280.47	4,417,789.00	64.43%	3,560,770.25	7,714,801.00	46.16%
Gross Profit	714,489.78	3,297,012.00	21.67%	2,846,280.47	4,417,789.00	64.43%	3,560,770.25	7,714,801.00	46.16%
Expense									
PAYROLL									
Gross	0.00	0.00	0.0%	0.04	0.00	0.0%	0.04	0.00	100.0%
Gross-FD	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.00	0.0%
<b>Total PAYROLL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.04</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.04</b>	<b>0.00</b>	<b>100.0%</b>
3100 - LABOR - OPERATIONS	0.00	330,475.79	0.0%	330,475.79	812,375.00	40.68%	330,475.79	812,375.00	40.68%
3200 VEH & EQUIPMENT	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.00	0.0%
3201 - Vehicle/Equip Mtce	0.00	24,904.41	0.0%	24,904.41	30,000.00	83.02%	24,904.41	30,000.00	83.02%
3202 - Fixed Capital	0.00	3,048.74	0.0%	3,048.74	15,000.00	20.33%	3,048.74	15,000.00	20.33%
3203 - Equipment Rental	0.00	728.78	0.0%	728.78	5,000.00	14.58%	728.78	5,000.00	14.58%
3204 - Miscellaneous	0.00	2,766.18	0.0%	2,766.18	5,000.00	55.32%	2,766.18	5,000.00	55.32%
<b>Total 3200 VEH &amp; EQUIPMENT</b>	<b>0.00</b>	<b>31,448.11</b>	<b>57.18%</b>	<b>31,448.11</b>	<b>55,000.00</b>	<b>57.18%</b>	<b>31,448.11</b>	<b>55,000.00</b>	<b>57.18%</b>
3300 - CONTRACT LABOR	0.00	24,049.68	0.0%	24,049.68	20,000.00	120.25%	24,049.68	20,000.00	120.25%
3301 - Conduit, Meter, Valve & Misc	0.00	26,356.50	0.0%	26,356.50	27,257.00	96.7%	26,356.50	27,257.00	96.7%
3302 - Buildings & Roads	0.00	0.00	0.0%	7,257.00	-7,257.00	0.0%	7,257.00	-7,257.00	0.0%
3302-1 - UF FY 15/16 Ortega Underdrain	0.00	45,153.99	0.0%	45,153.99	87,983.00	51.32%	45,153.99	87,983.00	51.32%
3303 - Reserviors	0.00	0.00	0.0%	0.00	-57,983.00	0.0%	0.00	-57,983.00	0.0%
3303-1 - UF FY 15/16 Ortega Underdrain	0.00	17,796.57	0.0%	17,796.57	25,000.00	71.19%	17,796.57	25,000.00	71.19%
3304 - Engineering, Misc Services	0.00	113,356.74	0.0%	113,356.74	95,000.00	119.32%	113,356.74	95,000.00	119.32%
<b>Total 3300 - CONTRACT LABOR</b>	<b>0.00</b>	<b>113,356.74</b>	<b>119.32%</b>	<b>113,356.74</b>	<b>95,000.00</b>	<b>119.32%</b>	<b>113,356.74</b>	<b>95,000.00</b>	<b>119.32%</b>
3400 - MATERIALS & SUPPLIES	0.00	1,244.87	0.0%	1,244.87	65,000.00	1.92%	1,244.87	65,000.00	1.92%
3401 - Conduit, Meter, Valve & Misc	0.00	2,186.23	0.0%	2,186.23	15,000.00	14.58%	2,186.23	15,000.00	14.58%
3402 - Buildings & Roads	0.00	1,652.07	0.0%	1,652.07	10,000.00	16.52%	1,652.07	10,000.00	16.52%
3403 - Reserviors	0.00	5,083.17	0.0%	5,083.17	90,000.00	5.65%	5,083.17	90,000.00	5.65%
<b>Total 3400 - MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>	<b>5,083.17</b>	<b>5.65%</b>	<b>5,083.17</b>	<b>90,000.00</b>	<b>5.65%</b>	<b>5,083.17</b>	<b>90,000.00</b>	<b>5.65%</b>
3500 - OTHER EXPENSES	0.00	3,669.10	0.0%	3,669.10	7,000.00	52.42%	3,669.10	7,000.00	52.42%
3501 - Utilities	0.00	696.84	0.0%	696.84	5,000.00	13.94%	696.84	5,000.00	13.94%
3502 - Uniforms	0.00	8,979.61	0.0%	8,979.61	18,000.00	49.89%	8,979.61	18,000.00	49.89%
3503 - Communications	0.00	765.62	0.0%	765.62	4,000.00	19.14%	765.62	4,000.00	19.14%
3504 - USA & Other Services	0.00	3,398.83	0.0%	3,398.83	8,000.00	42.49%	3,398.83	8,000.00	42.49%
3505 - Miscellaneous	0.00	1,350.76	0.0%	1,350.76	3,000.00	45.03%	1,350.76	3,000.00	45.03%
3505-1 - Training	0.00	18,860.76	0.0%	18,860.76	45,000.00	41.91%	18,860.76	45,000.00	41.91%
<b>Total 3500 - OTHER EXPENSES</b>	<b>0.00</b>	<b>18,860.76</b>	<b>41.91%</b>	<b>18,860.76</b>	<b>45,000.00</b>	<b>41.91%</b>	<b>18,860.76</b>	<b>45,000.00</b>	<b>41.91%</b>
<b>Total</b>									
<b>Total 3000 REVENUE</b>	<b>714,489.78</b>	<b>3,297,012.00</b>	<b>21.67%</b>	<b>2,846,280.47</b>	<b>4,417,789.00</b>	<b>64.43%</b>	<b>3,560,770.25</b>	<b>7,714,801.00</b>	<b>46.16%</b>
<b>Total Income</b>	<b>714,489.78</b>	<b>3,297,012.00</b>	<b>21.67%</b>	<b>2,846,280.47</b>	<b>4,417,789.00</b>	<b>64.43%</b>	<b>3,560,770.25</b>	<b>7,714,801.00</b>	<b>46.16%</b>
<b>Gross Profit</b>	<b>714,489.78</b>	<b>3,297,012.00</b>	<b>21.67%</b>	<b>2,846,280.47</b>	<b>4,417,789.00</b>	<b>64.43%</b>	<b>3,560,770.25</b>	<b>7,714,801.00</b>	<b>46.16%</b>
<b>Expense</b>									
<b>PAYROLL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.04</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.04</b>	<b>0.00</b>	<b>100.0%</b>
<b>Gross</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>
<b>Gross-FD</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>
<b>Total PAYROLL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.04</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.04</b>	<b>0.00</b>	<b>100.0%</b>
<b>3100 - LABOR - OPERATIONS</b>	<b>0.00</b>	<b>330,475.79</b>	<b>0.0%</b>	<b>330,475.79</b>	<b>812,375.00</b>	<b>40.68%</b>	<b>330,475.79</b>	<b>812,375.00</b>	<b>40.68%</b>
<b>3200 VEH &amp; EQUIPMENT</b>	<b>0.00</b>	<b>31,448.11</b>	<b>57.18%</b>	<b>31,448.11</b>	<b>55,000.00</b>	<b>57.18%</b>	<b>31,448.11</b>	<b>55,000.00</b>	<b>57.18%</b>
<b>3300 - CONTRACT LABOR</b>	<b>0.00</b>	<b>113,356.74</b>	<b>119.32%</b>	<b>113,356.74</b>	<b>95,000.00</b>	<b>119.32%</b>	<b>113,356.74</b>	<b>95,000.00</b>	<b>119.32%</b>
<b>3301 - Conduit, Meter, Valve &amp; Misc</b>	<b>0.00</b>	<b>24,049.68</b>	<b>0.0%</b>	<b>24,049.68</b>	<b>20,000.00</b>	<b>120.25%</b>	<b>24,049.68</b>	<b>20,000.00</b>	<b>120.25%</b>
<b>3302 - Buildings &amp; Roads</b>	<b>0.00</b>	<b>26,356.50</b>	<b>0.0%</b>	<b>26,356.50</b>	<b>27,257.00</b>	<b>96.7%</b>	<b>26,356.50</b>	<b>27,257.00</b>	<b>96.7%</b>
<b>3302-1 - UF FY 15/16 Ortega Underdrain</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>7,257.00</b>	<b>-7,257.00</b>	<b>0.0%</b>	<b>7,257.00</b>	<b>-7,257.00</b>	<b>0.0%</b>
<b>3303 - Reserviors</b>	<b>0.00</b>	<b>45,153.99</b>	<b>0.0%</b>	<b>45,153.99</b>	<b>87,983.00</b>	<b>51.32%</b>	<b>45,153.99</b>	<b>87,983.00</b>	<b>51.32%</b>
<b>3303-1 - UF FY 15/16 Ortega Underdrain</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>-57,983.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>-57,983.00</b>	<b>0.0%</b>
<b>3304 - Engineering, Misc Services</b>	<b>0.00</b>	<b>17,796.57</b>	<b>0.0%</b>	<b>17,796.57</b>	<b>25,000.00</b>	<b>71.19%</b>	<b>17,796.57</b>	<b>25,000.00</b>	<b>71.19%</b>
<b>Total 3300 - CONTRACT LABOR</b>	<b>0.00</b>	<b>113,356.74</b>	<b>119.32%</b>	<b>113,356.74</b>	<b>95,000.00</b>	<b>119.32%</b>	<b>113,356.74</b>	<b>95,000.00</b>	<b>119.32%</b>
<b>3400 - MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>	<b>1,244.87</b>	<b>0.0%</b>	<b>1,244.87</b>	<b>65,000.00</b>	<b>1.92%</b>	<b>1,244.87</b>	<b>65,000.00</b>	<b>1.92%</b>
<b>3401 - Conduit, Meter, Valve &amp; Misc</b>	<b>0.00</b>	<b>2,186.23</b>	<b>0.0%</b>	<b>2,186.23</b>	<b>15,000.00</b>	<b>14.58%</b>	<b>2,186.23</b>	<b>15,000.00</b>	<b>14.58%</b>
<b>3402 - Buildings &amp; Roads</b>	<b>0.00</b>	<b>1,652.07</b>	<b>0.0%</b>	<b>1,652.07</b>	<b>10,000.00</b>	<b>16.52%</b>	<b>1,652.07</b>	<b>10,000.00</b>	<b>16.52%</b>
<b>3403 - Reserviors</b>	<b>0.00</b>	<b>5,083.17</b>	<b>0.0%</b>	<b>5,083.17</b>	<b>90,000.00</b>	<b>5.65%</b>	<b>5,083.17</b>	<b>90,000.00</b>	<b>5.65%</b>
<b>Total 3400 - MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>	<b>5,083.17</b>	<b>5.65%</b>	<b>5,083.17</b>	<b>90,000.00</b>	<b>5.65%</b>	<b>5,083.17</b>	<b>90,000.00</b>	<b>5.65%</b>
<b>3500 - OTHER EXPENSES</b>	<b>0.00</b>	<b>3,669.10</b>	<b>0.0%</b>	<b>3,669.10</b>	<b>7,000.00</b>	<b>52.42%</b>	<b>3,669.10</b>	<b>7,000.00</b>	<b>52.42%</b>
<b>3501 - Utilities</b>	<b>0.00</b>	<b>696.84</b>	<b>0.0%</b>	<b>696.84</b>	<b>5,000.00</b>	<b>13.94%</b>	<b>696.84</b>	<b>5,000.00</b>	<b>13.94%</b>
<b>3502 - Uniforms</b>	<b>0.00</b>	<b>8,979.61</b>	<b>0.0%</b>	<b>8,979.61</b>	<b>18,000.00</b>	<b>49.89%</b>	<b>8,979.61</b>	<b>18,000.00</b>	<b>49.89%</b>
<b>3503 - Communications</b>	<b>0.00</b>	<b>765.62</b>	<b>0.0%</b>	<b>765.62</b>	<b>4,000.00</b>	<b>19.14%</b>	<b>765.62</b>	<b>4,000.00</b>	<b>19.14%</b>
<b>3504 - USA &amp; Other Services</b>	<b>0.00</b>	<b>3,398.83</b>	<b>0.0%</b>	<b>3,398.83</b>	<b>8,000.00</b>	<b>42.49%</b>	<b>3,398.83</b>	<b>8,000.00</b>	<b>42.49%</b>
<b>3505 - Miscellaneous</b>	<b>0.00</b>	<b>1,350.76</b>	<b>0.0%</b>	<b>1,350.76</b>	<b>3,000.00</b>	<b>45.03%</b>	<b>1,350.76</b>	<b>3,000.00</b>	<b>45.03%</b>
<b>3505-1 - Training</b>	<b>0.00</b>	<b>18,860.76</b>	<b>0.0%</b>	<b>18,860.76</b>	<b>45,000.00</b>	<b>41.91%</b>	<b>18,860.76</b>	<b>45,000.00</b>	<b>41.91%</b>
<b>Total</b>									
<b>Total 3000 REVENUE</b>	<b>714,489.78</b>	<b>3,297,012.00</b>	<b>21.67%</b>	<b>2,846,280.47</b>	<b>4,417,789.00</b>	<b>64.43%</b>	<b>3,560,770.25</b>	<b>7,714,801.00</b>	<b>46.16%</b>
<b>Total Income</b>	<b>714,489.78</b>	<b>3,297,012.00</b>	<b>21.67%</b>	<b>2,846,280.47</b>	<b>4,417,789.00</b>	<b>64.43%</b>	<b>3,560,770.25</b>	<b>7,714,801.00</b>	<b>46.16%</b>
<b>Gross Profit</b>	<b>714,489.78</b>	<b>3,297,012.00</b>	<b>21.67%</b>	<b>2,846,280.47</b>	<b>4,417,789.00</b>	<b>64.43%</b>			

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
Budget vs. Actuals July 2016 - Jun 2017

	Fisheries			Operations			TOTAL		
	Jul - Dec 16	\$ Over Budget	% of Budget	Jul - Dec 16	\$ Over Budget	% of Budget	Jul - Dec 16	\$ Over Budget	% of Budget
4000 · Reconciliation Discrepancies	0.00			0.15			0.15	0.00	100.0%
4100 · LABOR - FISHERIES	326,030.93	-297,088.07	52.32%	0.00			326,030.93	623,119.00	52.32%
4200 · VEHICLES & EQUIP - FISHERIES									
4270 · Vehicle/Equip Mtce	11,462.81	-1,537.19	88.18%	0.00			11,462.81	13,000.00	88.18%
4280 · Fixed Capital	0.00	-15,000.00	0.0%	0.00			0.00	15,000.00	0.0%
4290 · Miscellaneous	3,924.04	1,424.04	156.96%	0.00			3,924.04	2,500.00	156.96%
<b>Total 4200 · VEHICLES &amp; EQUIP - FISHERIES</b>	<b>15,386.85</b>	<b>-15,113.15</b>	<b>50.45%</b>	<b>0.00</b>			<b>15,386.85</b>	<b>30,500.00</b>	<b>50.45%</b>
4220 · CONTRACT LABOR - FISHERIES									
4221 · Meters & Valves	0.00	-3,000.00	0.0%	0.00			0.00	3,000.00	0.0%
4222 · Fish Projects Maintenance	0.00	-25,000.00	0.0%	0.00			0.00	25,000.00	0.0%
<b>Total 4220 · CONTRACT LABOR - FISHERIES</b>	<b>0.00</b>	<b>-28,000.00</b>	<b>0.0%</b>	<b>0.00</b>			<b>0.00</b>	<b>28,000.00</b>	<b>0.0%</b>
4300 · MATERIALS/SUPPLIES - FISHERIES									
4390 · Miscellaneous	1,493.01	-5,506.99	21.33%	0.00			1,493.01	7,000.00	21.33%
<b>Total 4300 · MATERIALS/SUPPLIES - FISHERIES</b>	<b>1,493.01</b>	<b>-5,506.99</b>	<b>21.33%</b>	<b>0.00</b>			<b>1,493.01</b>	<b>7,000.00</b>	<b>21.33%</b>
4500 · OTHER EXPENSES - FISHERIES									
4502 · Uniforms	627.79	-1,872.21	25.11%	0.00			627.79	2,500.00	25.11%
<b>Total 4500 · OTHER EXPENSES - FISHERIES</b>	<b>627.79</b>	<b>-1,872.21</b>	<b>25.11%</b>	<b>0.00</b>			<b>627.79</b>	<b>2,500.00</b>	<b>25.11%</b>
4999 · GENERAL & ADMINISTRATIVE									
5000 · Director Fees									
5001 · Director Mileage	0.00			290.37	-1,709.63	14.52%	290.37	2,000.00	14.52%
5000 · Director Fees - Other	0.00			4,160.00	-6,840.00	37.82%	4,160.00	11,000.00	37.82%
<b>Total 5000 · Director Fees</b>	<b>0.00</b>			<b>4,450.37</b>	<b>-8,549.63</b>	<b>34.23%</b>	<b>4,450.37</b>	<b>13,000.00</b>	<b>34.23%</b>
5100 · Legal									
5101-1 · Audit	0.00			26,205.15	-48,794.85	34.94%	26,205.15	75,000.00	34.94%
5150 · Unemployment Tax	0.00			10,332.40	-9,667.60	51.66%	10,332.40	20,000.00	51.66%
5200 · Liability Insurance	0.00			0.00	-5,000.00	0.0%	0.00	5,000.00	0.0%
5310 · Postage/Office Exp	0.00			40,384.50	-5,570.50	87.88%	40,384.50	45,955.00	87.88%
5311 · Office Equip/Leases	0.00			3,915.50	-1,084.50	78.31%	3,915.50	5,000.00	78.31%
5312 · Misc Admin Expenses	0.00			4,457.04	-3,542.96	55.71%	4,457.04	8,000.00	55.71%
5313 · Communications	0.00			9,364.31	2,214.31	130.97%	9,364.31	7,150.00	130.97%
5314 · Utilities	0.00			4,432.89	-4,067.11	52.15%	4,432.89	8,500.00	52.15%
5315 · Membership Dues	0.00			4,460.68	-5,276.32	45.81%	4,460.68	9,737.00	45.81%
5316 · Admin Fixed Assets	0.00			7,589.97	-410.03	94.88%	7,589.97	8,000.00	94.88%
5317 · Admin Contract Labor AAI	0.00			1,743.70	-1,256.30	58.12%	1,743.70	3,000.00	58.12%
5318 · Computer Consultant	0.00			7,716.84	-14,283.16	35.08%	7,716.84	22,000.00	35.08%
5325 · Emp Training/Subscriptions	0.00			4,615.57	-10,384.43	30.77%	4,615.57	15,000.00	30.77%
5330 · Admin Travel/Conferences	0.00			1,161.06	-838.94	58.05%	1,161.06	2,000.00	58.05%
5331 · Public Information	0.00			873.91	-1,126.09	43.7%	873.91	2,000.00	43.7%
5391 · Admin Contract Labor AA I	0.00			24.69	-975.31	2.47%	24.69	1,000.00	2.47%
<b>Total 4999 · GENERAL &amp; ADMINISTRATIVE</b>	<b>0.00</b>			<b>2,834.25</b>	<b>-16,765.75</b>	<b>14.46%</b>	<b>2,834.25</b>	<b>19,600.00</b>	<b>14.46%</b>
5299 · ADMIN LABOR									
5400 · GENERAL & ADMIN - FISHERIES									
5407 · Legal - FD	0.00			238,660.98	-245,561.02	49.29%	238,660.98	484,222.00	49.29%
5410 · Postage / Office Supplies	4,491.90	-15,508.10	22.46%	0.00			4,491.90	20,000.00	22.46%
5411 · Office Equipment / Leases	2,376.15	376.15	118.81%	0.00			2,376.15	2,000.00	118.81%
5412 · Misc. Admin Expense	2,399.89	-2,818.11	45.99%	0.00			2,399.89	5,218.00	45.99%
5413 · Communications	2,652.50	-2,217.50	54.47%	0.00			2,652.50	4,870.00	54.47%
5414 · Utilities	2,712.48	-1,592.52	63.01%	0.00			2,712.48	4,305.00	63.01%
5415 · Membership Dues	2,401.89	-2,841.11	45.81%	0.00			2,401.89	5,243.00	45.81%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	<b>4,277.65</b>	<b>277.65</b>	<b>106.94%</b>	<b>0.00</b>			<b>4,277.65</b>	<b>4,000.00</b>	<b>106.94%</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
Budget vs. Actuals July 2016 - Jun 2017

	Fisheries			Operations			TOTAL			
	Jul - Dec 16	\$ Over Budget	% of Budget	Jul - Dec 16	\$ Over Budget	% of Budget	Jul - Dec 16	\$ Over Budget	% of Budget	
5416 · Admin Fixed Assets	938.92	-2,061.08	31.3%	0.00	0.00	0.0%	938.92	3,000.00	-2,061.08	31.3%
5417 · Admin Contract Labor A&I	4,155.23	-7,844.77	34.63%	0.00	0.00	0.0%	4,155.23	12,000.00	-7,844.77	34.63%
5418 · Computer Consultant	2,485.31	-2,514.69	49.71%	0.00	0.00	0.0%	2,485.31	5,000.00	-2,514.69	49.71%
5425 · Employee Education/Subsription	1,158.47	-1,341.53	46.34%	0.00	0.00	0.0%	1,158.47	2,500.00	-1,341.53	46.34%
5426 · Director Fees	2,240.00	-3,760.00	37.33%	0.00	0.00	0.0%	2,240.00	6,000.00	-3,760.00	37.33%
5427 · Director Mileage	156.34	-843.66	15.63%	0.00	0.00	0.0%	156.34	1,000.00	-843.66	15.63%
5430 · Travel	337.59	-2,162.41	13.5%	0.00	0.00	0.0%	337.59	2,500.00	-2,162.41	13.5%
5431 · Public Information	513.30	-986.70	34.22%	0.00	0.00	0.0%	513.30	1,500.00	-986.70	34.22%
5441 · Audt	5,563.60	-736.40	88.31%	0.00	0.00	0.0%	5,563.60	6,300.00	-736.40	88.31%
5443 · Liab & Property Ins	21,745.50	-2,999.50	87.88%	0.00	0.00	0.0%	21,745.50	24,745.00	-2,999.50	87.88%
5491 · Admin Contract Labor AA I	1,526.13	-9,073.87	14.4%	0.00	0.00	0.0%	1,526.13	10,600.00	-9,073.87	14.4%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	<b>62,132.85</b>	<b>-58,648.15</b>	<b>51.44%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>62,132.85</b>	<b>120,781.00</b>	<b>-58,648.15</b>	<b>51.44%</b>
5499 · ADMIN LABOR-FISHERIES	91,467.15	-110,644.85	45.26%	0.00	0.00	0.0%	91,467.15	202,112.00	-110,644.85	45.26%
5510 · Integrated Reg. Water Mgt Plan	0.00			1,343.00	5,000.00	26.86%	1,343.00	5,000.00	-3,657.00	26.86%
6000 · SPECIAL PROJECTS										
6062 · SCADA	0.00			1,873.94	20,000.00	9.37%	1,873.94	20,000.00	-18,126.06	9.37%
6090 · COMB Office Building	0.00			0.00	150,000.00	0.0%	0.00	150,000.00	-150,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00			0.00	240,000.00	0.0%	0.00	240,000.00	-240,000.00	0.0%
6097 · GIS and Mapping	0.00			4,847.00	10,000.00	48.47%	4,847.00	10,000.00	-5,153.00	48.47%
6100 · Watershed Sanitary Survey	0.00			35,481.20	35,481.20	100.0%	35,481.20	35,481.20	0.00	100.0%
6100-1a · Watershed Sanitary Survey-C/O	0.00			0.00	-35,481.20	0.0%	0.00	-35,481.20	35,481.20	0.0%
6105 · ROW Management Program	0.00			1,440.00	20,000.00	7.2%	1,440.00	20,000.00	-18,560.00	7.2%
6109 · NP Jet Flow Control Valve	0.00			0.00	50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6111 · Mission Ck Pipe Temp Repair	0.00			0.00	50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6118 · Repair Lateral 3 Structure	0.00			18,804.25	100,000.00	18.8%	18,804.25	100,000.00	-81,195.75	18.8%
6120 · Emergency Pumping Fac Project	0.00			822,317.21	1,846,250.00	44.54%	822,317.21	1,846,250.00	-1,023,932.79	44.54%
6130 · NP Slope Stabilization	0.00			8,973.75	82,668.20	10.86%	8,973.75	82,668.20	-73,694.45	10.86%
6130-1 · NP Slope Stabil C/O Funds FY 16	0.00			0.00	-82,668.20	0.0%	0.00	-82,668.20	82,668.20	0.0%
6131 · Lauro Diversion Valve Install	0.00			0.00	75,000.00	0.0%	0.00	75,000.00	-75,000.00	0.0%
<b>Total 6000 · SPECIAL PROJECTS</b>	<b>0.00</b>	<b>-210,906.17</b>	<b>11.68%</b>	<b>893,737.35</b>	<b>2,561,250.00</b>	<b>34.9%</b>	<b>893,737.35</b>	<b>2,561,250.00</b>	<b>-1,667,512.65</b>	<b>34.9%</b>
6200 · FISHERIES ACTIVITIES										
6201 · FMP Implementation	2,517.78	-56,282.22	4.28%	0.00	58,800.00	4.28%	2,517.78	58,800.00	-56,282.22	4.28%
6202 · GIS and Mapping	3,047.00	-6,953.00	30.47%	0.00	10,000.00	30.47%	3,047.00	10,000.00	-6,953.00	30.47%
6203 · Grants Technical Support	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	-8,000.00	0.0%	0.00	8,000.00	0.0%	0.00	8,000.00	-8,000.00	0.0%
6205 · USGS Stream Gauge Program	19,525.00	-57,475.00	25.36%	0.00	77,000.00	25.36%	19,525.00	77,000.00	-57,475.00	25.36%
6206 · Tri County Fish Team Funding	0.00	-5,000.00	0.0%	0.00	5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
6207 · Oak Tree Restoration Program	2,804.05	-77,195.95	3.51%	0.00	80,000.00	3.51%	2,804.05	80,000.00	-77,195.95	3.51%
<b>Total 6200 · FISHERIES ACTIVITIES</b>	<b>27,893.83</b>	<b>-210,906.17</b>	<b>11.68%</b>	<b>0.00</b>	<b>238,800.00</b>	<b>11.68%</b>	<b>27,893.83</b>	<b>238,800.00</b>	<b>-210,906.17</b>	<b>11.68%</b>
6300 · HABITAT ENHANCEMENT										
6303 · Tributary Projects Support	6,369.76	-13,630.24	31.85%	0.00	20,000.00	31.85%	6,369.76	20,000.00	-13,630.24	31.85%
6312 · Quiota Creek Crossing 0 (a&b)	563,941.90	-276,058.10	67.14%	0.00	840,000.00	67.14%	563,941.90	840,000.00	-276,058.10	67.14%
6314 · Quiota Creek Crossing 1	1,015,731.18	-104,268.82	90.69%	0.00	1,120,000.00	90.69%	1,015,731.18	1,120,000.00	-104,268.82	90.69%
6315 · Quiota Creek Crossing 8	6,970.00	-17,230.00	28.8%	0.00	24,200.00	28.8%	6,970.00	24,200.00	-17,230.00	28.8%
6316 · Quiota Creek Crossing 5	5,254.97	-24,745.03	17.52%	0.00	30,000.00	17.52%	5,254.97	30,000.00	-24,745.03	17.52%
6317 · Salsipuedes Fish Ladder Repair	0.00	-10,000.00	0.0%	0.00	10,000.00	0.0%	0.00	10,000.00	-10,000.00	0.0%
<b>Total 6300 · HABITAT ENHANCEMENT</b>	<b>1,598,267.81</b>	<b>-445,932.19</b>	<b>78.19%</b>	<b>0.00</b>	<b>2,044,200.00</b>	<b>78.19%</b>	<b>1,598,267.81</b>	<b>2,044,200.00</b>	<b>-445,932.19</b>	<b>78.19%</b>
7007 · INTEREST EXPENSE-EPPP	0.00			33,962.29	0.00	0.0%	33,962.29	0.00	33,962.29	100.0%
<b>Total Expense</b>	<b>2,123,300.22</b>	<b>-1,173,711.78</b>	<b>64.4%</b>	<b>1,801,491.21</b>	<b>4,417,789.00</b>	<b>40.78%</b>	<b>3,924,791.43</b>	<b>7,714,801.00</b>	<b>-3,790,009.57</b>	<b>50.87%</b>
<b>Net Income</b>	<b>-1,408,810.44</b>	<b>1,408,810.44</b>	<b>100.0%</b>	<b>1,044,789.26</b>	<b>0.00</b>	<b>100.0%</b>	<b>-364,021.18</b>	<b>0.00</b>	<b>-364,021.18</b>	<b>100.0%</b>

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

[www.treasurer.ca.gov/pmia-laif/laif.asp](http://www.treasurer.ca.gov/pmia-laif/laif.asp)  
January 12, 2017

CACHUMA OPERATION AND MAINTENANCE BOARD

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

PMIA Average Monthly Yields

Account Number:

Tran Type Definitions

December 2016 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
12/22/2016	12/21/2016	RW	1523037	JANET GINGRAS	-250,000.00

Account Summary

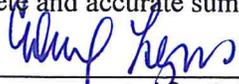
Total Deposit:	0.00	Beginning Balance:	1,312,865.55
Total Withdrawal:	-250,000.00	Ending Balance:	1,062,865.55

**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 December, 2016, 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 on behalf of Janet Gingras

# AMERICAN RIVIERA BANK

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

RECEIVED

JAN 10 2017

CACHUMA O & M BOARD

PAGE 1

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

---

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO  
STATEMENT DATE 12/30/2016  
LAST STATEMENT DATE 11/30/2016

0	STATEMENT PERIOD		
PREVIOUS BALANCE	63,087.61	# OF DAYS-STMT PERIOD	30
0 DEPOSITS/CREDITS	0.00	AVERAGE BALANCE	63,087.61
0 CHECKS/WITHDRAWALS	0.00	YTD INTEREST	0.00
ENDING BALANCE	63,087.61		
TOTAL SRV CHG TODAY	0.00		

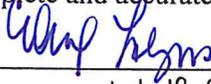
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**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board

**FROM:** Janet Gingras, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of December, 2016, 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 on behalf of Janet Gingras

# AMERICAN RIVIERA BANK

P.O. Box 329, Santa Barbara, California 93102  
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JAN 10 2017

CACHUMA O & M BOARD

PAGE 1

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

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ACCOUNT ANALYSIS CHECKING

ACCOUNT NO  
STATEMENT DATE 12/30/2016  
LAST STATEMENT DATE 11/30/2016

0	STATEMENT PERIOD		
PREVIOUS BALANCE	713,592.52	# OF DAYS-STMT PERIOD	30
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	713,592.52
ENDING BALANCE	713,592.52		
TOTAL SRV CHG TODAY	0.00	YTD INTEREST	0.00

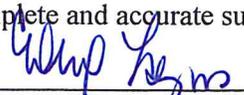
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**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board

**FROM:** Janet Gingras, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of December, 2016, 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 on behalf of Janet Gingras

Cachuma Operation & Maintenance Board  
**Paid Claims**  
As of December 31, 2016

Date	Num	Name	Memo	Amount
<b>1050 - GENERAL FUND</b>				
12/07/2016	25039	A-OK Power Equipment-SB	Chain and air filter for DR mower (Ops Div)	-88.63
12/07/2016	25040	American Riviera Bank (ARB)	Principal/Interest pymt #5-Dec	-28,123.75
12/07/2016	25041	Association of Ca Water Agencies/JPIA	Jan Health Benefits coverage	-26,805.22
12/07/2016	25042	AT&T	Nov charges	-486.54
12/07/2016	25043	Big Brand Tire Company	Tires/Rear breaks/pads/service-wheel alignment - Ford F550 (Ops Div)	-1,716.95
12/07/2016	25044	Coastal Copy, LP	Mtce agmt TASKalfa 4550ci/3051ci	-307.80
12/07/2016	25045	Cox Communications Santa Barbara	Business internet-Nov	-195.00
12/07/2016	25046	Frontier Communications	SCADA	-568.05
12/07/2016	25047	HDR Engineering, Inc.	Engineering services/BO/FMP Fish Monitoring (Fish Div)	-6,754.06
12/07/2016	25048	Kenneth A. Knight, Consulting	General Arborist Services-Oak Tree program-Oct.	-300.00
12/07/2016	25049	Krazan & Associates, Inc.	QCX#4 Bridge construction testing/inspection (Fish Div)	-7,493.00
12/07/2016	25050	Manzanita Nursery	Trees - Quiota Creek Xng 0A & 4 (Fish Div)	-702.54
12/07/2016	25051	Paychex, Inc.	Nov payrolls/taxes/deliveries	-466.56
12/07/2016	25052	Select Staffing	Admin Secretary/Admin Assistant II	-2,778.30
12/07/2016	25053	Southern California Edison	Outlying stations	-79.36
12/07/2016	25054	SWRCB Fees	Annual fee-waste discharge permit-Ortega Res 7/1/16-6/30/17 (Ops Div)	-2,062.00
12/07/2016	25055	Verizon Wireless	Cellular/Modem's/USB and Modems (Ops Div)	-646.05
12/07/2016	25056	American Riviera Bank (ARB)	Principal/Interest pymt #5-Dec	-10,354.21
12/07/2016	25057	Lash Construction, Inc.	Ortega Ridge-valve/meter replacement (7/20-25/16) (Ops Div)	-9,759.24
12/08/2016	25001	Bartlett, Pringle & Wolf, LLP	Audit services-FY 16/17	-8,357.00
12/08/2016	25002	Brownstein Hyatt Farber Schreck, LLP	California H2O Woman Conference (JG)	-175.00
12/08/2016	25003	Cashier, DPR	QAC license/cert fee (DF) (Ops Div)	-60.00
12/08/2016	25004	City of Santa-Barbara	Trash/Recycle-Nov 2016	-218.67
12/08/2016	25005	City of Santa Barbara-Central Stores	Gloves/safety glasses/latex high disk (Ops Div)	-120.11
12/08/2016	25006	Culligan of Sylmar	Monthly RO system-Dec	-25.95
12/08/2016	25007	ECHO Communications	Monthly answering service	-62.00
12/08/2016	25008	Environmental Systems Research Inst.	ArcInfo/ArcGIS/ArcView 1/11/16-1/10/17	-5,844.00
12/08/2016	25009	Farm Supply Company	Welded wire-Oak Tree program (Fish Div)	-205.18
12/08/2016	25010	Flowers & Associates, Inc.	Engineering services-Lat 3A Abandonment-Oct	-5,540.25
12/08/2016	25011	Frontier Communications	SCADA	-589.62
12/08/2016	25012	Harrison Hardware	Bucket/Funnel/Scarecrow-ornament owl/gloves/Clamps/fasteners (Fish Div)	-96.23
12/08/2016	25013	Harwood White	Nov mtg fees	-397.43
12/08/2016	25014	HDR Engineering, Inc.	Engineering services-EPFP Sep-Nov & Habitat (Ops Div) Improvements/BO/FMP Fish Monitoring-Sep-Oct services (Fish Div)	-30,910.04
12/08/2016	25015	Instrument & Valve Services Company	Calibration-pressure transmitters (3) (Ops Div)	-1,808.00
12/08/2016	25016	J&C Services	Ofc cleaning services - Oct/Nov	-420.00
12/08/2016	25017	Lauren W. Hanson	Nov mtg fees	-266.80
12/08/2016	25018	MarBorg Industries	Portable toilets-outlying stations	-241.47
12/08/2016	25019	Musick, Peeler & Garrett LLP	General Counsel-Oct	-11,147.05
12/08/2016	25020	Nestle Pure Life Direct	Nov-5 gal disp. (PPE criteria)	-97.77
12/08/2016	25021	Pacific Coast Jiffy Lube	Service-2008 Ford Explorer - (Ops Div)	-63.10
12/08/2016	25022	PG&E	Telcolote Tunnel/North Portal electricity	-372.74
12/08/2016	25023	Polly Holcombe	Nov mtg fees	-286.55
12/08/2016	25024	Powell Garage	Oil/brake/sparks service-F-150XL & F-1504WD-(Fish Div)	-1,376.76
12/08/2016	25025	Praxair Distribution, Inc	Cylinder rental (acetylene for welder) (Ops Div)	-68.59
12/08/2016	25026	Premiere Global Services	Conf calls-Nov	-35.16
12/08/2016	25027	Prudential Overall Supply	Mats/scrapers-Nov	-100.56
12/08/2016	25028	Select Staffing	Admin Assistant II	-1,674.00
12/08/2016	25029	Southern California Edison	Main office/outlying stations	-1,012.97
12/08/2016	25030	Summers Engineering, Inc.	Watershed Sanitary Survey 2016-6th/Final billing	-3,324.99
12/08/2016	25031	Turenchalk Network Services, Inc.	IT services-Nov	-1,011.00
12/08/2016	25032	Underground Service Alert of So. Calif.	55 Ticket charges	-85.50
12/08/2016	25033	Verizon Wireless	Cellular/Modem's/USB	-629.12

Cachuma Operation & Maintenance Board  
**Paid Claims**  
 As of December 31, 2016

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
12/08/2016	25034	W. Douglas Morgan	Nov mtg fees	-416.40
12/08/2016	25035	Water Systems Optimization, Inc.	Water efficiency & metering analysis- Oct/Nov (Ops Div)	-13,517.07
12/08/2016	25036	Wright Express Fleet Services	Fleet fuel	-1,649.26
12/08/2016	25037	Fugro Consultants, Inc.	Geotechnical Engineering and Construction Materials testing services-Xng Oa & 4 -Oct/Nov (Fish Div)	-9,846.68
12/08/2016	25038	Santa Ynez Band of Chumash Indians	Quiota Creek Xing 0a-Field monitoring (Fish Div)	-3,105.00
12/19/2016	25058	Channel City Lumber	Trees (Fish Div)	-329.69
12/19/2016	25059	COM3 Consulting Inc.	QC Xng 8 Project Mgmt services-July-Dec (Fish Div)	-6,970.00
12/19/2016	25060	Farm Supply Company	Welded wire-Oak Tree program (Fish Div)	-1,025.89
12/19/2016	25061	Filippin Engineering, Inc.	Construction Observation- Xng 0A & 4 - Nov (Fish Div)	-7,447.00
12/19/2016	25062	Peter Lapidus Construction, Inc.	Pay Req #3-Xng 0a and 4/Retentions (Fish Div)	-594,641.62
12/19/2016	25063	Pitney Bowes Global Fin. Services LL	Lease agmt-postage meter (Jan-April)	-436.16
12/19/2016	25064	The Gas Company	Gas-main office	-16.55
12/19/2016	25066	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#31-Phase II	-124,000.00
12/23/2016	25067	PG&E	Telcolote Tunnel/North Portal electricity	-336.83
12/23/2016	25068	Turenchalk Network Services, Inc.	Network/printer setup	-65.88
12/23/2016	25069	Wells Fargo Vendor Fin Serv	Copier (4550 & 3051) lease agmt	-489.24
Total 1050 · GENERAL FUND				<u>-940,604.14</u>
<b>TOTAL</b>				<b><u>-940,604.14</u></b>

**APPROVED FOR PAYMENT**

\_\_\_\_\_  
 Director  
 \_\_\_\_\_  
 Director  
 \_\_\_\_\_  
 Director  
 \_\_\_\_\_  
 FINANCE COMMITTEE

# CACHUMA OPERATION & MAINTENANCE BOARD

## Lake Cachuma Oak Tree Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

Thursday, January 12, 2017

3:30 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. Lake Cachuma Oak Tree Restoration Program Update (*for information*)
4. 2015 Annual Report of the Lake Cachuma Oak Tree Restoration Program (*for review and possible recommendation*)
5. Program Action Items for Fiscal Year 2016-17 (*for information and possible recommendation*)
6. Field Trip (*set a date*)
7. Adjournment

[This Agenda was Posted at 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

## Fisheries Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

Friday, January 13, 2017

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. Quiota Creek Fish Passage Improvement Project Updates: *(for information and possible recommendation)*
  - Crossing 0A
  - Crossing 4
  - Crossing 8 – County of Santa Barbara Professional Services Agreement (PSA)
  - Remaining Quiota Creek Crossings
4. USGS Hilton Creek Stream Gauge Relocation Project Update *(for information)*
5. Annual Monitoring Reports Update (AMRs) *(for information)*
6. Adjournment

[This Agenda was Posted at 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:	January 23, 2017
Submitted by:	Janet Gingras

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**SUBJECT:** Proposed Resolutions Regarding Bank Accounts

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**SUMMARY:**

The General Manager of the Cachuma Operation and Maintenance Board recently hired Edward Lyons for the position of Administrative Manager/CFO. The attached resolutions add Mr. Lyons as an authorized signatory on the COMB Renewal Fund and Cachuma Project Trust Fund Accounts, the COMB General Fund Account and Revolving Fund as well as the State Treasurer's Local Agency Investment Fund (LAIF). Additionally, with the adoption of these Resolutions, the Board approves establishing a supplemental account agreement with American Riviera Bank which authorizes the Administrative Manager/CFO to transact telephone transfers between the COMB General Fund Account and Revolving Fund and LAIF as needed.

**RECOMMENDATION:**

The Board of Directors approve Resolutions No. 624 through 628 by roll call vote, on one motion, unless members request separate consideration.

**LIST OF EXHIBITS:**

- 1) Resolutions No. 624 through 628

**RESOLUTION NO. 624**

**A RESOLUTION OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD AUTHORIZING  
SIGNATORIES FOR GENERAL FUND ACCOUNT AT  
AMERICAN RIVIERA BANK**

**WHEREAS**, the Cachuma Operation and Maintenance maintains a separate checking account at American Riviera Bank (*formerly The Bank of Santa Barbara*) (Bank) for the payment of bills and claims presented to the Board herein called the General Fund, and

**WHEREAS**, the checks issued on the General Fund require two (2) authorized signatures; and

**WHEREAS**, the Board of Directors reviews and approves the payment of claims for all checks issued on the General Fund at the Board's monthly meeting.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of the Cachuma Operation and Maintenance Board that the following persons are authorized signatories on said account subject to those conditions as specified in Resolution No. 617 adopted by this Board on July 25, 2016.

\_\_\_\_\_  
President, Board of Directors

\_\_\_\_\_  
Vice-President, Board of Directors

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

\_\_\_\_\_  
General Manager/Secretary of the Board

\_\_\_\_\_  
Administrative Manager/Auditor-Controller

This resolution supersedes Resolution No. 618 dated July 25, 2016, and all resolutions preceding it pertaining to said Agreement.

**PASSED, APPROVED AND ADOPTED** this 23<sup>rd</sup> day of January 2017, by the following vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

**APPROVED:**

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

**ATTEST:**

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

**RESOLUTION NO. 625**

**A RESOLUTION OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD AUTHORIZING  
SIGNATORIES FOR REVOLVING FUND ACCOUNT AT  
AMERICAN RIVIERA BANK**

**WHEREAS**, the Cachuma Operation and Maintenance Board maintains a separate checking account at American Riviera Bank (*formerly The Bank of Santa Barbara*) (Bank) for the payment of payroll and related items herein called the Revolving Fund, and

**WHEREAS**, the checks issued on the Revolving Fund require one authorized signature before the checks are honored by the Bank.

**NOW, THEREFORE BE IT RESOLVED** by the Board of Directors of the Cachuma Operation and Maintenance Board that the following persons are authorized signatories on said account:

\_\_\_\_\_  
President, Board of Directors

\_\_\_\_\_  
Vice-President, Board of Directors

\_\_\_\_\_  
General Manager/Secretary of the Board

\_\_\_\_\_  
Administrative Manager/Auditor-Controller

This resolution supersedes Resolution No. 619 dated July 25, 2016 and all resolutions preceding it pertaining to authorized signatories for said account.

**PASSED, APPROVED, AND ADOPTED** this 23<sup>rd</sup> day of January 2017, by the following vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

APPROVED:

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

ATTEST:

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

**RESOLUTION NO. 626**

**A RESOLUTION OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD AUTHORIZING  
SIGNATORIES FOR THE CACHUMA PROJECT TRUST FUND AND THE  
CACHUMA MASTER CONTRACT RENEWAL FUND ACCOUNTS AT  
AMERICAN RIVIERA BANK**

**WHEREAS**, the Cachuma Operation and Maintenance Board (COMB) by Resolution No. 249 of January 27, 1997 assumed responsibility for managing the Cachuma Project Trust Fund and the Cachuma Master Contract Renewal Fund (Renewal Fund), and

**WHEREAS**, COMB has identified American Riviera Bank (*formerly The Bank of Santa Barbara*) (Bank) as the most favorable institution with which to establish these accounts; and

**WHEREAS**, the checks issued on the Renewal Fund and Cachuma Project Trust Fund require two (2) authorized signatures; and

**WHEREAS**, the Board of Directors reviews and approves the payment of claims for all checks issued on the Renewal Fund and Cachuma Project Trust Fund accounts at the Board's monthly meeting,

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of the Cachuma Operation and Maintenance Board that the following persons are authorized signatories on said accounts subject to those conditions as specified in Resolution No. 620 adopted by this Board on July 25, 2016.

\_\_\_\_\_  
President, Board of Directors

\_\_\_\_\_  
Vice-President, Board of Directors

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

\_\_\_\_\_  
General Manager/Secretary of the Board

\_\_\_\_\_  
Administrative Manager/Auditor-Controller

This resolution supersedes Resolution No. 621 dated July 25, 2016, and all resolutions preceding it pertaining to said Agreement.

**PASSED, APPROVED AND ADOPTED** this 23<sup>rd</sup> day of January 2017, by the following vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

APPROVED:

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

ATTEST:

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

**RESOLUTION NO. 627**

**RESOLUTION OF THE BOARD OF DIRECTORS OF  
CACHUMA OPERATION AND MAINTENANCE BOARD  
AUTHORIZING INVESTMENT OF MONIES IN THE  
LOCAL AGENCY INVESTMENT FUND**

**WHEREAS**, Pursuant to Chapter 730 of the statutes of 1976 Section 16429.1 was added to the California Government Code to create a Local Agency Investment Fund in the State Treasury for the deposit of money of a local agency for purposes of investment by the State Treasurer; and

**WHEREAS**, The Board of Directors does hereby find that the deposit and withdrawal of money in the Local Agency Investment Fund in accordance with the provisions of Section 16429.1 of the Government Code for the purpose of investment as stated therein is in the best interests of the Cachuma Operation and Maintenance Board (COMB).

**NOW THEREFORE, BE IT RESOLVED**, that the Board of Directors does hereby authorize the deposit and withdrawal of COMB monies in the Local Agency Investment Fund in the State Treasury in accordance with the provisions of Section 16429.1 of the Government Code for the purpose of investment as stated therein, and verification by the State Treasurer's Office of all banking information provided in that regard.

**BE IT FURTHER RESOLVED**, that the following COMB officers or their successors in office shall be authorized to order the deposit or withdrawal of monies in the Local Agency Investment Fund.

\_\_\_\_\_  
President, Board of Directors

\_\_\_\_\_  
Vice-President, Board of Directors

\_\_\_\_\_  
General Manager/Secretary of the Board

\_\_\_\_\_  
Administrative Manager/Auditor-Controller

This resolution supersedes Resolution No. 615 dated July 25, 2016, and all resolutions preceding it pertaining to said Agreement.

**PASSED AND ADOPTED**, by the Board of Directors of COMB, County of Santa Barbara, State of California on January 23, 2017, by the following vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

APPROVED:

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

ATTEST:

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

**RESOLUTION NO. 628**

**A RESOLUTION OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD (CUSTOMER)  
ESTABLISHING A SUPPLEMENTAL ACCOUNT AGREEMENT  
FOR TELEPHONE TRANSFERS**

The undersigned Customer further agrees with American Riviera Bank (*formerly The Bank of Santa Barbara*) (Bank) in connection with its Agreement for General Fund and Revolving Fund Accounts, hereinafter referred to as the "checking accounts", that the Bank may honor telephone instructions to transfer funds to and from the State Treasurer's Local Agency Investment Fund, maintained at the Bank of America Sacramento Branch to and from Customer's above listed local accounts when such instructions are given by the person, or one of the persons, authorized below to make such transfers.

In consideration of the Bank accepting telephone instructions to transfer, the Bank may require such identification of the person giving such instructions as it may deem necessary and sufficient and the undersigned Customer will indemnify and hold harmless the Bank from all loss or damage resulting from such instructions, including incorrect identification.

Any one of the following persons is authorized to make telephone transfers to and from the Checking Accounts(s):

\_\_\_\_\_  
President, Board of Directors

\_\_\_\_\_  
Vice-President, Board of Directors

\_\_\_\_\_  
General Manager/Secretary of the Board

\_\_\_\_\_  
Administrative Manager/Auditor-Controller

The Bank is authorized to accept and rely upon the telephone instructions of the above persons, and each of them, unless and until the undersigned Customer shall deliver to the Bank at the Branch where the Checking accounts are located a specific written instruction revoking the authority of such person(s) to make such telephone instruction, and the Bank has a reasonable opportunity to comply (*which shall be at least one banking business day*) with the written revocation of authority.

This resolution supersedes Resolution No. 616 dated July 25, 2016, and all resolutions preceding it pertaining to said Agreement.

**PASSED, APPROVED AND ADOPTED** this 23<sup>rd</sup> day of January 2017, by the following roll call vote:

**AYES:**

**NAYS:**

**ABSENT/ABSTAIN:**

APPROVED:

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

ATTEST:

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

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	January 23, 2017
Approved by:	Janet Gingras

**SUBJECT:** Fiscal Year 2015-16 Unexpended Funds

**SUMMARY:**

Budget line items designated for expenditure in the Fiscal Year 2015-16 approved operating budget were under-expended due to various reasons including unexpected staffing changes, cost savings, or delayed projects. In conjunction with the financial audit report review, unexpended funds have been identified according to budget line item categories. The matrix below depicts, per division, total collected assessment revenues from Member Agency participants, accrued operating expenditures and resultant unexpended funds from Fiscal Year 2015-16. Staff is requesting partial unexpended funds to be carried forward to implement projects as outlined below:

<i>Cachuma Operation &amp; Maintenance Board</i>					
<b>FY 2015-16 Unexpended Funds</b>			Fisheries	Operations	Totals
Revenue			\$ 2,175,612	\$ 4,752,283	\$ 6,927,895
Expenses			\$ 2,114,565	\$ 3,875,267	\$ 5,989,832
<b>Unexpended Funds</b>			<b>\$ 61,047</b>	<b>\$ 877,016</b>	<b>\$ 938,063</b>
<b>General and Administrative</b>					
Labor - Operations	Personnel Changes		\$ -	\$ 29,741	\$ 29,741
Vehicles and Equipment	Unexpended		-	4,339	4,339
Contract Labor	Unexpended		16,168	-	16,168
Materials and Supplies	Unexpended		-	48,337	48,337
General and Administrative	Salary/benefits personnel changes		-	85,686	85,686
<b>Special Projects</b>					
SCC Structure Rehab	Budgeted in current FY		\$ -	\$ 128,007	\$ 128,007
Emergency Pumping Facilities Project	Carryover Request		-	314,124	314,124
Mission Creek Pipe Repair	Unexpended		-	4,515	4,515
Lateral 3 Structure Repair	Unexpended		-	17,540	17,540
Rehab San Antonio Creek B/O	Unexpended		-	10,000	10,000
Sheffield Tunnel Inspection/Evaluation	Project delayed		-	46,000	46,000
South Portal Slope Stabilization	Unexpended		-	1,059	1,059
Encroachment / Tree overgrowth	Project delayed		-	25,000	25,000
Lauro Tunnel Pipe Support Evaluation	Completed		-	30,000	30,000
SCC Lower Reach Lateral Structures	Project delayed		-	50,000	50,000
North Portal Slope Stabilization	Carryover Request		-	82,668	82,668
Habitat Enhancement Projects	Unexpended		44,879	-	44,879
<b>Total unexpended funds</b>			<b>\$ 61,047</b>	<b>\$ 877,016</b>	<b>\$ 938,063</b>
6120 Emergency Pumping Facilities Project			-	314,124	314,124
6130 North Portal Slope Stabilization			-	82,668	82,668
<b>Total Carryover Request</b>			<b>\$ -</b>	<b>\$ 396,792</b>	<b>\$ 396,792</b>
Goleta Water District		40.42%	24,675	194,106	218,782
City of Santa Barbara		35.88%	21,904	172,304	194,208
Carpinteria Valley Water District		12.20%	7,448	58,587	66,035
Montecito Water District		11.50%	7,020	55,226	62,246
<b>Unexpended funds for Board Designation</b>		<b>100.00%</b>	<b>\$ 61,047</b>	<b>\$ 480,224</b>	<b>\$ 541,271</b>

The unexpended funds requested to be Board designated for carryover total \$396,792 and are described as follows:

- **Emergency Pumping Facilities Project:** \$314,124  
These funds were identified in the Board approved budget for demobilization of the Emergency Pumping Facility (EPF) project and subsequently were unexpended in Fiscal Year 2016. Staff is requesting these funds be carried forward to Fiscal Year 2017 designated specifically for the EPF project.
- **North Portal Slope Stabilization:** \$82,668  
These funds were unexpended due to a delay in project approval from Reclamation. Staff is requesting these funds be carried forward to implement the project once approval from Reclamation has been obtained.

The remaining unexpended funds (\$541,271) are discretionary and are proposed to be Board designated for constructive return to the Member Agencies during the third quarter assessment process per the Administrative Committee's recommendation.

**COMMITTEE STATUS:**

The Administrative Committee reviewed the summary matrix and forwards the proposed designation of Fiscal Year 2015-16 unexpended funds to the Board of Directors with a recommendation to approve.

**RECOMMENDATION:**

The Board of Directors approve the designation of unexpended funds from Fiscal Year 2015-16 in the amount of \$396,792 to be carried forward for the EPF project and the North Portal Slope Stabilization project; and authorize unexpended funds in the amount of \$541,271 to be designated for constructive return to the Member Agencies during the third quarter assessment process.

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	January 23, 2017
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT:** Quiota Creek Crossing 0A Fish Passage Improvement Project, Update and Change Order 2 Request

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**SUMMARY:**

***Project Description:*** A 55-foot prefabricated bottomless arched culvert replaced the pre-existing concrete low flow crossing at Quiota Creek Crossing 0A. The project removed a fish passage barrier and opened up unimpeded juvenile and adult fish passage for the endangered southern steelhead to NMFS designated critical habitat upstream.

***Project Location:*** The nearest town is Santa Ynez. Quiota Creek Crossing 0A is located off of Hwy 246 via Refugio Road 2 miles south of Hwy 246 on private property. No access is permitted to the public.

***Contractor:*** Peter Lapidus Construction (PLC); the construction contract who won the competitive bid, was issued a Notice to Proceed on 10/13/16 for \$315,970.

***Design Engineer:*** Michael Garelo, HDR Fisheries Design Center.

***Resident Engineer:*** Gino Filippin, Filippin Engineering.

***County Oversight:*** David Vyeniello, Mark Matson and Dana Eady (North County Planning and Development).

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

Status	Time
Notice to Proceed	10/13/2016
Construction start	10/13/2016
Contract Time (approximate to complete all work)	2 months
Completion Date	12/15/2016
Number of construction work days (WD*)	44
Elapsed Time (WD)	44
Remaining Time (WDs to complete all work)	0
Time Elapsed to Date (%)	100%
*WD: Working Days.	

***Work Performed to Date:*** The project started on 10/13/16 and was completed on 12/15/16. The project was successfully completed as designed (Figures 1 and 2 included as Exhibits). The County, regulatory agencies and landowners were pleased with the outcome of the project. PLC did an excellent job with the

project and kept project costs within budget. A Notice of Completion has been filed with the County. Final reports and a grant reimbursement request are being submitted to the associated regulatory agencies.

**Work Projected for Next Month:** Submit the As-Built drawings to the County and landowner. Once the re-vegetation effort has successfully sprouted across 70% of the disturbed area, all permit obligations (permit closure and final fees) can be finalized which is expected in the late spring.

**FINANCIAL IMPACT:**

A summary of the estimate and current project expenses is as follows.

	Amount	
<b>Revenues:</b>		
CDFW grant	\$671,635	
COMB services match	\$68,139	
COMB operating expenses match	\$34,130	
Landowner construction match	\$50,000	
	<b>Total:</b>	<b>\$823,904</b>
<b>Estimated Costs:</b>		
COMB operating expenses (match)	\$34,130	
Construction Engineer's Estimate	\$526,010	
ConTech bridge fabrication estimate	\$140,000	
	<b>Total:</b>	<b>\$700,140</b>
<b>Contracted Construction:</b>		
Construction Contract (PLC):	\$315,970	
ConTech Contract Amount:	\$132,038	
Change Order 1 (veg relocation, extra rebar+concrete, extra strapping) (approved):	\$31,446	
Change Order 2 (cutting bridge bolts, waterline, overtime, grading bond) (pending):	\$9,520	
	<b>Adjusted Construction Contract Amount:</b>	<b>\$488,974</b>
<b>Total Expenditure:</b>		
	<b>FY17</b>	<b>FY16</b>
PLC - Invoice 1:	\$177,760	
PLC - Invoice 2:	\$138,210	
PLC - CO-1 (approved):	\$31,446	
PLC - CO-2 (pending):	\$9,520	
ConTech Bridge (deposit):	\$44,013	
ConTech Bridge (final + tat):	\$87,618	
Geotechnical Services (Fugro) - Invoice 1:	\$2,903	
Geotechnical Services (Fugro) - Invoice 2:	\$772	
Resident Engineer - AECOM (fabrication) - Invoice 1:	\$4,294	
Resident Engineer - Gino Filippin (site construction) - Invoice 1:	\$3,383	
Oversight Engineer - AECOM (fabrication) - Invoice 1:	\$4,294	
Materials Testing - Krazan (Bethlehem) - Invoice 1:	\$2,228	
Materials Testing - Krazan (Bethlehem) - Invoice 2:	\$2,590	
Materials Testing - Fugro (site construction) - Invoice 1:	\$5,514	
Materials Testing - Fugro (site construction) - Invoice 2:	\$2,138	
Cultural Monitoring (Chumash) - Invoice 1:	\$3,105	
Cultural Monitoring (Chumash) - Invoice 2:	\$4,190	
COMB Legal Counsel Bid Packet + Contract review:	\$2,463	
Manzanita Nursery (mitigation oak trees) - Invoice 1:	\$311	
Tri-Co Reproduction - all invoices:	\$464	
SB County Permit Fees (all):	\$11,957	\$5,297
CDFW 1600 Permit Fee:		\$4,912
CDFW EIR/EIS CEQA Filing Fee:	\$3,070	
	<b>Total Paid:</b>	<b>\$542,240 \$10,210</b>
% Estimated Costs to Total Expenditures:	77.4%	
Estimated Costs minus Total Expenditures:	\$157,900	
Revenues minus Total Expenditures:	\$281,664	

There have been two Change Order requests from PLC for this project, one (CO-1) for \$31,445.55 that was approved and paid, and a second (CO-2) for \$9,520.00 that is pending Board approval. CO-2 is for cutting bridge bolts that were protruding into the road base, replacing an unexpected waterline across the bridge that was embedded in the pre-existing concrete low flow crossing, and a County required Grading Bond. The sum of the two change orders is greater than 10% of the contractor's construction contract hence requires submission to the Fisheries Committee for review and recommendation for Board approval. This additional project expense remains well below the project budget and revenues for the project (see the summary table above). We are awaiting the final closure of all County Permits which may have additional associated required fees.

**LEGAL CONCURRENCE:**

COMB legal counsel has reviewed and approved the project.

**ENVIRONMENTAL COMPLIANCE:**

All permits have been obtained and were followed.

**COMMITTEE STATUS:**

The Fisheries Committee received a project update and reviewed the CO-2 request and forwards the Change Order request to the Board with a recommendation to approve.

**RECOMMENDATION:**

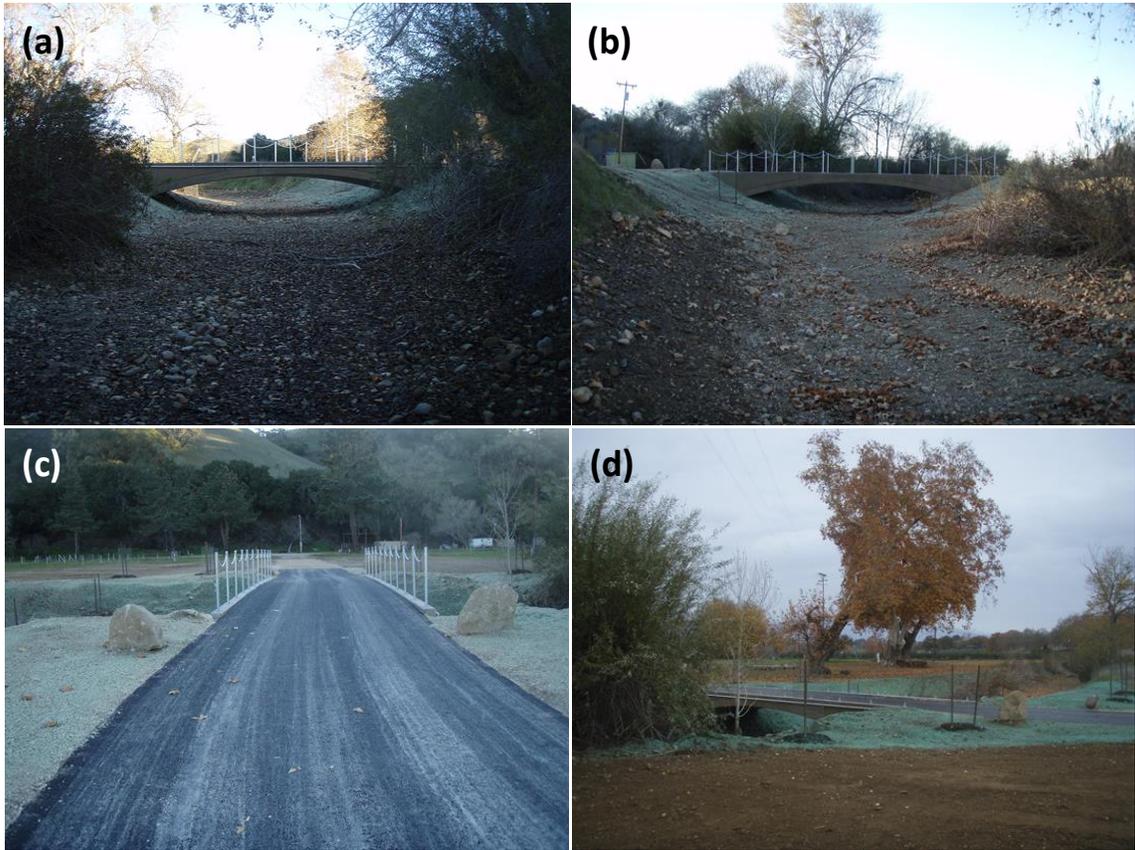
Board approve the requested Change Order (CO-2) in the amount of \$9,250 as presented for the completion of the Quiota Creek Crossing 0A Project.

**LIST OF EXHIBITS:**

Project photos:



**Figure 1:** Pre-project condition looking (a) across the crossing, (b) upstream at the crossing, and (c+d) the crossing with storm flow.



**Figure 2:** The completed project looking (a) upstream, (c) downstream, (c) across the bridge, and (d) across the project area with the planted mitigation trees and hydro-mulch/seed treatment.



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.”*

January 23, 2017

## **General Manager Report**

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

### Meetings

- Cachuma Project Member Agency Managers Meeting

The Cachuma Project Member Agency Managers meeting is hosted monthly by the Santa Barbara County Water Agency and was held on Wednesday, January 4, 2017. The agenda topics included a presentation of Santa Barbara County Flood Control Forecasting Model for the Santa Ynez River and reservoirs. The demonstration included a scenario using, as a sample, a March 1991 five day inflow event with current lake conditions data incorporated into the scenario. The outcome of that sample model showed a significant increase to the lake volume even with soil antecedent index conditions in high ranges. Discussions pertaining to the Master Contract renewal process structure and potential schedule also occurred.

- Regional Drought Task Force Field Meetings

Local water agency representatives and staff attended two, four hour Drought Task Force Field workshop meetings held on Wednesday, January 11<sup>th</sup> and Wednesday, January 18<sup>th</sup>. The purposes of the meetings are to formulate potential regional project priorities for submission to the State for possible financial assistance. Discussions involved formulating the process for presenting a well-developed plan which contains projects that provide regional benefits and critical infrastructure reliability. The next meeting is scheduled for January 25<sup>th</sup> for final review and culmination of the regional plan accompanied by a cover letter which will be submitted to Boards and Councils during the month of February. A regional table-top exercise has been preliminarily scheduled for April 2017.

- Cachuma Project Manager's Meeting

A meeting was hosted by COMB on Wednesday, January 18<sup>th</sup> to provide the Cachuma Project Managers and stakeholder group evolving information regarding the long-term operations of the Emergency Pumping Facility and proposed secured pipeline project. Dan Ellison, HDR Engineering, presented the alternatives relative to the proposed secured pipeline project at Lake Cachuma as well as options on disposition of the barge facility, water quality and treatment considerations respective to the proposed part-two pipeline, and COMB staff provided an update on the permitting process. Discussions among the group also included inquiries regarding short-term operational decisions for the facility if/when rain events produce significant inflow to the lake. Operational information has been provided by HDR to the Member Agencies.

### Operations Division Activities

- Drought Emergency Pumping Facility Project (EPFP)

The EPFP is currently operating in approximately 35' of lake depth with average flows of 4 mgd for the month of January with one to two pumps performing at approximately 90% capacity. As of January 19th, lake storage was 17,900 AF with a corresponding elevation of 651.98'. The pumping system continues to perform and operate as originally designed.

General Manager Report  
January 23, 2017

In July 2016, COMB executed a Professional Services Agreement with HDR Engineering Inc. (HDR) for continued Professional Engineering Project Management Services for the Emergency Pumping Facility (EPF) Project currently operating at Lake Cachuma. COMB also executed a Design, Build, Operate, and Maintain (DBOM) contract with Cushman Contracting Corp. for design, construction, operation and maintenance of the EPF project.

The current temporary design of the Emergency Pumping Facility does not support long-term operations. As the lake rises and falls, the barge facility, additional equipment and electrical supply will need to be moved between site 1 and site 2 to provide for continued operational function. COMB Operations staff is engaged with Santa Barbara County Flood Control to receive daily and up to hourly Santa Ynez River Forecast model updates from realized and anticipated storm systems. Staff is also in continual communication with HDR Engineering and Cushman Contracting Corp. regarding the potential need to relocate from site 2 to site 1 or off the lake if increased inflow conditions occur with current or subsequent storm events.

See Attachment (A) for Emergency Pumping Facility Project expenditure detail.

Fisheries Division Activities

The Fisheries Division staff is working with Reclamation under approval from NMFS to maintain the Hilton Creek O. mykiss population in the creek during this wet weather period in hopes of reducing the potential for stranding. During the past two weeks, the Fisheries Division staff have been conducting beaver dam surveys in access areas along the entire Lower Santa Ynez River mainstem, and within the Salsipuedes/El Jaro Creek drainage. Only a small section of the lower mainstem remains to be surveyed. The three passage projects (Hwy 1, Jalama, Rancho San Julian) on Salsipuedes/El Jaro Creeks are being monitored as part of regular maintenance requirements to verify no debris blockages were present from the last series of storms. Migrant trapping program may begin as early as next week, depending on flows within the basin.

Respectfully Submitted,

*Janet Gingras*

General Manager

# EMERGENCY PUMPING FACILITY PROJECT FY 2016/2017

Attachment A

AS OF: 12/31/2016

**FY 16/17 APPROVED BUDGET**

Emergency Pumping Facility Project

ACCT #6120

**\$ 1,846,250.00 Total Budget Approved FY 16/17**

FY 16/17 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Cushman Contracting	1,746,250.00	772,183.90	974,066.10	Construction - Phase II/Operations
HDR Engineering	100,000.00	43,019.08	56,980.92	Contract Management tasks
Musick, Peeler & Garrett	-	69.00	(69.00)	Legal costs
American Riviera Bank	-	7,045.23	(7,045.23)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	-	-	Materials, supplies, Permits, etc.
Totals	\$ 1,846,250.00	\$ 822,317.21	\$ 1,023,932.79	

FY 15/16 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Cushman Contracting	2,219,250.00	1,954,734.86	264,515.14	Construction - Phase II/Operations
HDR Engineering	100,000.00	80,942.54	19,057.46	Contract Management tasks
PGE (Site 2)	150,000.00	107,880.35	42,119.65	PGE reconducting costs (6 mo's) (Eng)
PGE	240,000.00	-	240,000.00	PGE electrical costs (6 mo's)
Musick, Peeler & Garrett	-	13,662.00	(13,662.00)	Legal costs
American Riviera Bank	-	82,144.46	(82,144.46)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	1,518.75	(1,518.75)	Materials, supplies, Permits, etc.
Totals	\$ 2,709,250.00	\$ 2,240,882.96	\$ 468,367.04	

FY 14/15 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED*	BALANCE	Description
Cushman Contracting	3,818,000.00	3,842,509.46	(24,509.46)	Construction - Phase II/Operations
HDR Engineering	150,000.00	71,618.52	78,381.48	Contract Management tasks
Musick, Peeler & Garrett	-	22,609.00	(22,609.00)	Legal costs
PGE Construction	125,000.00	111,907.00	13,093.00	
PGE Monthly Costs	32,565.00	9,631.02	22,933.98	Electricity charges
PGE Monthly Costs	-	2,500.00	(2,500.00)	Deposit-pump station location #2 eng.
RMC Water & Environment	-	999.81	(999.81)	Prop 84, Grant Application support
Rodney Hunt-Fontaine	-	540.00	(540.00)	Stems/guides-cast/engineering
SY Band of Chumash	-	1,914.30	(1,914.30)	Field monitoring
Bank of Santa Barbara	-	60,120.92	(60,120.92)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	1,214.97	(1,214.97)	Materials, supplies, Permits, etc.
Totals	\$ 4,125,565.00	\$ 4,125,565.00	\$ 0.00	

\*Participating Member Units were assessed Actual Expenditures only.

FY 13/14 DROUGHT CONTINGENCY-EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Environ Strategy	60,000.00	9,191.50	50,808.50	Project Management Services
HDR Engineering	198,748.00	178,645.48	20,102.52	Develop proj def; assist w/RFP-RFP, etc
MPG - Environmental/Legal	50,000.00	80,622.32	(30,622.32)	Environmental / Legal fees
Permits	8,045.25	8,045.25	-	CDFW-\$4,912.25 / RWQCB-\$3,133
PG&E	7,000.00	7,000.00	-	On-going project electrical charges
Smith, Watts & Martinez	20,000.00	20,000.00	-	Lobbyist-drought relief funding
SYRWCD ID#1 (Stetson)	5,000.00	4,025.17	974.83	Work authorized by RW/TR
Miscellaneous	33,206.75	119.72	33,087.03	Non-Contract Incidental charges
Cushman Contracting	350,000.00	350,000.00	-	Phase I designs/mobilization/site prep
HDR Engineering	50,000.00	-	50,000.00	Project Management fees
Contractor	54,000.00	-	54,000.00	Evaluation of NP gates, stems, guides
Rodney Hunt-Fontaine	150,000.00	152,272.44	(2,272.44)	Stems for gates 1-5
PG&E	-	107,370.37	(107,370.37)	Electrical Installation contract
Totals	\$ 986,000.00	\$ 917,292.25	\$ 68,707.75	

COMBINED FY 13/14; 14/15; 15/16 & 16/17 Totals			
	BUDGET	EXPENDED	BALANCE
	\$ 9,667,065.00	\$ 8,106,057.42	\$ 1,561,007.58

**CACHUMA OPERATION AND MAINTENANCE BOARD**

**MEMORANDUM**

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

**Operations**

The annual Work Plan sets forth all activities necessary to ensure continuous system reliability. Consistent with the Plan, Operation and Maintenance staff performs routine maintenance on the surface water distribution and storage system, while also striving to make improvements, address any deficiencies, and identify potential items for inclusion in the Division’s Infrastructure Improvement Plan (IIP).

**Lake Cachuma Operations**

The total flow from Lake Cachuma into the Tecolote Tunnel for December was 546.8 acre-feet, for an average daily flow of 17.63 acre-feet. Lake elevation was 647.46 feet at the beginning of the month and 649.14 feet at the end. Storage change increased 1130 acre-feet. CCWA wheeled 1470.7 acre-feet of water to Cachuma Project facilities.

**Operation and Maintenance Activities**

COMB Staff regularly performs the following duties:

- Operation and maintenance of the South Coast Conduit (SCC) and associated facilities:

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

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

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

*Weekly Safety Meetings:*

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

- ✓ Back Up Generator
- ✓ Power Tools
- ✓ Vehicle Backing

COMB's Operations Division staff performed the following activities, specifically:

- On December 24, 2016, following a magnitude 3.1 earthquake centered approximately 7km southwest of Santa Barbara, staff performed visual inspections of all dams along system, confirming they had not sustained damage.
- Removed any standing water from the six structures containing Air Vacuum Air Release (AVAR) valves along the Lower Reach of the South Coast Conduit (SCC), following recent rains.
- Attended pre-construction meetings regarding project details and conduit safety at the Arroyo Parida Creek crossing.
- A technician from Emerson successfully calibrated both the Lauro Inflow Meter and the Sheffield South-flow Meter, per their recommended calibration schedules.
- Assisted Goleta Water District (GWD) representatives in collecting samples to test the quality of Tecolote Tunnel intrusion water.
- Pre-construction work on the Lauro Stop Valve, tentatively scheduled for replacement on February 14, 2017.
- Cleaned the valve pits at Ortega Reservoir, Lauro Reservoir, Carpinteria Reservoir, and Sheffield Control Station in storm preparation.
- Cleaned and repaired storm drains at Glen Anne, Lauro, Ortega, and Carpinteria Reservoirs, following the storm-induced build-up of debris and fallen trees.

The Operations Division constantly inspects all work sites, reservoirs, and the South Coast Conduit (SCC) in search of potential items or projects for future inclusion in the Infrastructure Improvement Plan (IIP).

Current IIP projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation & Replacement
- Lauro Stop Valve Replacement
- North Portal Access Road Repair
- North Portal Jet Flow Control Valve Replacement
- Lauro Tunnel Concrete Pipe Supports Repair

**Storm Damage Clean Up / Repairs**



Lauro Stop Valve



# CACHUMA OPERATION AND MAINTENANCE BOARD

## BOARD MEMORANDUM

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

### HIGHLIGHTS:

- Water delivery to Hilton Creek continues to be conducted by USBR through a submersible pump in the Stilling Basin that is pumping water to the Lower Release Point of Hilton Creek. Water quality conditions are acceptable for the Hilton Creek *O. mykiss* population. No upper basin flow has been observed so far this water year.\
- On 12/27/16, there was an interruption of power to the Stilling Basin submersible pumps that caused a brief interruption of flow to Hilton Creek. Fortunately COMB and USBR staff responded quickly at which point USBR opened the Hilton Creek water tanks which ran until the system was repaired the next day. There were no noticed impacts to the Hilton Creek *O. mykiss* population.

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 that 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, normally from April through December at the Hilton Creek Watering System (HCWS) intake barge. This is considered to be near the deepest point in the lake and allows for monitoring of lake stratification, water quality conditions at the intake level for the HCWS and lake-turnover. Due to the drought and the need to carefully monitor Lake Cachuma, lake profiles are being taken monthly throughout the year.

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

**Hilton Creek Releases from a Submersible Pump placed in the Stilling Basin to the Lower Release Point:** U. S Bureau of Reclamation (USBR) continues to provide flow to Hilton Creek through an USBR installed small submersible pump on the south side of the

Stilling Basin that is connected to the Chute Release Point of the Hilton Creek Watering System and allows water to be pumped directly to the Lower Release Point (LRP) of Hilton Creek. The system continues to successfully provide just enough water to sustain the remaining population of *Oncorhynchus mykiss* (*O. mykiss*) in Hilton Creek. A second backup submersible pump was installed by USBR on 11/8/16 but that delivered water still does not go through the Hilton Creek water tanks. Water quality conditions in Hilton Creek are being monitored at several locations.

On 12/27/16, there was a power interruption to the submersible pumps in the Stilling Basin that stopped flow to the Lower Release Point of Hilton Creek. The cause of the issue was gopher activity where they cut the power line. The system went off in the morning and was fixed by middle of the following day during which time USBR successfully ran the Hilton Creek water tanks that were refilled by the County water truck. There were no noticed impacts to the Hilton Creek *O. mykiss* population

**USGS gauge on Hilton Creek:** The U. S Geological Survey (USGS) completed the installation of the new gauging station just downstream of the LRP on Hilton Creek. That site (11125605, Hilton Canyon Creek 0.25 Miles Below Bradbury Dam Near Santa Ynez) is measuring stream discharge up to 50 cfs, temperature, and specific conductance. The previous site (11125600, Hilton Canyon Creek near Santa Ynez) located just downstream of the Upper Release Point (URP) continues to operate but is a stage gauge only. The data from both sites can be viewed real-time online at:  
<https://waterdata.usgs.gov/ca/nwis/current/?type=flow>

#### **Tributary Project Updates:**

**Quiota Creek Crossing 0A:** COMB received a 2014 CDFW-FRGP Grant for \$671,635 with a landowner construction match of \$50,000. The COMB Board approved the project through Resolution 612 on 5/23/16. The project broke ground on 10/13/16 and was successfully completed on 12/15/16 on time and within the budget. All are very pleased with the results of the project. A separate Board memo has been prepared with further detail.

**Quiota Creek Crossing 4:** COMB was awarded a 2015 CDFW-FRGP Grant on 3/30/15 for \$938,295 with a COMB construction match of \$50,000. The project broke ground on 10/3/16 and is expected to be completed by 12/22/16. A final Board memo with closing financials will be provided at the February Board meeting.

**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. If funded, the project would most likely be built in the fall of 2017 pending design approval and permit acquisition.

**Quiota Creek Crossing 8:** This project and the required Cooperative Agreement with the County were discussed at the 5/4/16 Fisheries Committee meeting with approval by the Board on 5/23/16 to move forward with the project and the Cooperative Agreement. The County Board of Supervisors approved the Cooperative Agreement on 7/12/16. With a fully executed Cooperative Agreement, the County submitted a CalTrans grant application to fund the project and CalTrans approved the funding for a full bridge replacement. SBCAG approved the project on 11/17/16. We are now working on a Professional Service Agreement for COMB with the County to manage the project. Once completed, we will go through the CalTrans process for obtaining a Project Engineer and begin grant expenditures (February 2017), hold

a field review meeting with CalTrans (February 2017), and then begin environmental review, permitting, design, flood area certificates, and Right of Way in March 2017. Pending the above, the project would be built in fall 2017 or 2018.

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

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

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

The HCWS and HCEBS are owned, operated and maintained by USBR. The HCEBS was completed at the end of January 2016. An additional contract modification (Mod-005) is in process to have the contractor install security fencing and lighting for the HCEBS. With this system fully operational, USBR can now work on the identified repairs to the HCWS which will be scheduled at some point. No work or maintenance has been conducted by USBR on either of these water delivery systems this past month.

**Surcharge Water Accounting**

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

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

<b>Accounts*</b>	<b>Allocation</b>	<b>Amount Used**</b>	<b>Amount Remaining</b>
<b>Units:</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>
<b>Fish Passage Supplementation</b>	3,200	0	3,200
<b>Adaptive Management</b>	500	149	351
<b>Fish Rearing***</b>	5,484	5,484	0
<b>Project Yield</b>		15,022	
<b>Total:</b>	9,184	20,655	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 12/31/16.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

**Reporting / Outreach / Training**

**Reporting:** Staff continues to work on the Annual Monitoring Reports. Staff has been providing information to USBR as requested in support of Adaptive Management Committee meetings, Reconsultation, and other operations 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 0A, 4, 5 and 8 projects.

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

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

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

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

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

**SUMMARY:**

***Maintenance***

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since July, 2016 to the present (7/1/16 – 1/23/17, Table 1). Labor and expenses for the entire fiscal year (July 2016 - June 2017) as well as water usage will be tracked separately but not reported as recommended by the COMB Board 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 inventory of all trees planted has been presented to the Lake Cachuma Oak Tree Committee at its 2/25/16 meeting as well as the 2015 Lakeshore Survey, which sets the mitigation number for 2015. Both the 2015 Annual Report and 2015 Lakeshore Survey have been completed and distributed to the COMB Board.

**Table 1:** Cachuma Oak Tree Program completed tasks since July, 2016.

	July 2016	Aug 2016	Sept 2016	Oct 2016	Nov 2016	Dec 2016	Jan 2017*
<b>Year 8 Oaks (2015-2016)</b>	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Mulched	
<b>Year 7 Oaks (2014-2015)</b>	Irrigated Weeded Mulched	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		
<b>Year 6 Oaks (2010-2011)</b>							
<b>Year 5 Oaks (2009-2010)</b>		Irrigated Weeded				Cage maint.	
<b>Year 4 Oaks (2008-2009)</b>						Cage maint.	
<b>Year 3 Oaks (2007-2008)</b>					Irrigated	Cage maint.	
<b>Year 2 Oaks (2006-2007)</b>							
<b>Year 1 Oaks (2005-2006)</b>	Irrigated						
* Annual Oak Tree Inventory							
* Annual Report							
* New Oak Tree Planting (Year 9)							

The Fisheries Division irrigated the trees up until the end of November when enough rainfall occurred to cease watering activities for the remainder of the calendar year. The annual oak tree inventory has begun and staff will be working on this task over the next several weeks. Crews will also finish adding a fresh layer of mulch to the Year 8 trees, followed by the Year 7 trees this winter and spring.

### ***2015 Annual Report***

The Lake Cachuma Oak Tree Restoration Program began during Fiscal Year 2005-2006 (FY05/06). Every year there is an Annual Report that comes out after the tree inventory and assessment that is conducted traditionally at the end of the fall. The Program was initially carried out by a consultant and subsequently by COMB staff that assumed those responsibilities in FY12/13. Included in the Annual Report are Program financials and water usage since COMB took over the effort.

The 2015 Oak Tree Survey was initiated in the fall of 2015 and completed in February 2016 due to the extensive planting effort that fall and winter, referred to as the Year 8 trees. The 2015 Annual Report with Fiscal Year 2015/2016 Financials and Water Use has been reviewed and approved by the Lake Cachuma Oak Tree Restoration Committee on 1/12/17. The report is presented as Exhibit 1 of this memo.

### ***Year 9 Planting Plan***

The results of the 2015 Lakeshore Survey found there were 879 dead and 1,122 at-risk oak trees. With a 2:1 mitigation ratio and an estimated 18% mortality rate, it was estimated that 4,722 trees would need to be planted to meet our mitigation requirements in 2025. To date, there are 3,583 planted alive trees across all planting years (Year 1 through Year 8) suggesting that 1,139 trees still need to be planted.

To that regard and as recommended by the Lake Cachuma Oak Tree Committee on 1/12/17, the next oak tree planting effort, referred to as Year 9, will begin in January at the Lake Cachuma County Park. Between 200 and 400 new oak trees will be planted at several locations within the Park that are approved by County Park staff. Trees will be planted at an approximate ratio of 90% Coast Live Oaks and 10% Valley Oaks.

### **FINANCIAL IMPACT:**

All costs of the Program were incorporated in the COMB annual budget.

### **LEGAL CONCURRENCE:**

N/A.

### **ENVIRONMENTAL COMPLIANCE:**

The Lake Cachuma Oak Tree Restoration Program is being conducted in accordance with the compliance measures stated in the 2004 EIR/EIS for the Lower Santa Ynez River Fish Management Plan (2000) and Cachuma Project Biological Opinion (2000).

### **COMMITTEE STATUS:**

The Lake Cachuma Oak Tree Restoration Committee has reviewed and approved the 2015 Annual Report with Fiscal Year 2015-2016 Financials and Water Usage on 1/12/17 and the Year 9 Planting Plan.

### **RECOMMENDATION:**

1. Receive and file the 2015 Annual Report with Fiscal Year 2015-2016 Financials and Water Usage as submitted or after Board comment incorporation.

### **LIST OF EXHIBITS:**

***Exhibit 1:*** 2015 Annual Report with Fiscal Year 2015-2016 Financials and Water Usage.

# LAKE CACHUMA OAK TREE RESTORATION PROGRAM

## 2015 ANNUAL REPORT *with* *Fiscal Year 2015-2016 Financials and Water Usage*



**Prepared for:** Cachuma Operation and Maintenance Board

**Prepared by:** Timothy H. Robinson (COMB), Scott J. Volan (COMB), Daniel Razo (COMB) and Kenneth A. Knight (Kenneth A. Knight, Consulting)

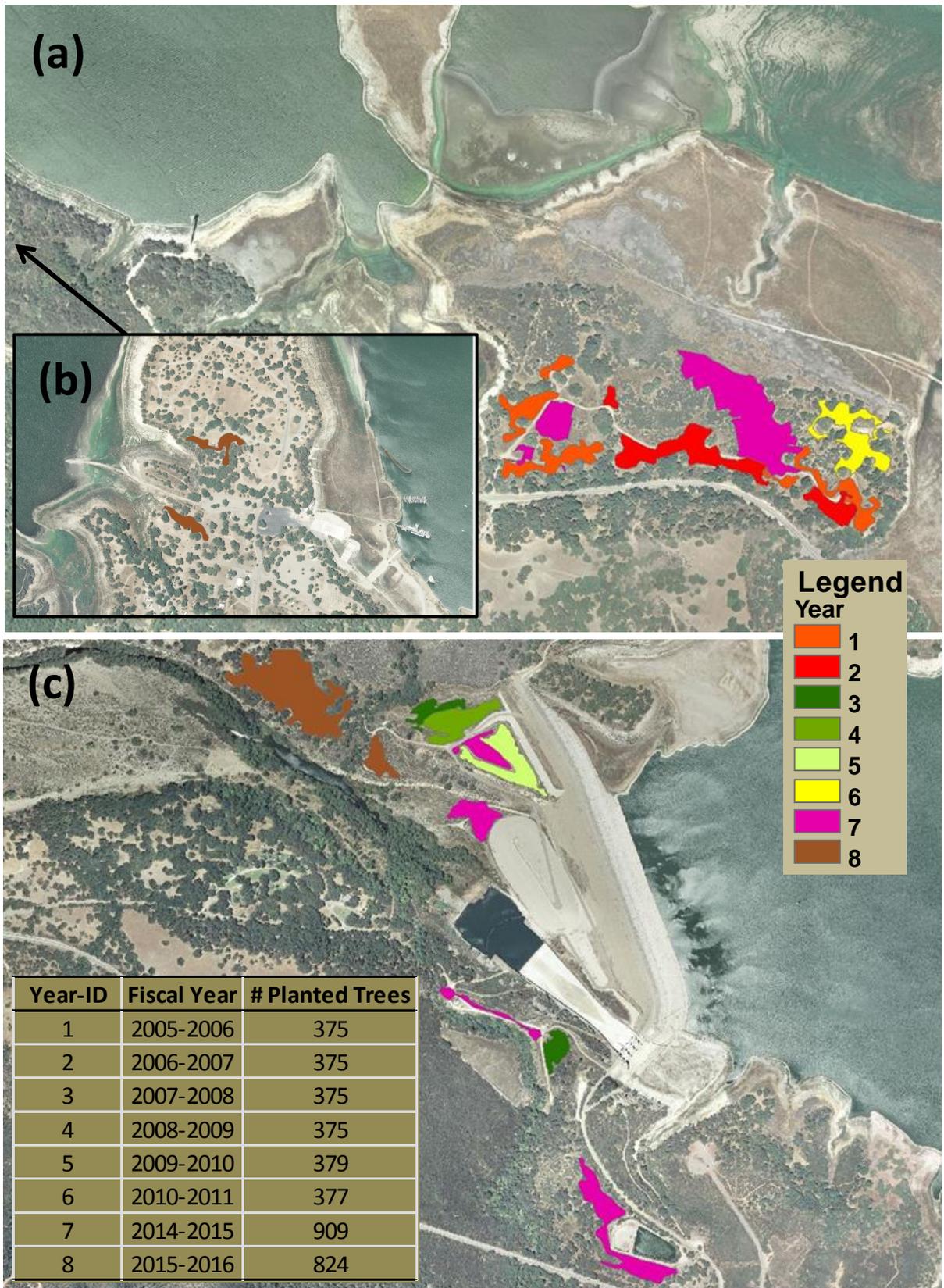
**January 19, 2017**

This Annual Report presents the results of the 2015 oak tree inventory and Fiscal Year 2015/2016 (FY15/16) maintenance with water use and financials for the Lake Cachuma Oak Tree Restoration Program (Program). For Program details and objectives, see the 2-Year Plan for Fiscal Years 2013/14 and 2014/15 (COMB, 2014). This annual report contains oak tree survival rates, maintenance with water usage, financials, and suggested program improvements.

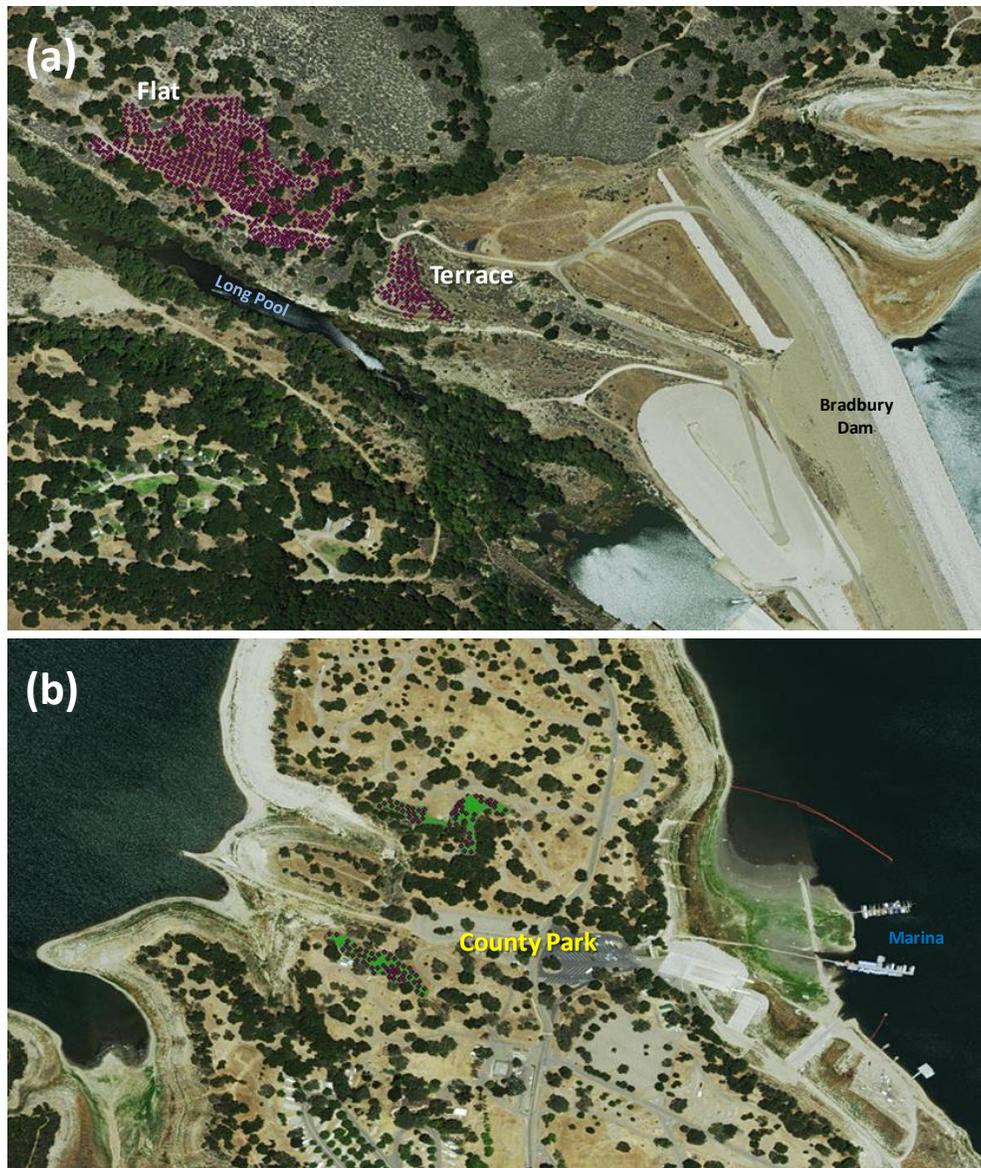
Just over 800 (824) oak trees were planted in FY15/16. These trees are referred to as the Year 8 trees and were planted in Long Pool Flat and Terrace near Bradbury Dam and Lake Cachuma County. The inventory and results of that planting effort in regards to meeting the mitigation requirement will be presented in next year's annual report although the financials and maintenance effort are included in this report.

## **Results**

The 2015 inventory (or survey) of the oak trees planted through the Lake Cachuma Oak Tree Restoration Program was completed in February 2016. The objective of the annual survey is to determine the status and success rate of the trees planted since the beginning of the program with 7 years of plantings; Year 1 (2005-2006), Year 2 (2006-2007), Year 3 (2007-2008), Year 4 (2008-2009), Year 5 (2009-2010), Year 6 (2010-2011), and Year 7 (2014-2015) in four different locations around Lake Cachuma (Figure 1). Year 8 (2015-2016) trees are newly planted (Figure 2) and will be included in the 2016 inventory. Annual surveys are conducted in the late fall and early winter to best document the survival after the dry season and growth since the last survey.

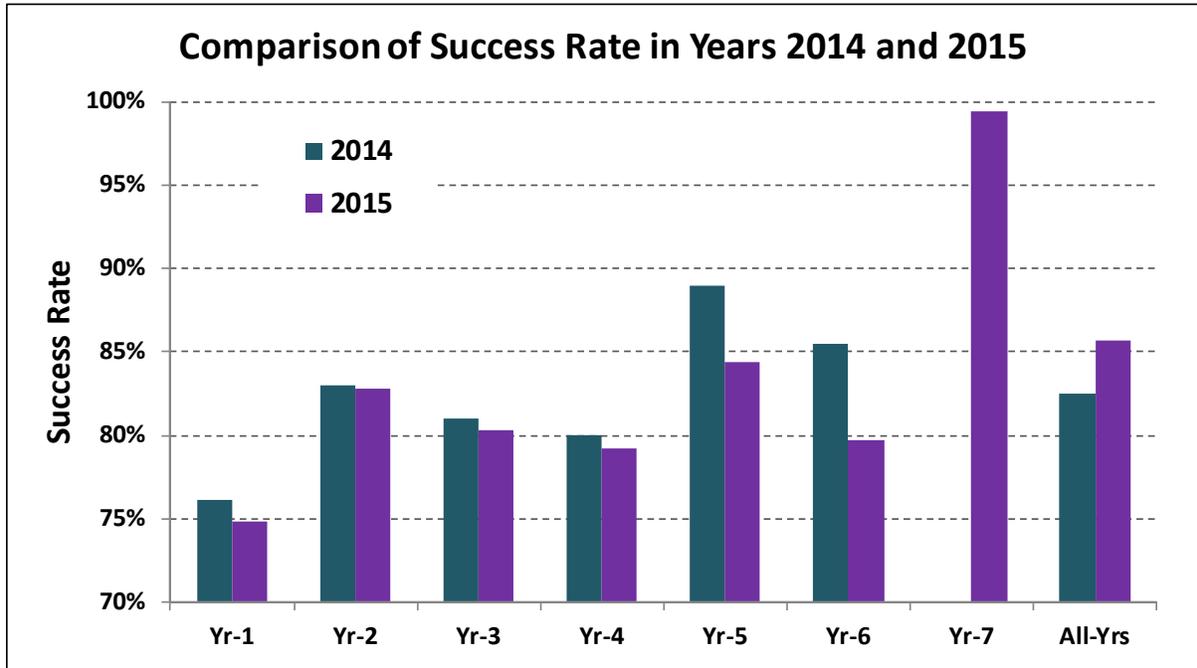


**Figure 1:** Oak tree planting locations by year planted; (a) Storke Flats, (b) Cachuma Lake Recreation Area (County Park), and (b) Bradbury Dam area.

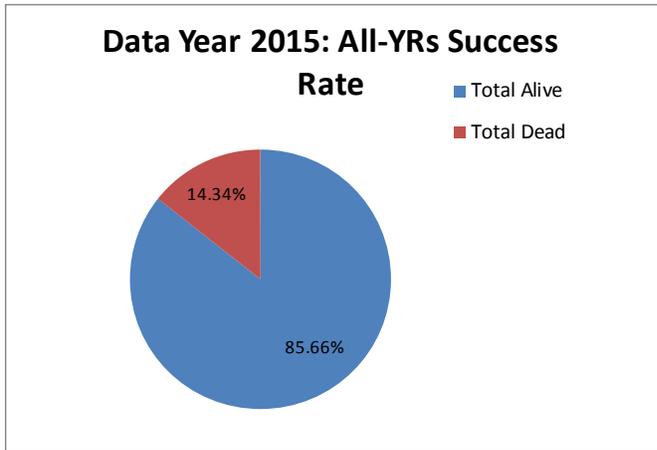
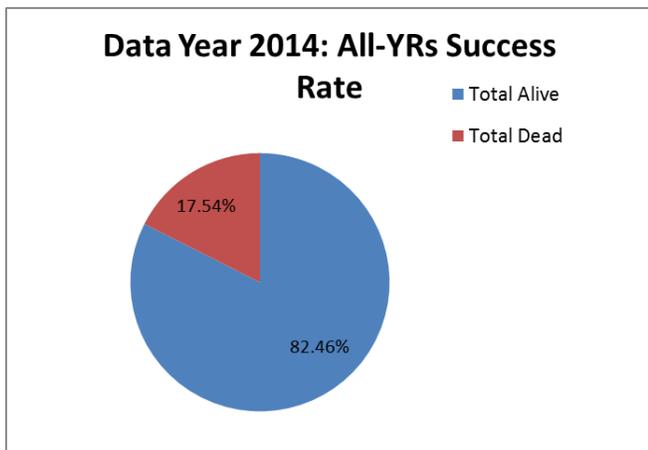


**Figure 2:** Oak trees planted during Year 8 specifically at (a) the Long Pool Flat and Terrace, and (b) within Lake Cachuma County Park.

The following figures and tables are the results of the survey in 2015 with 2014 results included for comparison; overall success rates in 2014 and 2015 (Figures 3 and 4) and success by planting year in 2014 and 2015 (Figures 5-10). The overall success rate went from 82.5% in 2014 to 85.7% in 2015; the increase is due to adding in the Year 7 trees (906) with a very high first year success rate. Without Year 7 trees, the success rate for Years 1-6 trees is 80.2% which is a drop from last year (2014) and is attributed to five consecutive years of drought and root damage by gophers getting through failing gopher wire baskets. The number of required mitigated trees from the Lake Cachuma Surcharge Project was set in 2015 and reported in the 2015 Lakeshore Survey Report (COMB, 2016). The required mitigation ratio is two to one (2:1) survival rate (self-sustaining) in 2025. The results of the 2015 Lakeshore Survey found there were 879 dead and 1,122 at-risk oak trees. With a 2:1 mitigation ratio and an estimated 18% mortality rate, it was estimated that 4,722 trees would need to be planted to meet our mitigation requirements in 2025. To date, there are 3,583 planted alive trees suggesting that 1,139 trees still need to be planted.



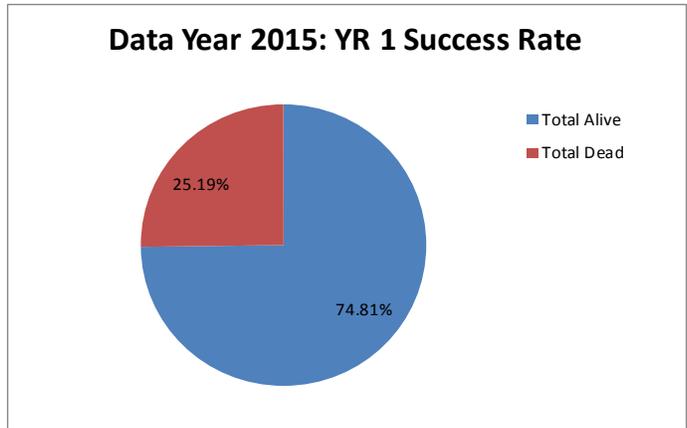
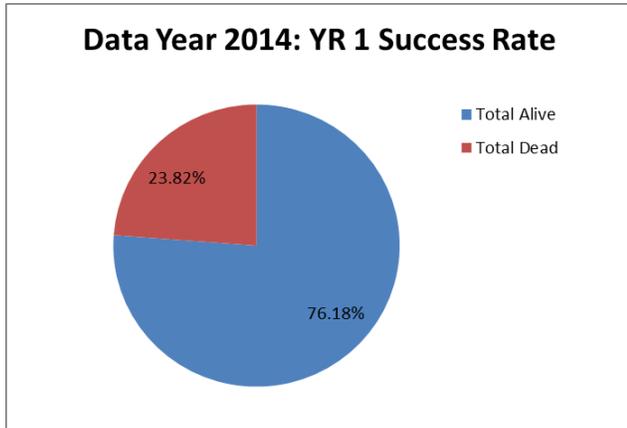
**Figure 3:** Success rate comparison from 2014 to 2015 for each and all tree years (Yr); not including Year 8 trees.



All Years - Total Observed in 2014			Percent of Total	
Total Coast Live Oak (alive)	1684	Total Alive	1894	82.46%
Total Valley Oak (alive)	210	Total Dead	403	17.54%
Ratio Coast/Valley	8.0	Total	2297	100.00%

All Years - Total Observed in 2015			Percent of Total	
Total Coast Live Oak (alive)	2396	Total Alive	2759	85.66%
Total Valley Oak (alive)	363	Total Dead	462	14.34%
Ratio Coast/Valley	6.6	Total	3221	100.00%

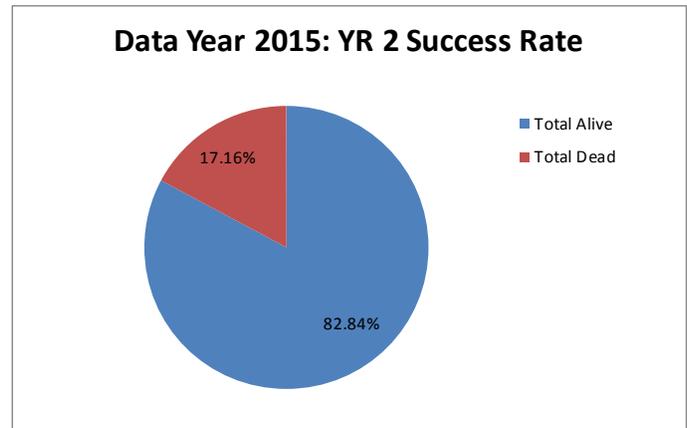
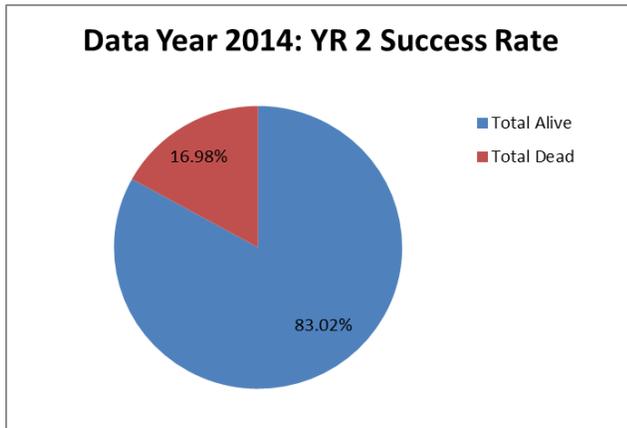
**Figure 4:** 2014 and 2015 status of oak trees from all years (Years 1 through 7) planted; not including Year 8 trees.



Year 1 - Total Observed in 2014		Percent of Total	
Total Coast Live Oak (alive)	263	Total Alive	291 76.18%
Total Valley Oak (alive)	28	Total Dead	91 23.82%
Ratio Coast/Valley	9.4	Total	382 100.00%

Year 1 - Total Observed in 2015		Percent of Total	
Total Coast Live Oak (alive)	264	Total Alive	288 74.81%
Total Valley Oak (alive)	24	Total Dead	97 25.19%
Ratio Coast/Valley	11.0	Total	385 100.00%

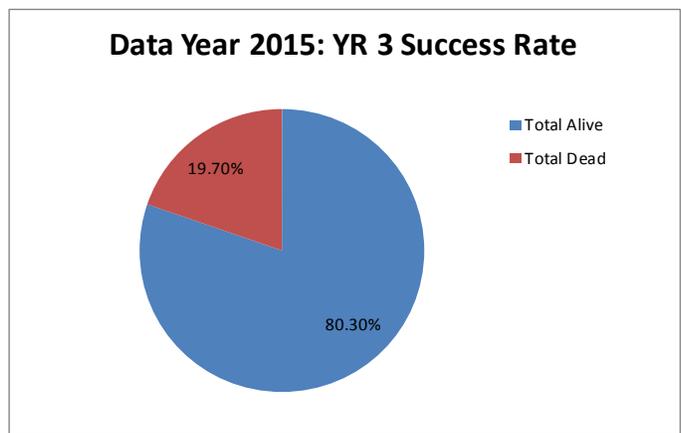
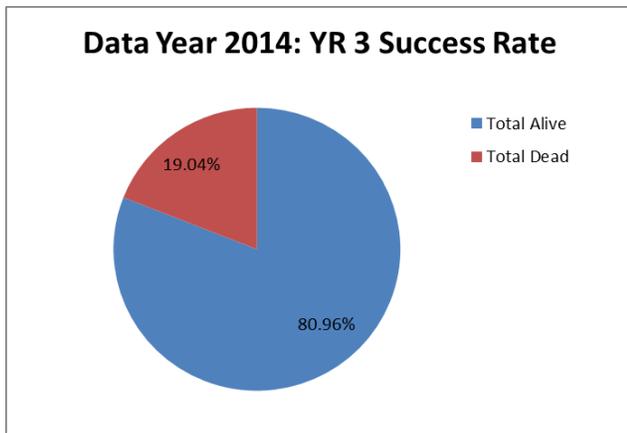
**Figure 5:** Status comparison of Year (YR) 1 trees from 2014 to 2015.



Year 2 - Total Observed in 2014		Percent of Total	
Total Coast Live Oak (alive)	280	Total Alive	308 83.02%
Total Valley Oak (alive)	28	Total Dead	63 16.98%
Ratio Coast/Valley	10.0	Total	371 100.00%

Year 2 - Total Observed in 2015		Percent of Total	
Total Coast Live Oak (alive)	285	Total Alive	309 82.84%
Total Valley Oak (alive)	24	Total Dead	64 17.16%
Ratio Coast/Valley	11.9	Total	373 100.00%

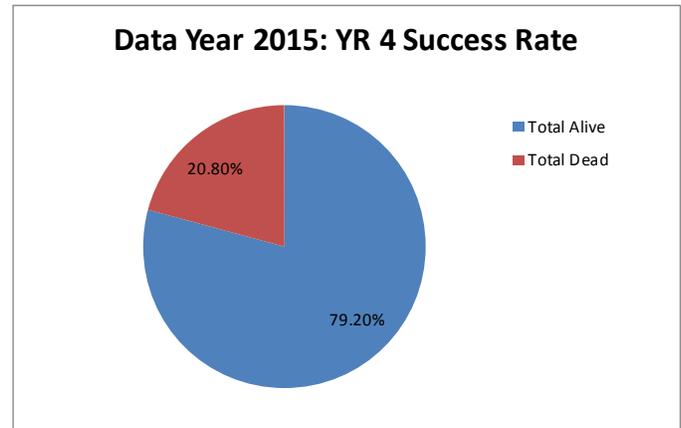
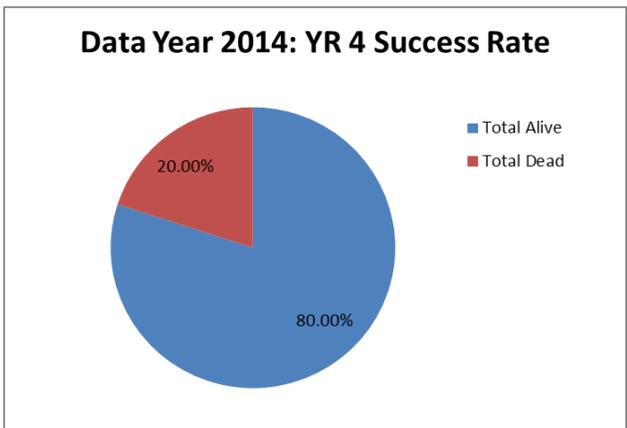
**Figure 6:** Status comparison of Year 2 trees from 2014 to 2015.



Year 3 - Total Observed in 2014		Percent of Total	
Total Coast Live Oak (alive)	292	Total Alive	319
Total Valley Oak (alive)	27	Total Dead	75
Ratio Coast/Valley	10.8	Total	394
			100.00%

Year 3 - Total Observed in 2015		Percent of Total	
Total Coast Live Oak (alive)	295	Total Alive	322
Total Valley Oak (alive)	27	Total Dead	79
Ratio Coast/Valley	10.9	Total	401
			100.00%

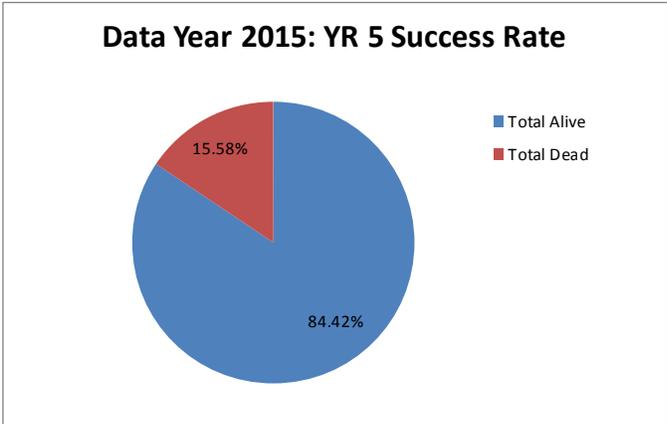
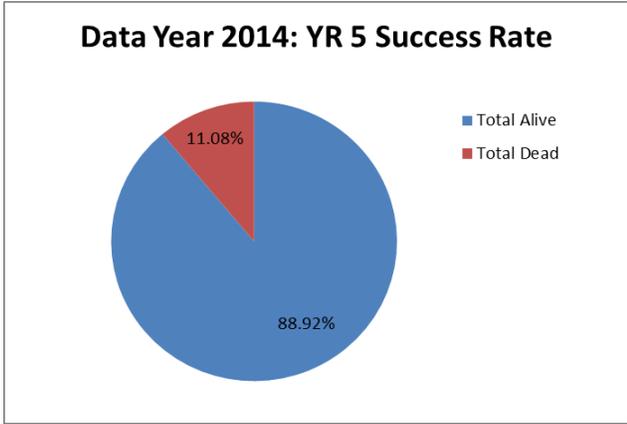
**Figure 7:** Status comparison of Year 3 trees from 2014 to 2015.



Year 4 - Total Observed in 2014		Percent of Total	
Total Coast Live Oak (alive)	272	Total Alive	300
Total Valley Oak (alive)	28	Total Dead	75
Ratio Coast/Valley	9.7	Total	375
			100.00%

Year 4 - Total Observed in 2015		Percent of Total	
Total Coast Live Oak (alive)	270	Total Alive	297
Total Valley Oak (alive)	27	Total Dead	78
Ratio Coast/Valley	10.0	Total	375
			100.00%

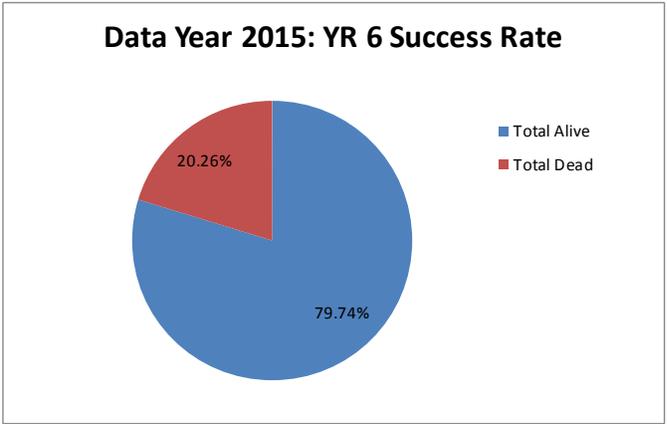
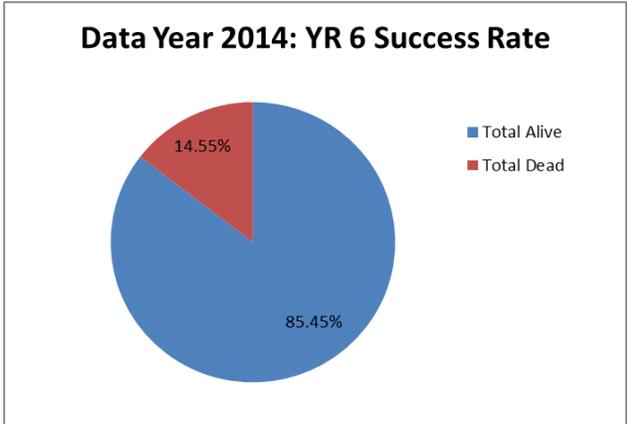
**Figure 8:** Status comparison of Year 4 trees from 2014 to 2015.



Year 5 - Total Observed in 2014		Percent of Total	
Total Coast Live Oak (alive)	297	Total Alive	353
Total Valley Oak (alive)	56	Total Dead	44
Ratio Coast/Valley	5.3	Total	397
			100.00%

Year 5 - Total Observed in 2015		Percent of Total	
Total Coast Live Oak (alive)	285	Total Alive	336
Total Valley Oak (alive)	51	Total Dead	62
Ratio Coast/Valley	5.6	Total	398
			100.00%

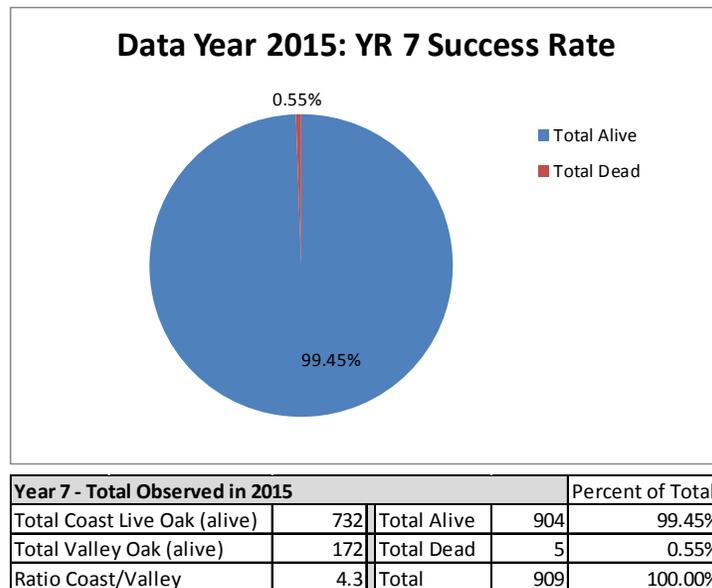
**Figure 9:** Status comparison of Year 5 trees from 2014 to 2015.



Year 6 - Total Observed in 2014		Percent of Total	
Total Coast Live Oak (alive)	280	Total Alive	323
Total Valley Oak (alive)	43	Total Dead	55
Ratio Coast/Valley	6.5	Total*	378
			100.00%

Year 6 - Total Observed in 2015		Percent of Total	
Total Coast Live Oak (alive)	265	Total Alive	303
Total Valley Oak (alive)	38	Total Dead	77
Ratio Coast/Valley	7.0	Total	380
			100.00%

**Figure 10:** Status comparison of Year 6 trees from 2014 to 2015.



**Figure 11:** Status of Year 7 trees to 2015.

### Maintenance

Maintenance of all planted oak trees in FY15/16 included irrigating, weeding, mulching, and deer cage maintenance is presented in Table 1. The total amount of water used from Lake Cachuma to irrigate oak trees from all years in FY15/16 is provided in Table 2. Information presented in Tables 1 and 2 does include Year 8 trees.

**Table 1:** Cachuma Oak Tree Restoration Program completed maintenance in FY15/16.

	July 2015	Aug 2015	Sept 2015	Oct 2015	Nov 2015*	Dec 2015*	Jan 2016	Feb 2016**	March 2016	April 2016	May 2016	June 2016	July 2016
<b>Year 8 Oaks (2015-2016)</b>						New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	Irrigated Weeded	Irrigated	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded
<b>Year 7 Oaks (2014-2015)</b>	Irrigated Weeded Cage maint.	Irrigated Weeded Cage maint.	Irrigated Weeded Cage maint.	Irrigated Weeded				Weeded Mulched	Irrigated Mulched Weeded	Irrigated Weeded		Irrigated Weeded Mulched	Irrigated Weeded Mulched
<b>Year 6 Oaks (2010-2011)</b>				Weeded Mulched							Irrigated Weeded		
<b>Year 5 Oaks (2009-2010)</b>				Irrigated Fertilized									
<b>Year 4 Oaks (2008-2009)</b>					Irrigated Fertilized Cage maint.				Cage maint.		Irrigated		
<b>Year 3 Oaks (2007-2008)</b>					Irrigated Fertilized Cage maint.				Cage maint.		Irrigated		
<b>Year 2 Oaks (2006-2007)</b>					Fertilized						Irrigated		
<b>Year 1 Oaks (2005-2006)</b>					Fertilized							Irrigated	Irrigated

\*November and December work included annual oak tree inventory.  
 \*\*February work included Year 8 oak tree inventory.

**Table 2:** Cachuma Oak Tree Restoration Program water usage from Lake Cachuma for irrigation during FY15/16.

Month	Gallons	Acre-feet
July	33,075	0.102
August	11,700	0.036
September	17,550	0.054
October	30,600	0.094
November	3,600	0.011
December	17,100	0.052
January	2,250	0.007
February	16,200	0.050
March	7,200	0.022
April	62,550	0.192
May	41,400	0.127
June	49,500	0.152
<b>Total</b>	<b>292,725</b>	<b>0.90</b>

### Financials

Annual expenses by Fiscal Year since the beginning of the Lake Cachuma Oak Tree Restoration Program in FY05/06 are presented in Table 3. The totals include COMB staff (plus burden) and consulting arborist hours, material, supplies and fuel expenses over the period. The breakout for those costs is presented by labor (Table 4) and the total cost (labor, materials and supplies) in Table 5.

**Table 3:** Total program costs by Fiscal Year including planting year (Year-ID) and number of trees planted during those years.

Fiscal Year	Operator	Year-ID	# Planted Trees	Cost
2005-2006	Fournier	1	375	\$116,731
2006-2007	Fournier	2	375	\$117,620
2007-2008	Fournier	3	375	\$138,786
2008-2009	Fournier	4	375	\$137,872
2009-2010	Fournier	5	379	\$136,900
2010-2011	Fournier	6	377	\$137,878
2011-2012	Fournier	-	-	\$79,439
2012-2013	COMB	-	-	\$101,431
2013-2014	COMB	-	-	\$48,097
2014-2015	COMB	7	909	\$134,054
2015-2016	COMB	8	824	\$128,241
<b>Total:</b>			<b>3989</b>	<b>\$1,277,050</b>

**Table 4:** Labor costs for the Lake Cachuma Oak Tree Program during FY15/16.

	<b>Total</b>
<b>COMB Staff (hours):</b>	
Seasonal Biologist Aide A	206
Seasonal Biologist Aide B	537
Seasonal Biologist Aide C	160
Seasonal Biologist Aide D	457
Seasonal Biologist Aide E	744
Seasonal Biologist Aide F	481
Administrative Secretary	0
Water Service Worker II	16
Water Service Worker I	0
Water Service Worker III	27
Engineer Technician I	0
Project Biologist A	110
Project Biologist B	137
Senior Resource Scientist	113
<b>Total Staff Hours:</b>	<b>2988</b>
<b>Cost - Labor plus burden</b>	<b>\$71,915</b>
<b>Consultant Service Hours (Ken Knight):</b>	<b>58</b>
<b>Consultant Cost</b>	<b>\$5,775</b>
<b>Total Personnel /Consultant Cost</b>	<b>\$77,690</b>

**Table 5:** Total expenses (labor, materials and supplies) for the Lake Cachuma Oak Tree Program during FY15/16.

	<b>Total</b>
<b>Materials and Supplies:</b>	
Oak trees	\$4,132
Tree stakes	\$4,854
Tree tags	\$17
Mulch	\$487
Compost	\$1,331
Fertilizer	\$777
Gopher wire baskets	\$1,779
Protective deer caging/netting	\$5,979
Hand tools	\$283
Rebar	\$37
Hoses	\$878
Cable ties	\$51
PPE	
Lake Cachuma boat rental	
Backhoe mobilization	\$1,980
California Conservation Corps	\$24,983
Water truck rental	\$1,717
<b>Vehicle Fuel Cost</b>	<b>\$1,091</b>
<b>Equipment Fuel Cost</b>	<b>\$177</b>
<b>Total Materials and Supplies</b>	<b>\$50,551</b>
<b>TOTAL EXPENSES (labor, materials + supplies)</b>	<b>\$128,241</b>

The total cost of the Lake Cachuma Oak Tree Restoration Program in FY15/16 was \$128,241, of which \$62,148 of that amount was the cost of planting the Year 8 oak trees. There were 824 oak trees planted in FY15/16, over two times the amount of trees planted any single year effort during the first 6 years of planting. Again, the total reflects personnel cost (labor plus burden), materials, supplies, expenses (vehicle and equipment fuel), and consultant fees. For comparison across recent years without new plantings, the total cost in FY11/12 (previous consultant), FY12/13 (COMB takes over and incurs repair costs), FY13/14 (COMB with some repair costs), FY14/15 (COMB with some repair costs and without planting costs for the Year 7 trees), and FY15/16 (COMB with some repair costs and without planting costs for the Year 8 trees) were \$79,439, \$101,431, \$48,097, \$53,265, and \$66,094, respectively. The increase in FY15/16 costs reflects the additional expenses for maintenance of the new trees and a slight reduction in cost for the older and more self-sustaining trees. The ability to keep costs down relative to the number of new oak trees planted between FY12/13 and FY15/16 is attributed to multiple factors, which include but not limited to:

- Relying on the COMB Fisheries Division seasonal staff to conduct the bulk of field activities; further assistance was obtained by the California Conservation Core (CCC) members.

- Scaling back on the amount of full-time staff being used.
- Reduced equipment needs as the bulk of purchases occurred during the initial start-up of the Program during the previous fiscal year when COMB took over the project.
- Reduced consultant hours.
- Reduced vehicle gas consumption as some of the seasonal staff live in the Santa Ynez Valley and use their own vehicles to travel to oak tree locations.
- Reduced equipment (generator/pumps) gas consumption from more efficient irrigation hosing and better delivery technique for extracting water from Lake Cachuma.

### Summary and Program Improvements

There are 3,584 (1,856 from Years 1-6, 904 from Year 7 and 824 from Year 8) alive oak trees attributed to the mitigation effort of the Program. The survival rate to date is 85.7% (Years 1-7 trees) which would be considered very respectful in any open range oak tree planting effort in a similar climate. Challenges for the Program, specifically tree survival, are five years of an extraordinary drought, inadequate initial planting (compromised gopher wire baskets, trees planted too low, etc.), and a limited staff to take care of an extensive number of trees. Some planting areas have better soil and topography than others, for example the Year 4 planting area has shallow soils with southern exposed whereas the Year 6 planting area is just the opposite.

Lessons learned by the COMB staff from 4 years of conducting this Program have been put into practice, specifically:

- Mulch all trees once a year.
- Maintain deer cages for all trees below deer browsing level.
- Clear the dirt away from the tree base.
- Expose gopher wire baskets at the surface to prohibit gopher travel over the top of the cage.
- Plant new trees in professional gopher wire baskets using backhoe dug holes (no auger holes that limit the spread of tree roots); plant the trees slightly above grade to accommodate subsidence; and use sturdy wire deer cages instead of netting or chicken wire.
- Plant well established trees from the nursery as they seem to have a better success rate.
- Continue to experiment with using Grow-Tubes (Figure 12).



**Figure 12:** Planted coast live oaks with 4 foot high Grow-Tubes at Storke Flats (Year 7 trees).



**16-17 ENTITLEMENT**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF DECEMBER 2016 AND THE WATER YEAR TO DATE**

(All in rounded Acre Feet)

	MONTH					YTD
	TOTAL					TOTAL
<b>WATER PRODUCTION:</b>						
Cachuma Lake (Tec. Diversion)						2,925
Tecolote Tunnel Infiltration						105
Cachuma Lake (County Park)						6
State Water Diversion Credit						1,801
Bishop Ranch Diversion						0
Meter Reads						1,189
So. Coast Storage gain/(loss)						(12)
<b>Total Production</b>						<b>3,036</b>
<b>Total Deliveries</b>						<b>2,978</b>
Unaccounted-for						58
% Unaccounted-for						1.92%
	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRWCD</b>	<b>TOTAL</b>
					<b>I.D. #1</b>	
<b>WATER USE:</b>						
M&I	0	243	0	0	3	246
Agricultural	0	0	0	0	0	0
	<b>0</b>	<b>243</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>246</b>
<b>Unaccounted Reconciliation - Cachuma:</b>						
M&I	0	5	0	0	0	5
Agriculture	0	0	0	0	0	0
Unaccounted-for: Cachuma	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>
Unaccounted-for: SWP Report	1	2	5	1	0	9
<b>Total Unaccounted-for:</b>	<b>1</b>	<b>7</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>14</b>
<b>TOTAL USE for Month</b>	<b>1</b>	<b>250</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>251</b>
Same Mo/prev. yr	424	447	191	108	1	1,171
M&I Yr to date	0	1,115	291	0	6	1,412
Ag. Yr to date	0	0	54	0	0	54
<b>TOTAL YTD</b>	<b>0</b>	<b>1,115</b>	<b>345</b>	<b>0</b>	<b>6</b>	<b>1,466</b>
USAGE % YTD	13.4%	100.0%	100.3%	0.0%	35.8%	77.3%
<b>Previous Year/YTD</b>	<b>1,022</b>	<b>1,154</b>	<b>497</b>	<b>192</b>	<b>3</b>	<b>2,868</b>
Evaporation #	9	5	0	0	0	14
Evaporation, YTD	75	124	33	0	3	235
Entitlement ***	0	0	0	0	0	0
Carryover	561	1,239	377	0	24	2,201
Carryover Balances Spilled YTD	0	0	0	0	0	0
Surplus^^	0	0	0	0	0	0
State Water Exchange^	0	0	0	0	0	0
Transfers/Adjustment ****	0	0	0	0	0	0
Passthrough H2O**	0	0	0	0	0	0
<b>TOTAL AVAILABLE</b>	<b>561</b>	<b>1,239</b>	<b>377</b>	<b>0</b>	<b>24</b>	<b>2,201</b>
<b>REMAINING BALANCE</b>	<b>486</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>500</b>
Percentage Remaining	87%	0%	0%	0%	64%	23%

\*\*\* Per USBR advisory letter dated 10/21/2016 to SB County Water Agency, zero (0) af entitlement allocated.

\*\* City is operating under pass through mode declared November 2008.

State Water Deliveries to Lake Cachuma for December were: MWD 403 AF; CVWD 111 AF  
GWD 338 AF(Morehart 3 AF); City of S.B. 603 AF; and LaCumbre 0 AF: (Ratheon 12 AF).

^ Per SWP Exchange Agrmt GWD received 0 AF; MWD received 0 AF;

City of SB received 0 AF; and CVWD received 0 AF from ID#1 in November 2016.

# Per USBR email dated 12/23/2015, evap charged to unallocated water until unallocated water is exhausted.

Unallocated water was exhausted during the month of July 2016. Prorated evaporation applied.

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

MONTH: **DECEMBER 2016**

**GLEN ANNIE RESERVOIR**

Capacity at 385' elevation:	518	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	333.00	Feet
Water in Storage	21.82	AF

**LAURO RESERVOIR**

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	547.60	Feet
Water in Storage	475.48	AF

**ORTEGA RESERVOIR**

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	446.30	Feet
Water in Storage	17.34	AF

**CARPINTERIA RESERVOIR**

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	377.30	Feet
Water in Storage	28.64	AF

**TOTAL STORAGE IN RESERVOIRS**

	492.82	AF
Change in Storage	-5.04	AF

**CACHUMA RESERVOIR\***

Capacity at 750' elevation:	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF
Stage of Reservoir Elevation	649.14	Feet
Water in Storage	15,858	AF
Surface Area	687	
Evaporation	68.6	AF
Inflow	166.8	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	0.0	AF
Outlet	0.0	AF
<b>Spill/Seismic Release</b>	0	AF
State Project Water	1470.7	AF
Change in Storage	1,130	AF
Tecolote Diversion	546.8	AF

**Rainfall:    Month:    1.92                      Season:    4.26                      Percent of Normal:    34%**

Item #13  
Page 3

**SUMMARY: UNACCOUNTED-FOR WATER ALLOCATIONS  
DECEMBER 2016**

	Lauro & Cater Loss (LE + CTPL)	Ortega Toe Drain (OTD)	Use Area 1	Use Area 2	Use Area 3	Use Area 4	Total (AF)	Rounded Total (AF)
GWD	0.2	0.0	0.2	0.4	0.0	0.0	0.8	1
City	1.9	0.0	0.5	4.5	0.2	0.0	7.2	7
MWD	0.7	0.5	0.2	1.6	0.3	2.3	5.5	5
CVWD	0.0	0.5	0.0	0.0	0.0	0.0	0.5	1
<b>Total</b>	<b>2.8</b>	<b>1.0</b>	<b>0.9</b>	<b>6.5</b>	<b>0.5</b>	<b>2.3</b>	<b>14.0</b>	<b>14</b>

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

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

Contract Entity: Carpinteria Valley Water District  
 Last updated by C.O.M.B. 12/31/16

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT				
	M & I	Agr		Total	Evap	Acre-feet		M & I	Agr	Total	M & I	Agr	Total	M & I	Agr	Total
						Div	Total									
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**CONVERSIONS**

STORAGE WATER	CURRENT SCHEDULE	
M & I	Agr	M & I
0	0	0
0	0	0
0	0	0

SCHEDULE AND REVISIONS			
Total	M & I	AG	Total
0	0	0	0
0	0	0	0

**REMAINING BALANCES**

Total	M & I	AG	Total
0	0	0	0
0	0	0	0
0	0	0	0

TOTAL 0

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

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

Contract Entity: **Goleta Water District**  
 Last updated by C.O.M.B. 12/31/16

Approved Schedule Current Year: 0  
 Carryover Previous Year: 561

Month	TOTAL WATER USED Acre-feet		WATER USED CHARGED TO CARRYOVER BALANCES Acre-feet			WATER USED CHARGED TO CURRENT ENTITLEMENT Acre-feet	
	M & I	Agr	Evap	Div	Total	M & I	Agr
Oct	0	0	37	0	37	0	0
Nov	0	0	29	0	29	0	0
Dec	0	0	9	0	9	0	0
Jan	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>75</b>				

STORAGE WATER		CONVERSIONS	
M & I	Agr	M & I	Agr
0	0	0	0
0	0	0	0
0	0	0	0

SCHEDULES AND REVISIONS			
Begin Bal	Total		Total
	M&I	AG	
	561	412	149
Month			
Oct	0	0	0
Nov	0	0	0
Dec	0	0	0
Jan	0	0	0
Feb	0	0	0
Mar	0	0	0
Apr	0	0	0
May	0	0	0
Jun	0	0	0
Jul	0	0	0
Aug	0	0	0
Sep	0	0	0

REMAINING BALANCES			
Month	Total		Total
	M&I	AG	
Oct	524	412	112
Nov	495	412	83
Dec	486	412	74
Jan			
Feb			
Mar			
Apr			
May			
Jun			
Jul			
Aug			
Sep			

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

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

Contract Entity: **Montecito Water District**  
 Last updated by C.O.M.B. 12/31/16

Month	TOTAL WATER USED		WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT		
	M & I	Agr	Evap	Div	Total	M & I	Agr	Total
Oct	176	36	212	25	237	197	40	0
Nov	115	18	132	8	140	121	19	0
Dec	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0
<b>Total</b>	<b>291</b>	<b>54</b>	<b>344</b>	<b>33</b>				

Month	STORAGE WATER		CONVERSIONS		SCHEDULE AND REVISIONS	
	M & I	Agr	Agr	M & I	M & I	Agr
Oct	-40	40	0	0	0	0
Nov	-19	19	0	0	0	0
Dec	-19	19	0	0	0	0
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						
<b>Total</b>			<b>377</b>	<b>377</b>	<b>0</b>	<b>0</b>

Month	REMAINING BALANCES	
	M & I	Agr
Oct	140	0
Nov	0	-19
Dec	0	-19
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>140</b>	<b>0</b>

TOTAL 0



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

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

Contract Entity: Santa Ynez River Water Conservation District, ID#1  
 Last updated by C.O.M.B. 12/31/16

Month	Approved Schedule		Carryover	Previous Year	TOTAL WATER USED			WATER USE CHARGED TO CARRYOVER BALANCES				WATER USE CHARGED TO CURRENT ENTITLEMENT		
	Current Year	Schedule			Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0		24		2	0	2	2	3	0	0	0	0	
Nov					2	0	2	2	3	0	0	0	0	
Dec					3	0	3	3	3	0	0	0	0	
Jan					0	0	0	0	0	0	0	0	0	
Feb					0	0	0	0	0	0	0	0	0	
Mar					0	0	0	0	0	0	0	0	0	
Apr					0	0	0	0	0	0	0	0	0	
May					0	0	0	0	0	0	0	0	0	
Jun					0	0	0	0	0	0	0	0	0	
Jul					0	0	0	0	0	0	0	0	0	
Aug					0	0	0	0	0	0	0	0	0	
Sep					0	0	0	0	0	0	0	0	0	
Total	0		24		6	0	6	3						

**CONVERSIONS**

STORAGE WATER		CURRENT SCHEDULE	
M & I	Agr	M & I	Agr
0	0	0	0
0	0	0	0
0	0	0	0

**SCHEDULE AND REVISIONS**

Total		M & I		Agr	
Begin Bal	0	0	0	0	0
Total	24	24	24	0	0

**REMAINING BALANCES**

COUNTY PARKS		M & I		Agr	
A.F. Used	Total	M & I	Agr	M & I	Agr
1.72	21	21	0	0	0
1.72	18	18	0	0	0
	15	15	0	0	0

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

Contract Entity: Santa Barbara Co. Water Agency  
 Last updated by C.O.M.B. 12/31/16  
 Contract Year: 10/1/16 to: 9/30/17

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT			
	Used %	M & I		Agr	Total	Evap	Div	Total	M & I	Agr	Total	M & I	Agr
Oct	37.8%	652	36	688	145	688	832	755	77	0	0	0	0
Nov	65.2%	509	18	527	76	527	603	555	48	0	0	0	0
Dec	11.57%	246	0	246	9	246	255	246	9	0	0	0	0
Jan		0	0	0	0	0	0	0	0	0	0	0	0
Feb		0	0	0	0	0	0	0	0	0	0	0	0
Mar		0	0	0	0	0	0	0	0	0	0	0	0
Apr		0	0	0	0	0	0	0	0	0	0	0	0
May		0	0	0	0	0	0	0	0	0	0	0	0
Jun		0	0	0	0	0	0	0	0	0	0	0	0
Jul		0	0	0	0	0	0	0	0	0	0	0	0
Aug		0	0	0	0	0	0	0	0	0	0	0	0
Sep		0	0	0	0	0	0	0	0	0	0	0	0
Total		1,407	54	1,460	229	229	2,201	2,052	149	0	0	0	0

**CONVERSIONS**

Month	STORAGE WATER		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	Agr
Oct	-40	40	0	0	0	0
Nov	-19	19	0	0	0	0
Dec	-19	19	0	0	0	0
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						
Total						

Month	COUNTY PARKS A.F. Used		REMAINING BALANCES	
	M & I	Agr	M & I	Agr
Oct	1.72	112	1,257	0
Nov	1.72	64	683	0
Dec	2.60	55	418	0
Jan				
Feb				
Mar				
Apr				
May				
Jun				
Jul				
Aug				
Sep				
Total	1,369	112	1,257	0
	766	64	683	0
	511	55	418	0

TOTAL 766

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

MONTH	DELVRD TO LAKE		CVWD		MWD		Evap/Spill		Delvd to SC		S.B.		GWD		Evap/Spill		Delvd to SC		LCMW		Evap/Spill		RSYS		Delvd to SC		MLC		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bal. Fwd	833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
January	789	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
February	1284	170	52	118	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
March	1152	192	130	111	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
April	658	108	139	95	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
May	371	0	50	84	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
June	306	0	0	48	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
July	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October	60	20	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
November	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
December	5542	490	0	475.7	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
<b>Total</b>																													

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

MONTH	DELVRD TO LAKE		CVWD		MWD		Evap/Spill		Delvd to SC		S.B.		GWD		Evap/Spill		Delvd to SC		LCMWC		Evap/Spill		RSYS		Delvd to SC		MLC		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bal. Fwd	653	54	38	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
January	693	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
February	965	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
March	1283	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
April	1309	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	1261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June	1342	100	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July	1372	135	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August	1310	225	246	96	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
September	1400	180	291	112	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
October	1369	150	401	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
November	1470	111	504	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
December	14427	955	401	377	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
<b>Total</b>																													

**Notes:**  
 September 2016 - GWD transferred 170.64 AF SWP water to City of SB per overlap agreement  
 November 2016 - GWD transferred 28.6 AF SWP water to City of SB per overlap agreement (monthly reconciliation)  
 December 2016 - GWD transferred 10.12 AF SWP water to City of SB per overlap agreement (monthly reconciliation)



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



**Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: December 2016**

<b>Cachuma Lake Recreation Area Launch Data -- December 2016</b>		
<b>Inspection Data</b>		
Total Vessels entering Park	11	
Total Vessels launched	11	
Total Vessels Quarantined	0	0%
Returning with Boat Launch Tag	0	0%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	11	100%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
<b>Quarantine Data</b>		
Total Vessels Quarantined	0	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	0	
<b>Quarantine Cause</b>		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	0	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	0	
<b>Demographic Data</b>		
Quarantined from infected county	0	
Quarantined from SB County	0	
Quarantined from uninfected co	0	

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

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

**EARLY DETECTION MONITORING PROGRAM SUMMARY**

**Summary:** No Dreissenid mussels were detected  
 Inspection Site: Cachuma Lake Marina, Santa Barbara County, California  
 Inspection Date and Time: 2016.12.31; 2:00-4:00 PDT  
 Method: 5 PVC/Cement Sampling Stations; 54 linear feet of line  
 Surveyors: John Viggianelli  
 Lake elevation: Max feet: 753.00, current: 649.08; Max acre-feet: 193,305, current 15,816;  
 Current capacity: 8.20%