

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

held at

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

Monday, August 28, 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 July 24, 2017 Regular Board Meeting
 - b. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
4. **U.S. FOREST SERVICE PRESENTATION – WHITTIER FIRE**
Receive information regarding elements of the Burned Area Emergency Response Report on the Whittier Fire
5. **VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Oak Tree Committee Meeting – August 9, 2017
 - Fisheries Committee Meeting – August 22, 2017
6. **PROPOSED LETTER OF SUPPORT – U.S. BUREAU OF RECLAMATION WESTERN WATERSHED ENHANCEMENT GRANT FUNDING PROPOSAL**
Action: For discussion and possible action by motion and roll call vote of the Board
7. **PROPOSED RESPONSES TO SANTA BARBARA COUNTY GRAND JURY REPORT TITLED: MANAGING REGIONAL WATER SUPPLIES**
Action: For discussion and possible action by motion and roll call vote of the Board

8. **PROPOSED CHANGE TO PROCUREMENT POLICY**
Action: Recommend approval by motion and roll call vote of the Board
9. **RESOLUTION NO. 644 – APPROVING ISSUANCE OF A NOTICE OF AWARD AND AUTHORIZING CONTRACT EXECUTION FOR THE CONSTRUCTION OF THE LATERAL 3A REPAIR PROJECT**
Action: Recommend approval by motion and roll call vote of the Board
10. **RESOLUTION NO. 645 – APPROVING EXPENDITURES AND AUTHORIZING CONTRACT EXECUTION FOR THE CONSTRUCTION OF THE NORTH PORTAL SLOPE STABILIZATION PROJECT**
Action: Recommend approval by motion and roll call vote of the Board
11. **HABITAT IMPROVEMENT PROJECTS – QUIOTA CREEK CROSSING FIVE**
Action: Recommend approval by motion and roll call vote of the Board
 - a. ConTech Engineered Solutions Proposal
 - b. Santa Barbara County Encroachment Permit
12. **GENERAL MANAGER REPORT**
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
 - Meetings
 - U. S. Bureau of Reclamation Activities
 - Administration Division
 - Operations Division
 - Fisheries Division
13. **OPERATIONS DIVISION REPORT**
Receive information regarding Operations Division, including but not limited to the following:
 - Lake Cachuma Operations
 - Operation and Maintenance Activities
14. **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
15. **PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**
Receive information regarding the Lake Cachuma Oak Tree Program including but not limited to the following:
 - Maintenance and Monitoring
16. **MONTHLY CACHUMA PROJECT REPORTS**
Receive information regarding the Cachuma Project, including but not limited to the following:
 - a. Cachuma Water Reports
 - b. Cachuma Reservoir Current Conditions

c. Lake Cachuma Quagga Survey

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

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

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

19. **RECONVENE INTO OPEN SESSION**

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

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

20. **MEETING SCHEDULE**

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

21. **COMB ADJOURNMENT**

NOTICE TO PUBLIC

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

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

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

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

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

MINUTES OF A REGULAR MEETING
of the
CACHUMA OPERATION AND MAINTENANCE BOARD
held at
3301 Laurel Canyon Road, Santa Barbara, CA
Monday, July 24, 2017

1. Call to Order, Roll Call

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

Directors Present:

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

Staff Present:

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

Others Present:

Philip Walker, Santa Barbara resident	Fray Crease, SB County Water Agency
Bob McDonald, Carpinteria Valley Water District	Tom Fayram, SB County Water Agency
Cathy Taylor, City of Santa Barbara	

2. Public Comment

Mr. Walker made comments regarding the Whittier fire and the need for a sediment survey. Mr. Walker also made comments regarding the ongoing repairs to the underpass on Castillo St, stating that the appropriate signage is important for traffic safety. Mr. Stewart responded and confirmed the COMB crew has been trained in traffic control.

Mr. Fayram, also made comments regarding the Whittier fire and noted that the Burned Area Emergency Response (BAER) Team is evaluating the burned area watersheds to identify emergency treatments necessary to protect sensitive resources and possible future hazards. Mr. Fayram fielded questions from the Board.

Ms. Taylor echoed comments made by Mr. Walker regarding the importance for a sediment survey. She stated that there are two requirements needed in order to claim any damages through FEMA; a Bathymetric survey to learn the capacity before a storm event, as well as, maintenance records. She explained a second Bathymetric survey should be performed after a storm event to learn the change in the reservoirs capacity. Ms. Taylor fielded questions from the Board.

3. Consent Agenda

a. Minutes

- June 26, 2017 Regular Board Meeting

b. Investment of Funds

- Financial Reports
- Investment Reports

c. Review of Paid Claims

Ms. Gingras presented the Consent Agenda as provided in the board packet and fielded questions from the Board. President Morgan requested revision to Item 3A to include the retroactive date. Director Holcombe moved to approve the consent agenda as amended, seconded by Director Morgan; the motion passed by 6/0/1 vote:

Ayes: White, Holcomb, Hanson, Morgan

Nayes:

Absent/Abstain: Walsh

4. Verbal Reports from Board Committees

- *Administrative Committee Meeting – July 19, 2017:* Director Morgan summarized the Committee’s agenda, noting the items will be discussed separately on today’s agenda.

5. Board Committee Appointments for Fiscal Year 2017-18

Ms. Gingras presented the staff memorandum as provided in the board packet. President Morgan stated that the standing committees are working very well and recommended to continue the same committee’s for the Board this fiscal year. Accordingly, President Morgan made the following appointments of chair, member, and alternate to each standing committee of the Board:

COMMITTEE NAME	COMMITTEE CHAIR	COMMITTEE MEMBER	ALTERNATE MEMBER
Administrative (Finance, Personnel, Legal)	Director Morgan	Director White	Director Holcombe
Operations	Director White	Director Morgan	Director Holcombe
Fisheries	Director Holcombe	Director Hanson	Director Morgan
Lake Cachuma Oak Tree	Director White	Director Morgan	Director Holcombe
Public Outreach	Director Hanson	Director Holcombe	Director Morgan

6. Proposed Annual Resolutions

- a. Resolution No. 634 Adopting Annual Statement of Investment Policy
- b. Resolution No. 635 Authorizing Investment of Monies in the Local Agency Investment Fund
- c. Resolution No. 636 Establishing a Supplemental Account Agreement for Telephone Transfers
- d. Resolution No. 637 Establishing a Check Signing Policy for General Fund Account Payment of Claims
- e. Resolution No. 638 Authorizing Signatories for General Fund Account at American Riviera Bank
- f. Resolution No. 639 Authorizing Signatories for Revolving Fund Account at American Riviera Bank
- g. Resolution No. 640 Establishing a Check Signing Policy for Cachuma Project Trust Fund and Master Contract Renewal Fund Accounts for Payment of Claims
- h. Resolution No. 641 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at American Riviera Bank
- i. Resolution No. 642 Establishing a Time and Place for Board Meetings

Ms. Gingras presented Resolutions No. 634 through No. 642, as presented in the Board packet. Director Holcombe moved to approve annual Resolutions No. 634 through No. 642, by roll call, seconded by Director Hanson, the motion carried 6/0/1 as follows:

Ayes: Holcombe, White, Morgan, Hanson

Nayes:

Absent/Abstain: Walsh

7. Resolution No. 643 – Authorizing a Letter of Interest be Sent to the United States Bureau of Reclamation for Renewal of the Transfer of Operation and Maintenance of the Cachuma Transferred Project Works – Cachuma Project, California

Ms. Gingras presented Resolution No. 643 and a draft letter to the U.S. Bureau of Reclamation (BOR), as incorporated in the board packet. Ms. Gingras noted General Counsel has reviewed both documents. Director Hanson thanked Ms. Gingras for discussing this item at the Manager's meeting, and suggested a change in wording within the letter to the Bureau. General Counsel responded. After a brief discussion, Director Holcombe moved to approve the letter and Resolution No. 643 as amended. Seconded by Director Hanson, the motion passed by 6/0/1 vote as follows:

Ayes: Holcombe, Hanson, Morgan, White

Nayes:

Absent/Abstain: Walsh

8. Selection of Bartlett, Pringle, Wolf LLP to Perform Fiscal Year 2016-17 COMB Financial Audit

Mr. Lyons presented the topic and staff memorandum as incorporated in the board packet. Mr. Lyons highlighted Bartlett Pringle Wolf, LLP conducting a Comprehensive Annual Financial Report (CAFR) audit for fiscal year 2016-17. He also noted an additional required single audit for two federal grant awards received in 2016-17. Director Holcombe inquired about the rotation of partners within the auditor's firm. Ms. Gingras responded that Bartlett, Pringle, Wolf LLP has an internal review process that they employ to rotate partner review. Mr. Lyons reiterated California Assembly Bill 1345, effective FY 2013-14, requires a partner rotation every 6 years.

Director Holcombe moved to approve the selection of Bartlett, Pringle, Wolf LLP, seconded by Director Hanson, the motion passed by 6/0/1 vote as follows:

Ayes: Holcombe, Hanson, Morgan, White

Nayes:

Absent/Abstain: Walsh

9. Ordinance No. 3 – Director Compensation

Ms. Gingras presented the item as incorporated in the board packet, and reported that the public hearing on the proposed ordinance was duly noticed. Two options were presented to the Board; Option 1, compensation would remain at \$128 per meeting, and option 2, an incremental increase up to 65%. Following Board discussion, Director Hanson moved for adoption of Ordinance No. 3 and proposed a change in Director Compensation to \$175. The motion did not carry forward due to lack of a second motion. Director White moved for adoption of Ordinance No. 3, supporting a change in Director Compensation to \$150, seconded by Director Morgan; the motion passed by 6/0/1 vote as follows:

Ayes: Holcombe, Hanson, Morgan, White

Nayes:

Absent/Abstain: Walsh

10. Ratification of HDR Engineering Inc. Professional Services Agreement for Fisheries Division Consultant Services – Fiscal Year 2017-18

Ms. Gingras presented HDR Engineering, Inc. Professional Services Agreement (PSA) and scopes of work for ratification, as requested by the Board in the June 2017 regular Board meeting. Director Hanson moved to ratify the HDR Engineering, Inc. PSA, Seconded by Director Holcombe, the motion passed by 6/0/1 vote as follows:

Ayes: Holcombe, Hanson, Morgan, White

Nayes:

Absent/Abstain: Walsh

11. General Manager Report

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

Ms. Gingras highlighted topics within her report, and provided an update on the Whittier Fire. Ms. Gingras also presented a quarterly report of all contracts executed by the General Manager for the period of April 1 through June 30, 2017, pursuant to the COMB Procurement Policy. Ms. Gingras offered to field any questions from the Board.

12. Operations Division Report

- Lake Cachuma Operations
- Operation and Maintenance Activities

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

13. Fisheries Division Report

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

Mr. Robinson provided highlights from his report as presented in the Board Packet, which included an update on the Stilling Basin dewatering project, and fielded questions from the Board.

14. Progress Report on Lake Cachuma Oak Tree Program

- Maintenance and Monitoring

Mr. Robinson updated the Board on the progress of the Oak Tree Program, and was pleased to announce that although the fire came very close, it did not burn any of the oak trees recently planted near the Lake Cachuma Park area.

15. Monthly Cachuma Project Reports

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

Ms. Gingras reviewed the monthly water reports as included in the Board packet, and requested to field any questions from the Board. Director White requested more information on the summary of unaccounted-for water allocations. Mr. Lyons responded that the methodology for water losses allocation to the Member Unites was adopted in the prior year, and is impacted by the zone or usage area as well as the reach. Mr. McDonald echoed the comments made by Mr. Lyons.

16. Directors' Request for Agenda Items for Future Meeting

- Director Hanson reiterated the request for a Bathymetry survey and BAER report.

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

The Board went into closed session at 3:46 p.m.

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

18. RECONVENE INTO OPEN SESSION

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

Item 17: There were no reportable actions.

19. Meeting Schedule

- **August 28, 2017 at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**
www.cachuma-board.org

20. COMB Adjournment

There being no further business, the meeting adjourned at 4:05 p.m.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
✓	<i>Unapproved</i>

COMB
Statement of Net Assets

As of July 31, 2017
UNAUDITED FINANCIALS

ASSETS

Current Assets

Checking/Savings

TRUST FUNDS

1210 · WARREN ACT TRUST FUND 937,149.52

1220 · RENEWAL FUND 10,215.61

Total TRUST FUNDS 947,365.13

1050 · GENERAL FUND 2,862,789.21

1100 · REVOLVING FUND 181,847.29

Total Checking/Savings 3,992,001.63

Accounts Receivable

1320 · Qrtly Assessments Receivable 338,340.00

Total Accounts Receivable 338,340.00

Other Current Assets

1010 · PETTY CASH 500.00

1200 · LAIF 819,065.23

1303 · Bradbury SOD Act Assmnts Rec 184,938.00

1304 · Lauro Dam SOD Assesmnt Rec 25,930.00

1400 · PREPAID INSURANCE 27,269.72

Total Other Current Assets 1,057,702.95

Total Current Assets 5,388,044.58

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 11,722,772.95

COMB
Statement of Net Assets

As of July 31, 2017
UNAUDITED FINANCIALS

LIABILITIES & NET ASSETS

Liabilities

Current Liabilities

Accounts Payable

2200 · ACCOUNTS PAYABLE 92,590.83

Total Accounts Payable 92,590.83

Other Current Liabilities

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 947,365.13

Total Other Current Liabilities 1,884,585.12

Total Current Liabilities 1,977,175.95

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 1,266,151.18

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

2611 · Deferred Inflows of Resources (GASB 68) 224,052.00

Total Long Term Liabilities 9,538,379.25

Total Liabilities 11,515,555.20

NET POSITION

3000 · Opening Bal Equity -1,357,356.05

3901 · Retained Net Assets 892,614.80

Net Income 671,959.00

Total Net Assets 207,217.75

TOTAL LIABILITIES & NET POSITION 11,722,772.95

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

	Fisheries				Operations				TOTAL			
	Jul 17	Budget	\$ Over Budget	% of Budget	Jul 17	Budget	\$ Over Budget	% of Budget	Jul 17	Budget	\$ Over Budget	% of Budget
Income												
3000 REVENUE												
3001 · O&M Budget (Qtrly Assessments)	197,873.00	821,492.00	-623,619.00	24.09%	708,297.00	2,893,190.00	-2,184,893.00	24.48%	906,170.00	3,714,682.00	-2,808,512.00	24.39%
3006 · Warren Act	0.00	620,361.00	-620,361.00	0.0%	0.00				0.00	620,361.00	-620,361.00	0.0%
3010 · Interest Income	0.00				1,881.79				1,881.79	0.00	1,881.79	100.0%
3035 · Cachuma Project Betterment Fund	0.00	90,000.00	-90,000.00	0.0%	0.00				0.00	90,000.00	-90,000.00	0.0%
3037 · Grant-QC Crossing #5	0.00	893,287.00	-893,287.00	0.0%	0.00				0.00	893,287.00	-893,287.00	0.0%
Total 3000 REVENUE	197,873.00	2,425,140.00	-2,227,267.00	8.16%	710,178.79	2,893,190.00	-2,183,011.21	24.55%	908,051.79	5,318,330.00	-4,410,278.21	17.07%
Total Income	197,873.00	2,425,140.00	-2,227,267.00	8.16%	710,178.79	2,893,190.00	-2,183,011.21	24.55%	908,051.79	5,318,330.00	-4,410,278.21	17.07%
Gross Profit	197,873.00	2,425,140.00	-2,227,267.00	8.16%	710,178.79	2,893,190.00	-2,183,011.21	24.55%	908,051.79	5,318,330.00	-4,410,278.21	17.07%
Expense												
3100 · LABOR - OPERATIONS	0.00				41,359.23	789,107.00	-747,747.77	5.24%	41,359.23	789,107.00	-747,747.77	5.24%
3200 VEH & EQUIPMENT												
3201 · Vehicle/Equip Mtce	0.00				2,003.89	30,000.00	-27,996.11	6.68%	2,003.89	30,000.00	-27,996.11	6.68%
3202 · Fixed Capital	0.00				0.00	15,000.00	-15,000.00	0.0%	0.00	15,000.00	-15,000.00	0.0%
3203 · Equipment Rental	0.00				50.25	5,000.00	-4,949.75	1.01%	50.25	5,000.00	-4,949.75	1.01%
3204 · Miscellaneous	0.00				11.84	5,000.00	-4,988.16	0.24%	11.84	5,000.00	-4,988.16	0.24%
Total 3200 VEH & EQUIPMENT	0.00				2,065.98	55,000.00	-52,934.02	3.76%	2,065.98	55,000.00	-52,934.02	3.76%
3300 · CONTRACT LABOR												
3301 · Conduit, Meter, Valve & Misc	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
3302 · Buildings & Roads	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
3303 · Reservoirs	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3304 · Engineering, Misc Services	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
Total 3300 · CONTRACT LABOR	0.00				0.00	95,000.00	-95,000.00	0.0%	0.00	95,000.00	-95,000.00	0.0%
3400 · MATERIALS & SUPPLIES												
3401 · Conduit, Meter, Valve & Misc	0.00				509.62	65,000.00	-64,490.38	0.78%	509.62	65,000.00	-64,490.38	0.78%
3402 · Buildings & Roads	0.00				100.56	8,000.00	-7,899.44	1.26%	100.56	8,000.00	-7,899.44	1.26%
3403 · Reservoirs	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
Total 3400 · MATERIALS & SUPPLIES	0.00				610.18	78,000.00	-77,389.82	0.78%	610.18	78,000.00	-77,389.82	0.78%
3500 · OTHER EXPENSES												
3501 · Utilities	0.00				344.98	7,000.00	-6,655.02	4.93%	344.98	7,000.00	-6,655.02	4.93%
3502 · Uniforms	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
3503 · Communications	0.00				1,197.84	18,000.00	-16,802.16	6.66%	1,197.84	18,000.00	-16,802.16	6.66%
3504 · USA & Other Services	0.00				241.50	4,000.00	-3,758.50	6.04%	241.50	4,000.00	-3,758.50	6.04%
3505 · Miscellaneous	0.00				460.07	8,000.00	-7,539.93	5.75%	460.07	8,000.00	-7,539.93	5.75%
3506 · Training	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
Total 3500 · OTHER EXPENSES	0.00				2,244.39	45,000.00	-42,755.61	4.99%	2,244.39	45,000.00	-42,755.61	4.99%
4000 · Reconciliation Discrepancies	0.00				-0.02				-0.02	0.00	-0.02	100.0%
4100 · LABOR - FISHERIES	55,003.97	683,374.00	-628,370.03	8.05%	0.00				55,003.97	683,374.00	-628,370.03	8.05%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	903.15	15,000.00	-14,096.85	6.02%	0.00				903.15	15,000.00	-14,096.85	6.02%
4280 · Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 · Miscellaneous	118.43	2,500.00	-2,381.57	4.74%	0.00				118.43	2,500.00	-2,381.57	4.74%
Total 4200 · VEHICLES & EQUIP - FISHERIES	1,021.58	32,500.00	-31,478.42	3.14%	0.00				1,021.58	32,500.00	-31,478.42	3.14%
4220 · CONTRACT LABOR - FISHERIES												
4222 · Fish Projects Maintenance	0.00	25,000.00	-25,000.00	0.0%	0.00				0.00	25,000.00	-25,000.00	0.0%
4220 · CONTRACT LABOR - FISHERIES - Other	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
Total 4220 · CONTRACT LABOR - FISHERIES	0.00	28,000.00	-28,000.00	0.0%	0.00				0.00	28,000.00	-28,000.00	0.0%
4300 · MATERIALS/SUPPLIES - FISHERIES												

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

	Fisheries				Operations				TOTAL			
	Jul 17	Budget	\$ Over Budget	% of Budget	Jul 17	Budget	\$ Over Budget	% of Budget	Jul 17	Budget	\$ Over Budget	% of Budget
4390 · Miscellaneous	260.38	7,000.00	-6,739.62	3.72%	0.00				260.38	7,000.00	-6,739.62	3.72%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	260.38	7,000.00	-6,739.62	3.72%	0.00				260.38	7,000.00	-6,739.62	3.72%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
Total 4500 · OTHER EXPENSES - FISHERIES	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				0.00	13,000.00	-13,000.00	0.0%	0.00	13,000.00	-13,000.00	0.0%
5100 · Legal	0.00				0.00	75,000.00	-75,000.00	0.0%	0.00	75,000.00	-75,000.00	0.0%
5101-1 · Audit	0.00				0.00	21,625.00	-21,625.00	0.0%	0.00	21,625.00	-21,625.00	0.0%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				0.00	50,551.00	-50,551.00	0.0%	0.00	50,551.00	-50,551.00	0.0%
5310 · Postage/Office Exp	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5311 · Office Equip/Leases	0.00				650.67	9,200.00	-8,549.33	7.07%	650.67	9,200.00	-8,549.33	7.07%
5312 · Misc Admin Expenses	0.00				318.11	8,600.00	-8,281.89	3.7%	318.11	8,600.00	-8,281.89	3.7%
5313 · Communications	0.00				767.36	8,500.00	-7,732.64	9.03%	767.36	8,500.00	-7,732.64	9.03%
5314 · Utilities	0.00				0.00	9,737.00	-9,737.00	0.0%	0.00	9,737.00	-9,737.00	0.0%
5315 · Membership Dues	0.00				0.00	8,500.00	-8,500.00	0.0%	0.00	8,500.00	-8,500.00	0.0%
5316 · Admin Fixed Assets	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
5318 · Computer Consultant	0.00				0.00	15,000.00	-15,000.00	0.0%	0.00	15,000.00	-15,000.00	0.0%
5325 · Emp Training/Subscriptions	0.00				0.00	2,000.00	-2,000.00	0.0%	0.00	2,000.00	-2,000.00	0.0%
5330 · Admin Travel/Conferences	0.00				0.00	2,000.00	-2,000.00	0.0%	0.00	2,000.00	-2,000.00	0.0%
5331 · Public Information	0.00				129.97	1,000.00	-870.03	13.0%	129.97	1,000.00	-870.03	13.0%
5391 · Admin Contract Labor AA I	0.00				2,364.86				2,364.86	0.00	2,364.86	100.0%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				4,230.97	237,713.00	-233,482.03	1.78%	4,230.97	237,713.00	-233,482.03	1.78%
5299 · ADMIN LABOR	0.00				39,439.45	568,370.00	-528,930.55	6.94%	39,439.45	568,370.00	-528,930.55	6.94%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
5410 · Postage / Office Supplies	0.00	4,000.00	-4,000.00	0.0%	0.00				0.00	4,000.00	-4,000.00	0.0%
5411 · Office Equipment / Leases	350.37	5,218.00	-4,867.63	6.72%	0.00				350.37	5,218.00	-4,867.63	6.72%
5412 · Misc. Admin Expense	324.19	5,610.00	-5,285.81	5.78%	0.00				324.19	5,610.00	-5,285.81	5.78%
5413 · Communications	562.70	4,305.00	-3,742.30	13.07%	0.00				562.70	4,305.00	-3,742.30	13.07%
5414 · Utilities	0.00	5,243.00	-5,243.00	0.0%	0.00				0.00	5,243.00	-5,243.00	0.0%
5415 · Membership Dues	0.00	5,500.00	-5,500.00	0.0%	0.00				0.00	5,500.00	-5,500.00	0.0%
5416 · Admin Fixed Assets	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
5418 · Computer Consultant	0.00	5,000.00	-5,000.00	0.0%	0.00				0.00	5,000.00	-5,000.00	0.0%
5425 · Employee Education/Subscription	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5426 · Director Fees	0.00	7,000.00	-7,000.00	0.0%	0.00				0.00	7,000.00	-7,000.00	0.0%
5430 · Travel	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5431 · Public Information	69.98	1,500.00	-1,430.02	4.67%	0.00				69.98	1,500.00	-1,430.02	4.67%
5441 · Audt	0.00	7,175.00	-7,175.00	0.0%	0.00				0.00	7,175.00	-7,175.00	0.0%
5443 · Liab & Property Ins	0.00	24,745.00	-24,745.00	0.0%	0.00				0.00	24,745.00	-24,745.00	0.0%
5491 · Admin Contract Labor AA I	1,273.40				0.00				1,273.40	0.00	1,273.40	100.0%
Total 5400 · GENERAL & ADMIN - FISHERIES	2,580.64	103,296.00	-100,715.36	2.5%	0.00				2,580.64	103,296.00	-100,715.36	2.5%
5499 · ADMIN LABOR-FISHERIES	14,836.53	225,470.00	-210,633.47	6.58%	0.00				14,836.53	225,470.00	-210,633.47	6.58%
5510 · Integrated Reg. Water Mgt Plan	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6090 · COMB Office Building	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00				0.00	225,000.00	-225,000.00	0.0%	0.00	225,000.00	-225,000.00	0.0%

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

	Fisheries				Operations				TOTAL			
	Jul 17	Budget	\$ Over Budget	% of Budget	Jul 17	Budget	\$ Over Budget	% of Budget	Jul 17	Budget	\$ Over Budget	% of Budget
6097 · GIS and Mapping	0.00				900.00	10,000.00	-9,100.00	9.0%	900.00	10,000.00	-9,100.00	9.0%
6105 · ROW Management Program	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6118 · Repair Lateral 3 Structure	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6120 · Emergency Pumping Fac Project	0.00				7,000.00	223,000.00	-216,000.00	3.14%	7,000.00	223,000.00	-216,000.00	3.14%
6120-2 · EPPF UF FY 2016-17	0.00				0.00	-223,000.00	223,000.00	0.0%	0.00	-223,000.00	223,000.00	0.0%
6122 · Rehab San Antonio Crk Blow-off	0.00				0.00	35,000.00	-35,000.00	0.0%	0.00	35,000.00	-35,000.00	0.0%
6130 · NP Slope Stabilization	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
6132 · Sycamore Canyon Slope Stabiliz	0.00				0.00	300,000.00	-300,000.00	0.0%	0.00	300,000.00	-300,000.00	0.0%
6133 · Meter Replacement Project	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6134 · N.P. IT/Control Bldg Seismic	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6135 · SCC San Jose Creek Pipe Stabili	0.00				0.00	60,000.00	-60,000.00	0.0%	0.00	60,000.00	-60,000.00	0.0%
Total 6000 · SPECIAL PROJECTS	0.00				7,900.00	1,020,000.00	-1,012,100.00	0.78%	7,900.00	1,020,000.00	-1,012,100.00	0.78%
6200 · FISHERIES ACTIVITIES												
6201 · FMP Implementation	13,890.16	60,000.00	-46,109.84	23.15%	0.00				13,890.16	60,000.00	-46,109.84	23.15%
6202 · GIS and Mapping	2,142.06	10,000.00	-7,857.94	21.42%	0.00				2,142.06	10,000.00	-7,857.94	21.42%
6203 · Grants Technical Support	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6205 · USGS Stream Gauge Program	26,412.50	100,000.00	-73,587.50	26.41%	0.00				26,412.50	100,000.00	-73,587.50	26.41%
6206 · Tri County Fish Team Funding	0.00	5,000.00	-5,000.00	0.0%	0.00				0.00	5,000.00	-5,000.00	0.0%
6207 · Oak Tree Restoration Program	1,974.53	40,000.00	-38,025.47	4.94%	0.00				1,974.53	40,000.00	-38,025.47	4.94%
Total 6200 · FISHERIES ACTIVITIES	44,419.25	233,000.00	-188,580.75	19.06%	0.00				44,419.25	233,000.00	-188,580.75	19.06%
6300 · HABITAT ENHANCEMENT												
6318 · Quiota Creek Crossing 9	0.00	30,000.00	-30,000.00	0.0%	0.00				0.00	30,000.00	-30,000.00	0.0%
6319 · Mission Creek at Hwy 192	0.00	30,000.00	-30,000.00	0.0%	0.00				0.00	30,000.00	-30,000.00	0.0%
6303 · Tributary Projects Support	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
6312 · Quiota Creek Crossing 0 (a&b)	-425.74				0.00				-425.74	0.00	-425.74	100.0%
6315 · Quiota Creek Crossing 8	0.00	60,000.00	-60,000.00	0.0%	0.00				0.00	60,000.00	-60,000.00	0.0%
6316 · Quiota Creek Crossing 5	15,122.26	960,000.00	-944,877.74	1.58%	0.00				15,122.26	960,000.00	-944,877.74	1.58%
6317 · Salsipuedes Fish Ladder Repair	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
Total 6300 · HABITAT ENHANCEMENT	14,696.52	1,110,000.00	-1,095,303.48	1.32%	0.00				14,696.52	1,110,000.00	-1,095,303.48	1.32%
7007 · INTEREST EXPENSE-EPPF	0.00				5,423.71				5,423.71	0.00	5,423.71	100.0%
Total Expense	132,818.88	2,425,140.00	-2,292,321.12	5.48%	103,273.91	2,893,190.00	-2,789,916.09	3.57%	236,092.79	5,318,330.00	-5,082,237.21	4.44%
Net Income	65,054.12	0.00	65,054.12	100.0%	606,904.88	0.00	606,904.88	100.0%	671,959.00	0.00	671,959.00	100.0%

AMERICAN RIVIERA BANK

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

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CACHUMA O & M BOARD

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

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO
STATEMENT DATE 07/31/2017
LAST STATEMENT DATE 06/30/2017

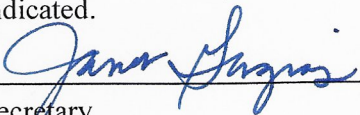
0	STATEMENT PERIOD		
PREVIOUS BALANCE	10,215.61	# OF DAYS-STMT PERIOD	31
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	10,215.61
ENDING BALANCE	10,215.61	YTD INTEREST	0.00
TOTAL SRV CHG TODAY	0.00		

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

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


Secretary

AMERICAN RIVIERA BANK

P.O. Box 329, Santa Barbara, California 93102
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CACHUMA O & M BOARD

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

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO
STATEMENT DATE 07/31/2017
LAST STATEMENT DATE 06/30/2017

1	STATEMENT PERIOD		
PREVIOUS BALANCE	815,674.52	# OF DAYS-STMT PERIOD	31
1 DEPOSITS/CREDITS	121,475.00	AVERAGE BALANCE	886,208.39
0 CHECKS/WITHDRAWALS	0.00	YTD INTEREST	0.00
ENDING BALANCE	937,149.52		
TOTAL SRV CHG TODAY	0.00		

DEPOSITS

DATE	DESCRIPTION	AMOUNT
07/14/17	MERCHANT CAPTURE DEPOSIT	121,475.00

DAILY BALANCE SUMMARY

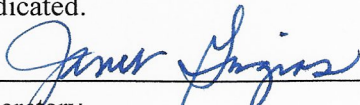
DATE	AMOUNT	DATE	AMOUNT
07/14/2017	937,149.52		

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


Secretary

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

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

July 2017 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
7/14/2017	7/13/2017	QRD	1541401	SYSTEM	1,881.79

Account Summary

Total Deposit:	1,881.79	Beginning Balance:	817,183.44
Total Withdrawal:	0.00	Ending Balance:	819,065.23

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

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

Secretary

Cachuma Operation & Maintenance Board

Paid Claims

As of July 31, 2017

Date	Num	Name	Memo	Amount
50 - GENERAL FUND				
07/10/2017	25458	Aqua-Flo Supply	Brass hose/Shut off valve (Fish Div)	-1,099.87
07/10/2017	25459	Business Card	QuickBooks Pro 2017 Upgrade / Overboots (2) (Fish Div)	-591.17
07/10/2017	25460	City of Santa-Barbara	Trash/Recycle-Jun 2017	-218.67
07/10/2017	25461	Cox Communications Santa Barbara	Business internet-Jul	-195.00
07/10/2017	25462	Culligan of Sylmar	Monthly RO system-Jun	-26.95
07/10/2017	25463	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#38-Phase II	-20,750.00
07/10/2017	25464	Draganchuk Alarm Systems	Alarm monitoring 7/1/17-9/30/17	-82.50
07/10/2017	25465	ECHO Communications	Monthly answering service	-63.20
07/10/2017	25466	Farwest Corrosion Control Co.	Cathodic Protection System Survey on 54" and 27" Water Transmission Pipelines (Ops Div)	-2,485.00
07/10/2017	25467	Flowers & Associates, Inc.	Engineering services-Lat 3A Abandonment-May	-4,547.00
07/10/2017	25468	Fluidigm Corporation	BioMark Dynamic Array chip-Genotyping (PO#9587)	-15,092.00
07/10/2017	25469	Frontier Communications	Telephonic - Main office/outlying stations	-590.20
07/10/2017	25470	Harrison Hardware	Couplers/Clamps/Hose/Shade cloth (Fish Div)	-285.26
07/10/2017	25471	Musick, Peeler & Garrett LLP	General Counsel-May	-4,393.00
07/10/2017	25472	Nestle Pure Life Direct	Jun-5 gal disp. (PPE criteria)	-97.76
07/10/2017	25473	Onset Computer Corporation	Replacement sensor cap for water quality instrument (Fish Div)	-869.00
07/10/2017	25474	Pitney Bowes Global Financial Services LL	Lease agmt-postage meter (July - October)	-436.16
07/10/2017	25475	Prober Land Surveying	Surveying/Design-Quiota Crk Xng 5	-1,450.00
07/10/2017	25476	Prudential Overall Supply	Mats/scrapers-Jun	-100.56
07/10/2017	25477	Select Staffing	Admin Assistant/Board Secretary	-2,995.13
07/10/2017	25478	Southern California Edison	Main office/outlying stations	-1,518.58
07/10/2017	25479	Spatial Wave	July - Sept. 2017 Field Mapplet Software mtce	-900.00
07/10/2017	25480	Staples Credit Plan	Office supplies/Paper/Coffee/Pencil/Pens/Batteries	-342.90
07/10/2017	25481	Turenchalk Network Services, Inc.	IT Services/LogicMonitor/Reflexion Spam Filtering - Jun	-1,608.50
07/10/2017	25482	Underground Service Alert of So. Calif.	106 Ticket charges	-159.00
07/14/2017	25483	ACWA-Joint Powers Insurance Authority	Workers Comp Program 04/1- 6/30/17	-10,422.58
07/14/2017	25484	Aqua-Flo Supply	Supplies/Marking paint/Drain pipe/Couplers (Fish Div)	-302.27
07/14/2017	25485	AT&T	June charges	-687.50
07/14/2017	25486	Coastal Copy, LP	Mtce agmt TASKalfa 4550ci/3051ci	-718.49
07/14/2017	25487	COM3 Consulting Inc.	QC Xng 8 Project Mgmt services-May-Jun	-1,700.00
07/14/2017	25488	Flowers & Associates, Inc.	Engineering services-Lat 3A Abandonment-Jun	-4,152.26
07/14/2017	25489	MarBorg Industries	Portable Toilets-outlying stations	-241.40
07/14/2017	25490	Paychex, Inc. (Payroll)	6/16 and 6/30/17 payrolls/taxes/deliveries	-354.28
07/14/2017	25491	Rauch Communication Consultants, Inc	Website mtce	-531.38
07/14/2017	25492	Select Staffing	Admin Assistant/Board Secretary	-882.00
07/14/2017	25493	Southern California Edison	Outlying station	-49.82
07/14/2017	25494	Verizon Wireless	Cellular/Modem's/USB's	-590.26
07/14/2017	25495	Wright Express Fleet Services	Fleet fuel	-4,360.06
07/25/2017	25496	American Riviera Bank (ARB)	Principle/Interest-EPFP loans	-38,477.96
07/27/2017	25497	Business Card	Heavy duty trash pump (Fish Div)/ESRI Conference Registration/Domain name renewal	-2,576.23
07/27/2017	25498	Calif Department of Fish & Wildlife	App-Restoration/Enhancement-Quiota Crk Xng 5	-5,000.00
07/27/2017	25499	Daniel Razo	Reimb-ESRI conference-Hotel/Meals/Travel (Fish Div)	-715.22
07/27/2017	25500	Eurofins Eaton Analytical, Inc.	Algal Toxin Testing (Fish Div)	-1,500.00
07/27/2017	25501	Frontier Communications	SCADA	-568.22
07/27/2017	25502	HDR Engineering, Inc.	Engineering services-EPFP-May/Quiota Crk Xng 5 Design-May-Jun services/BO/FMP Fish Monitoring-May-Jun services	-18,748.63
07/27/2017	25503	Musick, Peeler & Garrett LLP	General Counsel-Jun	-8,599.18
07/27/2017	25504	Paychex, Inc. (HR Essentials)	HR Essentials Base/Admin Fee	-202.03
07/27/2017	25505	PG&E	Tecolote Tunnel/North Portal	-344.98
07/27/2017	25506	Powell Garage	Service/Oil change/Filters - '03 Ford F150 (Fish Div)	-79.00
07/27/2017	25507	Select Staffing	Admin Assistant/Board Secretary	-1,525.13
07/27/2017	25508	Southern California Edison	Foothill road/Outlying station	-25.33
07/27/2017	25509	Specialty Tool, LTD	Misc small tools/Woodruff key/Bearing grease (Ops Div)	-9.56
07/27/2017	25510	The Gas Company	Gas-main office	-0.98
07/27/2017	25511	Tim Robinson	Reimb-ESRI conference-Hotel/Meals/Parking (Fish Div)	-831.84

Paid Claims

As of July 31, 2017

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
07/27/2017	25512	Wells Fargo Vendor Fin Serv	Copier (4550 & 3051) lease agmt	-488.11
Tal 1050 · GENERAL FUND				-165,582.11
TOTAL				<u>-165,582.11</u>

APPROVED FOR PAYMENT

Director

Director

Director

CACHUMA OPERATION & MAINTENANCE BOARD

Lake Cachuma Oak Tree Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Wednesday, August 9, 2017

10:00 AM

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. 2016 Annual Report of the Lake Cachuma Oak Tree Restoration Program (*for review and possible recommendation*)
5. Program Action Items for Fiscal Year 2017-18 (*for information and possible recommendation*)
6. Adjournment

NOTICE TO THE PUBLIC

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

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

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

CACHUMA OPERATION & MAINTENANCE BOARD

Fisheries Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Tuesday, August 22, 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. Habitat Improvement Plan (HIP) Projects Update (*for information and possible recommendation*)
 - a. Quiota Creek Crossing No. 5
 - i. ConTech Engineered Solutions Proposal
 - ii. Santa Barbara County Encroachment Permit
 - iii. Bid Documents - Construction Contract
 - b. Quiota Creek Crossing No. 8
 - i. Request for Authorization – CalTrans
 - c. Quiota Creek Crossing No. 9
4. Annual Monitoring Reports Update (AMRs) (*for information*)
5. Update on Recent Fisheries Division Activities (*for information*)
6. Adjournment

NOTICE TO THE PUBLIC

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

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

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 28, 2017
Submitted by:	Janet Gingras

SUBJECT: **Proposed Letter of Support – U.S. Bureau of Reclamation Western Watershed Enhancement Grant Funding Proposal**

SUMMARY:

The Western Watershed Enhancement Partnership was established in July 2013, between the Department of Interior and Department of Agriculture to leverage agency efforts for infrastructure improvements within a watershed basis. A successful Reclamation pilot project was implemented in 2014 and the partnership evolved into the Western Watershed Enhancement Program (WWEP). WWEP projects protect Reclamation infrastructure and the water it delivers through collaboration with adjacent Federal land managers within the watershed to reduce wildfire risk and mitigate the impacts of post-wildfire erosion and sedimentation loss. WWEP projects further the objectives of the 2013 Partnership by advancing “common goals associated with restoring wildfire-damaged resources and reducing the risk of uncharacteristically severe wildfire that could adversely impact water supply facilities.” To date, the WWEP has provided nearly \$1.2 million to six (6) watershed enhancement projects. Projects have included: Boise River Pilot (ID), Colorado-Big Thompson (CO), Jackson Gulch Reservoir/Mancos State Park (CO), Cragin Watershed Protection (AZ), Hemlock (CA), and the Yakima Watershed Enhancement (WA).

The U.S Bureau of Reclamation (Fresno Area Office) is planning to submit a proposal for grant funding that meet the goals of the WWEP. The criteria identified for the 2017 solicitation includes:

- Magnitude of risk to Reclamation water supplies and infrastructure
- The level of wildfire risk in affected areas
- Magnitude of impacts the project is designed to avoid or mitigate

Reclamation is currently drafting a proposal for submission to the Denver Office by September 15, 2017. The scope of work will potentially explore treatment options such as hydromulching, hazardous tree removal, debris flow reduction, and erosion/sedimentation control features on Reclamation lands.

One of the elements of the proposal is for Reclamation to furnish support letters (and potential financial commitment) from interested partners and stakeholders who support the project. The Board previously acknowledged \$30,000 from the Warren Act Trust Fund to be committed toward watershed protection efforts for the Cachuma Project. Conceivably, these funds could be utilized as a commitment toward the proposed effort to mitigate impacts to the watershed caused by the Whittier Fire. Staff recommends the Board of Directors send Reclamation a letter of support indicating a financial commitment of \$30,000 for submission of a proposal to the WWEP.

RECOMMENDATION:

The Board of Directors authorize the President of the Board sign a letter of support addressed to the U.S. Bureau of Reclamation indicating a financial commitment of \$30,000 for submission of a proposal to the WWEP for grant funding pertaining to mitigating impacts from the Whittier Fire.

LIST OF EXHIBITS:

1. Proposed Letter of Support to U.S. Bureau of Reclamation

August 28, 2017

XXX
Bureau of Reclamation
Policy and Administration
Denver CO

RE: Western Watershed Enhancement Program

Dear Representative:

The Cachuma Operation and Maintenance Board (COMB) would like to express its support of Reclamations' Proposal to the 2017 Western Watershed Enhancement Program. Recently, the Cachuma Project watershed was devastated by the Whittier Fire which burned over 18,000 acres of the Santa Ynez watershed immediately south of Lake Cachuma. The Cachuma Project serves as the primary water supply for over 250,000 people in the Santa Ynez Valley and on the South Coast of Santa Barbara and is considered a critical life-line system. Assistance under this Federal Program to provide Reclamation funding for post fire emergency measures to protect valuable resources would be exceptional.

COMB has worked cooperatively with Reclamation on various programs of work and recognizes their need to continue to protect and enhance the water supply delivered to their contracting stakeholders. This project would further advance that effort through the various mitigation methods outlined in the application. To that end, COMB is committed to providing \$30,000 of additional financial resources for assistance to fund the project.

The COMB Board fully supports the efforts of Reclamation as they seek funding to support a project designed to protect Reclamation lands and ultimately serve the communities within Santa Barbara County.

Sincerely,

W. Douglas Morgan
President of the Board of Directors

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 28, 2017
Submitted by:	Janet Gingras

SUBJECT: Draft Responses to Santa Barbara County Grand Jury Report titled:
Managing Regional Water Supplies

SUMMARY:

Earlier this year, the Santa Barbara County Grand Jury conducted an investigation into the “serious problem of drought within the County” which included concerns about coordination among the regional water purveyors and fragile infrastructure as outlined in their report entitled: *Managing Regional Water Supplies*. The report considered a wide range of water policy issues, including management of regional supplies, the adequacy and reliability of current conveyance infrastructure, and possibilities for additional sources of water supply.

The attached transmittal letter addressed to the Presiding Judge of the Santa Barbara Superior Court and the recommended draft COMB responses are presented for Board review. COMB is required to respond in writing within ninety (90) days of receipt or September 9, 2017. COMB is named as a responder to Findings No. 3, 5, 7, 8 and Recommendations No. 3, 5, 7a, 7b, and 8.

COMMITTEE STATUS:

The Administrative Committee scheduled for August 23, 2017 was canceled due to lack of quorum.

RECOMMENDATION:

The Board of Directors approve forwarding the proposed letter and responses to the Santa Barbara County Grand Jury Report titled: *Managing Regional Water Supplies* to the Presiding Judge of the Santa Barbara County Superior Court prior to September 9, 2017.

LIST OF EXHIBITS:

1. Santa Barbara County Grand Jury Report: *Managing Regional Water Supplies*
2. Draft Letter addressed to the Presiding Judge of the Santa Barbara Superior Court
3. Draft Responses to the Santa Barbara County Grand Jury Report

MAILING ADDRESS:

COUNTY COURTHOUSE
1100 ANACAPA STREET
SANTA BARBARA, CA 93101



PHONE: (805) 568-2291
FAX: (805) 569-3301
EMAIL: SBCGJ@SBCGJ.ORG
HTTP://WWW.SBCGJ.ORG

**GRAND JURY
SANTA BARBARA COUNTY**

June 9, 2017

Cachuma Operations and Maintenance Board
3301 Laurel Canyon Road
Santa Barbara, CA 93105

Dear Board Members:

On behalf of the 2016-17 Santa Barbara County Grand Jury, I am enclosing a copy of a report for your review and response:

MANAGING REGIONAL WATER SUPPLIES

The Grand Jury, County Counsel, and Judge James Herman have approved this report. The pertinent sections of the *California Penal Code Section 933.05* require the following:

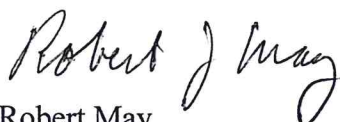
- You are receiving this report two working days prior to its release to the public.
- You shall not disclose this report prior to its public release.
- You must respond to each relevant Finding and Recommendation in this report.
- You must submit your original response to Presiding Judge (name).
- You must also submit a copy of your response to the current impaneled Grand Jury.
- If you are an elected county officer or agency head, the response time is no later than 60 days from the date of receipt of this report.
- If you are the governing body of a public agency subject to reviewing authority of the Grand Jury, the response time is no later than 90 days of receipt of the report.
- If your response to a recommendation is "Requires Further Analysis," you must provide an analysis completion schedule which shall not exceed six months from the report publication date.

Your response will be posted on the Grand Jury website and may be included in the official published response report. Please send your response to:

Santa Barbara County Grand Jury
1100 Anacapa Street
Santa Barbara, CA 93101

Judge James Herman
County of Santa Barbara
Superior Court, Department 1
1100 Anacapa Street
Santa Barbara, CA 03101

Respectfully yours,

A handwritten signature in cursive script that reads "Robert J. May".

Robert May
Foreman Pro Tem
2016-17 Santa Barbara County Grand Jury

MANAGING REGIONAL WATER SUPPLIES

Are There Better Solutions?

SUMMARY

The 2016-17 Santa Barbara County Grand Jury (Jury) conducted an investigation into the serious problem of drought within the County. Historically, Santa Barbara County has been a drought-prone area of California. Although there was considerably above average rainfall this winter, Lake Cachuma is still only 51 percent full, which can seduce many into thinking that the drought is over.

The State Water Project was intended initially to provide a supplemental supply of water. The U.S. Bureau of Reclamation (USBR), part of the Department of the Interior, owns the dam and reservoir at Lake Cachuma (Lake), the heart of the system. The Cachuma Operation and Maintenance Board (COMB), a joint powers agency, was formed to operate the surface water distribution system from the Lake to the coastal communities and the upper Santa Ynez Valley.

While there are many sources of water available in the County, managed by a multiplicity of water purveyors, there is inadequate coordination among them.¹ The Jury advocates the designation of the Santa Barbara County Water Agency as the lead agency in implementing water policy throughout the County.

HISTORICAL BACKGROUND

Santa Barbara has a long history of droughts, building dams to protect against droughts and then growing past that water capacity.

In the early 1800s, when the Spanish missionaries arrived, they needed water for their crops. The seasonal water in the creeks was inadequate so they had the Chumash laborers build a rock dam above the mission. Throughout the 1800s, further growth in the area led to development of shallow wells, documented as initially being ten feet deep. By the end of the century, those wells had failed and the water table had dropped to a level unable to be accessed by digging by hand.

A prolonged drought in the County, which ended in 1864, caused herds of cattle numbering 200,000 to be reduced to 5,000. This decimation forced rancheros to subdivide and sell portions of their land to survive. Goleta was developed into farmland dependent upon individual wells and seasonal rains.

In 1873, Mr. William Stow built a small reservoir damming San Pedro Creek. The dam allowed La Patera ranch to thrive through drought years. The early twentieth century brought the railroad to Santa Barbara, creating a tourist haven and a commensurate population boom.

¹ See Appendix A for Acronym Glossary.

MANAGING REGIONAL WATER SUPPLIES

An article chronicled in *The San Francisco Call*, January 28, 1904 stated “Drouth (sic) Hurts The Cattlemen in Santa Barbara” and called it the “*worst drouth in history.*”

To help stave off the dearth of water, Santa Barbara built a tunnel into the mountain on Cold Spring Canyon creating a “horizontal well.” That well dried up after several years. Additionally, the 3.7 mile-long Mission Tunnel construction was finished in 1911 allowing Santa Barbara to tap into the Santa Ynez River. This solved the water crisis, seasonally; therefore, the population grew again.

In 1920, to solve the water needs of the growing population, Santa Barbara built Gibraltar Dam. The captured water could be released, as needed, into Mission Tunnel to supply the south coast residents.

Throughout the “Roaring Twenties,” the population grew and again exceeded the water supply. The Juncal Dam was built in 1930. This dam captured Sana Ynez River water and formed Jameson Lake. The water was then delivered to Montecito via Doulton Tunnel. This additional source of water solved the crisis once again.

Post World War II, another boom in population and building began. Unfortunately, the late 40s also came with another *worst drought in history.* This drought motivated Santa Barbara to raise the height of Gibraltar Dam by 13 feet to increase capacity. The drought also gave rise to divisive election issues regarding the building of the U.S. Government-run and funded Bradbury Dam/Cachuma Lake project. The measure to build the dam narrowly passed. Bradbury Dam was completed in 1953 and the seven mile-long Tecolote Tunnel was finished in 1956. Once again the growing population’s water crisis was solved.

With new water storage capacity at Lake Cachuma, a large influx of industry, and the move of the University of California, Santa Barbara (UCSB) to Goleta, led to yet another building boom. Thousands of new tract homes were built to support UCSB and the industrial work force.

Droughts in the 1970s and 1980s led to a water meter moratorium which was eventually repealed in cases where people converted agricultural meters into smaller-use, domestic meters.

The next *worst drought ever* started in the mid-1980s and ended in March of 1991. This generated the search for additional water, which led to the State Water Project, building moratoriums and water conservation measures. By 1996, after several very wet years, development resumed in Goleta and conservation measures faded.

The next *worst drought ever* began in 2011, which was the last time Lake Cachuma spilled. By 2015, the lake was at historic lows and Santa Barbara actually began receiving State Water. This time, unlike past *worst droughts ever*, Goleta and Santa Barbara began issuing thousands of new water meters allowing large building projects during *the worst drought ever*².

² Jack Elliott's Santa Barbara Adventure. (2013, October 1) “Deluge and Drought In Santa Barbara County” Retrieved from, <https://yankeebareno.com/2013/10/01/deluge-and-drought-in-santa-barbara-county/>
Goleta History. (2017, February 16) “Goleta and Water” Retrieved from <http://goletahistory.com/goleta-and-water/>

MANAGING REGIONAL WATER SUPPLIES

METHODOLOGY

In order to obtain the data in this report, the Jury interviewed key personnel from COMB, the County, six local water agencies and UCSB. In addition, the Jury studied available documentation, including the Local Urban Management Plans for those agencies that have filed them, and the 2015-16 Santa Barbara County Grand Jury Report, “Lake Cachuma – Protecting a Valuable Resource: You Can’t Drink Paper Water.” The Local Urban Management Plan³, prepared by the Central Coast Water Authority (see Appendix B) was particularly helpful. As a result, the Jury borrowed text from this document in several instances. Finally, the Jury studied the 2013 Integrated Regional Water Management Plan prepared by the “Cooperating Partners,” which was required by Proposition 50.

OBSERVATIONS

This report considers three topics:

- The adequacy and reliability of the present water delivery systems
- What steps can be taken to provide additional sources of supply
- Is there a better way to manage a regional supply system

The adequacy and reliability of the present water delivery system

The State Water Project (SWP) includes 34 storage facilities and over 700 miles of canals and pipelines. Water is delivered through this system from Northern California to Southern California, providing water for over 25 million Californians. In 1991, Santa Barbara voters approved a local extension of the SWP known as the “Coastal Branch,” (shown in red, to the west of Cachuma Lake in Figure 1) which serves Santa Barbara and San Luis Obispo Counties. The south coast water storage and distribution system is summarized in Figure 1.

³ 2015 Local Urban Water Management Plan, (2016, June) Central Coast Water Authority

MANAGING REGIONAL WATER SUPPLIES

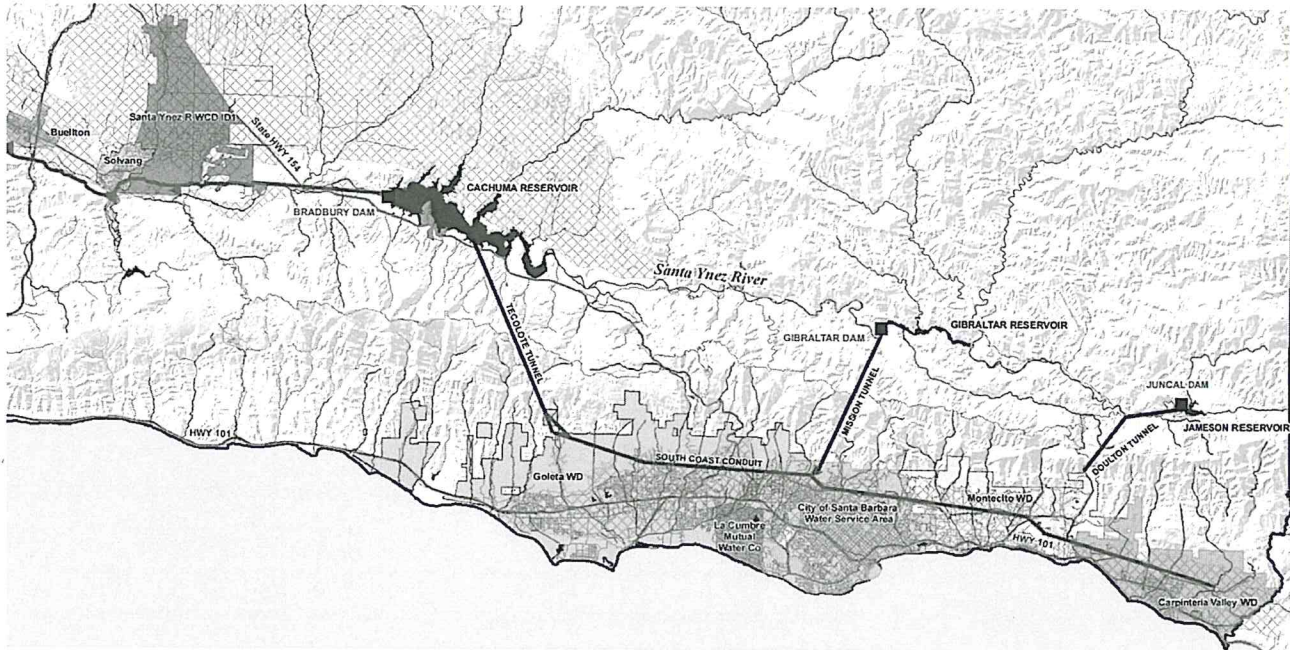


Figure 1 – South Coast Water Supply System

The south coast water supply is always threatened by prolonged droughts and is further threatened by the fragile infrastructure. The system is subject to single-point failures at several locations. The most critical of these is the Tecolote Tunnel, which connects Lake Cachuma and the South Coast Conduit. Over 40 percent of Goleta’s water supply passes through this tunnel, which also provides water to Santa Barbara, Montecito and Carpinteria. None of the water purveyors have capital replacement funds set aside or budgeted. The generally accepted assumption is that if a catastrophic failure should occur, funding from the Federal Emergency Management Agency (FEMA) or some other Federal agency would magically appear.

What steps can be taken to provide additional sources of supply?

Four possibilities are discussed:

- Increased use of desalination
- Recycled water treatment
- Improved Cachuma flow and storage management
- Implement Resource Management Strategies

Increased Use of Desalination

Desalination represents a significant potential opportunity to increase California’s available water supply. In May 2015, the State Water Resources Control Board approved an amendment to the State Water Quality Control Plan for Ocean Waters (Ocean Plan) that addresses desalination facilities. The intent of the amendment is to establish a uniform statewide approach for protecting the beneficial uses of ocean water from desalination-caused degradation.

MANAGING REGIONAL WATER SUPPLIES

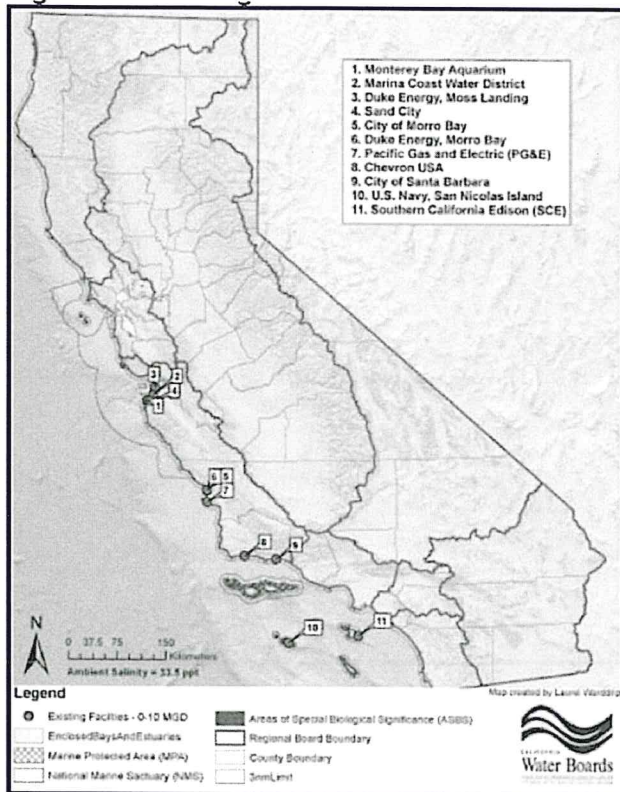


Figure 2 - Existing Desalination Facilities



Figure 3 - Proposed Desalination Facilities

Figure 2 shows the 11 existing desalination facilities in the final Ocean Plan staff report, issued in late 2014, and Figure 3 shows the 15 proposed desalination facilities on the California coast. Three of the existing desalination plants are located in San Luis Obispo County (SLO): City of Morro Bay, Diablo Canyon Nuclear Power Plant and Duke Energy in Morro Bay. Two of the existing plants are located in Santa Barbara County: Chevron near Gaviota, currently not operating; and the City of Santa Barbara.

Of these, the existing PG&E-owned Nuclear Power Plant in Diablo Canyon, Avila Beach and the Santa Barbara-owned desalination facility appear to offer the greatest potential for expansion. The Diablo Canyon facility is in the process of being decommissioned. A portion of the present infrastructure could be reusable as part of a desalination facility. Even so, this would be a major project. It would require approx. 7-8 miles of new pipe to join the existing State Water pipeline.

There are only two proposed projects located in San Luis Obispo County (Oceano and Cambria). With the exception of the City of Santa Barbara's system, all of the existing and proposed desalination facilities in Santa Barbara and San Luis Obispo Counties would produce less than 1,095 Acre Feet (AF) per year. The City of Santa Barbara system is planning to produce 3,125 AF per year but is permitted for larger production. The average household uses 0.5 AF per year.

On the governmental side, a regional water authority would have to be established (jointly with SLO County) for operation and maintenance of these facilities. Existing and proposed desalination plants are discussed in greater detail in Appendix C.

MANAGING REGIONAL WATER SUPPLIES

Recycled Water as Source for Santa Barbara Desalination Plant

It is possible that mixing recycled water with seawater before filtering, and utilizing the desalination plant, would be more economical than processing seawater alone, as is done presently. It would also reduce the environmental impacts of fish-kill and localized salinity increase at the point of discharge. This possibility is being considered. Facility modifications would be required.

Recycled water treatment

Goleta Sanitary District is currently delivering 1,000 AF per year to the Goleta Water District (GWD) for recycling. GWD wants to increase that flow to 3,000 AF per year. This would constitute 21 percent of the GWD total water requirements per year; however, the infrastructure is lacking.

Improved Flow and Storage Management

More sophisticated flow and storage management could increase available supply. Better control over when and how much the Cachuma reservoir drafting occurs can improve the efficiency of the storage process. Here are two examples:

1. Well and Aquifer Recharging When Bradbury Dam is spilling, water is available at no charge to participating water districts. Both Goleta and Carpinteria are heavily dependent upon wells. Goleta derives about 48 percent of its supply from wells, and Carpinteria 71 percent. The City of Santa Barbara has diverse supply sources, of which well water is about 24 percent⁴.

Increasing Cachuma drafting (drawing down) *while it is spilling*, and injecting the water into aquifers through the wells, would increase the volume stored there and reduce the probability of seawater intrusion in future dry years.

There are, of course, issues associated with reinjection. The most important are:

- Water being injected must be treated to drinkable standards before being reinjected.
- The well must be returned to the extraction mode to flush out mineral deposits (typically once each week for 24 hours) during the reinjection process.
- The reinjection technology is relatively new. Not all wells can accommodate reinjection.
- Water extracted during flushing is non-potable and must be discharged to either the storm drain or the sanitary sewer system.

These are the primary factors which show that potable reinjection is not an easy answer and has different ramifications for each purveyor. This technique is also costly.

The Carpinteria Water District extracts water from five wells, two of which are currently on standby status. All five wells have recharge capability. Carpinteria's potable reinjection permitting process is underway. The permit application and supporting information are completed, but will not be submitted until Bradbury Dam starts to spill. This is because the permit is only valid for 24 months, so it would be counter-productive to be permitted during a time when there is no water to reinject.

⁴ Santa Barbara County Public Works Department, (2014, October 14), "Water Supply." Retrieved from <http://cosb.countyofsb.org/pwd/pwwater.aspx?id=3726>

MANAGING REGIONAL WATER SUPPLIES

Goleta Water District (GWD) owns 11 wells, 9 of which are currently operating. All of these wells have potable reinjection capability. The GWD intends to begin reinjection permitting discussions with the Regional Water Board as provided for under California Water Quality Order # 2012-0010.

The City of Santa Barbara operates eight wells, of which four can accommodate reinjection. The other four were drilled about 20 years ago, when reinjection was not yet a proven technology. Only two wells are currently being operated; the other six were shut down on March 1, 2017 to allow the groundwater basin to recharge. The Jury was informed that the City of Santa Barbara has started the permitting process to allow reinjection when Bradbury Dam spills. Because Santa Barbara receives only about a quarter of its supply from groundwater, they are less enthusiastic than some of the other water agencies about exploiting this potential source.

The Montecito Water District derives only 14 percent of its supply from groundwater and is heavily dependent on Lake Cachuma. If the Tecolote Tunnel were to fail, Montecito would be disproportionately affected in a negative manner. Montecito owns eight wells, four of which produce potable water. None of the Montecito wells are rechargeable.

2. Increase Lake Cachuma Useful Storage Capacity: Storage capacity of Lake Cachuma and all of the other reservoirs along the Santa Ynez River, Gibraltar Reservoir, and Jamison Reservoir, has been steadily diminishing over time due to siltation. The feasibility of removing the silt during periods when water levels are low has been investigated several times. The conclusion was the same each time. The number of trucks required was so large, and the time required would be so long, along with environmental concerns, that this approach is not feasible. This does not mean, however, that nothing can be done to increase the amount of stored water.

Prudent management indicates that Cachuma should be drafted (drawn down) heavily during the year *after* the dam spills. This action would lower the lake level, thereby allowing it to accept more inflow, increasing capacity during wet years for future dry years. There is, of course, a potential downside as well; in the final years of a prolonged drought, such as the County just experienced, available supply from the lake could be reduced.

Nevertheless, it appears that there are significant potential advantages in increasing drafting from Lake Cachuma while it is spilling and during the following year. The Jury learned that all of the water purveyors contacted are aware of this fact and are prepared to take the necessary steps to do so.

MANAGING REGIONAL WATER SUPPLIES

Resource Management Strategies

The Santa Barbara County Integrated Regional Water Management Cooperating Partners (see Appendix D), comprises 35 city and County public works, water delivery and processing agencies, was established to satisfy the mandate of Proposition 50 for a more regionally oriented approach to water management issues. They issued a preliminary Integrated Regional Water Management Plan (*IRWMP*) in 2007, which was updated in 2013⁵.

Following are some examples that were designated as local Resource Management Strategies (RMS) in that plan:

Conjunctive Management and Groundwater Storage

Using and managing groundwater supplies to ensure sustainable groundwater yields while maintaining groundwater-dependent beneficial uses, including coordinating management of groundwater and surface water supplies (conjunctive use).

System reoperation was selected as a RMS by the IRWM Region. The Region is reliant on groundwater as a major source of water supply. The Region selected several groundwater management strategies that collectively will increase the supply of groundwater. For example, the City of Santa Maria uses treated wastewater to help recharge groundwater supplies. Those strategies include: Conjunctive Use and Groundwater Management, Efficiency and Conservation Measures, Groundwater Remediation/Aquifer Remediation, Prevention of Contamination and Salt Water Intrusion, and Recharge Area Protection.

Desalination

Developing potable water supplies through desalination of seawater, including disposal of waste brine.

Desalination was selected as a RMS by the IRWM Region. The City of Santa Barbara owns a desalination facility that was just brought into operation. The relatively high cost of desalination makes the desalination plant the last supply option to be used during drought periods.

Recycled Municipal Water

Recycled Municipal Water was selected as a RMS by the IRWM Region. The Region currently produces 4,177 AF per year⁶ of recycled water and plans on expanding production to 7,035 AF per year by 2035. Recycled water is distributed by Goleta Water District, the City of Santa Barbara, and Laguna County Sanitation District. The City of Lompoc also has a regional Reclamation Plant for treatment and disposal. The use of recycled water has the added benefit of reducing wastewater discharge into the ocean, which is a highly valued outcome in the Region.

⁵ Santa Barbara County Water Resources Division, (2013), "2013 Final IRWM Plan." Retrieved from <http://cosb.countyofsb.org/irwmp/irwmp.aspx?id=42010>

⁶ Average use of water in a Santa Barbara household is 0.5 AF per year.

MANAGING REGIONAL WATER SUPPLIES

The Best Way to Manage a Regional Surface Water Supply System

Day-to-day operation of the Cachuma Project is currently the responsibility of the Cachuma Operation and Maintenance Board (COMB).

COMB is a Joint Powers Agency (JPA). It was formed with five members, identified as Cooperating Member Units (CMU) in Figure 4 found on page 12, consisting of Santa Ynez Improvement District 1 (ID1), Goleta Water District (GWD), Santa Barbara City (SBC) Montecito Water District (MWD) and Carpinteria Valley Water District (CVWD). GWD and SBC are larger than the other three districts. Therefore, GWD and SBC have two votes each and the remaining three districts have one vote for all matters before the COMB Board. Additionally, any project that will cost a million dollars or more requires a unanimous vote by the COMB Board, and ratification by the Boards of Directors of all the CMUs. ID1 unilaterally terminated their relationship with COMB last year after a dispute over finances and management of the Fish Management Plan. Whether the ID1 actually has the authority to do so has not been determined.

COMB is charged with operating and maintaining the infrastructure of surface water delivery from the North Portal, located at Lake Cachuma (where water enters the Tecolote Tunnel); the Tecolote Tunnel, and the South Coast Conduit (SCC), which is a single 26 mile pipe line from the South Portal near Glen Annie in Goleta, to Carpinteria. The SCC supplies water to GWD, SBC, MWD, and CVWD. During good rain years Lake Cachuma provides 80 percent of the water to the four south coast water districts. COMB does not maintain the Bradbury Dam. That function is performed by the United States Bureau of Reclamation, which also owns the Dam.

The COMB Board meets regularly once a month at 2:00 p.m. on the fourth Monday of each month. The meetings are noticed, agendas posted, and open to the public as required by the Brown Act. Unfortunately, because of the meeting time, members of the public that have regular jobs are often unable to attend. The meetings are audio taped and available to the public. However, the recording quality is poor, much detail is lost, and it is difficult to determine who is speaking. It would help the public to understand the unique facets of the COMB's management challenges if the meetings were televised for live broadcast and posted on the COMB website.

The 2015-16 Santa Barbara County Grand Jury wrote a report titled, *Lake Cachuma, Protecting a Valuable Resource*. Recommendation 8 for the member units of COMB was: "That the member units, in conjunction with the Santa Barbara County Water Agency, create consistent policies and procedures that govern conservation efforts especially during times of a severe drought and that these are documented in the subcontracts between the Santa Barbara County Water Agency and the member units."

All member units responded similarly to this recommendation. Basically, the responses all stated that each water district was unique. Their water sources, needs, conservation policies and interests are different. Therefore, they could not be governed by one set of guidelines that applied to all of the member units.

This uniqueness of interests makes the governance of COMB challenging. Smaller projects, less than \$1,000,000, require a simple majority. Larger projects require a unanimous vote. As an example, last year the issue of moving the barge in Lake Cachuma, which pumps water to the North Portal of the Tecolote Tunnel when the Lake water level drops, came to COMB Directors. One member, ID1, who

MANAGING REGIONAL WATER SUPPLIES

was not benefited by the use of the barge, voted against the motion because ID1 was worried that the other CMUs would “steal” its water in the Lake. If not for some last minute legal maneuvers, the barge would not have moved. Without moving the barge, GWD, SBC, MWD, and CVWD would not have received *any* water during the past year from the State Water project.

Water in Lake Cachuma is not just rainwater or fed by the river and upper dam systems. It includes State Water; the Semitropic Water Storage District Groundwater Banking Program, located in Kern County (the Montecito Water District is the only Partner in this Program in Santa Barbara County), or any purchased from California delta rice farmers; and water stored at San Luis Reservoir in Monterey County. All are delivered through the State Water Pipeline. These are water sources for the four south coast water districts which require passage into Lake Cachuma then through the Tecolote Tunnel and to the South Coast Conduit for transport to the respective districts.

Additional water sources are the wells managed by the four south coast purveyors. The well systems used by three of the four CMUs are expected to last about five years before being exhausted if pumping continues at the current flow rate. Recharging wells will also be severely limited, should the Tunnel or the South Coast Conduit fail to function and no Lake water is delivered.

A failure of the Tunnel or the South Coast Conduit would shut down the supply of water from Lake Cachuma. No redundant (parallel) pipeline exists to convey water supplied through the Tecolote Tunnel or the SCC. One should be considered. Any repair of the existing line would not be easily accomplished: “When a section of the pipeline needs to be isolated for emergencies or repair there is no easy fix. In addition, dewatering a section of the Conduit is a lengthy process, greatly reducing its operational flexibility and reliability. Due to the age and material from which it is constructed, the pipe is inherently difficult to repair or modify.”⁷

The need for system redundancy has been studied several times throughout the years. The U.S. Bureau of Reclamation has a suitable easement, running the length of the SCC, which could be utilized for an additional pipeline or expansion of the existing pipe. Eventually a segmented plan was proffered and a second pipeline was initiated when the Modified Upper Reach Reliability Project began: “The purpose of the project is to increase the operational flexibility, reliability, and capacity of the Conduit, between the South Portal of Tecolote Tunnel and Corona Del Mar Water Treatment Plant. The increase in operational flexibility, reliability, and capacity are intended to accommodate peak demand levels and to allow maintenance of the pipeline.”⁸ The project was funded by Proposition 50 (Water Quality Supply and Safe Drinking Water Projects Act), which required a portion of matching funds from the CMUs. This was to be the first leg of a redundant system. However, Carpinteria Valley Water District did not feel the project was to its benefit and refused to contribute any more funds. The project was defunded and truncated prior to completion. The pipe does connect to the aged SCC but only extends part way to the Corona del Mar Treatment plant and accomplishes little of the original desired outcome.

⁷ United States Bureau of Reclamation, (2010, November) “South Coast Conduit Modified Upper Reach Reliability Project.” .” Retrieved from https://www.google.com/search?q=footnote+website&rlz=1C1QJDB_enUS639US650&oq=foo&aqs=chrome.1.69i57j69i59j35i39j013.5786j0j8&sourceid=chrome&ie=UTF-8#q=footnote+website+apa.

⁸ *ibid*

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A second pipeline is needed to ensure uninterrupted provision of water to all consumers on the south coast through their various water purveyors.

Are there other management alternatives that should be investigated?

The Central Coast Water Authority (CCWA) was formed to design, construct and operate the facilities needed to bring SWP water to the agencies that contracted to receive that water as a supplemental source. Since the SWP is considered an interruptible supply, all CCWA participants have other sources of water. There are 12 CCWA project participants in Santa Barbara County. They are discussed in Appendix C. The Jury is not aware of any current plans to expand the charter of CCWA to include the management and/or distribution of recycled water or local groundwater.

Since its establishment, the Santa Barbara County Cooperating Partners (Partners) has been very successful in attracting grants from Proposition 50 and Proposition 84 (the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006). Through calendar year 2013, more than \$30 million was obtained. Proposition 84 stipulates that \$52 million must be awarded to the Central Coast Region (which includes Santa Barbara County). The Central Coast Region is also included in Proposition 1-E (The Disaster Preparedness and Flood Protection Bond Act of 2006), which totaled \$800 million statewide. Matching funds of 50 percent are required of project proponents in order to obtain Proposition 1-E funding. The Jury finds that the management structure of the Partners is not suitable to operate as the lead management agency.

The Santa Barbara County Water Agency (SBCWA) has been functioning as the Lead Agency (Program Manager) of the Integrated Regional Water Management Program since its inception. The SBCWA has the technical expertise to set priorities and manage overall water resources, but not the mandate. The County usually acts as the grantee with the State for grant contracts, utilizing sub-grant agreements with Partners which is successful in receiving funding for its nominated projects. The U.S. Bureau of Reclamation has expressed the desire that the new contract in 2020 remain with the County and that the Integrated Water Management Plan designate the SBCWA as “single contracting entity” for this contract.

Figure 4 shows the interrelationships between the various County water purveyors, regulatory agencies, and constituent groups associated with managing the south coast surface water supply.

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Appendix A: State Water Project (SWP) & Santa Ynez River (SYR) Organizational/Surface Water Supply Flow Chart

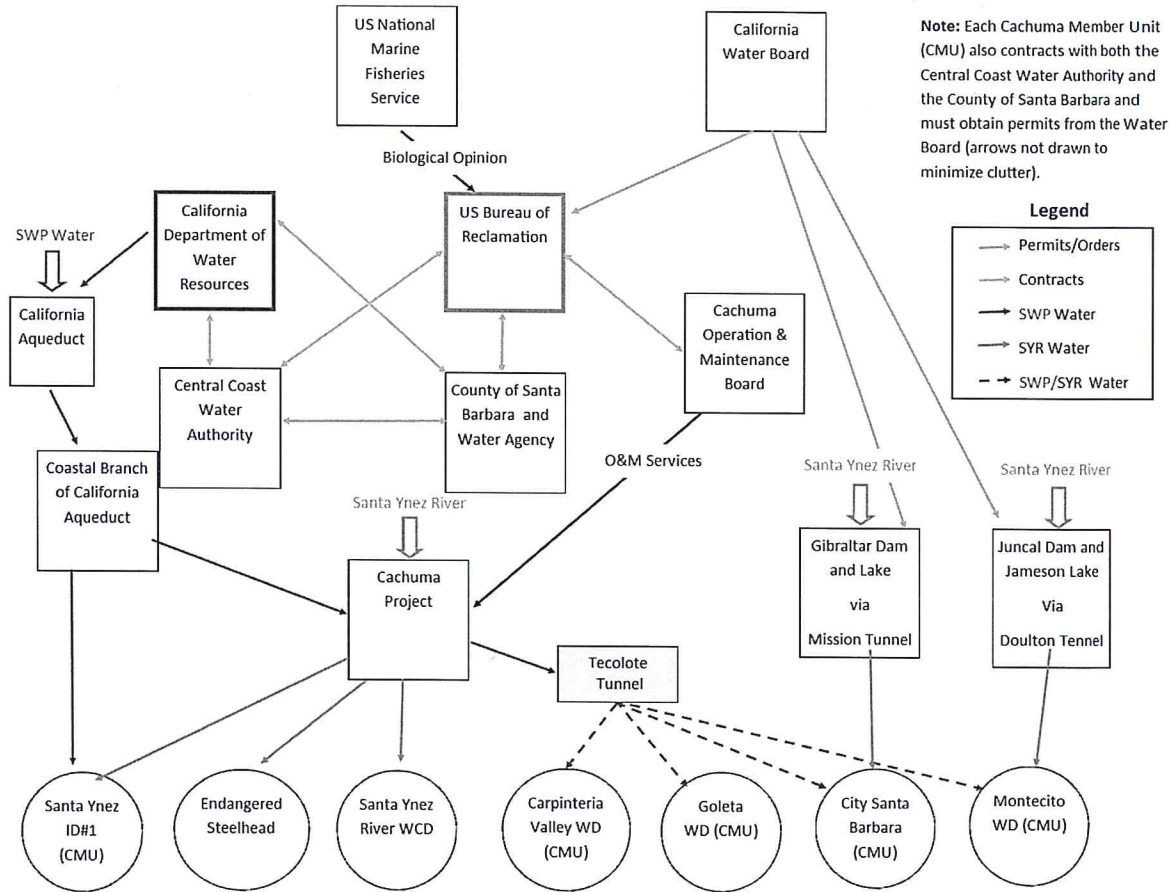


Figure 4 – Surface Water Management and Operation Structure in Santa Barbara County

During a December 2016 meeting sponsored by the Governor’s Drought Task Force, the California Office of Emergency Management (OEM) indicated that state funding could be made available for water distribution system improvements IF there is greater cooperation and coordination between the water purveyors within the County.⁹ It is unclear whether these would be Proposition 50 funds, Proposition 84 funds, or funding from some other source. This action appears to be a recognition by the State that the present water management system is problematic.

The meeting purpose was to begin development of a prioritized list of water projects for State funding. The OEM established an “Action Working Group” and directed them to prepare a proposal that the Santa Barbara County Board of Supervisors (BOS) could submit to the State to implement the highest priority items for funding. This proposal was presented to the BOS on February 11, 2017.

The recommended project list included seven items, as follows:

⁹ See Board of Supervisors Agenda Letter 4/11/2017 and attachments

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“Additional Water Supplies

- Reacquisition of Suspended Table “A” Water^[10]
- Recommissioning and Expansion of Regional Desalination Facility
- Water Reuse – Goleta
- Water Reuse – Carpinteria

Protection of Existing Resources

- Treatment Facilities for Removal of Hexavalent Chromium from Groundwater
- Temporary Emergency Pumping System at Lake Cachuma
- Interagency Intertie Project Between Goleta and Santa Barbara”

The Jury was told by every person interviewed that no budget or plan currently exists for major repairs to our 70-year-old surface water distribution system within the south coast and some segments are older, some are newer.

Critical for the more effective operation of Lake Cachuma and its water distribution system is who will manage and operate it under the new contract with the U.S. Bureau of Reclamation (USBR). Neither COMB, CCWA nor the SBCWA currently have authority over the independent water purveyors on the south coast. Chapter 2 of the IRWMP designates the SBCWA as the Lead Agency (Project Manager). It also designated the SBCWA as the “single eligible contracting entity” for the new contract with the USBR. However, the SBCWA does not appear to have any enforcement and/or prioritization authority. According to a Memorandum of Understanding (MOU) executed in 2006, the key IRWMP implementation organization is the Cooperating Partners Steering Committee. Decisions are made by majority vote of the Cooperating Partners participating in the meeting, with each signatory of the MOU having one vote.

In summary, the Jury found there are several steps that can be taken to improve the efficiency of the water distribution system. The Resource Management Strategy listing in the IRWMP is a good first step.

Regarding water supply governance and recognition of the need for a more regional emphasis, the IRWMP group led by the SBCWA appears to be the logical management entity, if the SBCWA acts more proactively than it has in the past.

¹⁰ An annual fixed percentage of State Water allocated to each member unit of COMB.

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CONCLUSION

Santa Barbara County has a long history of building past its available water resources. Although the immediate threat of not having sufficient water available from Lake Cachuma has been averted because of the recent rains, another sustained drought occurring remains just a matter of time.

The State Water Pipeline does not carry an adequate supply for the needs of the south county. It was always intended as a supplemental source. The 2016-17 Santa Barbara County Grand Jury finds that additional water sources could be developed. The 2013 Integrated Regional Water Management Plan confirmed this. However, the implementation of its vision to use additional desalination projects and new infrastructures for using recycled water, among other things, is not being pursued aggressively because currently there is no entity with the authority to mandate implementation.

Further, the Jury finds that the self-interests of individual water purveyors have hampered efforts to secure a more sustainable regional supply.

Therefore, there must be an independent, impartial and forward-thinking agency (and not a water purveyor) with the authority to fulfill three objectives:

1. Assist all water agencies throughout the County to secure Federal and State grants that enable these purveyors to generate additional sources and employ more efficient systems for delivery;
2. Manage the Lake Cachuma water supplies to the south coast and secure the long-term reliable delivery of that water to purveyors;
3. Set priorities for management for all water resources in the County.

The Santa Barbara County Water Agency comes closest to being that independent, impartial, forward-thinking agency capable of achieving these three objectives. The Santa Barbara County Cooperating Partners already recognizes the SBCWA as the lead agency.

The Santa Barbara County Board of Supervisors must aggressively encourage the United States Bureau of Reclamation to designate the Santa Barbara County Water as the agency to manage Lake Cachuma's water supplies when the Lake Cachuma contract is renewed in 2020.

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FINDINGS AND RECOMMENDATIONS

Finding 1

No single entity has decision or enforcement power within Santa Barbara County to lead regional planning.

Recommendation 1

That the Santa Barbara County Water Agency be designated as the permanent lead agency of the Santa Barbara County Cooperating Partners and granted enforcement power to ensure reliability of Santa Barbara County water supplies.

Finding 2

Additional supply sources such as desalination and recycled water are available to localized agencies but there is no concerted effort to develop them regionally.

Recommendation 2a

That Santa Barbara County Board of Supervisors, in conjunction with San Luis Obispo County, explore the Diablo Canyon desalination plant as a source of water.

Recommendation 2b

That the Montecito Water District and Carpinteria Valley Water District develop more cooperation in water recycling efforts.

Finding 3

The South Coast Conduit pipeline system is unable to accommodate peak water demand levels and is susceptible to single point failure.

Recommendation 3

That a redundant (parallel) pipeline system be built from the existing South Portal of the Tecolote Tunnel through Carpinteria to minimize the possibility of single point failure.

Finding 4

The Upper Reach Reliability Project portion of the South Coast Conduit pipeline was not completed as originally planned.

Recommendation 4

That the Upper Reach Reliability Project portion of the South Coast Conduit pipeline be completed.

Finding 5

Critical pipeline infrastructure, including redundancy, has not been developed throughout southern Santa Barbara County.

Recommendation 5

That critical pipeline infrastructure, including redundancy, be developed throughout southern Santa Barbara County.

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Finding 6

Funding under Propositions 50, 84 and 1E has not yet been granted to the County of Santa Barbara for the Cooperating Partners of Santa Barbara County Integrated Regional Water Management's prioritized list of water supply projects.

Recommendation 6

That the funding applied for by the County of Santa Barbara on behalf of the Cooperating Partners of Santa Barbara County Integrated Regional Water Management is actively pursued.

Finding 7

The meetings of the Cachuma Operations and Maintenance Board do not adequately reveal to the public the competing and conflicting objectives.

Recommendation 7a

That all Cachuma Operations and Maintenance Board meetings be telecast live on community channels.

Recommendation 7b

That Cachuma Operations and Maintenance Board meetings be digitally recorded and posted on their website for greater transparency.

Finding 8

The Tecolote Tunnel is a single point failure location that is in urgent need of maintenance and reinforcement.

Recommendation 8

That Cachuma Operations and Maintenance Board develop and implement a plan to maintain and reinforce the Tecolote Tunnel.

Finding 9

None of the Santa Barbara County south coast water purveyors has established capital replacement accounts.

Recommendation 9

That each Santa Barbara County south coast water purveyor establish and fund a restricted capital replacement account.

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REQUEST FOR RESPONSE

Pursuant to California Penal Code Section 933 and 933.05, the Santa Barbara County Grand Jury requests each entity or individual named below to respond to the enumerated findings and recommendations within the specified statutory time limit:

Responses to Findings shall be either:

- Agree
- Disagree wholly
- Disagree partially with an explanation

Responses to Recommendations shall be one of the following:

- Has been implemented, with brief summary of implementation actions taken
- Will be implemented, with an implementation schedule
- Requires further analysis, with analysis completion date of no more than six months after the issuance of the report
- Will not be implemented, with an explanation of why

Santa Barbara County Board of Supervisors– 90 days

Findings 1, 2, and 6

Recommendations 1, 2a, and 6

Montecito Water District Board of Directors– 90 days

Findings 1, 2, 4, 5 and 9

Recommendations 1, 2b, 4, 5, and 9

Carpinteria Valley Water District Board of Directors– 90 days

Findings 1, 2, 4, 5 and 9

Recommendations 1, 2b, 4, 5 and 9

City of Santa Barbara – 90 days

Findings 1, 4, 5 and 9

Recommendations 1, 4, 5 and 9

Goleta Water District– 90 days

Findings 1, 4, 5 and 9

Recommendations 1, 4, 5 and 9

City of Buellton– 90 days

Finding 1

La Cumbre Mutual Water Company– 90 days

Finding 1

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City of Santa Maria– 90 days

Finding 1

Santa Ynez Valley River Water Conservation District, Improvement District No. 1– 90 days

Finding 1 and 9

Recommendation 9

Santa Barbara County Water Agency– 90 days

Finding 1, 5, 6 and 9

Recommendations 1, 5, 6 and 9

Cachuma Operation and Maintenance Board– 90 days

Findings 3, 5, 7, and 8

Recommendations 3, 5, 7a, 7b, and 8

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APPENDIX A ACRONYMS

AF/DAY	Acre Feet per Day
CCWA	Central Coast Water Agency
CMU	Cachuma Member Units
COMB	Cachuma Operations and Maintenance Board
CVWD	Carpinteria Valley Water District
FEMA	Federal Emergency Management Agency
GWD	Goleta Water District
ID1	Santa Ynez River Water District, Improvement District No. 1
IRWM	Integrated Regional Water Management
IRWMP	Integrated Regional Water Management Plan
JPA	Joint Powers Agency
MOU	Memorandum of Understanding
MWD	Montecito Water District
OCEAN PLAN	State Water Quality Control Plan for Ocean Waters
OEM	California Office of Emergency Management
PG&E	Pacific Gas & Electric
RMS	Resource Management Strategy
SBC	Santa Barbara City
SBCWA	Santa Barbara County Water Agency
SCC	South Coast Conduit

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APPENDIX B

CENTRAL COAST WATER AUTHORITY PARTICIPANT WATER SOURCES CCWA Participant Water Sources

The central coast water authority (CCWA) was formed for the sole purpose of designing, constructing and operating the facilities needed to bring SWP water to the agencies that contracted to receive that water. The following text is extracted from the CCWA's excellent 2015 urban water management plan (UWMP).

Since the SWP is considered an interruptible supply, all CCWA participants have other sources of water supply. The following is a brief summary of the portfolio of water supplies maintained by the twelve CCWA project participants in Santa Barbara County:

City of Buellton

The City of Buellton's service area is approximately 1,025 acres and potable water is provided to residential, commercial and industrial customers. There are no agricultural irrigated lands within city limits. Currently, the City of Buellton relies upon two sources of water for domestic supply. They are as follows:

- State Water Project: the City of Buellton has a SWP allotment of 578 AF per year with an additional 57.8 AF per year drought buffer.
- Groundwater: the City of Buellton has four active groundwater production wells that are permitted by the California DPH. These groundwater wells draw water from The Buellton Uplands Groundwater Basin and the Santa Ynez River Riparian Basin.

Carpinteria Valley Water District

The Carpinteria Valley Water District's service area is approximately 11,300 acres. Domestic water service is provided to a population of about 18,500 and approximately 3,883 acres of irrigated crops, ranging from lemons and avocados to various nursery products. Currently, Carpinteria Valley Water District relies on three sources of supply to meet water demand in its service area. They are as follows:

- Cachuma Project: Carpinteria Valley Water District is one of five water purveyors that have a water supply agreement with the Santa Barbara County Water Agency for use of the Lake Cachuma as a source of water supply. The water agency, in turn, has the master water supply contract with the USBR. Carpinteria valley water district's project water allocation for the Cachuma Project is 10.94%. The annual Cachuma Project yield has been determined to be 25,714 AF, which translates to roughly 2,813 AF per year for the Carpinteria Valley Water District. However, Carpinteria Valley Water District also receives as much as 400 AF per year from exchanges with other member units.
- State Water Project: Carpinteria Valley Water District has an SWP allotment of 2,000 AF per year with an additional 200 AF per year drought buffer.
- Groundwater: Carpinteria Valley Water District has three active groundwater production wells that are permitted by the California DPH. These groundwater wells draw water from the Carpinteria groundwater basin. This basin has not been adjudicated, but is managed pursuant to an AB 3030 Groundwater Basin Management Plan.

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Goleta Water District

The Goleta Water District provides water to approximately 85,000 customers in Goleta and parts of Santa Barbara. The Goleta Water District spans 29,000 acres and extends from the Santa Barbara County south coast area west to Santa Barbara's city limits at El Capitan. It is bounded on the south by the ocean and on the north by the foothills of the Santa Ynez Mountains. Currently, the Goleta Water District relies on four sources of supply to meet water demand in its service area. They are as follows:

- **Cachuma Project:** Goleta Water District is one of five water purveyors that have a water supply agreement with the Santa Barbara County Water Agency for use of Lake Cachuma as a source of water supply. Goleta's project water allocation for the Cachuma Project is 36.25%. The annual yield of the Cachuma Project has been determined to be 25,714 AF, which translates to roughly 9,321 AF per year for the Goleta Water District.
- **State Water Project:** Goleta Water District has a SWP allotment of 4,500 AF per year with an additional 450 AF per year drought buffer. In addition, Goleta Water District has a contract for 2,500 AF of special drought buffer.
- **Groundwater:** Goleta Water District has eight active groundwater production wells that are permitted by the California DPH. These groundwater wells draw water from the Goleta Valley groundwater basin. The north-central portion of this basin was adjudicated via the "wright judgment" (Martha H. Wright et al. V. Goleta Water District et al., 1989, amended judgment, Superior Court of Santa Barbara County Case No. Sm57969). To proactively manage the Goleta groundwater basin, Goleta Water District customers enacted the voter-approved safe water supplies ordinance in 1991 (amended 1994) to ensure the basin is effectively managed.

An additional measure implemented by Goleta Water District, in coordination with the La Cumbre Mutual Water Company, includes the preparation of the Goleta Groundwater Basin Groundwater Management Plan. This plan addresses groundwater issues, adopts basin management objectives, and outlines management strategies for the basin.

- **Recycled Water:** Goleta Water District receives tertiary disinfected recycled water from the Goleta Sanitation District for distribution within its service area. Goleta sanitation district has a permitted capacity to produce tertiary disinfected recycled water at a rate of 3.0 MGD (about 3360 AF/Y).

La Cumbre Mutual Water Company

The La Cumbre Mutual Water Company was formed in 1925 to serve water to land owners in hope ranch and the area between Hollister Avenue and hope ranch, totaling approximately 2,000 acres. The La Cumbre Mutual Water Company provides water to its shareholders on a non-profit mutual-benefit basis. Every landowner within the service area is an owner of this company. The ownership is attached to the land and the amount of ownership is proportional to acreage. Currently, the La Cumbre Mutual Water Company relies on two sources of supply to meet water demand in its service area. They are as follows:

- **State Water Project:** the La Cumbre Mutual Water Company has a SWP allotment of 1,000 AF per year with an additional 100 AF per year drought buffer. SWP water is treated at the PPWTP in northern San Luis Obispo County and is conveyed to the Santa Ynez Valley pumping plant where the water is dechlorinated before it is pumped to Lake Cachuma. The water is subsequently delivered from Lake Cachuma to the Cater Surface Water Treatment Plant, operated by the City of Santa Barbara, for treatment. La Cumbre Mutual Water Company then receives water from the City of Santa Barbara.
- **Groundwater:** the La Cumbre Mutual Water Company has five active groundwater

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production wells that are permitted by the California DPH. These groundwater wells draw water from the Goleta Valley groundwater basin. This basin has not been adjudicated, but is managed pursuant to an ab 3030 groundwater basin management plan.

Montecito Water District

The Montecito Water District encompasses an area of 9,888 acres, of which approximately 6,883 acres are developed (about 98% as residential and 2% as commercial) and approximately 849 acres are used for agriculture. The Montecito Water District relies on three sources of supply to meet water demand in its service area and they are as follows:

- **Cachuma Project:** Montecito Water District is one of five water purveyors that have a water supply agreement with the Santa Barbara County Water Agency for use of Lake Cachuma as a source of water supply. Montecito's project water allocation for the Cachuma Project is 10.31%. The annual yield of the Cachuma Project has been determined to be 25,714 AF, which translates to roughly 2,651af per year for the Montecito Water District.
- **Jameson Lake, Fox and Alder Creeks:** the Montecito Water District receives approximately 20% to 45% of its supply from these sources.
- **State Water Project:** the Montecito Water District has a SWP allotment of 3,000 AF per year with an additional 300 AF per year drought buffer.
- **Groundwater:** the Montecito Water District has four active groundwater production wells that are permitted by the California DPH. These groundwater wells draw water from the Montecito basin. This basin has not been adjudicated, but efforts are underway to manage it through an AB 3030 Groundwater Basin Management Plan.

Morehart Land Company

Morehart Land Company is a privately held California corporation owned by the Morehart family. Its primary business is real estate investment and ranching. In 1977, the Morehart Land Company acquired the majority of lots within the Townsite of Naples, which is located along the ocean, 12 miles north of Santa Barbara, California. The Townsite of Naples consists of 415 largely undeveloped lots which have a combined area of approximately 605 acres. Lot sizes range from 5,036 square feet to 3.7 acres. Six blocks have been developed and contain 23 homes, the last two of which were built in the mid-1980s. The Morehart Land Company has developed water rights, groundwater wells and a water treatment plant and storage facility to serve the Townsite and possibly nearby properties. Negotiations are underway with Goleta Water District to obtain a water transfer agreement by which Goleta Water District will transfer the Morehart Land Company's state water allotment through its existing facilities to the company's distribution connection. Currently, the Morehart Land Company has 200 AF in SWP water, with an additional 20 AF of drought buffer.

City of Santa Barbara

The City of Santa Barbara encompasses 21 square miles and currently provides water to approximately 82,000 municipal and industrial customers. The City of Santa Barbara relies on seven sources of supply to meet water demand in its service area and they are as follows:

- **Gibraltar reservoir:** this reservoir is owned by the City of Santa Barbara and is located on the Santa Ynez River. The current reservoir capacity is 7,264 AF, with an annual yield of approximately 4,600 AF per year. Water from this reservoir is delivered through the Santa

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- Ynez Mountains to Santa Barbara via Mission Tunnel.
- Devil's Canyon Creek: the City of Santa Barbara maintains a small diversion works on devil's canyon creek below Gibraltar dam which diverts water from devil's canyon creek into mission tunnel. The range of annual yield is 24 to 557 AF per year, with an average of 115 AF per year.
- Cachuma Project: the City of Santa Barbara is one of five water purveyors that have a water supply agreement with the Santa Barbara county water agency for use of Lake Cachuma as a source of water supply. The city's project water allocation for the Cachuma Project is 32.19%. The annual yield of the Cachuma Project has been determined to be 25,714 AF, which translates to roughly 8,277af per year for the City of Santa Barbara.
- Mission Tunnel: this structure is a 3.7 mile tunnel through the Santa Ynez Mountains running from the north portal, located approximately 1,700 feet downstream of Gibraltar Dam to the south portal, located on mission creek approximately 3 miles north of downtown Santa Barbara. Annual infiltration for the period 1976 through 2000 ranged from 520 AFY to 2,172 AFY, with an average of 1,348 AFY.
- Groundwater: the City of Santa Barbara has seven active groundwater production wells that are permitted by the California DPH. Groundwater is produced from three groundwater basins: Storage Unit 1 (located in the vicinity of downtown), the foothill basin (located in the upper State Street area), and Storage Unit 3 (located generally in the Westside area).
- State Water Project: the City of Santa Barbara has a SWP allotment of 3,000 AF per year with an additional 300 AF per year drought buffer.
- Desalination: the City of Santa Barbara constructed a reverse osmosis seawater desalination facility as an emergency water supply during the drought of 1990. The facility has since been incorporated into the city of Santa Barbara's long-term supply plan as a way of reducing shortages due to depleted surface supplies during drought. Due to the on-going drought, the city pursued the reactivation of this system. The city currently anticipates the systems to become fully operational during the first half of 2017, with a capacity of 3,125 AF.

Raytheon

In 2015, the Raytheon Company employed approximately 1,450 people at its primary facility in Goleta, and approximately 150 people at its branch facility in Santa Maria. It owns approximately 9.4 acres of land in Goleta and owns or rents 14 buildings with a total of approximately 640,000 square feet of space in Goleta and owns approximately 75 acres of land and one building of approximately 121,000 square feet of space in Santa Maria.

Raytheon has contracted for 50 AF of water from the state water project. This water will be used primarily as a supplemental supply for system reliability.

City of Santa Maria

The City of Santa Maria encompasses an area of approximately 14,361 acres (22.44 Square miles). The city lies along the Santa Maria River and within the Santa Maria Valley. The City expects that the undeveloped land within its boundaries will continue to be developed and that the city's estimated population at build out, in the year 2030, will be approximately 115,000 persons. Currently,

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the City of Santa Maria relies upon two sources of water for domestic supply and they are as follows:

- State water project: the City of Santa Maria has a SWP allotment of 16,200 AF per year with an additional 1,620 AF per year of drought buffer.
- Groundwater; The City of Santa Maria has nine active groundwater production wells that are permitted by the California DPH. These groundwater wells draw water from the Santa Maria groundwater basin. This basin is adjudicated and part of the settlement, the city participates in the management and operation of the Twitchell reservoir, which is operated for the purposes of groundwater recharge within the Santa Maria basin.

Santa Ynez River Water Conservation District, Improvement District #1.

Located in the central portion Of Santa Barbara County, SYRWCD ID#1 serves the communities of Santa Ynez, Los Olivos, Ballard and the City of Solvang. It covers about 10,850 acres. Currently, SYRWCD ID #1 relies on four sources of supply to meet water demand in its service area and they are as follows:

- Cachuma Project: SYRWCD ID #1 is one of five water purveyors that have a water supply agreement with the Santa Barbara County Water Agency for use of the Lake Cachuma as a source of water supply. , SYRWCD ID #1's project water allocation for the Cachuma Project is 10.31%. The annual yield of the Cachuma Project has been determined to be 25,714 AF, which translates to roughly 2,651 AF per year for the, SYRWCD ID #1. However, SYRWCD ID #1 has entered into an exchange agreement with the other four Cachuma Project participants where SYRWCD ID #1 receives SWP water rather than Cachuma water on a one-for-one basis.
- State Water Project: SYRWCD ID #1 has a SWP allotment of 2,000 AF per year with an additional 200 AF per year drought buffer.
- Groundwater: SYRWCD ID #1 has seventeen active groundwater production wells that are permitted by the California DPH. These groundwater wells draw water from the Santa Ynez Uplands Groundwater Basin and the Santa Ynez River Alluvium.

Golden State Water Company

The golden state water company is regulated by the California Public Utility Commission and is a private investor-owned utility company. The golden state water company has grouped five individual water systems within the Santa Maria Valley into one customer service area. The five systems are known as (1) Orcutt, (2) Tanglewood, (3) Lake Marie, (4) Sisquoc and (5) Nipomo. All five systems share common management and the same operations crew. All water rates are based on the golden state water company's investments and pass-through costs for these five water systems as a group. In terms of supplying SWP water to the golden state water company, there is one turnout on the CCWA system that provides water to the Tanglewood system. Golden state water company also obtains access to SWP deliveries for its Orcutt system through wheeling SWP through the city of Santa Maria turnout and accepting water from the city of Santa Maria through one of three system interconnections. The sources of water supply for the Tanglewood and Orcutt system are as follows:

- State Water Project: the golden state water company has a SWP allotment of 500 AF per year with an additional 50 AF per year of drought buffer.
- Groundwater: the golden state water company has two active groundwater production wells in its Tanglewood system and twelve active production wells in

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its Orcutt system that are permitted by the California DPH. These groundwater wells draw water from the Santa Maria groundwater basin. This basin is adjudicated and part of the settlement. The company participates in the management and operation of the Twitchell reservoir, which is operated for the purposes of groundwater recharge within the Santa Maria basin.

Vandenberg Air Force Base

Vandenberg Air Force Base consists of 86,000 acres of open lands in the Lompoc-Guadalupe-Santa Maria triangle. The base is operated by air force space command's 30th space wing. Population is approximately 12,500 to 15,000 people. Currently, Vandenberg Air Force Base relies on two sources of supply to meet water demand in its service area, they are as follows:

- State Water Project: Vandenberg Air Force Base has a SWP allotment of 5,500 AF per year with an additional 550 AF per year of drought buffer.
- Groundwater: Vandenberg Air Force Base has four active groundwater production wells that are permitted by the California DPH. These groundwater wells draw water from the Lompoc groundwater basin.

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APPENDIX C DESALINATED WATER OPPORTUNITIES

Desalinated Water Opportunities

Desalination represents a significant potential opportunity to increase the available water supplies in California. In May 2015, the State Water Resources Control Board approved an amendment to the State Water Quality Control Plan for Ocean Waters (Ocean Plan) that would address desalination facilities. The intention of the amendment is to establish a uniform statewide approach for protecting the beneficial uses of ocean water from degradation due to seawater intake and discharge of brine waste from desalination facilities. The new amendment contains four primary components intended to control potential adverse impacts to marine life associated with the construction and operation of desalination facilities and they are:

- Clarify the State Water Board's authority over desalination facility intakes and discharges.
- Provide direction to the regional water boards regarding the determination required by Water Code section 13142.5, subdivision (b) for the evaluations of the best available site, design, technology, and mitigation measures feasible to minimize the intake and mortality of all forms of marine life at new or expanded desalination facilities.
- A narrative receiving water limitation for salinity applicable to all desalination facilities to ensure that brine discharges to marine waters meet the biological characteristics narrative water quality objective and do not cause adverse effects to aquatic life beneficial uses.
- Monitoring and reporting requirements that include effluent monitoring, as well as monitoring of the water column bottom sediments and affects on community health to ensure that the effluent plume is not harming aquatic life beyond the brine mixing zone.

The final staff report for the Ocean Plan documented eleven existing and fifteen proposed desalination facilities on the California Coast, as of late 2014. Three of the existing desalination plants were located in San Luis Obispo County (City of Morro Bay, Diablo Nuclear Power Plant and Duke Energy in Morro Bay) and two of the existing plants are located in Santa Barbara County (Chevron near Gaviota and the City of Santa Barbara). There are only two proposed projects located in San Luis Obispo County (Oceano and Cambria). With the exception of the City of Santa Barbara's system, all of the existing and proposed desalination facilities in Santa Barbara and San Luis Obispo Counties were well below 1 MGD. The City of Santa Barbara system was reported at 2.8 to 8.9 MGD.

Diablo Canyon Nuclear Power Plant Desalination Facility.

The Diablo Canyon Nuclear Power Plant is operated by Pacific Gas and Electric Company. Due to the Plant's needs for ultra-pure water, the power plant is equipped with a seawater desalination facility. The system is not currently operated at its full treatment capacity. The capacity is currently estimated at 500 AFY without modification and 1,300 AFY with some improvements to the treatment facility. In order to receive water produced from this plant, a seven mile pipeline will need to be constructed to connect to the end of the Lopez Lake pipeline in Avila Beach, California. This option is currently under consideration by a number of water agencies in San Luis Obispo County.

(See Figure 2 Existing Desalination Facilities and Figure 3 Proposed Desalination Facilities.)

The approved Ocean Plan will be implemented through the National Pollutant Elimination System (NPDES) permits or Waste Discharge Requirements issued by the applicable Regional Water Quality

MANAGING REGIONAL WATER SUPPLIES

Control Board, in consultation with the State Water Resources Control Board. Specific discharge requirements would apply to all desalination facilities and intake-related requirements would apply to all new or expanded seawater desalination facilities.

Recycled Water and Local Groundwater

CCWA was formed for the specific purpose of designing, building and operating the Coastal Branch of the SWP. There are no current plans to expand the charter of CCWA to include the management and/or distribution of recycled water or local groundwater.

Drought Planning

CCWA is a joint powers agency that was formed by its member agencies for the sole purpose of building and operating the Coastal Branch of the SWP to provide supplemental imported water. CCWA defers the creation of water shortage action plans to its member retail agencies that have the ability to rely on other water sources, participate in demand management measures and institute voluntary and mandatory conservation. These shortage contingency plans are contained in their individual agency UWMPs and Master Water Plans. CCWA has no ability to reduce water consumption during a water shortage event. In fact, during a water shortage event, CCWA is called upon by its member agencies to increase and maximize deliveries if possible.

CCWA's charge is to assure that the delivery of the SWP to retail agencies is as reliable as possible each and every year. To that end, CCWA will respond to the need of its participants when additional sources of water, beyond that provided by the annual SBCWA Table A allocation process. During one of the driest periods on record (late 2013 and 2014), the CCWA Board of Directors established two important goals for CCWA staff to pursue: (1) establish a program to identify and secure supplemental water during times of drought and (2) investigate the options for a groundwater banking partnership for storing excess water, when it is available.

MANAGING REGIONAL WATER SUPPLIES

APPENDIX D COOPERATING PARTNERS Santa Barbara County Integrated Regional Water Management

City of Buellton	Montecito Sanitary District
Carpinteria Sanitary District	Montecito Water District
Carpinteria Valley Water District	City of Santa Barbara
City of Carpinteria	Santa Barbara County Agricultural Commissioner
Casmalia Community Service District	Santa Barbara County Water Agency
Cachuma Resource Conservation District	Santa Barbara County Flood Control
Cachuma Operation Maintenance Board	Santa Barbara County Laguna Sanitation District
Central Coast Water Agency	Santa Barbara County Parks
Cuyama Community Service District	City of Santa Maria
City of Guadalupe	Santa Maria Valley Water Conservation District
Golden State Water Company	Santa Ynez Community Services District
City of Goleta	Santa Ynez River Water Conservation District, Improvement District No. 1
Goleta Sanitary District	City of Solvang
Goleta Water District	Summerland Sanitary District
Goleta West Sanitary District	Vandenberg Village Community Services District
Heal the Ocean	
La Cumbre Mutual Water Company	
City of Lompoc	
Los Alamos Community Services District	

August 28, 2017

VIA REGULAR MAIL

Honorable Judge James Herman
Presiding Judge
Santa Barbara Superior Court
County Courthouse
1100 Anacapa Street
Santa Barbara CA 93101

RE: Response to Santa Barbara Civil Grand Jury Report titled: *Managing Regional Water Supplies*

Dear Judge Herman:

Please find attached the Cachuma Operation and Maintenance Board (COMB) responses to the above referenced Civil Grand Jury Report. As directed by the Grand Jury, all responses are provided in accordance with Section 933.05 of the California Penal Code.

Respectfully submitted,

W. Douglas Morgan
President, COMB Board of Directors

Encl/

Cc: Robert May, Foreman Pro Tem, 2016-17 Santa Barbara County Grand Jury

Cachuma Operation and Maintenance Board

Finding 3

The South Coast Conduit Pipeline system is unable to accommodate peak water demand levels and is susceptible to single point failure.

The Cachuma Operation and Maintenance Board partially agrees with the finding.

Recommendation 3

That a redundant (parallel) pipeline system be built from the existing South Portal of the Tecolote Tunnel through Carpinteria to minimize the possibility of single point failure.

The recommendation will not be implemented because it is not warranted or is not reasonable. The South Coast Conduit (SCC) system is able to accommodate peak water demand levels. The water purveyors on the South Coast have developed individual diversified water supply portfolio's thereby mitigating SCC system demands which may otherwise cause a strain on the system.

The South Coast Conduit system is susceptible to a single point failure in certain sections of the system. The Modified Upper Reach Reliability Project was designed and constructed during calendar years 2011 and 2012. This section of the pipeline serves as a redundant system for reliability and maintenance purposes. Sections of the South Coast Conduit are continually under evaluation through inspection and may be replaced if they are determined to be at risk of near term failure. In addition, various alternative sources of water have been identified, developed and financially supported by the South Coast water purveyors during the past few years rendering the construction of a complete, parallel pipeline through Carpinteria cost prohibitive and therefore not feasible.

Finding 5

Critical pipeline infrastructure, including redundancy, has not been developed throughout southern Santa Barbara County.

The Cachuma Operation and Maintenance Board partially disagrees with this finding.

Recommendation 5

That critical pipeline infrastructure, including redundancy, be developed throughout southern Santa Barbara County.

The recommendation has been partially implemented and requires further analysis. The Modified Upper Reach Reliability Project was designed, implemented and constructed during calendar years 2011 and 2012. This section of pipeline serves as a redundant system for reliability and maintenance purposes. The remaining portion of the Upper Reach Reliability Project has been evaluated in Cachuma Operation and Maintenance Board's (COMB) Reliability and Alternatives studies and proposals to repair, replace or improve these facilities are outlined in the COMB Five-Year Infrastructure Improvement Plan (IIP). The IIP provides critical component detail of the system to be improved, repaired or replaced to ensure reliability of service. In addition, various alternative/diversified sources of water have been identified, developed and financially supported by the South Coast water purveyors to deal with unanticipated short and long term losses of supply.

Finding 7

The meetings of the Cachuma Operation and Maintenance Board do not adequately reveal to the public the competing and conflicting objectives.

The Cachuma Operation and Maintenance Board disagrees with the finding.

Recommendation 7a

That all Cachuma Operation and Maintenance Board meetings be telecast live on community channels.

The recommendation will not be implemented because it is not warranted or is not reasonable. Cachuma Operation and Maintenance Board is a Joint Powers Authority which is legally obligated to abide by the Ralph M. Brown Act (Government Code Section 54950, et seq.) by noticing all public meetings in a timely manner according to the law. The agendas for all public Board meetings are posted at the COMB office and on the COMB website. In addition, all materials associated with the Board packet are posted to the COMB website and available at the public meeting in accordance with Government Code Section 54954.2.

The COMB Board of Directors are selected by their respective Governing Boards to serve as representatives on the COMB Board. In that role, the COMB Directors provide reportable information to their respective Governing Boards on topics discussed and approved at the COMB Board meeting. The equipment necessary to provide a live streaming telecast of Board meetings is very expensive. The cost to telecast Cachuma Operation and Maintenance Board regular Board meetings live on community channels has been evaluated and is not financially justified.

Recommendation 7b

That Cachuma Operation and Maintenance Board meetings be digitally recorded and posted on their website for greater transparency.

The recommendation could likely be implemented by January 2018.

Finding 8

The Tecolote Tunnel is a single point failure location that is in urgent need of maintenance and reinforcement.

The Cachuma Operation and Maintenance Board disagrees with the finding.

Recommendation 8

That Cachuma Operation and Maintenance Board develop and implement a plan to maintain and reinforce the Tecolote Tunnel.

The recommendation requires further analysis. The U.S. Bureau of Reclamation performs inspections of the Tecolote Tunnel on a periodic basis. The previous inspection was conducted in 2012 with identified maintenance work defined as a category 2 recommendation per Reclamations guidelines. These recommendations are outlined in the Cachuma Operation and Maintenance Board's Five-Year Infrastructure Improvement Plan. The next inspection of the Tecolote Tunnel conducted by Reclamation as a periodic review is scheduled for December 2017.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 28, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: **Proposed Change to Procurement Policy**

SUMMARY:

The COMB Procurement Policy was adopted by the Board on March 27, 2017. The policy sets forth uniform procedures for the procurement of equipment, non-professional and professional services, supplies, and formal bidding and contracting for COMB.

Under Section 4. Procurement Instruments, the policy defines four (4) procurement instruments to be utilized by staff in the procurement process. These instruments include Standard Purchase Orders, Purchase Order Agreements, Professional Service Agreements, and Project Contracts (Bid Contracts).

Currently, a Standard Purchase Order is issued to procure office supplies, administrative supplies, equipment, and material items not exceeding \$5,000. Staff has found this section of the policy to be an administrative burden for low cost items (less than \$500). To make the policy less restrictive, staff is proposing the dollar limit requirement for Standard Purchase Orders be changed for purchases greater than \$500 and up to but not exceeding \$5,000. The section of the policy would therefore read:

- A. **Standard Purchase Orders.** The standard Purchase Order is issued to procure office supplies, administrative supplies, equipment, and material items. Standard purchase orders are typically used for purchases greater than \$500 and up to but not exceeding \$5,000. Purchases shall be made from vendors offering the best value in price, support services, and delivery procedures.

Standard Purchase Orders shall not be used for consultant services, subcontracts, travel expense advances/reimbursements, routine monthly or periodic bills (e.g., rent, telephone, utilities, equipment leases, and maintenance agreements), minor recurring expenses (e.g., courier services), nor items paid from petty cash. Standard Purchase Orders shall clearly describe the items(s) being purchased, the estimated purchase amount, the purpose or intended use of the goods if purchased, and the account to be charged. Standard Purchase Orders shall be approved by both the applicable Division Manager and the General Manager prior to the order for supplies, materials, and/or equipment being administered.

The proposed change is consistent with the sections of the policy regarding Petty Cash (Section 11.D) and Open Charge Account System (Section 11.G) which provides for a \$500 maximum threshold on purchases without a purchase order requirement.

The General Manager has established a system of internal controls that provide an audit trail for all purchases and provide transparency in the procurement process including the following controls:

- more than one person to be involved in each transaction, end-to-end
- provide subsequent approval of purchase prior to payment
- require certification of receipt of material
- result in reconciliation receipt with invoice and final payment, and
- require two signatures on payment of invoice

COMMITTEE STATUS:

The Administrative Committee meeting scheduled for August 23, 2017 was canceled due to lack of quorum.

RECOMMENDATION:

The Board of Directors approve the proposed change to the Procurement Policy as cited in the summary text above.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 28, 2017
Submitted by:	Dave Stewart
Approved by:	Janet Gingras

SUBJECT: **Lateral 3A Replacement Project**

SUMMARY:

Lateral 3A is a multi-joint pipe configuration contained inside a concrete vault that sits directly on top of the South Coast Conduit (SCC) located in the Upper Reach of the system. The vault houses a riser pipe (protruding through the concrete floor), a meter, a valve, and the lateral connections associated piping. Although the lateral was originally constructed as an operational component of Goleta Water District's system, it was later converted for sole use as a blow-off structure on the SCC.

Sometime after Lateral 3A's conversion into a blow-off structure, a leaky riser pipe was discovered and temporarily repaired by placing mortar on the riser pipe and along the floor connection, eliminating any potential for leaking into the vault. In order to access the riser pipe, the entire vault which houses the lateral, as well as three adjacent sections of the SCC, must be removed which will require a system shutdown. A new blow-off structure will be constructed and installed in its place.

Preliminary surveying and topographic mapping of the area surrounding Lateral 3A has been performed by Cardenas and Associates Surveying, Inc. Flowers & Associates, Inc. has completed the engineering design and provided the technical plans and specifications used in the bid process. Flowers & Associates, Inc. will be performing engineering oversight services during construction.

Construction bids were noticed on July 5, 2017 and solicited from five (5) local, qualified contractors (*Specialty Construction, Inc., Tierra Contracting, Inc., Lash Construction, Inc., Elite General Engineering, Inc., and Cushman Contracting Corporation*). All contractors attended the mandatory pre-bid job walk on July 10, 2017. Sealed bids were received by two (2) responsive contractors on July 17, 2017; Specialty Construction, Inc., totaling \$288,250 and Cushman Contracting Corporation (CCC), totaling \$93,000. Staffs recommends issuing a Notice of Award for construction of the Lateral 3A Replacement Project and, subject to completion of administrative criteria as outlined in the contract, authorize the General Manager to enter into a contract with Cushman Contracting Corporation.

A coordinated schedule for shutdown to perform the work is currently being developed.

FISCAL IMPACTS:

The total estimated cost of the project is \$150,000 which includes engineering design and project management, surveying costs, environmental review and construction costs. Budgeted carryover funds from fiscal year 2016-17 plus the adopted budget for fiscal year 2017-18 equal (\$172,000) designated for expenditures on this project.

LEGAL CONCURRENCE:

General Counsel has reviewed and approved the bid documents and affiliated contract language.

ENVIRONMENTAL COMPLIANCE:

This maintenance project is within the USBR right-of-way. A CEQA Notice of Exemption (NOE) was filed with the Santa Barbara County Clerk's office on July 26, 2017. The construction of the project will not begin until expiration of the required 30 day notice period.

COMMITTEE STATUS:

The Operations Committee meeting scheduled for August 23, 2017 was canceled due to lack of a quorum.

RECOMMENDATION:

The Board adopt Resolution No. 644 and approve and authorize:

- 1) Unexpended funds (FY 2016-17) previously approved for this project in the amount of \$71,941 to be carried forward for expenditures in Fiscal Year 2017-18.
- 2) The issuance of a Notice of Award to Cushman Contracting Corporation as the lowest responsive, responsible bidder.
- 3) The General Manager to enter into a contract with Cushman Contracting Corporation for construction of the Lateral 3A Replacement Project

LIST OF EXHIBITS:

- 1) Resolution No. 644
- 2) Engineer Contractor Award Recommendation Letter
- 3) Draft Notice of Award
- 4) Construction Contract for Lateral 3A Replacement Project

RESOLUTION NO. 644

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING
ISSUANCE OF A NOTICE OF AWARD AND AUTHORIZING CONTRACT
EXECUTION WITH CUSHMAN CONTRACTING CORPORATION FOR
CONSTRUCTION OF THE LATERAL 3A REPLACEMENT PROJECT**

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

WHEREAS, the Member Agencies of COMB consist of the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District (collectively herein the “South Coast Member Agencies”), and the Santa Ynez River Water Conservation District, Improvement District No. 1 (“ID No. 1”); and

WHEREAS, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract with the United States Bureau of Reclamation, including Lateral 3A, which is a multi-joint pipe configuration contained inside a concrete vault that sits directly on top of the South Coast Conduit located in the Upper Reach of the system; and

WHEREAS, it is necessary for COMB to implement the Lateral 3A Replacement Project (Project) as outlined in the COMB Five-Year Infrastructure Improvement Plan, and further described in the related staff report, to ensure the continued reliable conveyance of Cachuma Lake Project water through the South Coast Conduit; and

WHEREAS, a competitive bidding process was performed and sealed bids were opened on July 17, 2017 with Cushman Contracting Corporation prevailing as the lowest responsive, responsible bidder; and

WHEREAS, on August 23, 2017, the Project was reviewed by COMB’s Operations Committee and a recommendation to authorize a notice of award and execution of contract was forwarded to the Board; and

WHEREAS, it is in the best interest of COMB to enter into said contract, including for the reasons provided the COMB Five-Year Infrastructure Improvement Plan and the related staff report;

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

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

2. The Governing Board authorizes a Notice of Award be issued and approves a contract to be executed with Cushman Contracting Corporation for the construction of the Lateral 3A Replacement Project in an amount not to exceed \$93,000.

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

4. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 28th day of August 2017, by the following roll call vote:

Ayes:

Nays:

Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

Robert T. Flowers
RCE 18324
Stephen G. Flowers
RCE 26192
Vernon E. Williams
RCE 33690
Alan H. Chierici

FLOWERS & ASSOCIATES, INC.
C I V I L E N G I N E E R S
201 NORTH CALLE CESAR CHAVEZ, SUITE 100, SANTA BARBARA, CA 93103
PHONE: 805.966.2224 • FAX: 805.965.3372
www.flowersassoc.com

W.O. 1413 Lat. 3A
Email

July 20, 2017

Janet Gingras, General Manager
Dave Stewart, Operations Manager
Cachuma Operations and Maintenance Board (COMB)
3301 Laural Canyon Road
Santa Barbara, CA 93105-2017

**Subject: COMB-Lateral 3A Replacement Project
Construction Contract Award Recommendation (Revised)**

Janet and Dave:

We have completed our evaluation of the two bids received on Monday, July 17, 2017 for this project and are prepared to make an award recommendation.

Specialty Construction, Inc. of San Luis Obispo (Specialty) submitted a bid of \$288,250. The bid documents were not submitted within the Proposal, Contract and Specification document but this is considered a minor consideration which could be waived by the Board.

Cushman Contracting Corporation of Goleta (Cushman) submitted a bid of \$93,000. No significant issues were noted with their bid.


We have significant experience working with both contractors and have no concerns about their ability to perform the required construction. Based on past experience, we would expect more change order pressure from Cushman especially with this level of disparity in the bid prices.


Given the significant difference in bid amounts, we contacted the contractors focusing on the Bid Items with the largest price disparity. We concluded from these discussions that, whereas both approaches were legitimate, the differences were primarily based on the disparate level of familiarity with work involving the South Coast Conduit. With Cushman's much greater experience with this structure they were more comfortable performing the specified work and their price reflected this experience.

In conclusion we recommend that the contract be awarded to Cushman with the expectation that there will be some increases over their bid amount.

Please contact the undersigned with any questions or comments on this information.

Sincerely,
FLOWERS & ASSOCIATES, INC.

By: 
Vernon E. Williams, P.E.,
Vice-President

By: 
Richard G. Craig,
Resident Engineer

NOTICE OF AWARD

**PROJECT: CACHUMA OPERATION & MAINTENANCE BOARD
LATERAL 3A REPLACEMENT PROJECT**

Date: August XX, 2017

To (Contractor): Cushman Contracting Corporation

Re: Notice of Award – Lateral 3A Replacement Project Construction Contract

Dear Mr. Cushman,

This letter shall constitute your “Notice of Award” for a construction contract for the work on the subject project. This notice is effective the date of this letter. A “Notice to Proceed” will be forthcoming upon receiving all requested documentation as set forth in the project Bid Packet.

Congratulations and we look forward to working with you on this project.

Sincerely,

Janet Gingras
General Manager

CC: Flowers & Associates, Engineer
David Stewart, Operations Division Manager, COMB

**CACHUMA OPERATION AND MAINTENANCE
BOARD**



**PROPOSAL, CONTRACT AND SPECIFICATIONS FOR
THE
LATERAL 3A REPLACEMENT PROJECT**



PREPARED BY:

FLOWERS & ASSOCIATES, INC.
201 North Calle Cesar Chavez, Suite 100
Santa Barbara, CA 93103



Vernon E. Williams Date: June 23, 2017
By: Vernon E. Williams, P.E.

**MANDATORY PRE-BID CONFERENCE
AT THE PROJECT SITE ON
JULY 10, 2017 AT 10:30 AM**

**BIDS TO BE OPENED AT COMB OFFICE
3301 LAUREL CANYON ROAD ON
JULY 17, 2017 AT 4:00 P.M.**

CONTRACT AGREEMENT
FOR THE
LATERAL 3A REPLACEMENT PROJECT
FOR THE CACHUMA OPERATION AND MAINTENANCE BOARD
SANTA BARBARA COUNTY, CALIFORNIA

Contract Price \$_____

THIS AGREEMENT made this _____ day of _____, 20___, by and between the Cachuma Operation and Maintenance Board, a public entity, organized and existing in the County of Santa Barbara, under and by virtue of the laws of the State of California, hereinafter designated as Board, and _____, hereinafter designated as Contractor.

The Board and the Contractor, in consideration of the mutual promises, covenants and conditions hereinafter set forth, agree as follows:

ARTICLE 1 - THE WORK

In consideration of payments and agreements to be made by the Board, the Contractor shall perform and complete in a prompt and workmanlike manner the work in the Board's Contract Documents entitled:

LATERAL 3A REPLACEMENT PROJECT

The Work is generally described as follows:

Remove an existing concrete vault and associated piping and replace blow-off structure and piping.

The Contractor shall perform all work in accordance with, and meet all requirements of, the Contract Documents, and shall furnish at his own expense all labor, materials, equipment, tools, transportation, and services necessary therefore, except for such materials, equipment and services (if any) as may be set forth in the Contract Documents to be furnished by the Board.

ARTICLE 2 - COMMENCEMENT AND COMPLETION; LIQUIDATED DAMAGES;

The Work to be performed under this Contract shall commence on the date specified in the Notice to Proceed by the Board and the Work shall be fully completed within forty (40) Working Days. The Board will issue Notice to Proceed within 10 days of execution of the Contract which will follow acceptance of Contractor's bonds and insurance certificates.

The Board and the Contractor recognize that time is of the essence of this Agreement and that the Board will suffer financial loss if the Work is not completed within the time specified herein, plus any extensions thereof allowed in accordance with Section B - General Provisions Modifications, including Paragraph 6-6.1.3. The parties also recognize the delays, expense and difficulties involved in proving in a legal proceeding the actual loss suffered by the Board if the

Work is not completed on time. Accordingly, instead of requiring any such proof, the Board and the Contractor agree that as liquidated damages or delay (but not as penalty) the Contractor shall pay the Board the sum of \$1,000.00 for each calendar day that expires after the time specified herein. The parties agree that assessment of liquidated damages is valid in accordance with California Government Code Section 53069.85.

ARTICLE 3 - CONTRACT PRICE

The Board shall pay the Contractor for the completion of the Work in accordance with the Contract Documents in current funds the Contract Price(s) as set forth above.

ARTICLE 4 - THE CONTRACT DOCUMENTS

The Contract Documents consist of:

- Notice Inviting Sealed Bids
- Instructions to Bidders
- The prevailing rate of per diem wages s determined by the Director of the California Department of Industrial Relations
- Accepted Proposed Bid Schedule
- Bid Bond or Bid Security
- Bidder's Statement Regarding Insurance Coverage
- List of Subcontractors and Suppliers
- Proposed Equipment and Materials Manufacturers
- Non-Collusion Affidavit
- Contract Agreement
- Schedule of Values
- Insurance Requirements for Contractors
- Performance Bond
- Payment Bond
- Notice of Award
- Notice to Proceed
- Notice of Completion
- Standard Specifications (SSPWC)
- General Provisions Modifications
- Special Provisions
- Addenda # _____ to _____, inclusive
- Change Orders
- Work Change Directives which may be delivered or issued after the Effective Date of the Agreement and are not attached hereto
- Project Plans

ARTICLE 5 - PAYMENT PROCEDURES

The Contractor shall submit applications for Payment for each calendar month in accordance with Section 9-3, Measurement and Payment as modified herein of the Standard Specifications (SSPWC). The payment application shall be submitted in spread sheet format acceptable to COMB. Applications for Payment will be processed by COMB as provided in the Standard Specifications.

ARTICLE 6 - NOTICES

Whenever any provision of the Contract Documents requires the giving of written notice, it shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the Notice.

ARTICLE 7 - NO ASSIGNMENT

No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically, but without limitation, monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and, unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents. Any assignment of money shall be subject to all proper withholdings in favor of Board and to all deductions provided for in the Contract Documents. All money withheld, whether assigned or not, shall be subject to being used by the Board for completion of the work, should the Contractor be in default.

The Board and the Contractor each binds itself, and its partners, officers, directors, employees, successors, assigns, and legal representatives to the other party hereto, and their partners, officers, directors, employees, successors, assigns, and legal representatives in respect of all covenants, agreements, and obligations contained in the Contract Documents.

ARTICLE 8 - PREVAILING WAGES/LABOR CODE COMPLIANCE

The general prevailing rates of per diem wages and general prevailing rate for holiday and overtime work in the locality in which the work is to be performed have been determined by the Board. The general prevailing rates of per diem wages are hereby incorporated herein and made a part hereof. The Contractor agrees that he, or any subcontractor under him, will pay not less than the foregoing specified prevailing rates of wages to all workmen employed in the execution of the Contract.

Any contractor who is awarded a public works project and intends to use a craft or classification not shown on the general prevailing wage determinations, may be required to pay the wage rate of that craft or classification most closely related to it as shown in the general determinations effective at the time of the call for bids.

The Contractor further acknowledges the provisions of the California Labor Code applicable to this project. Contractor covenants that it will comply with such provisions. These provisions include, but are not limited to, the levying of penalties for failure to pay prevailing wages (Labor Code Section 1775) or for workmen who are required or permitted to work more than eight hours in one calendar day and forty hours in one calendar week in violation of the Labor Code (Labor Code Section 1813); and the keeping and furnishing of accurate and certified payroll records (Labor Code Section 1776).

ARTICLE 9 - INDEMNITY OBLIGATIONS

A. Promptly upon execution of the Contract, Contractor specifically obligates itself and agrees to protect, hold free and harmless, investigate, defend and indemnify the U.S. Bureau of Reclamation ("Reclamation"), the Board, and their consultants, and each of their member entities ("members"), officers, trustees, directors, officials, employees and agents, from and against any and all liability, penalties, costs, losses, damages, expenses, causes of action, claims or judgments, including without limitation attorneys' fees and costs of litigation, which arise out of or are in any way connected with Contractor's or its subcontractors' or suppliers' performance of work under this Contract or failure to comply with any of the obligations contained in the Contract. To the fullest extent legally permissible, this indemnity, defense and hold harmless obligation of Contractor shall apply to any and all acts or omissions, whether active or passive, on the part of the Contractor or its agents, employees, representatives, or any subcontractor's agents, employees, and representatives, resulting in claim or liability (including but not limited to death or bodily injury to, or damage to property of, Contractor or any subcontractor, person, firm, corporation, or supplier employed by the Contractor upon or in connection with the Work, either directly or by indirect contact), irrespective of whether or not any acts or omissions of any of the parties to be indemnified hereunder may also have been a contributing factor to the liability, except such loss or damage which was caused by the active negligence, sole negligence, or willful misconduct of the indemnitees. This provision shall be construed in accordance with California Civil Code Section 2782 et seq. and notwithstanding any provision to the contrary in Paragraph 7-3 of the Standard Specifications.

B. In any and all claims against the Board, Reclamation, and their consultants, and each of their members, trustees, directors, officers, employees and agents by any employee of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation under this Section shall not be limited in any way by any limitation of the amount or type of damages, compensation or benefits payable by or for the Contractor or any subcontractor under Worker's Compensation statutes, disability benefit statutes or other employee benefit statutes, or other insurance policies furnished by Contractor as required herein.

C. Contractor's indemnity obligations within this Article 9 shall survive the expiration or completion of this agreement.

ARTICLE 10 – PAYMENT AND PERFORMANCE BONDS

Contractor as part of its Contract Price, and prior to commencement of work, shall supply to the

Board payment and performance bonds (each in the amount of 100% of the Contract Price). The payment bond shall meet all requirements of Civil Code Section 9550 and 9554 and shall be in a form satisfactory to the Board. The performance bond shall be in the form provided in these Contract Documents or as otherwise acceptable to the Board. The bonds provided by the Contractor must be issued by a California admitted surety insurer licensed to do business in the State of California (as set forth in California Code of Civil Procedure Section 995.010 et. seq.) and with a current A. M. Best's rating no less than A:VII or equivalent or as otherwise approved by Board.

ARTICLE 11 – EARLY TERMINATION OF CONTRACT

If the Board elects to terminate the Contract prior to completion of the work, then notwithstanding any other provisions in these Contract Documents, such termination and the total compensation payable to the Contractor shall be governed by the following:

(1) The General Manager will issue Contractor a written notice specifying that the Contract is terminated. Except as otherwise directed in writing by the Engineer, the Contractor shall:

A. Stop all work under the Contract except that specifically directed to be completed prior to acceptance. [Such work may include, but is not limited to, reestablishment of a road crossing at the site of the Work.]

B. Notify all of Contractor's subcontractors and suppliers that the Contract is being terminated and that their contracts and orders are not to be further performed unless otherwise authorized in writing by the Board.

C. Perform work the Engineer deems necessary to secure the Project for termination.

D. Remove equipment and plant from the site of the Work, as directed.

E. Take action that is necessary to protect materials from damage.

F. Provide the Engineer with an inventory list of all materials previously produced, purchased or ordered from suppliers for use in the Work and not yet used in the Work, including its storage location, and such other information as Engineer may request.

G. Dispose of materials not yet used in the Work, as directed by Engineer. Contractor shall provide the Board with good title to all materials purchased by the Board hereunder (including materials for which partial payment has been made), and with bills of sale or other indicia of title for the materials.

H. Subject to the General Manager's prior written approval, settle all outstanding liabilities and claims arising out of subcontracts or orders for materials terminated hereunder. To the extent directed by the General Manager, the Contractor shall assign to the Board all the right, title and interest of the Contractor under such subcontracts or orders referenced herein.

I. Furnish the General Manager with any documentation required to be furnished by the Contractor in accordance with the Contract Documents.

J. Take any other actions required by General Manager.

(2) Termination of the Contract shall not relieve any surety of its obligations for just claims arising out of the work performed.

(3) The total compensation to be paid to Contractor shall be determined by the Engineer on the basis of the following:

A. The reasonable cost to Contractor, without profit, for all work performed under the Contract, including mobilization, demobilization and work done to secure the Project for termination. In determining the reasonable cost, deductions will be made for the cost of materials to be retained by the Contractor, amounts realized by sale of the materials, and for other appropriate credits against the cost of the Work. When in the Engineer's opinion the cost of a contract item of work is excessively high due to costs to remedy or replace defective or rejected work, the reasonable cost to be allowed will be the estimated reasonable cost of performing that work in compliance with the requirements of the plans and specifications and the excessive actual cost shall be disallowed.

B. A reasonable allowance for profit on the cost of the work as determined pursuant to subparagraph (A) herein, provided that the Contractor establishes to the satisfaction of the Engineer that it is reasonably probable that the Contractor would have made a profit had the Contract been completed and provided further that the profit allowed shall in no event exceed four percent (4%) of the cost.

C. The reasonable cost to the contractor of handling material returned to vendor(s), delivered to the site of the Work or disposed of as directed by the Engineer.

D. A reasonable allowance for the Contractor's administrative costs in determining the amount payable due to the termination of the Contract.

(4) All records of the Contractor and its subcontractors and suppliers necessary to determine compensation in accordance with these provisions shall be retained and open to inspection or audit by representatives of the Board at all times after issuance of the notice that the Contract will be terminated and for a period of three (3) years thereafter.

(5) After its acceptance of the Work, the Board may make payments on the basis of interim estimates pending issuance of the final estimate when, in the opinion of the General Manager, the amount thus paid, together with all amounts previously paid or allowed, will not result in total compensation in excess of that to which the Contractor will be entitled. All payments, including payment of the final estimate, shall be subject to deductions for prior payments and amounts, if any, to be kept or retained under the provisions of the contract.

These provisions shall be included in any subcontracts.

ARTICLE 12 – LAWS, REGULATIONS AND PERMITS

Contractor, at its expense, shall give all notices and (unless otherwise provided herein) obtain all permits for the work required by law, and shall comply with all applicable federal, state and local laws, ordinances, rules, regulations, orders and permit conditions pertaining to the conduct of the work, including but not limited to those regarding protection of the environment. Contractor shall be liable for all violations of the law in connection with work furnished by Contractor. If Contractor observes that any drawings or specifications are at variance with any law or ordinance, rule or regulation, he/she shall promptly notify the Board's authorized representative in writing and any necessary changes shall be made by written instruction or change order. If Contractor performs any work knowing it to be contrary to such laws, ordinances, rules or regulations and without giving notice to the Board's authorized representative, Contractor shall bear all costs arising therefrom.

ARTICLE 13 – SAFETY

Contractor shall execute and maintain its work so as to avoid injury or damage to any person or property. Contractor shall comply with the requirements of the specifications relating to safety measures applicable in particular operations or kinds of work. Contractor shall designate, in writing, a responsible representative at the worksite whose duty shall be the prevention of accidents, and the maintenance and supervision of safety precautions and programs. This person shall be Contractor's Construction Manager unless otherwise designated in writing by Contractor.

In carrying out its work, Contractor shall at all times exercise all necessary precautions for the safety of employees appropriate to the nature of the work and the conditions under which the work is to be performed, and shall comply with all applicable federal, state and local statutory and regulatory requirements including California Department of Industrial Relations (Cal/OSHA) regulations; and the U.S. Department of Transportation Omnibus Transportation Employee Testing Act. Safety precautions, as applicable, shall include but shall not be limited to: adequate life protection and lifesaving equipment; first aid; adequate illumination; instructions in accident prevention for all employees, such as the use of machinery guards, safe walkways, scaffolds, fall protection, ladders, bridges, gang planks, confined space procedures, trenching and shoring, and other safety devices; equipment and wearing apparel as are necessary or lawfully required to prevent accidents, injuries, or illnesses; and adequate facilities for the proper inspection and maintenance of all safety measures. Contractor shall submit its Injury Illness Prevention Plan (IIPP) to the Board for approval prior to commencement of the Work.

If applicable, in accordance with Section 6705 of the California Labor Code, Contractor shall submit to COMB specific plans to show details of provisions for worker protection from caving ground during excavations of trenches of five feet or more in depth. The excavation/trench safety plan shall be submitted to and accepted by COMB prior to starting excavation. The

trench safety plan shall have details showing the design of shoring, bracing, sloping or other provisions to be made for worker protection from the hazard of caving ground. If such a plan varies from the shoring system standards established by the Construction Safety Orders of the California Department of Industrial Relations (Cal/OSHA), the plan shall be prepared by a California registered civil or structural engineer. As part of the plan, a note shall be included stating that the registered civil or structural engineer certifies that the plan complies with the Cal/OSHA Construction Safety Orders, or that the registered civil or structural engineer certifies that the plan is not less effective than the shoring, bracing, sloping or other provisions of the Safety Orders. In no event shall Contractor use a shoring, sloping, or protective system less effective than that required by said Construction Safety Orders. Submission of the plan in no way relieves Contractor of the requirement to maintain safety in all areas. If excavations or trench work requiring a Cal/OSHA permit are to be undertaken, Contractor shall submit his/her permit with the excavation/trench work safety plan to COMB before work begins.

If applicable, Contractor shall also comply with the provisions of California Public Contract Code Section 7104, which pertains to the digging of trenches or other excavations extending deeper than four feet below the surface and the discovery of hazardous waste or subsurface or unknown latent physical conditions differing materially from those ordinarily encountered. The provisions of Section 7104 are incorporated by reference herein as if set forth in full.

Pursuant to California Labor Code Section 6708, each Contractor and subcontractor shall maintain or make available adequate emergency first aid treatment for its employees, agents and representatives, sufficient to comply with the Federal Occupational Safety & Health Act (P.L. 91-596; OSHA). The names and telephone numbers of at least two medical doctors practicing in the vicinity and the telephone number of the local ambulance service shall be prominently displayed adjacent to telephones.

Safety Measures and Public Convenience - Contractor shall provide for the protection of all persons and property as herein specified. Attention is called to "Construction Safety Orders: and General Safety Orders" of the California State Industrial Accident Commission to which Contractor is required by law to conform.

ARTICLE 14 – NO WAIVER

No failure by COMB in asserting any of its rights or remedies as to any default of Contractor shall operate as a waiver of the default, or any subsequent or other default by Contractor, or of any of the Board's rights or remedies. No such delay shall deprive COMB of its right to institute and maintain any actions or proceedings which may be necessary to protect, assert, or enforce any rights or remedies arising out of this Agreement or the performance thereof.

ARTICLE 15 - SEVERABILITY

If any provision of these Contract Documents shall be held void or unenforceable, such determination shall not affect the remaining provisions thereof, which shall continue in valid force and effect.

ARTICLE 16 - INCORPORATION OF APPLICABLE STATUTORY PROVISIONS

The parties agree that all provisions of law which apply to this Contract Agreement form a part of this Contract Agreement, are incorporated by reference herein as if set forth in full, and that Contractor shall comply with all such provisions.

ARTICLE 17 - CHANGES TO LAW

If any changes or modifications to applicable laws governing the Work are not specifically reflected herein, they are hereby deemed adopted and incorporated by reference herein, and shall supersede any provisions to the contrary.

ARTICLE 18 - VENUE

Any proceedings arising out of dispute(s) between the Board and the Contractor as to any provision(s) of this Contract Agreement shall occur within the County of Santa Barbara, State of California.

IN WITNESS WHEREOF, the BOARD and the CONTRACTOR have caused this Agreement to be executed the day and year first written above.

CACHUMA OPERATION &
MAINTENANCE BOARD

CONTRACTOR

By: _____

By: _____

Title: _____

Title: _____

License No.: _____

ATTEST:

ATTEST:

Secretary to the Board of Directors

Approved as to Form:
Musick, Peeler & Garrett LLP

Agent for Service of Process:

By _____
Attorneys for Board

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 28, 2017
Submitted by:	Dave Stewart
Approved by:	Janet Gingras

SUBJECT: **North Portal Slope Stabilization Project**

SUMMARY:

The Lake Cachuma Intake Tower is accessed by a gravel/paved road situated off of State Highway 154 on land owned by Reclamation but managed by COMB. The access road is used by COMB personnel several times a month to maintain the North Portal Intake Tower site, with the periodic use of outside contractors. A right-hand bend exists near the end of the access road which skirts a steep drop off. During the past several years, weather and erosion has significantly destabilized the embankment directly adjacent to that portion of the access road. Staff proposes to realign the road to secure and stabilization. This project is listed as a 90% ranking in the COMB Five-Year Infrastructure Improvement Plan.

In December 2015, the Board approved the Operations Committee recommended contractor, Granite Construction, to complete the North Portal Road stabilization project at a not-to-exceed cost of \$75,000. Since that time, Reclamation conducted an environmental compliance review process (NEPA - CEC) and approved the proposed action in May 2017. One of the criteria stemming from the environmental review was to place extracted material in a location further away from the construction area. This requirement revised the scope of the original proposal from Granite Construction and increased the cost to \$94,710.

The fiscal year 2016-17 carryover funds for this project total \$73,694. Budgeted funds for fiscal year 2017-18 are \$30,000 which equates to total available project funds of \$103,694. Staff is requesting to utilize carryover funds and increase the previous Board approved project construction amount from \$75,000 to \$95,000 to retain the original contractor. No new assessments will be required to fund the project. It is undetermined at this time the extent of the paving needed to complete this project. Staff will assess the need to pave the road once the project has been completed. Attached for Board review is the revised proposal from Granite Construction.

FISCAL IMPACTS:

The total estimated cost of the project is \$105,000 which includes surveying and construction costs. The Fiscal Year 2016-17 adopted budget contains carryover funds of \$73,694 designated for this project. The current Fiscal Year 2017-18 adopted budget contains funds of \$30,000 designated for this project for a total of \$103,694 of approved budgeted funds.

ENVIRONMENTAL COMPLIANCE:

The NEPA process was performed by Reclamation and a categorical exemption (CEC-17-007) was issued on May 19, 2017.

COMMITTEE STATUS:

The Operations Committee meeting scheduled for August 23, 2017 was canceled due to lack of quorum.

RECOMMENDATION:

The Board adopt Resolution No. 645 and approve and authorize:

- 1) Unexpended funds (FY 2016-17) previously approved for this project in the amount of \$73,694 be carried forward for expenditures in Fiscal Year 2017-18.
- 2) The General Manager to execute a contract with Granite Construction Company for construction of the North Portal Slope Stabilization project in an amount not-to-exceed \$95,000.

LIST OF EXHIBITS:

- 1) Resolution No. 645
- 2) Granite Construction Company revised Proposal for the North Portal Slope Stabilization Project.

RESOLUTION NO. 645

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING EXPENDITURES
AND AUTHORIZING CONTRACT EXECUTION FOR THE CONSTRUCTION OF
THE NORTH PORTAL SLOPE STABILIZATION PROJECT**

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

WHEREAS, the Member Agencies of COMB consist of the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District (collectively herein the “South Coast Member Agencies”), and the Santa Ynez River Water Conservation District, Improvement District No. 1 (“ID No. 1”); and

WHEREAS, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract with the United States Bureau of Reclamation, including the North Portal Intake Tower site and the road leading to and from that site; and

WHEREAS, it is necessary for COMB to implement the North Portal Slope Stabilization Project (Project) as outlined in the COMB Five-Year Infrastructure Improvement Plan, and further described in the related staff report, to ensure the continued reliable conveyance of Cachuma Lake Project water through the South Coast Conduit; and

WHEREAS, the Board approved the construction of the Project with Granite Construction Company in December 2015; and

WHEREAS, since that time, Reclamation has performed NEPA compliance and issued CEC-17-007 on May 19, 2017; and

WHEREAS, the Project scope has been updated; staff is forwarding the revised Granite Construction Proposal to the Board with a recommendation to approve and authorize the General Manager to execute a contract in an amount not to exceed \$95,000; and

WHEREAS, it is in the best interest of COMB to enter into said contract;

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

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

2. The Governing Board authorizes the General Manager to execute a contract with Granite Construction Company for the construction of the North Portal Slope Stabilization Project in an amount not to exceed \$95,000.

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

4. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 28th day of August 2017, by the following roll call vote:

Ayes:

Nays:

Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

GRANITE CONSTRUCTION COMPANY
COMB Cachuma Intake Tower Access Road
Summary

Item No.	Description	Total
1	Mob/Demob	5,842
2	Water pollution control plan and measures	3,977
3	Clearing	5,382
4	Excavation to Embankment	74,214
5	Clean-up	5,296
Total Estimated Work at T&M		94,711

GRANITE CONSTRUCTION COMPANY

COMB Cachuma Access Road

ITEM 1- Mobilization/Demobilization

Description of Work: Mob/Demob equipment

LABOR:

Classification	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Foreman (1)	8.0	1.0	\$ 133.00	\$ 165.00	1,229.00
Operator (0)	-	-	\$ 129.00	\$ 160.00	-
Laborer (2)	16.0	-	\$ 104.00	\$ 128.00	1,664.00
Carpenter (0)	-	-	\$ 111.00	\$ 139.00	-
Mason (0)	-	-	\$ 106.00	\$ 128.00	-
Teamster (0)	-	-	\$ 102.00	\$ 123.00	-
SUB-TOTAL LABOR					\$ 2,893.00

EQUIPMENT:

	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Pickup	8.0	1.0	\$ 21.00	\$ 21.00	189.00
Flatrack	-	-	\$ 40.00	\$ 40.00	-
Traffic Truck	-	-	\$ 52.00	\$ 52.00	-
Excavator 330L	-	-	\$ 105.00	\$ 105.00	-
Loader 966	-	-	\$ 96.00	\$ 96.00	-
Dozer D6H	-	-	\$ 132.00	\$ 132.00	-
Watertruck (2000 Gal)	-	-	\$ 60.00	\$ 60.00	-
SUB-TOTAL EQUIPMENT					\$ 189.00

MATERIALS:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
Misc Matl	LS	1.00	\$ -	-	-	-
SUB-TOTAL MATERIALS				\$ -	\$ -	\$ -

SPECIAL SERVICES:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
Pick-up broom	Hrs	-	\$ 170.00	-	-	-
Low-Bed Transport	Hrs	24.0	\$ 100.00	2,400.00	360.00	2,760.00
SUB-TOTAL SERVICES				\$ 2,400.00	\$ 360.00	\$ 2,760.00

TOTAL **\$ 5,842.00**

GRANITE CONSTRUCTION COMPANY
COMB Cachuma Access Road
ITEM 2- Water Pollution Control Program and Measures

Description of Work: WPCP, install/remove WPC measures

LABOR:

Classification	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Foreman (1)	8.0	1.0	\$ 133.00	\$ 165.00	1,229.00
Operator (0)	-	-	\$ 129.00	\$ 160.00	-
Laborer (2)	16.0	-	\$ 104.00	\$ 128.00	1,664.00
Carpenter (0)	-	-	\$ 111.00	\$ 139.00	-
Mason (0)	-	-	\$ 106.00	\$ 128.00	-
Teamster (0)	-	-	\$ 102.00	\$ 123.00	-
SUB-TOTAL LABOR					\$ 2,893.00

EQUIPMENT:

	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Pickup	8.0	1.0	\$ 21.00	\$ 21.00	189.00
Flatrack	8.0	-	\$ 40.00	\$ 40.00	320.00
Traffic Truck	-	-	\$ 52.00	\$ 52.00	-
Excavator 330L	-	-	\$ 105.00	\$ 105.00	-
Loader 966	-	-	\$ 96.00	\$ 96.00	-
Dozer D6H	-	-	\$ 132.00	\$ 132.00	-
Watertruck (2000 Gal)	-	-	\$ 60.00	\$ 60.00	-
SUB-TOTAL EQUIPMENT					\$ 509.00

MATERIALS:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
Misc Matl	LS	1.00	\$ 500.00	500.00	75.00	575.00
SUB-TOTAL MATERIALS				\$ 500.00	\$ 75.00	\$ 575.00

SPECIAL SERVICES:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
Pick-up broom	Hrs	-	\$ 170.00	-	-	-
SUB-TOTAL SERVICES				\$ -	\$ -	\$ -

TOTAL \$ 3,977.00

GRANITE CONSTRUCTION COMPANY

COMB Cachuma Access Road

ITEM 3- Clear Brush

Description of Work: Clear brush to onsite pile

LABOR:

Classification	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Foreman (1)	8.0	1.0	\$ 133.00	\$ 165.00	1,229.00
Operator (1)	8.0	-	\$ 129.00	\$ 160.00	1,032.00
Laborer (2)	16.0	-	\$ 104.00	\$ 128.00	1,664.00
Carpenter (0)	-	-	\$ 111.00	\$ 139.00	-
Mason (0)	-	-	\$ 106.00	\$ 128.00	-
Teamster (0)	-	-	\$ 102.00	\$ 123.00	-
SUB-TOTAL LABOR					\$ 3,925.00

EQUIPMENT:

	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Pickup	8.0	1.0	\$ 21.00	\$ 21.00	189.00
Flatrack	8.0	-	\$ 40.00	\$ 40.00	320.00
Traffic Truck	-	-	\$ 52.00	\$ 52.00	-
Excavator 330L	4.0	-	\$ 105.00	\$ 105.00	420.00
Loader 966	-	-	\$ 96.00	\$ 96.00	-
Dozer D6H	4.0	-	\$ 132.00	\$ 132.00	528.00
Watertruck (2000 Gal)	-	-	\$ 60.00	\$ 60.00	-
SUB-TOTAL EQUIPMENT					\$ 1,457.00

MATERIALS:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
				-	-	-
				-	-	-
				-	-	-
SUB-TOTAL MATERIALS				\$ -	\$ -	\$ -

SPECIAL SERVICES:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
Pick-up broom	Hrs	-	\$ 170.00	-	-	-
SUB-TOTAL SERVICES				\$ -	\$ -	\$ -

TOTAL **\$ 5,382.00**

GRANITE CONSTRUCTION COMPANY

COMB Cachuma Access Road

ITEM 4- Excavation

Description of Work: Excavate Slope

LABOR:

Classification	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Foreman (1)	56.0	7.0	\$ 133.00	\$ 165.00	8,603.00
Operator (3)	168.0	-	\$ 129.00	\$ 160.00	21,672.00
Laborer (2)	112.0	-	\$ 104.00	\$ 128.00	11,648.00
Carpenter (0)	-	-	\$ 111.00	\$ 139.00	-
Mason (0)	-	-	\$ 106.00	\$ 128.00	-
Teamster (0)	-	-	\$ 102.00	\$ 123.00	-
SUB-TOTAL LABOR					\$ 41,923.00

EQUIPMENT:

	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Pickup	56.0	7.0	\$ 21.00	\$ 21.00	1,323.00
Flatrack	56.0	-	\$ 40.00	\$ 40.00	2,240.00
Traffic Truck	-	-	\$ 52.00	\$ 52.00	-
Excavator 330L	56.0	-	\$ 105.00	\$ 105.00	5,880.00
Loader 966	56.0	-	\$ 96.00	\$ 96.00	5,376.00
Dozer D6H	56.0	-	\$ 132.00	\$ 132.00	7,392.00
Watertruck (2000 Gal)	56.0	-	\$ 60.00	\$ 60.00	3,360.00
Artic Truck CAT 735	56.0	-	\$ 120.00	\$ 120.00	6,720.00
SUB-TOTAL EQUIPMENT					\$ 32,291.00

MATERIALS:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
				-	-	-
				-	-	-
				-	-	-
SUB-TOTAL MATERIALS				\$ -	\$ -	\$ -

SPECIAL SERVICES:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
Pick-up broom	Hrs	-	\$ 170.00	-	-	-
SUB-TOTAL SERVICES				\$ -	\$ -	\$ -

TOTAL **\$ 74,214.00**

GRANITE CONSTRUCTION COMPANY

COMB Cachuma Access Road

ITEM 5- Contour grading, clean-up

Description of Work: Contour grade area, clean road

LABOR:

Classification	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Foreman (1)	8.0	1.0	\$ 133.00	\$ 165.00	1,229.00
Operator (1)	8.0	-	\$ 129.00	\$ 160.00	1,032.00
Laborer (1)	8.0	-	\$ 104.00	\$ 128.00	832.00
Carpenter (0)	-	-	\$ 111.00	\$ 139.00	-
Mason (0)	-	-	\$ 106.00	\$ 128.00	-
Teamster (0)	-	-	\$ 102.00	\$ 123.00	-
SUB-TOTAL LABOR					\$ 3,093.00

EQUIPMENT:

	Reg. Hours	O/T Hours	Regular Rate	Overtime Rate	Total
Pickup	8.0	1.0	\$ 21.00	\$ 21.00	189.00
Flatrack	8.0	-	\$ 40.00	\$ 40.00	320.00
Traffic Truck	-	-	\$ 52.00	\$ 52.00	-
Excavator 330L	-	-	\$ 105.00	\$ 105.00	-
Loader 966	4.0	-	\$ 96.00	\$ 96.00	384.00
Dozer D6H	4.0	-	\$ 132.00	\$ 132.00	528.00
Watertruck (2000 Gal)	-	-	\$ 60.00	\$ 60.00	-
SUB-TOTAL EQUIPMENT					\$ 1,421.00

MATERIALS:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
				-	-	-
				-	-	-
				-	-	-
SUB-TOTAL MATERIALS				\$ -	\$ -	\$ -

SPECIAL SERVICES:

Description	U/M	Quantity	Unit Cost	Extended Amount	15% Markup	Total
Pick-up broom	Hrs	4.0	\$ 170.00	680.00	102.00	782.00
SUB-TOTAL SERVICES				\$ 680.00	\$ 102.00	\$ 782.00

TOTAL **\$ 5,296.00**

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 28, 2017
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: **Quiota Creek Crossing 5 Fish Passage Improvement Project**

SUMMARY:

The Quiota Creek Crossing 5 Project open competitive bidding will be solicited by the end of the month with the intent to construct the project starting in September of this year. In anticipation of a short bid evaluation period and the start of construction by the end of September, the following is a description of the project and the needed approvals to move forward with the project in short order. All permits will be acquired before the selected construction contractor initiates the project.

Project description

A 59-foot prefabricated bottomless arched culvert is planned to replace the current concrete low flow crossing at Quiota Creek Crossing 5. The project is being designed to the minimum design standards set by all regulatory agencies. Pending final design approval by Santa Barbara County (County), the project will begin by the end of September and be completed in December of 2017. Final drawings have been submitted to NMFS/CDFW and the County. All funding for this project has been secured from a CDFW-FRGP grant (\$893,287) and a COMB construction match (\$50,000). The funding and project were accepted through Resolution No. 632 by the COMB Board on 5/22/17. During the 6/26/17 Board meeting, the COMB Board approved project expenditures through Resolution No. 633. Final design approval and the Notice to Proceed (NTP) from CDFW-NMFS are anticipated soon. Design approval from the County is expected shortly and full payment of the County Encroachment Permit Fee will be needed before this last pending permit will be issued. COMB's resident engineer for the project will be Gino Filippin of Filippin Engineering who has been approved by the County. The temporary construction Right-of-Entry Agreements from the two landowners within the project boundary have been obtained.

The quote for the ConTech prefabricated bottomless arched culvert (arch) system plus delivery is \$230,485.60 (tax not included) (Exhibit 1). Justification for sole sourcing the bottomless arch system purchase with ConTech is provided (Exhibit 2). The County Encroachment Permit fee of \$30,303 (Exhibit 3) needs to be paid prior to issuance of the permit.

FINANCIAL IMPACT:

COMB has obligated a \$50,000 construction match, \$66,196 for staff time (COMB services), and \$42,630 for operations expenses (independent design review, all permit fees, etc.). The COMB approved budget provides \$930,000 for construction and \$30,000 for design of the project for this fiscal year. Revenues will cover the costs to purchase the ConTech arch system, construct the project, and provide for general operating expenses. Trust Fund and Renewal Fund revenues are also reflected at \$150,000. A summary of the project costs outlined out by Estimated Construction Costs, COMB Budget, Available Revenues/Offsets, Engineer's Estimate and Bid Cap and Bridge Invoice are as follows:

	FY15-16	FY16-17	FY17-18
Estimated Construction Costs			
Construction Estimate			\$886,161
Project Management and Oversight			\$66,196
Operating Expenses			\$99,755
TOTAL:			\$1,052,112
	FY15-16	FY16-17	FY17-18
COMB Budget			
Design (COMB Expended)	\$9,998	\$28,290	
Design (COMB Budget)			\$30,000
Services, Operations and Construction (COMB Budget)			\$930,000
TOTAL:	\$9,998	\$28,290	\$960,000
Available Revenues/Offsets:			
CDFW Grant (operating and construction)			\$893,287
COMB Construction Match			\$50,000
Trust Fund and Renewal Fund			\$150,000
COMB Services Match (offset)			\$66,196
COMB Operating Expenses Match (offset)			\$42,630
TOTAL:			\$1,202,113
	FY15-16	FY16-17	FY17-18
Engineer's Estimates (only)			
Engineer's Construction Estimate			\$886,161
TOTAL:			\$886,161
Bid and Invoice to Date (only)			
Construction Contractor's Bid (cap)			\$650,000
ConTech Invoice for Bridge System (delivery plus 8% tax)			\$248,348
TOTAL:			\$898,348

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

Construction Contractor

The project bid packet will go out within two weeks with anticipation of receiving all bids early in September.

LEGAL CONCURRENCE:

All documents have been reviewed by COMB legal counsel.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

The Fisheries Committee reviewed the Quiota Creek Crossing 5 Fish Passage Improvement Project and forwards the ConTech Engineered Solutions Proposal and the Santa Barbara County encroachment permit invoice to the Board with a recommendation to approve.

RECOMMENDATION:

The Board of Directors approve and authorize:

- a) The General Manager to execute a purchase order for the prefabricated ConTech Engineered Solutions bottomless arched culvert product for Crossing 5.
- b) The General Manager pay the Santa Barbara County Encroachment Permit fee as quoted.

LIST OF EXHIBITS:

1. ConTech Engineered Solutions Quotation for the purchase of the prefabricated bottomless arched culvert for Quiota Creek Crossing 5.
2. Non-Competitively Bid Contract (NCB) justification for the purchase of the ConTech product for Crossing 5, as proposed.
3. Invoice for the Santa Barbara County Encroachment Permit fee assessed for the project.

Quote # QUO-286065-T3H7J2						
Date	8/16/2017	Account Name	Cachuma Operation and Maintenance Board, Inc	Reply-To		
Quote #	QUO-286065-T3H7J2	Contact Name	Tim Robinson	Contech Rep.	Andrew Runk	
Revision #	1	Phone	(805) 687-4011	Address	5670 Greenwood Plaza #530, Greenwood Village, Colorado, 80111	
Project Name	Quiota Creek Crossing 5	Fax		Phone	303-241-8154	
Project #	560491	Email	trobinson@cachuma-board.org	Fax		
Project City/State	Santa Barbara, CA			Email	ARunk@conteches.com	

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

Item #	Description	Pieces	Quantity	Extended Unit Price	Unit	Unit Total
	CONTECH CON/SPAN O-Series 20 LF - 59'-0" Span x 12'-4 3/4" Rise O-1059 Precast Arch Units (5 - 3'-11 3/4" Standard Lay Length Units) 2 - Precast Combination Headwalls (10" Tall x 12" Thick) 3 - Precast Anchor Wingwalls (Per drawing 560491-010) HS25 Vehicular Loading To be placed in concrete strip footings (designed, provided and performed by others)	1.00	1.00	\$230,485.60	EA	\$230,485.60
Total						\$230,485.60
(Tax not included)						Net Total \$230,485.60

Standard Notes

- 1.All orders must be shipped within 30 days of manufacture or a storage charge applies equal to a maximum of 5% per month of the selling price of the stored material.
- 2.Allowable unloading time for delivery trucks is one (1) hour. Demurrage charges of \$75.00 per hour thereafter will be added.
- 3.Construction loadings typically exceed the intended post-construction live load used for design. Contact your Contech representative for specific guidelines and limitations based on the construction live loads anticipated.
- 4.Contech will provide limited engineering design services for the following: the precast structure, backfill and installation requirements, standard details and shop drawing review in accordance with the scope of work below.
- 5.Flexible structures of the type on this project are reliant on the type of structural backfill used, the compaction of that material and the balanced placement of structural backfill. Contact your Contech representative for specific information.
- 6.In addition to any other procedures outlined or remedies provided, at the time of order, Contech will request a desired delivery date for the quoted materials from the purchasing customer. After drawing approval and prior to manufacturing Contech may again confirm the requested delivery date with the purchasing customer. If purchasing customer cannot take delivery of finished materials on requested date, and after Contech has manufactured the product(s), Contech will invoice for the total amount of the order with payment due within 30 days. Additionally, Contech may also assess fees in the amount of 10% of the total order for materials that are not shipped within 30 days after the requested delivery date for storage and handling.
- 7.One or more of the products quoted herein is nonstandard and not returnable. A down payment equal to 1/3 of the item(s) total is required and must be received prior to commencement of any performance by Contech.
- 8.Prices quoted do not include assembly. Some or substantial assembly is required and is the responsibility of Buyer.
- 9.Quotation is based upon estimated (not guaranteed) quantities. Buyer must verify final quantities needed prior to commencement of work by Contech. If Buyer elects to purchase from Seller only a portion of the material quoted, Seller retains the right to adjust its prices.
- 10.Rush orders will be invoiced at 20% over the original prices quoted. Rush orders are those orders that displace the normal manufacturing queue at the plant.
- 11.The estimated manufacturing lead time for this material is 6-8 weeks from the receipt of approved submittal documents.
- 12.The sale of these materials requires a preconstruction meeting be held that must include Contech and all parties directly involved in the construction process.
- 13.This material will be manufactured for this particular project and is not subject to cancellation. See Section 19 of the Contech COS.
- 14.This quotation expires 30 days from the date shown. Prices are firm for shipment within 120 days of the date of quotation and are subject to a maximum escalation of 8% for each 30 days thereafter.
- 15.This quote is based on live off loading ONLY, Staging/Jockeying of trailers can be provided upon request for an additional fee. Cancellation of scheduled delivery loads requiring permits within 48hrs may result in additional permits and will be the responsibility of the purchaser. Specialized haulers and or equipment are utilized in the shipping of bridge components (ie "trailer rental"), costs incurred by CONTECH due to cancellation and or postponement of the delivery of bridge components will be the responsibility of the purchaser.

Quote # QUO-286065-T3H7J2

Scope Of Work

CON/SPAN O-Series

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

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

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

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

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

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

Quote # QUO-286065-T3H7J2

Contech - CONDITIONS OF SALE

1. ACCEPTANCE. This quotation is an offer to sell to potential customer(s). BUYER'S RIGHT TO ACCEPT THIS OFFER IS LIMITED TO BUYER'S ASSENT TO THE TERMS AND CONDITIONS PRINTED HEREON AND THE ATTACHED OR ACCOMPANYING QUOTE, AND NO TERMS ADDITIONAL TO OR DIFFERENT FROM THOSE IN THIS OFFER ARE BINDING ON SELLER. THERE ARE NO UNDERSTANDINGS, TERMS, CONDITIONS OR WARRANTIES NOT FULLY EXPRESSED HEREIN.

2. LIMITED WARRANTIES. Seller warrants that it can convey good title to the products sold under this contract and that they are free of liens and encumbrances. Seller also warrants that the products sold under this contract are substantially free from defects in material and workmanship for a period of one year after the date of delivery. There are no express or implied warranties with respect to products sold hereunder which are misused, abused or used in conjunction with mechanical equipment improperly designed, used or maintained, or which are used, supplied for use or made available for use in any nuclear application of which Seller has not been notified in writing by Buyer at the time of order for the products sold hereunder. SELLER MAKES NO OTHER WARRANTY WHATSOEVER, EXPRESS OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE ARE DISCLAIMED BY SELLER AND EXCLUDED FROM THIS CONTRACT.

3. LIMITATION OF BUYER'S REMEDIES AND SELLER'S LIABILITY. Seller's liability hereunder shall be limited to the obligation to repair or replace only those products proven to have been defective in material or workmanship at the time of delivery, or allow credit, at its option. Seller's total cumulative liability in any way arising from or pertaining to any product or service sold or required to be sold under this contract shall NOT in any case exceed the purchase price paid by Buyer for such products or services. IN NO EVENT SHALL SELLER HAVE ANY LIABILITY FOR COMMERCIAL LOSS, LOST PROFITS, CLAIMS FOR LABOR, OR CONSEQUENTIAL, SPECIAL, PUNITIVE OR INCIDENTAL DAMAGES OF ANY TYPE, WHETHER BUYER'S CLAIM BE BASED IN CONTRACT, TORT, WARRANTY, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE. IT IS EXPRESSLY AGREED THAT BUYER'S REMEDIES EXPRESSED IN THIS PARAGRAPH ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES.

4. LIMITATION OF BUYER'S REMEDIES AND SELLER'S LIABILITY FOR FAILURE OR DELAY IN DELIVERY. NO DELIVERY DATES ARE GUARANTEED. BUYER'S SOLE AND EXCLUSIVE REMEDIES AND SELLER'S ONLY LIABILITY FOR ANY DELAY IN DELIVERY SHALL BE LIMITED AS SET FORTH IN PARAGRAPH 3 OF THIS CONTRACT.

5. FORCE MAJEURE. In any event and in addition to all other limitations stated herein, Seller shall not be liable for any act, omission, result or consequence, including but not limited to any delay in delivery or performance, which is (i) due to any act of God, the performance of any government order, any order bearing priority rating or order placed under any allocation program (mandatory or voluntary) established pursuant to law, local labor shortage, fire, flood or other casualty, governmental regulation or requirement, shortage or failure of raw material, supply, fuel, power or transportation, breakdown of equipment, or any cause beyond Seller's reasonable control whether of similar or dissimilar nature to those above enumerated, or (ii) due to any strike, labor dispute, or difference with workers, regardless of whether or not Seller is capable of settling any such labor problem.

6. BUYER'S OBLIGATION TO PASS ON LIMITATION OR WARRANTIES AND REMEDIES. In order to protect Seller against claims by Buyer's buyer, if Buyer resells any of the products purchased under this agreement, Buyer shall include the language contained in paragraphs 2 and 3 of this agreement, dealing with Seller's limitations of warranties and remedies, in an enforceable agreement with Buyer's buyer, or otherwise include language in an enforceable agreement with its buyer that makes Seller's limitation of warranties and remedies binding on its buyer. Buyer shall also include a provision in its agreement with its buyer applying Ohio law to any claims its buyer might assert against Seller with respect to products manufactured by Seller, and requiring its buyer to bring any such action against Seller either in federal district court in Cincinnati, Ohio or the common pleas court for Butler County, Ohio. Buyer shall defend, indemnify and hold Seller harmless from any and all claims, causes of action, damages, losses or expenses (including reasonable attorneys' fees) that Seller incurs by reason of Buyer's failure to comply with this paragraph.

7. PASSAGE OF TITLE. Title to the products sold hereunder shall pass upon delivery to the carrier at the point of shipment. Neither

Buyer nor the consignee shall have the right to divert or reconsign such shipment to any destination other than specified in the bill of lading without permission of the Seller. Unless otherwise agreed Seller reserves the right to select the mode of transportation.

8. PAYMENTS AND LATE CHARGES ON PAST DUE ACCOUNTS. Buyer represents that Buyer is solvent and can and will pay for the products sold to Buyer in accordance with the terms hereof. If Buyer shall fail to comply with any provision or to make payments in accordance with the terms of this contract or any other contract between Buyer and Seller, Seller may at its option defer shipments or, without waiving any other rights it may have, terminate this contract. All deliveries shall be subject to the approval of Seller's Credit Department. Seller reserves the right, before making any delivery, to require payment in cash or security for payment, and if Buyer fails to comply with such requirement, Seller may terminate this contract. A late charge of 1-1/2% monthly (18% annual rate) or the maximum allowed by state law, if less, will be imposed on all past due accounts, and Buyer is responsible for all costs of collection including without limitation reasonable attorneys' fees and court costs.

9. TRANSPORTATION CHARGES. Delivered prices or prices involving competitive transportation adjustments shall be subject to appropriate adjustment to reflect changes in transportation charges.

10. CLAIMS BY BUYER. Buyer shall thoroughly inspect products sold under this contract immediately upon receipt to verify conformance with the specifications of the contract. Buyer must notify Seller of claims for failure or delay in delivery within 30 days after the scheduled delivery date. Buyer must notify Seller of any claims for nonconforming or defective products within 30 days after the nonconformity or defect was or should have been discovered. In addition, Seller must be given an opportunity to investigate the claim before Buyer disposes of the material, or else Buyer's claim will be barred. Seller shall incur no liability for damage, shortages, or other cause alleged to have occurred or existed at or prior to delivery to the carrier unless the Buyer shall have entered full details thereof on its receipt to the carrier.

11. MECHANICAL PROPERTIES; CHEMICAL ANALYSES. Data referring to mechanical properties or chemical analysis are the result of tests performed on specimens obtained from specific locations of the product(s) in accordance with prescribed sampling procedures; any warranty thereof is limited to the values obtained at such locations and by such procedures. There is no warranty with respect to values of the materials at other locations.

12. PATENTS. Seller shall indemnify Buyer against attorneys' fees and any damages or costs awarded against Buyer in the event any legal proceeding is brought against Buyer by a third person claiming the material delivered hereunder in itself constitutes an infringement of any U.S. patent, provided Buyer gives Seller prompt notice of any such suit being brought, gives Seller the opportunity to defend any such suit, and cooperates with Seller with respect to any such defense; unless the material is made in accordance with material designs, or specifications required by Buyer, in which case Buyer shall similarly indemnify Seller.

13. PERMISSIBLE VARIATIONS. The products sold hereunder shall be subject to Seller's standard manufacturing variations, tolerances and classifications.

14. TECHNICAL ADVICE. Buyer represents that it has made its own independent determination that the products it is purchasing under this contract meet the design requirements of Buyer's project and are suitable for Buyer's intended application. Buyer further represents that it has not relied in any respect on any written or oral statements or advice from Seller, other than the standard product specifications set forth in the most recent addition of Seller's published product brochures, in making that determination.

15. TAXES. No taxes imposed with respect of the sale of the products or services sold hereunder are included in any quotation by Seller. All applicable taxes shall be added and paid by Buyer in addition to the purchase price.

16. BUYER'S RIGHT OF TERMINATION. Buyer may terminate this contract in whole or in part upon notice in writing to Seller. Seller shall thereupon cease work and transfer to Buyer title to all completed and partially completed products and to any raw materials or supplies acquired by Seller especially for the purpose of performing this contract, and Buyer shall pay Seller the sum of the following:

- (1) the contract price for all products which have been completed prior to termination;
- (2) the cost to Seller of the material or work in process as shown on the books of Seller in accordance with the accounting practice

consistently maintained by Seller plus a reasonable profit thereon, but in no event more than the contract price; (3) the cost f.o.b. Seller's plant of materials and supplies acquired especially for the purpose of performing this contract; and (4) reasonable cancellation charges, if any, paid by Seller on account of any commitment(s) made hereunder.

17. SELLER'S RIGHT OF TERMINATION. In addition to the other rights of termination provided for in this contract, and if this contract is made pursuant to any governmental rule or regulation, plan, order or other directive, upon the directive, effected or impaired termination thereof, Seller shall have the option of canceling this contract in whole or in part.

18. WAIVER. Failure or inability of either party to enforce any right hereunder shall not waive any right in respect to any other or future rights or occurrences.

19. DELIVERY. Unless otherwise agreed to in writing by the Seller, the Buyer hereby agrees to take delivery of the materials on this order within the later of thirty (30) days after the wanted date shown on the face of the order or within thirty (30) days after notification, oral or written, that the materials are ready for shipment. In the event that the Buyer does not arrange to take delivery of the materials in accordance with this Contract, Seller, at Seller's option, may:

- (a) invoice the Buyer for the materials less freight if applicable; store the material in Seller's yard for a period not to exceed sixty (60) days from the date of invoice; charge a storage fee not to exceed 5% per month or fraction thereof of the selling price of the stored materials; add any applicable price increases listed on the face of the order; charge for any repair work to protective coatings harmed by weathering while such material is being stored; and charge applicable freight when shipment to the Buyer is made. Materials remaining in storage after sixty (60) days from the invoice date shall become the property of the Seller for disposition at the Seller's discretion. In that event, Buyer shall not be liable for the invoice price of the materials, but shall be liable for the storage fee and any repair work to protective coatings; or
- (b) cancel the order and invoice the Buyer for cancellation charges, which shall be 25% of the selling price of the materials if the materials are standard, in-stock material, or the full selling price if the materials are special or nonstandard in nature and were especially fabricated for the Buyer.

20. PERIOD OF LIMITATIONS. Buyer and Seller agree that any action by Buyer against Seller relating to this contract or the products sold hereunder, including, without limitation, any action for breach of contract or warranty, or otherwise in connection with the products sold under this contract, must be commenced by Buyer against Seller within one year after the cause of action therefore accrues or one year of delivery of the products sold hereunder, if less.

21. CONFLICTING PROVISIONS OFFERED BY BUYER. Any terms and conditions of any purchase order or other instrument issued by the Buyer, in connection with the subject matter of this document, which are in addition to or inconsistent with the terms and conditions expressed herein, will not be binding on Seller in any matter whatsoever unless accepted by Seller in writing.

22. SEVERABILITY. In case any provision of this contract shall be declared invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired.

23. APPLICABLE LAW. This contract shall be governed by, and construed and enforced in accordance with, the laws of Ohio. Buyer and Seller specifically agree that any legal action brought relating to this contract shall be brought and tried exclusively in the federal district court in Cincinnati, Ohio, or, in the absence of jurisdiction, the Butler County Court of Common Pleas in Hamilton, Ohio.

REV. 03/15

Quiota Creek Crossing 5 Project

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

To: Cachuma Operation and Maintenance Board

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

Contract: Procurement of a prefabricated ConTech bottomless arch culvert bridge system for the Quiota Creek Crossing 5 Project as required by the project design.

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

A. Factors of Consideration

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

ConTech is the sole vendor for the required 59 foot bottomless arched culvert (arch) system (O-Series) that meets the design criteria for the Quiota Creek Crossing 5 project. In short, there are no other suppliers/vendors that provide the same product, design specifications, and price that are required for the project.

Factors determining that conclusion are as follows:

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

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

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

more than the selected and superior Contech arch system. Also this system is not as esthetic in the eyes of the landowners.

Hence, the required flow conveyance, design, height, span length, minimum load capacity, cost, proximity of the fabricator, and esthetics make the ConTech product unique for the required arch system on Quiota Creek, specifically at Crossing 5.

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

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

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

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

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

our designs so that we propose projects with products that are acceptable to the County standards and design criteria.

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



B. Price Analysis

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

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

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

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

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

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

Invoice Date: 7/31/2017
 Permit No.: D0190092

PERMITTEE:

Attn: Tim Robinson-COMB
 Cachuma Operation & Maintenance Board
 3301 LAUREL CANYON ROAD
 Santa Barbara, CA 93105

Amount Enclosed: _____

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

Location: 0 REFUGIO RD, Santa Ynez

Permit Fees:	
	Issuance Fee: <u>\$68.00</u>
	Road Closure Fee <u>\$1,235.00</u>
	Dev. Plan Check Review Deposit <u>\$10,000.00</u>
	Dev. Inspect Oversight & Admin. Deposit <u>\$17,000.00</u>
	Dev. Inspect Final Reports <u>\$2,000.00</u>
TOTAL FEES: \$30,303.00	
Balance Due: \$30,303.00	

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

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

DUPLICATE INVOICE: ONE for REMITTANCE, ONE for PERMITTEE



Mission Statement:

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

August 28, 2017

General Manager Report

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

Meetings

- Burned Area Emergency Response (BAER) Team Cooperators Meeting

A Burned Area Emergency Response (BAER) Team Cooperators meeting was conducted by Los Padres National Forest Service personnel and held on July 27th with a follow-up meeting proceeding on August 3rd in relation to the effects of the Whittier Fire. The meetings were scheduled to provide insight, information and overview of the U.S. Forest Service BAER team processes and deliverables, roles and responsibilities of cooperating agencies, actions, timeframes, and preliminary findings and discussion. The meetings were well attended with representatives from CalOES, local water purveyors, the Parent District, Santa Barbara County Water Agency, CalTrans, USBR, and the National Resources Conservation Service (NRCS) participating in the discussion.

- Cachuma Project Member Agency Manager Meeting

The Cachuma Project Member Agency Managers meeting is hosted monthly by the Santa Barbara County Water Agency and was held on Thursday, August 10, 2017. The agenda topics included discussions primarily regarding the Master Contract Renewal process and contract topics, downstream releases, the Whittier Fire and the cloud seeding program. The next meeting will be held in early September for continued discussion on these topics.

U.S. Bureau of Reclamation Activities

The Bureau of Reclamation began releases from Bradbury Dam on Monday, August 21, 2017 in connection with the Santa Ynez River Water Conservations Districts' request for downstream water rights releases. The releases provide water to recharge the groundwater basins along the Santa Ynez River downstream of the Dam and in the Lompoc Plain. Initially, the releases are scheduled to be about 300 AF per day with a diminishing flow once water reaches the Lompoc area. The releases are expected to continue for about three months with approximately 16,000 acre-feet of water to be released during this time.

In anticipation of the upcoming releases, Reclamation tested the Hilton Creek Watering System (HCWS) (located in the lake) and the recently replaced Bradbury Dam outlet works 30" cone valve to ensure adequate operational function. Reclamation plans to supply water to Hilton Creek through the HCWS during the water rights release in order to enable greater deliveries of state water through the penstock.

Administration Division

- 2018 Cachuma Project Water Rates

The 2018 Cachuma Project Water Rates have been received from Reclamation and have increased as compared to previous years' water rates. The water rates are calculated based on projected reimbursable annual operation and maintenance (O&M) costs divided by projected water deliveries for the year. Annual O&M costs for the Cachuma Project are projected by the Fresno Area Office and provided to the rate-setting branch within the Financial Management division (Sacramento). The water delivery projections are based on the delivery schedule that is supplied by the Member Agencies and submitted to Reclamation.

Staff is in contact with Reclamation (Regional Branch) to discuss the basis for the increased rates and obtain supporting documentation regarding the affiliated projections and expenditures. Staff will be meeting with the Member Agency General Managers to relay information received from the Bureau.

Operations Division

- Request For Proposals for Lake Cachuma Bathymetric Survey

A request for proposal (RFP) was submitted to four (3) consulting firms to obtain proposals related to conducting a bathymetric survey for Lake Cachuma. The RFP requested a submission deadline of September 15, 2017. Staff will bring the proposals forward to the Operations Committee for review prior to presentation to the Board.

- CalOES Approval of Public Assistance – February 2017 Storms

The California Governor's Office of Emergency Services informed COMB that the recent request for public assistance for the February 2017 storms has been approved by the Federal Emergency Management Agency (FEMA). Staff applied for funding as a result of the storms causing the South Coast Conduit pipeline exposure in the Sycamore Canyon slide area and is currently working through the process with FEMA representatives. FEMA has indicated participation on reimbursement would occur to the extent of pre-storm conditions. The scope of work and approach on this project has expanded since last report. Operations personnel will be securing the site for the winter while seeking proposals from engineering firms to determine an appropriate design and approach for the permanent project.

- Operations Monthly meetings w/Member Agencies

Operations staff is discussing schedule with the Member Agencies technical staff to commence a bi-monthly operations meeting to share information and discuss topics of mutual interest.

Fisheries Division

- Oak Tree Program

Watering crews continue to focus on the newer age classes of oak trees (Years 8 & 9). Fisheries Division staff will soon be collecting acorns (coast live and valley oak) for development at Manzanita nursery. With an above average rain year, the mature oak trees in the Santa Ynez Valley appear to be producing a healthy crop of acorns this year.

- Snorkel Surveys

The Fisheries Division staff has been conducting pre WR-89-18 release snorkel surveys within the LSYSR main-stem. Now that the HCWS has been turned on at the Upper Release Point at Hilton Creek, visibility has improved, so personnel will be conducting a full snorkel survey within Hilton Creek next week.

- Thermographs

Staff recently programmed all temperature, dissolved oxygen and pressure transducer devices within the LSYSR main-stem to collect 5-minute data (vs. hourly). This shorter time stamp allows for better resolution of WR 89-18 Release impacts as flows make their way downstream.

- Hilton Creek flows

On August 10, 2017, Reclamation successfully turned on Pump #1 of the Hilton Creek Watering System (HCWS) to the upper release point (URP) and flows continue to date. On August 15th, Reclamation tested whether or not gravity flows through the Hilton Creek Emergency Backup System (HCEBS) would sustain while the 30" cone valves were opened. Gravity flows, although slightly lower, sustained through the lower release point (LRP) during testing. On August 21st, the WR 89-18 release commenced and Reclamation began a 2-day ramp-down procedure of the HCEBS gravity flow through the LRP. Hilton Creek flows are now being provided only by the HCWS through the URP.

- Stilling Basin

The Fisheries Division began the stilling basin fish removal and dispatch effort on July 26th and ended seining on August 3rd. Although a highly successful operation, the stilling basin was not completely dewatered, leaving approximately 2-3 feet of water depth prior to the commencement of 89-18 releases.

Respectfully Submitted,

Janet Gingras

General Manager

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: August 28, 2017
TO: Janet Gingras, General Manager
FROM: Dave Stewart, Operations Division Manager
RE: **MONTHLY OPERATIONS DIVISION REPORT**

Operations

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

Lake Cachuma Operations

The total flow from Lake Cachuma into the Tecolote Tunnel for July was 2,116.7 acre-feet, for an average daily flow of 68.28 acre-feet. Lake elevation was 714.07 feet at the beginning of the month and 712.96 feet at the end. Storage change decreased -2110 acre-feet. CCWA wheeled 1141.7 acre-feet of water to Cachuma Project facilities.

Operation and Maintenance Activities

COMB Staff regularly performs the following duties:

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

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

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

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

Weekly Safety Meetings:

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

- ✓ Emergency Action Plan (EAP) Revisions – Updated the EAP and reviewed revisions.
- ✓ Safety Glasses – Discussed dangers of working without eye protection. Reviewed proper use, locations to find them and when to replace them.
- ✓ Fire Prevention – OSHA Training toolbox talk. Tips for preventing accidental fires.

COMB Operations Staff specifically performed the following activities:

- Staff has been on site monitoring several ongoing projects throughout the area. Working closely with the construction and engineering contractors to ensure that:
 - Pipeline easements and right-of-ways remain accessible to operations staff for possible emergency's and ongoing facility maintenance.
 - All projects are following the COMB and USBR approved plans.
 - No damage occurs to the South Coast Conduit during the construction process.
- Continued the annual structure maintenance program on the upper reach section of the South Coast Conduit. This month staff has completed maintenance on all remaining structures on the raw water section.

Included in the program is:

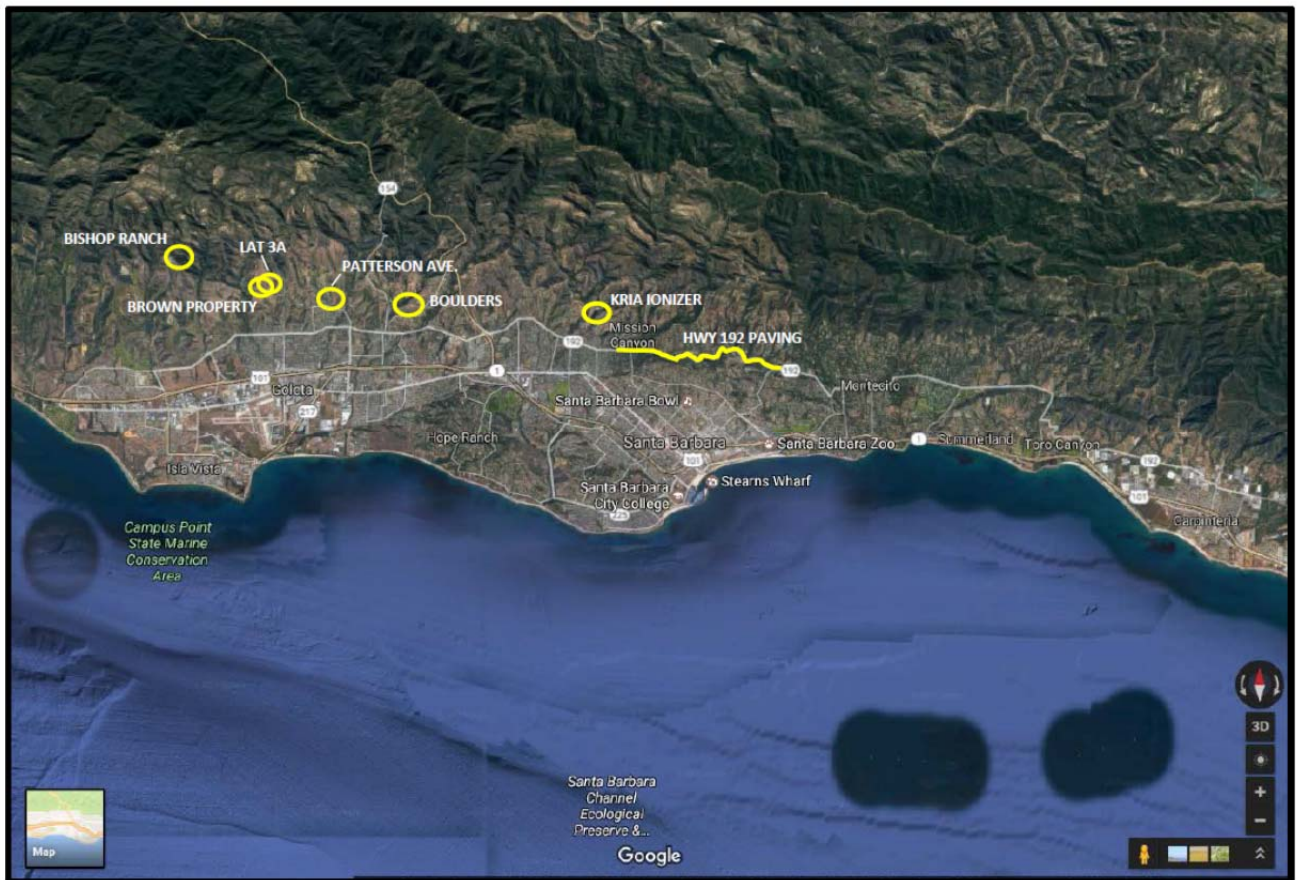
- Improved site access
- Inspection of all air vents, blow off and turn-out structure. Checking condition of all associated equipment.
- Exercising of all appropriate valves or apparatuses.
- Cleaning of the structure and surrounding site.
- Applying fresh paint and signage.

- Met with Member Agencies technical staff to discuss the Whittier fire and potential impacts of winter storms at the North Portal and Intake Tower areas.
- Assisted the Fisheries Division in the dewatering of the Bradbury stilling basin with continued monitoring of the pump generator fuel levels and removal of invasive species.
- Removed brush and vegetation from the Lauro Reservoir dam face and spill way.
- Cleaning of the North Portal Intake Tower debris and fish screens.
- Exercised North Portal Intake Tower slide gates.
- Monthly water sampling for the City of Santa Barbara.
- Operations department continually inspects all sites, reservoirs, and the South Coast Conduit for items to add to the IIP for future projects.

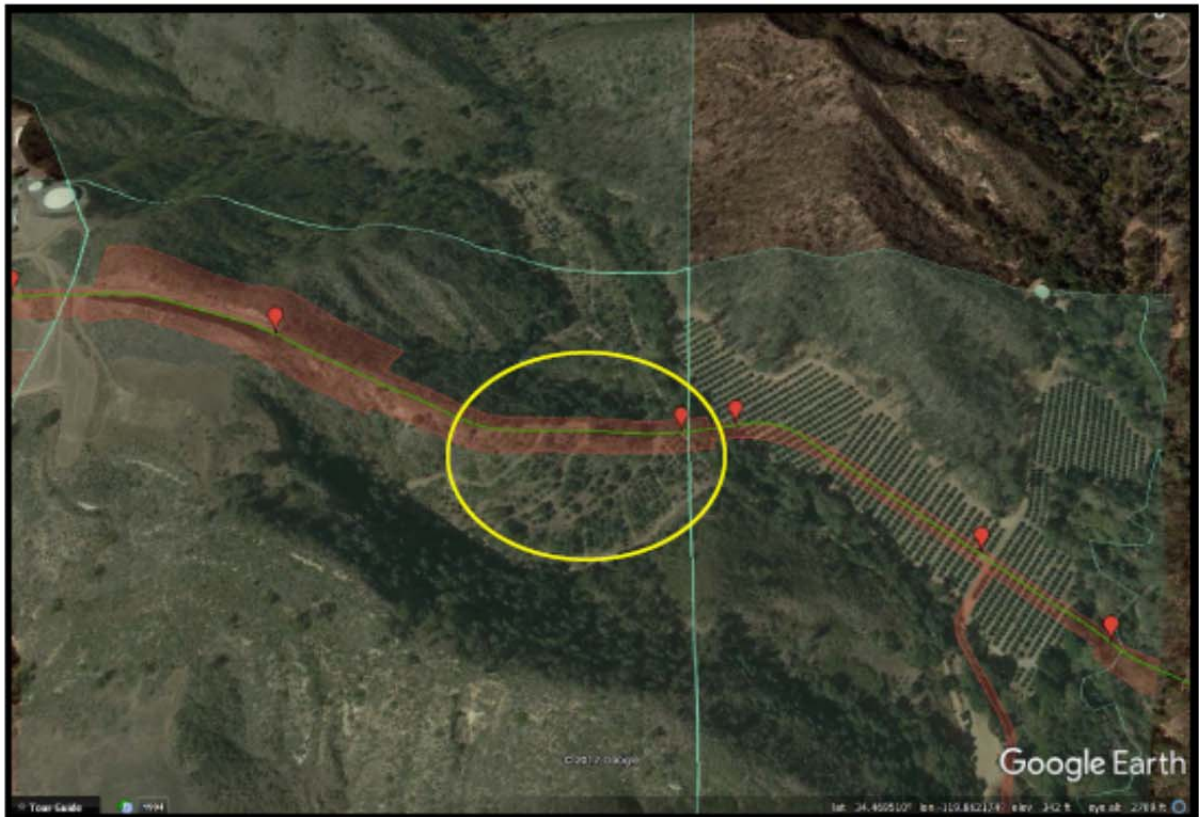
Current IIP projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation & Replacement
- North Portal Access Road
- Sycamore Canyon Slide Repair
- Lateral #3 Replacement Project

CURRENT PROJECTS WITHIN THE EASMENT



BISHOP RANCH



- Removal and replanting of avocado orchard.

BROWN PROPERTY



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

LAT 3A



- Remove abandoned turnout and reconfigure blow-off structure.

PATTERSON AVE.



- Patterson Oaks subdivision.

BOULDERS PROJECT



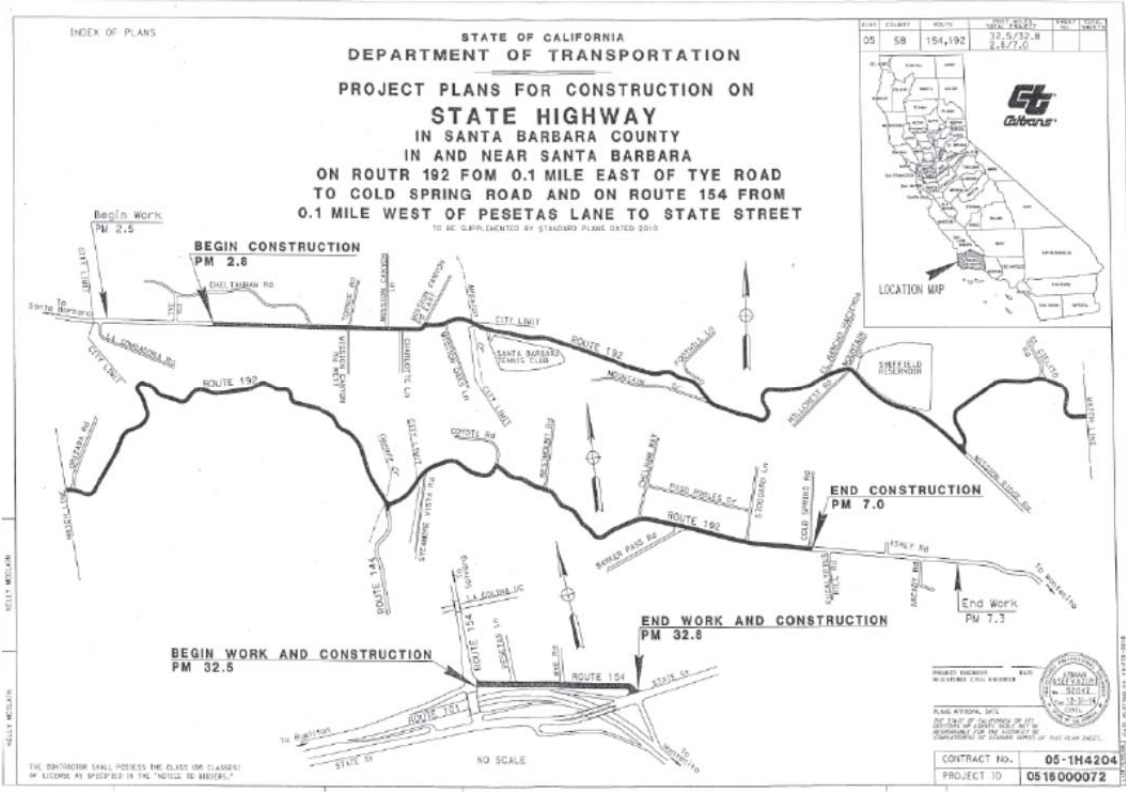
- Boulders subdivision.

KRIA IONIZER



-
- Installation of KRIA Ionizer at Lauro Reservoir

HWY 192 PAVING PROJECT



- Caltrans paving project

PHOTOS

Fish Screen Cleaning

Before



After



Structure Maintenance (Air Vent Exercise)



CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: August 28, 2017
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: **MONTHLY FISHERIES DIVISION REPORT**

HIGHLIGHTS:

- USBR continues to deliver over 2 cfs to Hilton Creek - some at the Lower Release Point through the Hilton Creek Emergency Backup System by gravity and recently through the Hilton Creek Watering System by pump. This rate of flow is meeting BiOp target flows for Hilton Creek and sustaining the *O. mykiss* population in the creek.
- The Stilling Basin dewatering and fish removal effort has been completed.
- The 2017 WR 89-18 release were started on 8/21/17.
- All the permits for the Quiota Creek Crossing 5 Project have been submitted.

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

LSYR Steelhead Monitoring Elements:

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

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

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

Hilton Creek Releases for the Fishery: On 3/23/17, USBR switched the flow delivery system to Hilton Creek from the small submersible pump on the south side of the Stilling Basin to gravity flow from the Hilton Creek Emergency Backup System (HCEBS). The flow rate was approximately 2.0 cfs and was being delivered mostly to the Lower Release Point (LRP) with trickle flow to the Upper Release Point (URP). On 8/11/17, Reclamation activated the Hilton Creek Watering System (HCWS) to pump 3.5 cfs to the URP. Gravity flow through the HCEBS continued until 8/22/17 when it was shut off to allow for CCWA water to be delivered to Lake Cachuma through the Penstock. Currently approximately 3.5 cfs is being provided to Hilton Creek, all through the HCWS by pump.

Stilling Basin Dewatering and Fish Removal: As requested by USBR, the Stilling Basin directly downstream of Bradbury Dam was mostly dewatered to allow for removal by seining of non-native fish in that habitat. The project took 6 weeks and was successful but the habitat could not be completely dewatered and, as a result, some non-native fish did remain. NMFS and Reclamation participated in the action and were very appreciative of the level of effort by COMB staff.

WR 89-18 Release Monitoring: BiOp required monitoring for the WR 89-18 releases started prior to the release as requested by USBR and will continue until after the releases are stopped. WR 89-18 releases began on 8/21/17 after 8 AM and are conducted by the Santa Ynez River Water Conservation District in collaboration with USBR. As requested by USBR and approved by NMFS, migrant trapping is being conducted at one location (just downstream of the Long Pool of the Lower Santa Ynez River mainstem) for the first approximately two weeks of the release. As of 8/24/17, no fish of any type have been caught in the trap.

Tributary Project Updates:

Quiota Creek Crossing 5: As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. COMB was awarded the grant and the project will hopefully be built during the fall of this year. All permits for the project have been submitted with the idea of constructing the project in the fall of this year.

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. A Professional Service Agreement (PSA) for COMB with the County to manage the project was approved by the Board during the 3/27/17 Board meeting and was fully executed on 5/16/17. The Request for Authorization (RFA) has been sent by the County to Caltrans to begin grant expenditures and expect approval of the RFA soon. We have been working on the Requests for Proposals (RFP) to hire a consultant for design, environmental and right-of-way tasks. We hope to finalize the RFP shortly and initiate the search for a consultant to be secured in August of this year. A field review meeting with Caltrans is expected within the next month with the objective of setting the design criteria. Pending the above, the project would be built in the fall of 2018.

Quiota Creek Crossing 9: Staff submitted a CDFW-FRGP grant proposal for this project on 4/26/17 as approved by the Board during the 4/24/17 meeting. The grant is for \$993,121 with

a \$50,000 construction match. The announcement of grant recipients will happen in the winter of 2018.

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

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

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

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

Surcharge Water Accounting

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

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

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	0	3,200
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		15,538	
Total:	9,184	21,171	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 7/31/17.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

Reporting / Outreach / Training

Reporting: Staff continues to work on the Annual Monitoring Reports. Staff has been providing information to USBR as requested in support of Adaptive Management Committee meetings, Reconsultation, and other operational requests.

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

Consultant Activity Summary:

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

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

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 28, 2017
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

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

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2017 to the present (1/1/17 – 8/28/17, Table 1). Labor and expenses for the entire fiscal year (July 2017 - June 2018) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16, which sets the mitigation number for the program. The 2016 Annual Inventory and Fiscal Year 2016-2017 Financial Report has been completed and reviewed by the Lake Cachuma Oak Tree Committee during their 8/9/17 meeting. The directives for the coming year fiscal year will be presented by the Committee chairperson.

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

	Jan 2017*	Feb 2017*	March 2017*	April 2017**	May 2017**	June 2017	July 2017	Aug 2017
Year 9 Oaks (2016-2017)		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 Weeded	Irrigated Weeded	Irrigated Weeded
Year 8 Oaks (2015-2016)		Weeded		Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded
Year 7 Oaks (2014-2015)				Weeded Mulched		Irrigated Weeded		
Year 6 Oaks (2010-2011)						Irrigated Weeded		
Year 5 Oaks (2009-2010)						Irrigated Weeded		
Year 4 Oaks (2008-2009)								
Year 3 Oaks (2007-2008)								
Year 2 Oaks (2006-2007)								
Year 1 Oaks (2005-2006)								

* Annual Oak Tree Inventory

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

Personnel are finishing a third round of watering on the Year 7, Year 8 and Year 9 trees. During the watering process, weeding is being conducted.

With an above average rain year, the mature oak trees in the Santa Ynez Valley appear to be producing a healthy crop of acorns. Over the next several weeks the Fisheries Division will be collecting acorns for propagation at Manzanita Nursery.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

N/A

CACHUMA OPERATION AND MAINTENANCE BOARD

METERED USE REPORT FOR JULY 2017

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		396.04	18+62	G. WEST	123.87
Boundary Meter - West		(0.05)	78+00	Corona Del Mar FILTER Plant	872.99
			122+20	STOW RANCH	0.00
				Bishop Ranch (Wynmark)(Water Rights)	0.00
				Raytheon (SWP) (Warren Act Contract)	(4.00)
				Morehart (SWP) (Warren Act Contract)	(6.00)
				SWP CREDIT (Warren Act Contract)	(849.56)
			TOTAL		137.30
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	74.74
			386+65	MWD YARD	48.06
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	168.39
			510+95	MWD PUMP (SWD)	15.54
			510+95	ORTEGA CONTROL	3.31
			526+43	ASEGRA RD	8.66
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	1.91
				SWP CREDIT (Warren Act Contract)	(320.60)
			TOTAL		0.00
			CITY OF SANTA BARBARA		
			CATER	INFLOW	1638.09
			Gibraltar	PENSTOCK	(549.16) (*)
			CATER	SO. FLOW	(963.85)
			Sheffield	SHEF.LIFT	195.87
				SWP (Warren Act)	(246.50)
				La Cumbre Mutual SWP (Warren Act)	(74.44)
			TOTAL		(0.00)
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		3.19
			TOTAL		3.19
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		1151.00
			STATE WATER TO SOUTH COAST (including from storage)		(1828.20)
			BISHOP RANCH DIVERSION		0.00
			METERED DIVERSION		209.37
SWP CREDIT (Warren Act Contract) (327.10) TOTAL 68.89					
Note: Meter reads were taken on: 7/31/2017					

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

16-17 CACHUMA PROJECT ALLOCATION

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

(All in rounded Acre Feet)

	MONTH	WYTD
WATER PRODUCTION:		
Cachuma Lake (Tec. Diversion)	2,117	10,519
Tecolote Tunnel Infiltration	66	819
Cachuma Lake (County Park)	3	21
Subtotal	<u>2,186</u>	<u>11,359</u>
WATER DELIVERIES:		
State Water Diversion	1,828	9,344
Cachuma Diversion	209	1,410
So. Coast Storage gain/(loss)	94	244
Subtotal	<u>2,132</u>	<u>10,997</u>
Total Water Production	2,186	11,359
Total Water Deliveries	<u>2,132</u>	<u>10,997</u>
Difference = Apparent Water Loss	54	361
% Apparent Water Loss	2.48%	3.18%

APPARENT WATER LOSS ALLOCATION

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
M&I	0	0	0	2	0	2
Agriculture	0	0	0	1	0	1
Subtotal Cachuma Project	0	0	0	3	0	3
(+) State Water Project	3	24	12	12	0	51
Total	3	24	12	15	0	54
WATER YEAR-TO-DATE						
M&I	0	21	10	2	0	33
Agriculture	0	0	0	1	0	1
Subtotal Cachuma Project	0	21	10	3	0	34
(+) State Water Project	14	129	86	98	0	327
Total	14	150	96	101	0	361

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	102	0	0	29	3	134
Agricultural	36	0	0	39	0	75
Subtotal Project Water Use	137	0	0	69	3	209
(+) Apparent Water Loss	0	0	0	3	0	3
(+) Evaporative Loss	11	0	0	0	0	11
Total Project Water Charge	149	0	0	71	3	223
WATER YEAR-TO-DATE						
Water Usage						
M&I	102	1,094	282	29	21	1528
Agricultural	36	0	52	39	0	127
Subtotal Project Water Use	137	1,094	334	69	21	1655
(+) Apparent Water Loss	0	21	10	3	0	34
(+) Evaporative Loss	153	124	33	0	6	316
Total Project Water Charge (*)	291	1,239	377	71	27	2,005
(*) Project Water Charge is applied first to Carryover Water balance and then to Current Year Water Allocation						

16-17 CACHUMA PROJECT ALLOCATION

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

(All in rounded Acre Feet)

CACHUMA PROJECT WATER BALANCE AS OF JULY 2017

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
Project Water Carryover - 10/1/2016	561	1,239	377	0	24	2,201
(-) Project Water Charge (WYTD)	291	1,239	377	0	24	1,931
Balance Carryover Water	270	0	0	0	0	270
Current Year Allocation ***	3,729	3,311	1,060	1,125	1,060	10,285
(-) Balance of Project Water Charge (WYTD)	0	0	0	71	3	75
Net Allocation Available Before Adjustments	3,729	3,311	1,060	1,054	1,057	10,211
Adjustments to Net Allocation (WYTD)						
Carryover Balances Spilled	0	0	0	0	0	0
Surplus^^	0	0	0	0	0	0
State Water Exchange^	252	168	168	110	(698)	0
Transfers/Adjustment ****	0	0	0	0	0	0
Passthrough H2O**	0	0	0	0	0	0
Balance Current Year Allocation	3,981	3,479	1,228	1,164	359	10,211
Total Cachuma Project Water Available	4,251	3,479	1,228	1,164	359	10,481

Footnotes

*** Per USBR, 40% Allocation to Member Agencies, effective 4/1/17

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

* Water Year = October 1 through September 30

/ State Water Deliveries to Lake Cachuma for July (Total =1151 AF): MWD 254 AF; CVWD 165 AF
GWD 383 AF (Morehart 6 AF); City of S.B. 255 AF; and LaCumbre 84 AF; (Ratheon 4 AF)

^ Per SWP Exchange Agrmt GWD received 83 AF; MWD received 55 AF; City of SB received 55 AF;
and CVWD received 36 AF from ID#1 in July 2017.

Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.

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

	Lauro & Cater Loss (LE + CTPL)	Ortega Toe Drain (OTD)	Use Area 1	Use Area 2	Use Area 3	Use Area 4	Total (AF)	Rounded Total (AF)
GWD	0.3	0.0	1.5	1.1	0.0	0.0	2.9	3
City	4.4	0.0	1.6	17.3	0.5	0.0	23.8	24
MWD	1.2	0.5	0.4	4.8	0.8	4.5	12.3	12
CVWD	1.5	0.5	0.6	6.0	1.0	5.5	15.1	15
Total	7.4	1.0	4.1	29.2	2.3	10.0	54.0	54

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **July 2017**

GLEN ANNIE RESERVOIR

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

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	551.10	Feet
Water in Storage	639.07	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	447.00	Feet
Water in Storage	19.56	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	377.00	Feet
Water in Storage	27.95	AF

TOTAL STORAGE IN RESERVOIRS

	686.58	AF
Change in Storage	94.74	AF

CACHUMA RESERVOIR*

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

Stage of Reservoir Elevation	712.96	Feet
Water in Storage	94,727	AF
Surface Area	1,901	
Evaporation	1,895.0	AF
Inflow	856.8	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	116.0	AF
Outlet	0.0	AF
Spill/Seismic Release	0	AF
State Water Project Water	1141.7	AF
Change in Storage	-2,129	AF
Tecolote Diversion	2,116.7	AF

Rainfall:	Month:	0.00	Season:	0	Percent of Normal:	0%
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COMB STATE WATER PROJECT ACCOUNTING - SOUTH COAST ONLY (Does not include SYRWCD, ID#1 or exchange water)

MONTH	DELVRD TO LAKE	Delvd to Lake	CVWD Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	MWD Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	S.B. Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	GWD Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	LCMWC Stored	Delvd to SC	Evap / Spill	Delvd to Lake	RSYS Stored	Delvd to SC	Delvd to Lake	MLC Stored	Delvd to SC
2016																															
Bal. Frwd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0	0
January	653	54	38	16	0	0	0	0	0	0	0	367	0	367	0	0	200	136	64	0	0	30	160	10	0	0	0	0	2	0	2
February	693	0	36	0	0	2	125	0	125	0	0	366	0	366	0	0	200	130	197	0	8	0	153	6	1	0	0	0	2	0	2
March	965	0	33	0	0	3	0	0	0	0	0	367	0	367	0	0	596	523	192	1	10	0	138	14	0	0	0	2	0	2	
April	1283	0	0	29	0	4	0	0	0	0	0	677	178	476	24	0	600	696	357	5	65	0	87	49	2	3	0	3	0	3	
May	1309	0	0	0	0	0	0	0	0	0	0	522	155	492	24	28	783	958	405	5	111	0	35	44	8	1	0	1	3	0	3
June	1261	0	0	0	0	0	0	0	0	0	0	466	112	463	26	20	700	982	551	4	121	85	0	85	0	5	0	5	0	5	
July	1342	100	0	100	0	0	0	0	0	0	0	541	75	534	28	17	600	923	513	5	141	91	52	39	0	3	0	3	7	0	7
August	1372	135	135	0	0	0	0	0	0	0	0	549	615	0	0	9	600	869	541	4	109	80	51	75	6	3	0	3	5	0	5
September	1310	225	246	96	4	14	250	0	240	10	0	311	1035	0	0	62	460	517	552	2	87	60	55	51	5	0	0	4	0	4	
October	1400	180	291	112	7	16	350	268	77	5	0	321	1289	0	0	68	511	438	554	2	34	35	70	17	3	0	0	0	3	0	3
November	1369	150	401	24	0	16	328	533	48	0	15	352	1598	0	0	71	490	529	347	0	24	45	60	53	3	2	0	2	2	0	2
December	1470	111	504	0	1	7	403	809	112	5	10	603	2098	84	2	28	338	747	99	1	10	0	0	21	1	12	11	1	3	1	2
Total	14427	955	504	377	4	62	1456	809	602	20	25	5442	2098	3148	104	302	6078	747	4374	29	719	426	0	465	28	29	11	18.42	41	1	40

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)

MONTH	DELVRD TO LAKE	Delvd to Lake	CVWD Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	MWD Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	S.B. Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	GWD Stored	Delvd to SC	Loss	Evap / Spill	Delvd to Lake	LCMWC Stored	Delvd to SC	Evap / Spill	Delvd to Lake	RSYS Stored	Delvd to SC	Delvd to Lake	MLC Stored	Delvd to SC
2017																															
Bal. Frwd	0	0	504	0	0	0	0	809	0	0	0	0	2098	0	0	0	0	747	0	0	0	0	0	0	0	0	11	0	0	1	0
January	1437	219	720	0	1	2	357	1102	58	3	3	357	2179	273	4	8	467	1144	58	0	3	35	23	10	2	0	11	0	2	1	2
February	1250	196	809	96	4	7	296	1361	25	2	10	296	2252	197	5	21	445	1528	50	0	11	15	7	29	2	0	11	0	2	1	2
March	990	135	753	180	4	7	226	1498	76	2	12	226	2340	112	7	20	339	1664	190	0	13	59	33	34	0	4	11	4	1	1	
April	634	96	686	134	17	11	144	1417	180	23	22	144	2218	210	21	35	217	1286	567	3	25	29	6	55	1	3	11	3	1	1	
May	1165	168	429	372	39	14	258	1392	229	24	29	258	2301	80	49	46	388	1124	520	3	27	86	29	63	0	4	12	3	3	0	4
June	1026	153	182	377	13	10	230	1286	293	10	33	230	2208	252	17	55	345	483	958	2	27	60	54	34	1	4	12	4	4	0	4
July	1151	165	3	327	12	5	254	1174	321	12	34	255	2134	247	24	58	383	0	850	3	13	84	62	74	1	4	12	4	6	0	6
August	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	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	0	0	0
October	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	0	0
November	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	0	0
December	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	0	0
Total	7653	1132	3	1486	90	56	1765	1174	1181	76	143	1766	2134	1371	127	243	2584	0	3192	11	117	368	62	299	7	19	12	18	19	0	20

Notes: Total SC Storage at month end (AF): 3311 Total Storage at month end (AF): 3385
 January 2017 - GWD transferred 10.18 AF SWP water to City of SB per overlap agreement (monthly reconciliation)(USBR Daily Ops Reservoir storage 1/31/2017 - 24,867 AF)

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

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

Contract Entity: **Carpinteria Valley Water District**
 Last updated by C.O.M.B. 07/31/17

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

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

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

TOTAL 1,164

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

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

Contract Entity: **Goleta Water District**
 Last updated by **C.O.M.B. 07/31/17**

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT			
			Acre-feet			Acre-feet			Allocation		Acre-feet		
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	561	0	0	0	37	0	37	0	37	0	0	0
Nov			0	0	0	38	0	38	0	29	0	0	0
Dec			0	0	0	30	0	30	0	9	0	0	0
Jan			0	0	0	2	0	2	0	2	0	0	0
Feb			0	0	0	5	0	5	0	5	0	0	0
Mar			0	0	0	4	0	4	0	5	0	0	0
Apr	3729		0	0	0	7	0	7	0	7	0	0	0
May			0	0	0	9	0	9	0	10	0	0	0
Jun			0	0	0	10	0	10	0	10	0	0	0
Jul			102	36	137	11	137	148	110	39	0	0	0
Aug													
Sep													
Total	3729	561	102	36	137	153	137	291	110	153	0	0	0

CONVERSIONS					
STORAGE WATER			CURRENT SCHEDULE		
M & I	Agr		M & I	Agr	Month
0	0		0	0	Oct
0	0		0	0	Nov
0	0		0	0	Dec
0	0		0	0	Jan
0	0		0	0	Feb
0	0		0	0	Mar
0	0		0	0	Allocation
0	0		0	0	Apr
0	0		0	0	May
0	0		0	0	Jun
-4	4		0	0	Jul
0	0		0	0	Aug
0	0		0	0	Sep

SCHEDULES AND REVISIONS						
	Total	M&I	AG	M&I	AG	Total
Begin Bal	561	412	149	0	0	0
Oct						0
Nov						0
Dec						0
Jan						0
Feb						0
Mar						0
Allocation				2,610	1,119	3,729
Apr					1	1
May					44	44
Jun					51	51
Jul					51	51
Aug						0
Sep						0

REMAINING BALANCES						
Month	Total	M&I	AG	M&I	AG	Total
Oct	524	412	112	0	0	0
Nov	486	412	83	0	0	0
Dec	456	412	74	0	0	0
Jan	454	412	72	0	0	0
Feb	449	412	67	0	0	0
Mar	445	412	62	0	0	0
Allocation	445	412	62	2,610	1,119	3,729
Apr	438	412	55	2,610	1,120	3,730
May	429	412	45	2,644	1,164	3,808
Jun	419	412	35	2,682	1,216	3,898
Jul	270	298	0	2,715	1,266	3,981
Aug						
Sep						

TOTAL 4,251

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

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

Contract Entity: **City of Santa Barbara**
 Last updated by C.O.M.B. 07/31/17

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

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

SCHEDULE AND REVISIONS			
	Total	M&I	Total
Begin Bal	1,239	1,239	0
Oct			0
Nov			0
Dec			0
Jan			0
Feb			0
Mar			0
Allocation			3,311
Apr	ID #1 Ex+1		1
May	ID #1 Ex+52		52
Jun	ID #1 Ex+60		60
Jul	ID #1 Ex+55		55
Aug			0
Sep			0

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

TOTAL 3,479

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. 07/31/17

Month	Approved Schedule		WATER USE CHARGED TO CARRYOVER BALANCES						WATER USE CHARGED TO CURRENT ENTITLEMENT				
	Current Year	Previous Year	TOTAL WATER USED			Acre-feet			Acre-feet				
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	Total		
Oct	0	24	2	0	2	2	2	3	3	0	0	0	0
Nov			2	0	2	1	2	3	3	0	0	0	0
Dec			3	0	3	1	3	4	4	0	0	0	0
Jan			1	0	1	1	1	2	2	0	0	0	0
Feb			1	0	1	1	1	2	2	0	0	0	0
Mar			2	0	2	1	2	3	3	0	0	0	0
Apr	1060		2	0	2	0	2	2	0	0	0	0	0
May			3	0	3	0	3	3	0	0	0	0	0
Jun			3	0	3	0	2	2	2	0	1	0	1
Jul			3	0	3	0	0	0	0	0	3	0	3
Aug													
Sep													
Total	1060	24	21	0	21	7	17	24	19	0	4	0	4

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

SCHEDULE AND REVISIONS				
	Total	M & I	Agr	Total
Begin Bal	24	24	0	0
Oct				0
Nov				0
Dec				0
Jan				0
Feb				0
Mar				0
Allocation				0
Apr				353
May				707
Jun				1,060
Jul				(3)
Aug				(93)
Sep				(123)
				(216)
				(107)
				(143)
				(250)
				(89)
				(140)
				(229)
				0
				0

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

TOTAL 358

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

Contract Entity: **Santa Barbara Co. Water Agency**
 Last updated by **C.O.M.B. 07/31/17**

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

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES					WATER USED CHARGED TO CURRENT ENTITLEMENT			
			Acre-feet				Acre-feet			Allocation		Acre-feet			
			Used %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total	
Oct		0	2,201	37.8%	652	36	688	145	688	832	755	77	0	0	0
Nov				65.6%	509	18	527	85	527	612	555	48	0	0	0
Dec				12.79%	246	0	246	36	246	282	252	9	0	0	0
Jan				0.18%	1	0	1	3	1	4	2	2	0	0	0
Feb				0.32%	1	0	1	6	1	7	2	5	0	0	0
Mar				0.30%	2	0	2	5	2	7	3	5	0	0	0
Apr	10,285			0.43%	2	0	2	7	2	9	0	7	0	0	0
May				0.56%	3	0	3	9	3	12	0	10	0	0	0
Jun				0.58%	3	0	3	10	2	12	2	10	1	0	1
Jul				10.11%	136	76	211	11	137	148	110	39	34	40	74
Aug															
Sep															
Total	10,285	2201		128.70%	1,554	129	1,684	317	1,609	1,925	1,681	212	35	40	75

CONVERSIONS					
STORAGE WATER		CURRENT SCHEDULE			
M & I	Agr	M & I	Agr	Month	
-40	40	0	0	Oct	
0	0	0	0	Nov	
0	0	0	0	Dec	
0	0	0	0	Jan	
0	0	0	0	Feb	
0	0	0	0	Mar	
0	0	0	0	Allocation	
0	0	0	0	Apr	
0	0	0	0	May	
0	0	0	0	Jun	
-4	4	0	0	Jul	
0	0	0	0	Aug	
0	0	0	0	Sep	

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

COUNTY PARKS							
Month	A.F. Used	Total	M & I	Agr	M & I	Agr	Total
Oct	1.72	1,369	1,257	112	0	0	0
Nov	1.72	757	683	83	0	0	0
Dec	2.60	470	426	74	0	0	0
Jan	0.93	466	424	72	0	0	0
Feb	0.90	459	422	67	0	0	0
Mar	1.56	453	419	62	0	0	0
Allocation					7,738	2,547	10,285
Apr	2.47	443	419	55	7,739	2,546	10,285
May	3.22	431	419	45	7,769	2,516	10,285
Jun	2.55	419	417	35	7,802	2,482	10,284
Jul		270	303	0	7,802	2,408	10,210
Aug							
Sep							

TOTAL 10,481



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



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

Cachuma Lake Recreation Area Launch Data -- July 2017		
Inspection Data		
Total Vessels entering Park	131	
Total Vessels launched	123	
Total Vessels Quarantined	8	
Returning with Boat Launch Tag	67	54%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	56	46%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	8	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	8	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	2	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	8	
Demographic Data		
Quarantined from infected county	2	
Quarantined from SB County	4	
Quarantined from uninfected co	2	

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

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

* These conditions are no longer being tracked.

EARLY DETECTION MONITORING PROGRAM SUMMARY

Summary: No Dreissenid mussels were detected
 Inspection Site: Cachuma Lake Marina, Santa Barbara County, California
 Inspection Date and Time: 2017.07.27; 10:00 – 12:00 PDT
 Method: 5 PVC/Cement Sampling Stations; 56 linear feet of line
 Surveyors: Rosey Bishop, John Viggianelli, Kristin Loft (SBCO Parks)
 Lake elevation: Max feet: 753.00, current: 713.26; Max acre-feet: 193,305, current: 95,300;
 Current capacity: 49.30%