

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

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

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**Monday, July 25, 2011**

**2:00 P.M.**

**AGENDA**

- 1. COMB CALL TO ORDER, ROLL CALL** (COMB Board of Directors.)
- 2. INTRODUCTION OF GENERAL MANAGER BRUCE MOWRY**
- 3. 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.
- 4. CONSENT AGENDA** (For Board action by vote on one motion unless member requests separate consideration.)
  - a. Minutes June 27, 2011 Regular Board Meeting
  - b. Investment of Funds
    - Investment Reports
  - c. Payment of Claims
- 5. FISCAL YEAR 2010-11 ELECTIONS AND APPOINTMENTS OF CACHUMA OPERATION & MAINTENANCE BOARD**
  - a. Election of President
  - b. Election of Vice-President
  - c. Appointment of ACWA/JPIA Representative and Alternate
  - d. Appointment of General Counsel
  - e. Appointment of Secretary, Treasurer and Auditor-Controller
  - f. Appointment of Assistant Secretary
- 6. PROPOSED ANNUAL RESOLUTIONS**
  - a. Resolution No. 530 Adopting an Annual Statement of Investment Policy
  - b. Resolution No. 531 Establishing a Supplemental Account Agreement for Telephone Transfers

- c. Resolution No. 532 Authorizing Signatories for Revolving Fund Account at Santa Barbara Bank and Trust
  - d. Resolution No. 533 Authorizing Investment of Monies in the Local Agency Investment Fund
  - e. Resolution No. 534 Establishing a Check Signing Policy for General Fund Account for Payment of Claims
  - f. Resolution No. 535 Authorizing Signatories for General Fund Account at Santa Barbara Bank & Trust
  - g. Resolution No. 536 Establishing a Check Signing Policy for Cachuma Project Trust Fund and Master Contract Renewal Fund Accounts for Payment of Claims
  - h. Resolution No. 537 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at Santa Barbara Bank and Trust
  - i. Resolution No. 538 Establishing Time and Place for Board Meetings
- 7. NOTIFICATION TO BOARD OF SELECTION OF BARTLETT PRINGLE WOLF, LLP TO PERFORM FISCAL YEAR 2010-2011 AUDIT**
- 8. REPORTS FROM BOARD COMMITTEES**
- a. Ad Hoc Reorganization Committee
- 9. FISHERIES DIVISION ACTIVITIES**
- a. Fisheries Program Report
  - b. **Verbal** - Quiota Creek Project Updates
  - c. **Verbal** - Report from Bruce Mowry on Quiota Creek Project Designs and Alternate Projects
  - d. Consider Submittal to the County of the Draft MOU Between COMB and the County Transportation Department for Maintenance of Quiota Creek Fish Passage Projects at Crossing 6 on Refugio Road for Review
- 10. MODIFIED SCC UPPER REACH RELIABILITY PROJECT**
- a. **Verbal** -Status of Member Unit Ratification of the Modified SCC Upper Reach Reliability Project Expenditure
  - b. Update on Preliminary Work for Modified Upper Reach Reliability Project
- 11. OPERATIONS DIVISION ACTIVITIES**
- a. Operations Report
- 12. REPORTS FROM THE MANAGER**
- a. Cachuma Water Reports
  - b. Cachuma Reservoir Current Conditions
  - c. **Verbal** – Report on Meetings with the County of Santa Barbara
  - d. Operating Committee Draft Minutes, July 6, 2011
  - e. Quagga Mussel Report
- 13. DIRECTORS' REQUEST FOR AGENDA ITEMS FOR NEXT MEETING**

14. **MEETING SCHEDULE**
  - August 22, 2011 at 2:00 P.M., COMB Office
  - Board Packages Available on COMB Website  
[www.cachuma-board.org](http://www.cachuma-board.org)
  
15. **[CLOSED SESSION] CONFERENCE WITH LEGAL COUNSEL REGARDING ANTICIPATED LITIGATION, [SIGNIFICANT EXPOSURE TO LITIGATION] PURSUANT TO GOVERNMENT CODE SECTION 54956.9(b) (one case)**
  
16. **COMB ADJOURNMENT**

NOTICE TO PUBLIC

**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 a public hearing before the Board. The total time for this item will be limited by the President of the Board. If you wish to address the Board under this item, please complete and deliver to the Secretary of the Board before the meeting is convened, a "Request to Speak" forms including a description of the subject you wish to address.

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to 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.

[This Agenda was Posted at 3301 Laurel Canyon Road, Santa Barbara, CA  
at Santa Barbara City Hall, Santa Barbara, CA and at Member District Offices and Noticed and Delivered in Accordance with  
Section 54954.1 and .2 of the Government Code.]

**MINUTES OF A REGULAR MEETING  
Of the  
CACHUMA OPERATION & MAINTENANCE BOARD  
Held at the**

Cachuma Operation & Maintenance Board Office  
3301 Laurel Canyon Road, Santa Barbara, CA  
**Monday, June 27, 2011**

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

The meeting was called to order at 2:42 p.m. by President Lauren Hanson who chaired the meeting. Those in attendance were:

**Directors present:**

Lauren Hanson	Goleta Water District
Bob Lieberknecht	Carpinteria Valley Water District
Doug Morgan	Montecito Water District
Dennis Beebe	SYR Water Conservation District, ID No. 1

**Others present:**

Kate Rees	Tony Trembley
Jim Colton	Adelle Capponi
John McInnes	Charles Hamilton
Sonja Fernandez	Tom Fayram
Ruth Snodgrass	Janet Gingras
Tom Mosby	Chris Dahlstrom
Tim Robinson	Harlan Burchardi
Bruce Mowry	Jan Abel
Darlene Bierig	Chuck Evans
Bill Ferguson	

**2. Public Comment**

There were no comments from the public.

**3. Consent Agenda**

**a. Minutes:**

May 23, 2011 Regular Board Meeting and June 1, 2011 Special Board Meeting

Director Morgan referred to the minutes, item #6-a, regarding the receipt of formal confirmation from NMFS that the Quiota Creek projects for Crossings 2 and 7 will be covered under CDFG's Programmatic BO. Ms. Rees reported that NMFS would not respond in writing to COMB, however she would be writing up the minutes from the May 16<sup>th</sup> conference call and submit to all parties. Director Morgan requested that Ms. Rees include in the minutes that NMFS would not be responding with a formal letter regarding those issues.

**b. Investment Funds**  
Financial Reports  
Investment Report

**c. Payment of Claims**

Director Beebe moved to approve the consent agenda with the changes noted, seconded by Director Morgan, passed 5/0/2, Director Francisco was absent.

**4. Appointment of Secretary of the Board and ACWA/JPIA Alternate Representative**

The Board Secretary and the alternate ACWA/JPIA representative were positions held by retiring General Manager, Kate Rees. Bruce Mowry has been appointed as the new General Manager and these positions should be held by him.

Director Morgan moved to appoint Bruce Mowry, COMB's new General Manager to serve as Secretary of the Board and to serve as the ACWA/JPIA Alternate Representative, effective July 1, 2011, seconded by Director Beebe, passed 5/0/2, Director Francisco was absent.

**5. Proposed Annual Resolutions Regarding Bank Accounts**

- a. Resolution No. 522 Establishing a Check Signing Policy for General Fund Account for Payment of Claims
- b. Resolution No. 523 Authorizing Signatories for General Fund Account at Santa Barbara Bank & Trust
- c. Resolution No. 524 Authorizing Signatories for Revolving Fund Account at Santa Barbara Bank and Trust
- d. Resolution No. 525 Establishing a Check Signing Policy for Cachuma Project Trust Fund and Master Contract Renewal Fund Accounts for payment of Claims
- e. Resolution No. 526 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at Santa Barbara Bank and Trust
- f. Resolution No. 527 Establishing a Supplemental Account Agreement for Telephone Transfers
- g. Resolution No. 528 Authorizing Investment of Monies in the Local Agency Investment Fund

Due to the retirement of General Manager Kate Rees, the COMB Board has selected a new General Manager, Bruce Mowry. Adoption of Resolutions No. 522 through 528 will add Mr. Mowry as a signatory on the Renewal Fund, Trust Fund, General Fund, and the Revolving Fund Accounts at Santa Barbara Bank & Trust. It will also authorize Mr. Mowry to make financial transfers between the LAIF Account and the General Fund Account and/or the Revolving Fund Account at Santa Barbara Bank & Trust.

Director Morgan moved to adopt Resolution No. 522 through 528 relating to the COMB Bank Accounts, seconded by Director Lieberknecht, a roll call vote was taken, 5/0/2, Director Francisco was absent.

## 6. Reports From Board Committees

### a. Reorganization Committee

Ms. Rees reported on the progress of the Reorganization Committee discussions. At the June 6<sup>th</sup> meeting they discussed the COMB JPA Amendment and the Implementation Agreement between ID#1, CCRB and COMB regarding certain sections of the 2001 Fisheries MOU. The agreements continue to be reviewed and when finalized will be ready for approval.

## 7. Consider Approval of Proposed FY 2011-2012 COMB Budget

Ms. Rees highlighted the proposed budget and reported that the main change to the budget since the Board reviewed it in May was a reduction in the SYR RiverWare Model Peer Review line item in order to accommodate ID No. 1's request to pay this cost through the Parent District. The proposed Final Budget consists of a gross budget amount of \$6,248,041 with projected offsetting revenues of \$3,119,718. These offsetting revenues include the Trust Fund/Renewal Fund monies, the Santa Barbara County Betterment Fund, two approved grants from the Department of Fish and Game a pending grant from NOAA, and a portion of the Proposition 50 Grant Funds. With the application of the offsetting revenues, the COMB Net Proposed Final Budget is \$3,128,323.

Director Beebe had several concerns from ID No. 1 that he requested be documented.

- Line Item 6206, Tri-County Fish Team, ID No.1 feels this support is not appropriate for COMB to fund.
- Line Item 6208 Legislative and Steelhead Funding Support, ID No. 1 feels this is not appropriate for COMB to fund.
- Line Item 5513 Cost/Benefit Analysis, ID No. 1 thought that this would be a study for the South Coast only and ID No. 1 would not pay for this study.
- Director Beebe stated that he was unable to track the numbers from the operations payroll and related expenses to the summary budget and requested a memo be sent explaining the process.
- Director Beebe requested an explanation of the \$15,000 paid for the genetic testing of tissue samples from the steelhead in the Santa Ynez River.
- Director Beebe made note that the Budget changed with the addition of relocation expenses for the new General Manager
- Director Beebe noted that the interest payment to the City had increased from \$10,000 to \$20,000, Janet Gingras, Administrative Manager said that she would look in to the difference but felt the \$10,000 was an estimate from a draft budget several months ago.

Ms. Rees explained that the Cost/Benefit Analysis would take a look at the overall cost distribution of all Member Units relative to their responsibilities to COMB and it was recommended that all Member Units share in the cost of this study.

Director Beebe moved to approve the COMB Proposed Final Budget for Fiscal Year 2011-2012, seconded by Director Morgan, passed 5/0/2, Director Francisco was absent.

**8. Authorize General Manager to Approve Trust Fund/Renewal Fund 2012 Annual Plan and Five-Year Plan (MCA 27)**

Ms. Rees reported that the annual meeting of the Cachuma Trust Fund/Renewal Fund Committee was held on May 25, 2011, the committee consists of Tom Fayram, County Water Agency and Kate Rees, Cachuma Member Units. The Fund Committee reviewed the plans and made suggested revisions. The funds will be used for the Lower Santa Ynez River Fisheries Program. The FY 2011-2012 funds are expected to total \$268,094 from the Renewal Fund and \$76,884 from the Trust Fund.

Director Morgan moved to authorize the General Manager, as a member of the Fund Committee, to approve the Warren Act Trust Fund/Cachuma Project Renewal Fund Five-Year Plan and the 2012 Annual Plan (MCA 27), seconded by Director Lieberknecht, 4/0/3, Director Beebe abstained and Director Francisco was absent.

**9. Fisheries Division Activities**

**a. Fisheries Program Report**

The monthly Fisheries Program Report was included in the board packet. Tim Robinson reported that there was very good flow during the month of May. The Adaptive Management Committee (AMC) did call for a 500 acre-foot AMA release from 5/14/2011 to 5/24/2011 to increase passage opportunities.

**b. Report Updates**

• **2008 Annual Monitoring Report**

• **AMA Release Report**

Tim Robinson had included a report on the 2011 AMA release in the board packet. An AMC meeting was held on 5/13/2011 to discuss the end of the spill, the presence of steelhead adults and migrating smolts within the LSYR, and the potential use of the AMA water to support downstream smolt and upstream adult migration. A release was scheduled over a 10 day period and that required 500 acre-feet.

• **Backup documentation from the NOAA Science Center – Dr. Carlos Garza**

At the Boards request, Tim Robinson had requested a letter from Carlos Garza, NMFS to confirm our agreement to collaborate on an ongoing basis with COMB, the genetic monitoring and evaluation of steelhead in the Santa Ynez River basin.

Tony Trembley, General Counsel recommended that the agreement should be looked at each Fiscal Year. He recommended sending a response letter stating that COMB has approved the expenditure for FY 2011-2012 but would evaluate the expenses every year.

**c. Quiota Creek Projects Update**

- **Engineering Designs and County Encroachment Permit for Crossings 2, 7, and 1**

Tim Robinson reported that final design work for Crossing 2 has been completed and that the plans will now go to the County, DFG, and NMFS for approval. Once the designs are final the Encroachment Permits will be approved and the bid packet can be prepared. Mr. Robinson is hoping to have the bid packet ready for the Ops Committee meeting July 6, 2011.

Director Beebe formally welcomed Bruce Mowry and requested that he review all designs for the Fisheries Projects and look into alternative project designs and report back to the Board.

The design work for Crossing #7 is 95% completed, however the grant application is still pending.

For Crossing #1 the County has increased the requirements of the project which will increase the cost of the project and require redesigning. The technical grant group's decision was that we should withdraw the applied for grant, redesign the project and reapply for a grant. Mr. Robinson was provided with information for 2 grant funding options for this calendar year.

- **NOAA Grant Application for Crossing 7**

The grant application is still pending, Tim Robinson reported that he should be receiving the status of the grant very soon.

- **Bid Process**

The bid packet will go before the Ops Committee and then to the Board for approval once the designs have been approved.

**d. Tri-County Fish Team**

- **Public Forum Meeting, June 2, 2011**

The agenda for the meeting was included in the board packet. Tim Robinson reported that there were two speakers at the meeting, one on potential restoration actions to enhance the ecological functions of the Lower Santa Ynez River Estuary and one on California Water Project.

- **County of Santa Barbara Membership**

The County of Santa Barbara is a signatory to the MOU funding obligation to TCFT.

- **TCFT Revenues and Expenditures**

Included in the board packet was a memo listing the participants in TCFT and their revenues and expenditures.



The Board requested that a discussion concerning TCFT funding mechanisms and the merits of COMB being a member be added to a future agenda.

*Tom Fayram, County of Santa Barbara expressed his best wishes to Kate Rees upon her retirement.*

**10. Consider Approval of Letter Agreement for Funding and Administration of a Peer Review for the Santa Ynez River RiverWare Model**

Ms. Rees reported that the Letter Agreement in the board packet supplements the one dated February 21, 2006 for the development of an updated SYR hydrologic model using RiverWare. The 2011 letter includes provision for funding a peer review process and also additional services for further development work as a result of the peer review. The parties to this Agreement include CCRB, COMB, City of Lompoc, City of Solvang, Santa Barbara County Water Agency, SYR Water Conservation District, ID#1, and Santa Ynez River Water Conservation District. Ms. Rees reported that CCRB approved the letter agreement during their meeting.

Director Beebe reported that ID No.1 had not had a chance to review the letter agreement and that they would be sending their comments to Bruce Wales, General Manger SYR Water Conservation District and agreed to COMB's approval in substantially the same form has presented in the board packet.

Director Morgan moved to authorize the General Manager to sign the letter Agreement among CCRB, COMB, Santa Ynez River Water Conservation District, Santa Ynez River Water Conservation District, ID No. 1, City of Lompoc, City of Solvang, and the Santa Barbara County Water Agency, in substantially the same form, for the purpose of peer reviewing the updated Santa Ynez River RiverWare Hydrology Model, including provision for further development work as a result of the peer review, seconded by Director Lieberknecht, passed 5/0/2, Director Francisco was absent.

**11. Modified SCC Upper Reach Reliability Project**

**a. Consider Approval of Indemnification Agreement Between COMB and ID No. 1**

Ms. Rees reported that the South Coast Member Units of the COMB Board have decided to construct a Modified SCC Upper Reach Reliability Project, and that ID No. 1 would not be held responsible or obligated for the project funding or any contractual obligations. The ID No. 1 Board approved the Indemnification Agreement on June 21, 2011.

Director Beebe moved to approve the Modified South Coast Conduit Upper Reach Reliability Project Indemnification Agreement between COMB and the Santa Ynez River Water Conservation District, ID No. 1, whereby ID No. 1 will not be held responsible or obligated in any way for the project funding or any contractual obligations, seconded by Director Morgan, passed 5/0/2, Director Francisco was absent.

**b. Consider Approval of the Modified SCC Upper Reach Reliability Project Expenditure**

Ms. Rees reported that because the Modified South Coast Conduit Upper Reach Reliability Projects exceeds \$1,000,000, COMB's Joint Powers Agreement requires a unanimous vote, staff requested Board approval for the Project not to exceed \$4,200,000. After COMB Board approval, ratification of COMB's action is required by all of COMB's Member Units.

Director Hanson moved to approve the Modified SCC Upper Reach Reliability Project not to exceed \$4,200,000, seconded by Director Lieberknecht, passed 5/0/2, Director Francisco was absent.

**c. Update on Preliminary Work for Modified Upper Reach Reliability Project**

An update on the Modified SCC Upper Reach Reliability Project was included in the board packet for information.

**12. Operations Division Activities**

**a. Operations Report**

The monthly report on Operations was included in the board packet. Jim Colton, Engineer reported that the computerized maintenance program has been implemented by the Operations crew and has been working very well.

Director Morgan requested a copy of the Third Reliability Alternatives Study prior to the next Board meeting. Jim Colton reported that each Member Unit will be receiving a copy of the study at the July 6<sup>th</sup> Operating Committee meeting.

**13. Reports From the Manager**

**a. Cachuma Water Reports**

The monthly water reports were included in the board packet.

**b. Cachuma Reservoir Current Conditions**

The daily operations report for Lake Cachuma through June 22, 2011 was included in the board packet.

**c. Lake Cachuma 2011 Spill**

The Cachuma Reservoir disposition of 2011 surcharge water was included in the board packet.

**d. Operating Committee Draft Minutes, June 1, 2011**

The draft minutes were included for information.

**e. Prop 84 Round 1 Funding Recommendations**

A chart of the Proposition 84 Round 1 Implementation Grant Draft Funding recommendations was included in the board packet.

**f. Quagga Mussel Reports**

The report from the County Parks Dept. for May was included in the board packet. There were no Quagga mussels found.

**14. Resolution No. 529 Commendation for General Manager Kate Rees upon Her Retirement From COMB**

Director Hanson moved to adopt Resolution No. 529 Commendation for General Manager Kate Rees upon her retirement from COMB, seconded by Director Beebe, Director Morgan, and Director Lieberknecht, a roll call vote was taken 5/0/2, Director Francisco was absent.

President Hanson presented the commendation to Ms. Rees upon her retirement and thanked her for her years of employment with COMB.

President Hanson also presented a certificate of appreciation upon her retirement from Assemblymember Das Williams.

**15. Directors' Request for Agenda Items for Next Meeting**

Report from Bruce Mowry after reviewing the Quiota Creek Crossing Designs  
Tri-County Fish Team informational discussion

**16. Meeting Schedule**

- The next regular Board meeting will be held June 27, 2011 at 2:00 P.M.
- The Agendas and Board Packets are available on the COMB website, [www.cachuma-board.org](http://www.cachuma-board.org)

**17. COMB Adjournment**

There being no further business, the meeting was adjourned at 5:00 p.m.

Respectfully submitted,

\_\_\_\_\_  
Bruce Mowry, Secretary of the Board

**APPROVED:**

\_\_\_\_\_  
Lauren Hanson, President of the Board

Approved \_\_\_\_\_  
Unapproved \_\_\_\_\_ ✓

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

[www.treasurer.ca.gov/pmia](http://www.treasurer.ca.gov/pmia)

-laif

July 14, 2011

CACHUMA OPERATION AND MAINTENANCE BOARD

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

PMIA Average Monthly Yields

Transactions

Tran Type Definitions

June 2011 Statement

Account Summary

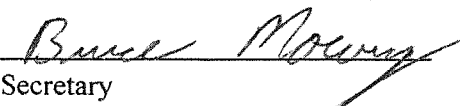
Total Deposit:	0.00	Beginning Balance:	54,785.70
Total Withdrawal:	0.00	Ending Balance:	54,785.70

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

**FROM:** Kathleen Rees, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of June, 2011, 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

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# SANTA BARBARA BANK & TRUST

P.O. Box 60839, Santa Barbara, CA 93160-0839

2798

Cachuma Operation & Maintenance Board  
Master Contract Renewal Fund  
3301 Laurel Canyon Rd  
Santa Barbara CA 93105-2017

*opened 7/12/11  
J*

## Banking Statement

Statement Period: 06/01/2011 to 06/30/2011

Customer Number:

Customer Service Representative  
(888) 400-SBBT (400-7228)

BANKLINE-24-HOUR AUTOMATED INFORMATION  
(800) 287-SBBT (287-7228)

[www.sbbt.com](http://www.sbbt.com)

## Our Community. Your Bank.

It is our objective to assist you in selecting products and services that meet your personal and business needs. If you have any questions regarding your account, please feel free to call or visit one of our bankers for assistance.

## Business Money Market

### Checking Summary

Cachuma Operation & Maintenance Board

### Master Contract Renewal Fund

Account Number	102335072
Interest Paid YTD	8.09
Interest Paid Last Year	39.98

### Deposit Account Recap

Beginning Balance as of	
June 1, 2011	5,021.16
2 Deposits (Plus)	5,014.14
Ending Balance as of	
June 30, 2011	10,035.30
Interest Paid	1.86

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

**FROM:** Kathleen Rees, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of June, 2011, 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 Santa Barbara Bank & Trust investments of this agency for the period indicated.

*Bruce Murray*  
Secretary

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# SANTA BARBARA BANK & TRUST

P.O. Box 60839, Santa Barbara, CA 93160-0839

2799

Cachuma Operation & Maintenance Board  
Cachuma Project Trust Fund  
3301 Laurel Canyon Rd  
Santa Barbara CA 93105-2017

*Approved 7/12/11*  
*[Signature]*

## Banking Statement

Statement Period: 06/01/2011 to 06/30/2011

Customer Number:

Customer Service Representative  
(888) 400-SBBT (400-7228)

BANKLINE-24-HOUR AUTOMATED INFORMATION  
(800) 287-SBBT (287-7228)

www.sbbt.com

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## Public Capital Tiered MMDA

### Checking Summary

Cachuma Operation & Maintenance Board

Cachuma Project Trust Fund

Account Number	102335080
Interest Paid YTD	162.59
Interest Paid Last Year	447.50

### Deposit Account Recap

Beginning Balance as of

June 1, 2011	114,083.48
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2 Deposits (Plus)	5,052.65
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Ending Balance as of

June 30, 2011	119,136.13
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Interest Paid	33.54
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**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board

**FROM:** Kathleen Rees, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of June, 2011, 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 Santa Barbara Bank & Trust investments of this agency for the period indicated.

*Bruce Mooney*  
Secretary

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comb2  
**Payment of Claims**  
As of June 30, 2011

	Date	Num	Name	Memo	Amount
1050 · GEN FUND	06/06/2011	19973	Aqua-Flo Supply	Hoses w/couplers-Ortega Project	-434.16
	06/06/2011	19974	Big Brand Tire Company	Colorado-tires/oil chg/brake-rotor repair & replaced	-1,027.86
	06/06/2011	19975	Business Card	JG-Conf room-GM interview/movers-fish ofc/ESRI conf SE-SE/webhost	-150.85
	06/06/2011	19975	Business Card	KR-Mtg USBR MUURP/Reconsul/movers-fish ofc/ computer/communications set up-new CCRB ofc	-26.84
	06/06/2011	19975	Business Card	JC-Training/travel-PAPA/waste water conf/ESRI-SP	-2,469.18
	06/06/2011	19976	Central Valley Project Water Asso	2011 Member Dues	-750.00
	06/06/2011	19977	Coastal Copy, LP	Copier lease-KM4035/TASKalfa 250	-304.84
	06/06/2011	19978	COMB - Revolving Fund	Jun 10 & 24 payroll/taxes	-167,705.55
	06/06/2011	19979	Milpas Rental	Snake rental	-49.10
	06/06/2011	19980	Nextel Communications	Cellular	-523.52
	06/06/2011	19981	Paychex, Inc.	5/13, 27 payrolls/taxes	-273.64
	06/06/2011	19982	PG&E	NP/Tecolote tunnel	-534.52
	06/06/2011	19983	Santa Barbara News Press	Ops Sup ad	-591.63
	06/06/2011	19984	State Compensation Insurance Fu	Payroll Report May 2011	-3,801.35
	06/06/2011	19985	The MedCenter, Inc.	SE treatment	-149.13
	06/06/2011	19986	The Wharf	Field crew-pants/shirts	-610.48
	06/06/2011	19987	A-OK Mower Shops, Inc.	Echo Ex saw-chain/Trash pump-hose kit	-5,286.29
	06/06/2011	19988	Acorn Landscape Management Co	Scheduled mtce	-253.17
	06/06/2011	19989	AECOM Technical Services, Inc.	TO#Finalize Res Study-SCC Ortega Res to Carp Res	-736.72
	06/06/2011	19989	AECOM Technical Services, Inc.	TO#32 Kickoff mtg/Prepare tech specs/90% plan	-6,942.92
	06/06/2011	19990	AT&T	May statement	-438.82
	06/06/2011	19991	Cardno ENTRIX	SCCURRP-Permit support-Apr	-950.18
	06/06/2011	19992	Central Machine & Welding	Repair pipe spool	-184.00
	06/06/2011	19993	CIO Solutions, LP	Maintain-IT Jun	-1,900.00
	06/06/2011	19994	City of Santa-Barbara	Refuse/recycle 4/28-5/26/11	-162.70
	06/06/2011	19995	Crop Production Services, Inc	Rodent bait	-122.19
	06/06/2011	19996	Culligan Water	RO system Jun	-24.95
	06/06/2011	19997	Dale Francisco	May mtg fees	-264.46
	06/06/2011	19998	Dennis E. Beebe	May mtg fees	-313.84
	06/06/2011	19999	ECHO Communications	Answering service	-62.00
	06/06/2011	20000	GE Capital	Copier lease Billing ID#90133933786	-499.16
	06/06/2011	20001	Growing Solutions	Plant care-2nd barrel site PO#8987	-100.00
	06/06/2011	20002	Home Depot Credit Services	Rebar/ties	-99.70
	06/06/2011	20003	Lauren W. Hanson	May mtg fees	-532.40
	06/06/2011	20004	Nordman, Cormany, Hair & Compl	Gen Counsel-Apr services	-4,462.00
	06/06/2011	20005	Onset Computer Corporation	Loggers/water temp probes PO#9027	-704.80
	06/06/2011	20006	Permacolor, Inc.	Spool line & coat	-333.62
	06/06/2011	20007	Praxair Distribution, Inc	Drive roll kit/wire guide/cylinder rental	-105.09
	06/06/2011	20008	Prudential Overall Supply	Mats	-145.62
	06/06/2011	20009	Rain for Rent Santa Paula	Rental-Ortega cleaning project PO#9024	-2,789.57
	06/06/2011	20010	Republic Elevator Co.	Scheduled mtce-NP elevator	-266.91
	06/06/2011	20011	Robert R. Lieberknecht	May mtg fees	-284.86
	06/06/2011	20012	Southern California Edison	Main ofc/outlying stations	-1,066.92
	06/06/2011	20013	Staples Credit Plan	Office Supplies	-372.93
	06/06/2011	20014	Underground Service Alert of So.	May tickets	-75.00
	06/06/2011	20015	W. Douglas Morgan	May mtg fees	-552.80
	06/06/2011	20016	WFCB-OSH Commercial Services	Rails/storage for snorkel gear	-30.40
	06/06/2011	20017	COMB-Petty Cash	Replenish petty cash	-189.41
	06/06/2011	20018	Mike Wood Construction	Final-Stair cover/int remodel F/D ofc PO#10-11-12	-8,000.00
	06/16/2011	20019	A.T.Z. Monogramming	COMB field crew shirts	-76.13
	06/16/2011	20020	AECOM Technical Services, Inc.	TO#31 Coord mtgs/Misc eng-tech supp-Gen Eng services	-13,197.94
	06/16/2011	20021	Cardno ENTRIX	Task Mgt/file mtce Feb-Apr	-262.88
	06/16/2011	20022	Channel City Lumber	Krylon-misc equip	-6.51
	06/16/2011	20023	CIO Solutions, LP	Postini-Jun	-45.00
	06/16/2011	20024	County of Santa--Barbara	Green waste/general garbage	-219.36
	06/16/2011	20025	Cox Communications	Business internet Jun	-195.00
	06/16/2011	20026	Fed Ex Kinko's, Inc.	Fee	-25.00
	06/16/2011	20027	Fleet Services	Fuel	-4,920.71
	06/16/2011	20028	GE Capital	Copier lease Billing ID#90136047559	-134.85
	06/16/2011	20029	HDR Engineering, Inc.	Quiota Crk psg tech supp/Salsi Crk Jalama fish ladder	-17,482.69
	06/16/2011	20030	Hydrex Pest Control Co.	Ant/pest control	-65.00
	06/16/2011	20031	Laser Cartridge Co.	Cartridge recharge	-124.95
	06/16/2011	20032	MarBorg Industries	Portable toilets	-328.62

comb2  
**Payment of Claims**  
As of June 30, 2011

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
06/16/2011	20033	Melinda L. Fournier	Oak Tree Restoration Program-May	-11,692.00
06/16/2011	20033	Melinda L. Fournier	Oak tree/Honeysuckle restoration-May	-4,991.00
06/16/2011	20034	Pacific Coast Jiffy Lube	Service-GM vehicle	-118.76
06/16/2011	20035	Premiere Global Services	Conf. calls May	-61.23
06/16/2011	20036	Southern California Edison	Corona-Geln Anne Rd/Glen Anne gate/Foothill Rd	-73.33
06/16/2011	20037	UPS	Shipping	-11.85
06/16/2011	20038	Verizon California	Main ofc/outlying stations/SCADA	-975.51
06/16/2011	20039	Verizon Wireless	Cellular	-122.92
06/20/2011	20040	US Postal Service	Postage for Winter Newsletter	-235.40
06/22/2011	20043	COMB-Petty Cash	Replenish petty cash	-385.60
06/22/2011	20044	Levi H. Miller	Travel-SYR berm monitoring Jan-Jun	-1,043.46
Total 1050 · GENERAL FUND				<u>-274,451.78</u>
				<u><b>-274,451.78</b></u>



## CACHUMA OPERATION AND MAINTENANCE BOARD

### MEMORANDUM

DATE: July 25, 2011  
TO: Members of the Board of Directors  
FROM: Bruce Mowry, General Manager  
RE: **Annual Reorganization of the Board**

#### Recommendation:

1. Elect a Board President
2. Elect a Board Vice President
3. Appoint an ACWA/JPIA Representative and Alternate
4. Appoint a General Counsel
5. Appoint a Secretary of the Board, Treasurer and Auditor-Controller
6. Appoint an Assistant Secretary of the Board

#### Discussion:

At the July 25, 2011 regular meeting, the Board must conduct the annual election of new officers and appointments of executives to serve the Board.

- a. Nominations for President
- b. Nominations for Vice President

*It is recommended that the Board take nominations for President and Vice President and elect two of its members to fill these positions. It is further recommended that the officers elected assume their responsibilities as of the adjournment of the July 25, 2011 Board meeting.*

- c. Appointment of ACWA/JPIA Representative and Alternate

The appointment of the agency's ACWA/JPIA Representative and Alternate is also to be made at this time. Presently Director Lieberknecht of Carpinteria Valley Water District serves as the COMB ACWA/JPIA Representative and the General Manager serves as the Alternate. *It is recommended that these appointments be made by the Board President for another year.*

- d. Appointment of General Counsel

The firm of Nordman, Cormany, Hair & Compton (NCHC) was hired in 1999, with William H. Hair retained as General Counsel. A letter agreement in 2000 formalized the continuance of the firm's retention and was signed by the President of the Board on May 22, 2000. Retention of the firm is for an unspecified time period. Bill Hair retired as COMB's General Counsel February 1, 2011. At the January 24, 2011 Regular Board meeting the Board approved retaining Anthony


Trembley of NCHC. Effective July 15, 2011, Mr. Trembley left NCHC and joined Musick Peeler & Garrett LLP. Attached is a letter from NCHC listing four options for the Board's consideration.

e. Appointment of Secretary of the Board, Treasurer and Auditor-Controller

The COMB General Manager is currently serving as Board Secretary, and the Administrative Manager is currently serving as Treasurer and Auditor-Controller. *It is recommended that the Board affirm that the General Manager continue to serve as Secretary of the Board, as has been the custom to date. It is also recommended that the Board affirm that the General Manager serve as Treasurer and Auditor-Controller, as authorized by the Board at its regular meeting of September 16, 1996.*

f. Appointment of Assistant Secretary of the Board

Respectfully submitted,

  
Bruce Mowry  
General Manager

KR.COMB/board memos/072511\_COMB annual reorg.mmo

ITEM # 5  
PAGE 2

June 29, 2011

Lauren Hanson  
President, Governing Board  
Cachuma Operation & Maintenance Board  
3301 Laurel Canyon Road  
Santa Barbara, CA 93105

Dear Ms. Hanson:

Anthony Trembley and Nordman Cormany Hair & Compton LLP (the "Nordman firm") jointly announce that, after a long and rewarding relationship with the Nordman firm, effective July 15, 2011, Mr. Trembley will be leaving the Nordman firm and joining Musick Peeler & Garrett LLP in its Westlake Village office.

As part of the transition of Mr. Trembley's practice, you have four options from which to choose.

1. You may choose to keep your legal work with the Nordman firm, through the assistance of other attorney(s) in the office;
2. You may choose to keep your legal work with Mr. Trembley, and thereby have your files transferred to Musick Peeler & Garrett LLP;
3. You may choose to do both, by keeping a portion of your legal work with the Nordman firm and transferring a portion of your legal work to Mr. Trembley at Musick Peeler & Garrett LLP;
4. You may choose to select a different law firm for your legal work, and have your files transferred to that law firm.

Concerning options 1 or 3, if you choose to keep all or a portion of your legal work at the Nordman firm, please call Mr. Joel Mark at (805) 988-8300 or email Mr. Mark at [jmark@nchc.com](mailto:jmark@nchc.com). Concerning options 2 or 3, if you choose to transfer all or a portion of your legal work to Mr. Trembley, before July 15, 2011, please call Mr. Trembley at (805) 988-8306 or email Mr. Trembley at [atrembley@nchc.com](mailto:atrembley@nchc.com). Alternatively, on or after July 18, 2011, please call Mr. Trembley at (805) 418-3100 or email Mr. Trembley at [a.trembley@mpglaw.com](mailto:a.trembley@mpglaw.com), and he will provide you with the appropriate file transfer

June 29, 2011  
Page 2

authorization form. Concerning option 4, if you choose to transfer all or a portion of your legal work to another law firm, please contact Nordman to arrange for the file transfer.

Please contact Mr. Trembley or Mr. Mark if you have any questions or need any additional information. We all expect that this transition will go smoothly and will cause as little inconvenience to you as possible.

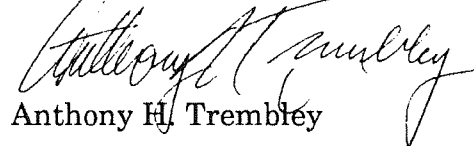
Beginning July 18, 2011, Mr. Trembley's new contact information at Musick Peeler & Garrett LLP, is as follows:

Anthony H. Trembley, Esq.  
Musick Peeler & Garrett LLP  
2801 Townsgate Road, Suite 200  
Westlake Village, CA 91361  
Phone: (805) 418-3100  
Email: a.trembley@mpglaw.com

Thank you in advance for your patience during this transition.

NORDMAN CORMANY HAIR & COMPTON LLP

  
Joel Mark  
Managing Partner

  
Anthony H. Trembley

AHT:pm  
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ITEM # 5d  
PAGE 2

**CACHUMA OPERATION AND MAINTENANCE BOARD**

**MEMORANDUM**

DATE: July 25, 2011  
TO: Members of the Board of Directors  
FROM: Bruce Mowry, General Manager  
RE: **Annual Resolutions Regarding Bank Accounts**

**Recommendation:**

Approve Resolutions Nos. 530 through 538 by roll call vote, as presented.

**Discussion:**

In July each year, the Board holds its annual organizational meeting. As a result of any changes in the Board Directors or in Officers of the Board, several resolutions are presented for your consideration to reaffirm a check signing policy for established COMB bank accounts, to authorize signatories on those accounts, and to establish the time and place of Board meetings. These are basically housekeeping items, and the resolutions are identical to those presented to you last year, and supercede those resolutions where noted.

Respectfully submitted,

  
Bruce Mowry  
General Manager

**RESOLUTION NO. 530**

**A RESOLUTION OF THE CACHUMA OPERATION AND  
MAINTENANCE BOARD ADOPTING AN ANNUAL STATEMENT  
OF INVESTMENT POLICY**

**WHEREAS**, the Board of Directors has heretofore established a General Fund from which monies may be expended for general operating purposes, and

**WHEREAS**, the Board of Directors, has in addition, established reserve funds designated as "General Reserve" from which monies may be expended for specific and operating purposes, and

**WHEREAS**, the Cachuma Operation and Maintenance Board has on hand in the General Fund from time to time monies which are surplus to the Board's immediate operating needs, and

**WHEREAS**, it has been determined to be in the public interest to invest such surplus and inactive monies in a manner which insures a maximum return consistent with safety on such investments while maintaining the integrity of such surplus and inactive funds, and

**WHEREAS**, the Board of Directors has heretofore designated depositories, and may from time to time hereafter designate additional such depositories to have custody of Cachuma Operation and Maintenance Board funds, and

**WHEREAS**, such designated depositories must provide security for such Board funds as may be deposited with them, as provided by statute, and

**WHEREAS**, the Secretary has rendered an Annual Statement of Investment Policy to the Board pursuant to Section 5346(a) of the Government Code

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of Cachuma Operation and Maintenance Board as follows:

The Secretary's Annual Statement of Investment Policy dated July 25, 2011 attached hereto as Exhibit A, is hereby approved and adopted.

**PASSED, APPROVED AND ADOPTED** this 25<sup>th</sup> day of July 2011, by the following roll call vote:

**AYES:**  
**NAYES:**  
**ABSENT/ABSTAIN:**

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

ATTEST: \_\_\_\_\_  
Secretary

**TO:** Board of Directors  
**FROM:** Bruce A. Mowry, Secretary  
**DATE:** July 25, 2011  
**RE:** **SECRETARY'S ANNUAL STATEMENT OF INVESTMENT POLICY**

---

The following is my annual statement of investment policy rendered pursuant to Section 53646(a) of the Government Code:

1. Investment of sinking fund or surplus money of Cachuma Operation & Maintenance Board (*Board*) shall be made in securities in which the Board is legally empowered to invest such funds in accordance with Section 53601 of the Government Code, taking into consideration the probable income as well as the probable safety of said funds, exercising the judgment and care under the circumstances prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not in regard to speculation, but in regard to the permanent disposition of said funds.
2. As far as possible, all money shall be deposited for safekeeping in state or national banks or state or federal savings and loan associations or may be invested as provided in Section 53635 of the Government Code.
3. Money may be invested in the Local Agency Investment Fund in accordance with Section 16429.1 of the Government Code.
4. No investments shall be made in financial futures or financial option contracts which are otherwise allowed pursuant to Section 53601.1 of the Government Code.
5. All interest earned shall be credited to the General Fund.
6. Accounts shall be established and maintained in Board accounting records to record surplus and inactive funds at all times in accordance with the State Controller's chart of accounts as authorized by Section 53891 of the Government Code.
7. Reserve Fund account balances shall be maintained separately and shall reflect at all times the balance in each reserve fund in a manner consistent with generally accepted accounting practices.
8. Depositories having custody of Board funds shall be directed to forward copies of all correspondence concerning Board funds to the Secretary of the Board.
9. Verification that monies have been on deposit at all times and collateralized in amounts equal to or in excess of funds designated by the Board of Directors as reserve funds shall be made in the annual audit of records.
10. After review and prior authorization by the Board of Directors, the Secretary should be delegated the authority and responsibility to invest or to reinvest funds of the Board or to sell or exchange securities so purchased in accordance with Section 53607 of the Government Code.
11. The Board should from time to time determine which reserve funds are surplus and which are inactive.
12. The Secretary shall render a monthly report to the Board in accordance with Section 53646(b) of the Government Code.

**RESOLUTION NO. 531**

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

The undersigned Customer further agrees with Santa Barbara Bank and Trust (*Bank*) in connection with its Agreement for Checking Account No. 3102-563 (*General Fund*) and Account No. 3102-555 (*Revolving Fund*), hereinafter referred to as the "checking accounts", that the Bank may honor telephone instructions to transfer funds to and from the State Treasurer's Local Agency Investment Fund, sub-account No. 70-42-001, maintained at the Bank of America Sacramento Branch No. 148 to and from Customer's above listed local accounts when such instructions are given by the person, or one of the persons, authorized below to make such transfers.

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

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

1. \_\_\_\_\_  
President, Board of Directors
2. \_\_\_\_\_  
Vice-President, Board of Directors
3. \_\_\_\_\_  
General Manager/Secretary

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

This resolution supersedes Resolution No. 527 dated June 27, 2011, and all resolutions preceding it pertaining to said Agreement.

**PASSED, APPROVED AND ADOPTED** this 25th day of July 2011, by the Cachuma Operation and Maintenance Board by the following roll call vote:

**AYES:**  
**NAYS:**  
**ABSENT/ABSTAIN:**

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

ATTEST:

\_\_\_\_\_  
Secretary

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PAGE 1



**RESOLUTION NO. 532**

**A RESOLUTION OF THE CACHUMA OPERATION AND  
MAINTENANCE BOARD AUTHORIZING SIGNATORIES  
FOR REVOLVING FUND ACCOUNT AT SANTA BARBARA  
BANK AND TRUST**

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

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

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

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

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

\_\_\_\_\_  
General Manager/Secretary

This resolution supersedes Resolution No. 524 dated June 22, 2011 and all resolutions preceding it pertaining to authorized signatories for said account.

**PASSED, APPROVED, AND ADOPTED** this 25th day of July 2011, by the following vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

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

ATTEST:

\_\_\_\_\_  
Secretary

ITEM # 6c  
PAGE 1

RESOLUTION NO. 533

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

RECITALS

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

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

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

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

Table with 3 columns: Name, Title, Signature. Row 1: Bruce A. Mowry, Gen. Mgr./Secretary, (Signature line). Row 2: (NAME), Vice President, (TITLE), (Signature line).

PASSED AND ADOPTED, by the Board of Directors of COMB, County of Santa Barbara State of California on July 25, 2011, by the following vote:

AYES:
NAYES:
ABSENT/ABSTAIN:

APPROVED:
President of the Board

[SEAL]
ATTEST:
Secretary of the Board

**RESOLUTION NO. 534**

**A RESOLUTION OF THE CACHUMA OPERATION AND MAINTENANCE BOARD ESTABLISHING A POLICY FOR SIGNING CHECKS DRAWN ON THE GENERAL FUND ACCOUNT FOR THE PAYMENT OF CLAIMS**

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

**WHEREAS**, the checks issued on the General Fund require two (2) authorized signatures before the checks are honored by the Bank; and

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

**NOW, THEREFORE BE IT RESOLVED** by the Board of Directors of the Cachuma Operation and Maintenance Board that the following policy be adopted:

All checks issued from the General Fund will require two (2) signatures of the following: General Manager, Administrative Manager and any member of the Board of Directors.

This resolution supersedes Resolution No. 522 dated June 22, 2011, and all resolutions preceding it pertaining to establishing policy for staff to sign checks for payment of claims.

**PASSED, APPROVED AND ADOPTED** this 25th day of July 2011, by the following vote:

**AYES:**  
**NAYES:**  
**ABSENT/ABSTAIN:**

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

ATTEST:

\_\_\_\_\_  
Secretary

ITEM # 6e  
PAGE 1

**RESOLUTION NO. 535**

**A RESOLUTION OF THE CACHUMA OPERATION AND  
MAINTENANCE BOARD AUTHORIZING SIGNATORIES FOR  
GENERAL FUND ACCOUNT AT SANTA BARBARA BANK AND  
TRUST**

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

**WHEREAS**, the checks issued on the General Fund require two (2) authorized signatures before the checks are honored by the bank, and

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

**NOW, THEREFORE BE IT RESOLVED** by the Board of Directors of the Cachuma Operation and Maintenance Board that the following persons are authorized signatories on said account subject to those conditions as specified in Resolution No. 534 adopted by this Board on July 25, 2011

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

\_\_\_\_\_  
Vice-President of the Board

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

\_\_\_\_\_  
General Manager/Secretary

\_\_\_\_\_  
Administrative Manager

**PASSED, APPROVED AND ADOPTED** this 25<sup>th</sup> day of July 2011, by the following vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

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

ATTEST:

\_\_\_\_\_  
Secretary

ITEM # 6f

PAGE 1

**RESOLUTION NO. 536**

**A RESOLUTION OF THE CACHUMA OPERATION AND MAINTENANCE BOARD ESTABLISHING A POLICY FOR SIGNING CHECKS DRAWN ON THE CACHUMA PROJECT TRUST FUND AND THE CACHUMA MASTER CONTRACT RENEWAL FUND ACCOUNTS FOR THE PAYMENT OF CLAIMS**

**WHEREAS**, the Cachuma Operation and Maintenance Board has established separate money market accounts at Santa Barbara Bank and Trust for the payment of bills and claims presented to the Board herein called the Cachuma Project Trust Fund and the Cachuma Master Contract Renewal Fund Account (Renewal Fund), and

**WHEREAS**, the checks issued on either money market account require two (2) authorized signatures before the checks are honored by the Bank; and

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

**NOW, THEREFORE BE IT RESOLVED** by the Board of Directors of the Cachuma Operation and Maintenance Board that the following policy be adopted:

All checks issued from the Cachuma Project Trust Fund and Renewal Fund accounts will require two (2) signatures of the following: General Manager, Administrative Manager and any member of the Board of Directors.

This Resolution supersedes Resolution No. 525 dated June 22, 2011 and all resolutions preceding it pertaining to establishing policy for signing checks drawn on the Cachuma Project Trust Fund and Renewal Fund accounts.

**PASSED, APPROVED AND ADOPTED** this 25<sup>th</sup> day of July 2011, by the following vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

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

ATTEST:

\_\_\_\_\_  
Secretary

ITEM # 6g  
PAGE 1

**RESOLUTION NO. 537**

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

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

**WHEREAS**, COMB has identified Santa Barbara Bank and Trust as the most favorable institution with which to establish these accounts; and

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

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

**NOW, THEREFORE BE IT RESOLVED** by the Board of Directors of the Cachuma Operation and Maintenance Board that the following persons are authorized signatories on said account subject to those conditions as specified in Resolution No. 536 adopted by this Board on July 25, 2011.

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

\_\_\_\_\_  
Vice-President of the Board

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

\_\_\_\_\_  
General Manager/Secretary

\_\_\_\_\_  
Administrative Manager

**PASSED, APPROVED AND ADOPTED** this 25<sup>th</sup> day of July 2011, by the following vote:

**AYES:**  
**NAYES:**  
**ABSENT/ABSTAIN:**

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

ATTEST:

\_\_\_\_\_  
Secretary

ITEM # 6h  
PAGE 1

**RESOLUTION NO. 538**

**A RESOLUTION OF THE CACHUMA OPERATION AND  
MAINTENANCE BOARD ESTABLISHING THE TIME AND  
PLACE OF BOARD MEETINGS**

**BE IT RESOLVED** that the Cachuma Operation and Maintenance Board maintains offices and mailing address at 3301 Laurel Canyon Road, Santa Barbara, CA 93105-2017.

**BE IT FURTHER RESOLVED** that the regular meetings of this Board shall be held each fourth Monday of the month, at 2:00 p.m., at the above address.

**BE IT FURTHER RESOLVED** that special meetings of the Cachuma Operation and Maintenance Board may be called at any time by the presiding officer or by a majority of the Directors, in accordance with all provisions of the Government Code section 54956.

**BE IT FURTHER RESOLVED** that this Resolution supersedes Resolution No. 518 dated January 24, 2011 and all resolutions preceding it pertaining to establishing a time and place for COMB Board of Directors' meetings.

**PASSED, APPROVED AND ADOPTED** by the Board of Directors of Cachuma Operation and Maintenance Board, State of California, on the 25<sup>th</sup> day of July 2011, by the following roll call vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

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

ATTEST:

\_\_\_\_\_  
Secretary

ITEM # 6i  
PAGE 1

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: July 25, 2011  
TO: Members of the Board of Directors  
FROM: Bruce Mowry, General Manager  
RE: **Appointment of Outside Auditor to Prepare Financial Statements  
and Independent Auditor's Report for FYE June 30, 2011**

**Recommendation:**

None at this time – for information only.

**Discussion:**

For the June 30, 2011 fiscal year audit, Bartlett Pringle Wolf, LLP submitted a competitive proposal of \$13,000 for the COMB audit. Staff is extremely pleased with their resultant work product and prompt completion of the audit. For the consideration of consistency and continuity, staff has engaged Bartlett Pringle Wolf, LLP to serve as the outside auditor for FY ending June 30, 2011.

Respectfully submitted,



Bruce Mowry  
General Manager



CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: July 25, 2011  
TO: BOARD OF DIRECTORS  
FROM: Bruce Mowry, General Manager  
RE: **Tecolote Tunnel Seepage Study**

DISCUSSION:

The proposed study would be to determine if the amount of seepage that occurs in the Santa Ynez River drainage portion of the tunnel can be distinguished from that occurring in the South Coast portion of the tunnel. Included is a Scope of Work from Stetson Engineers Inc.

Respectfully submitted,



Bruce Mowry  
General Manager

**Scope of Work  
Stetson Engineers Inc.**

Tecolote Tunnel Seepage Study

June 20, 2011

The Tecolote Tunnel is used to divert water from Cachuma Reservoir to the South Coast. The proposed analysis would examine the nature of the tunnel infiltration. The tunnel infiltration would be evaluated to determine if the amount of seepage that occurs in the Santa Ynez River drainage portion of the tunnel can be distinguished from that occurring in the South Coast portion of the tunnel.

**Task 1. Report and Data collection and Review**

Obtain and review existing reports, geologic maps and data on tunnel seepage. There are several older reports that discuss tunnel seepage while the bore was constructed. These will be evaluated for the cumulative rate of flow with tunnel length. Other studies evaluated the decline in seepage as the groundwater system reached a new equilibrium. These will be evaluated for tunnel seepage records and changes in spring discharge on the surface. Historical and ongoing seepage data will be plotted and evaluated to determine if it can be used to assist in the analysis of the amount of flow with distance through the tunnel. Rainfall records will be used to evaluate the variability in seepage in relation to dry and wet cycles. Based on the work of Santa Ynez River Hydrology Committee (1985-1995), there is a correlation between annual rainfall and tunnel infiltration. The Committee also reduced the estimate of long-term tunnel infiltration of about 3,000 afy to about 2,000 afy after the drought of 1990's.

**Task 2. Seepage Calculation**

The information developed in Task 1 will be used to calculate or estimate the amount of seepage that occurs in the north and south side portions of the tunnel. If the data are inconclusive regarding the amount of seepage for each reach, an estimate of seepage on the north and south sides will be calculated from a recent average of seepage and proportioned to the length of the tunnel on each side of the drainage divide.

**Task 3. Technical Memorandum**

A technical memorandum will be prepared documenting the sources of data reviewed, results of analysis and the methodology used to apportion tunnel seepage to the north and south side drainages.

**Cost Estimate**

The cost breakdown for this study is enclosed.

**Period of Study**

It will take about a month to complete the study.

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PAGE 2

**Tecolote Tunnel Seepage Study  
Cost Estimate  
Standard rate schedule**

**Task 1 - Reports, Data Collection and Review**

	Hours	Rate	Amount
Principal	1	185	\$185
Supervising Staff	30	173	\$5,190
Senior I Staff	4	105	\$420
Sr. Assistant Staff	20	92	\$1,840
Graphics	0	79	\$0
GIS/CAD	4	89	\$356
Admin I	0	68	\$0
		Subtotal	\$7,991

**Task 2 - Tunnel Seepage Analysis and Calculation**

	Hours	Rate	Amount
Principal	1	185	\$185
Supervising Staff	16	173	\$2,768
Senior I Staff	2	105	\$210
Sr. Assistant Staff	8	92	\$736
Graphics	0	79	\$0
GIS/CAD	4	89	\$356
Admin I	0	68	\$0
		Subtotal	\$4,255

**Task 3 - Tech Memo**

	Hours	Rate	Amount
Principal	2	185	\$370
Supervising Staff	8	173	\$1,384
Senior I Staff	2	105	\$210
Sr. Assistant Staff	8	92	\$736
Graphics	2	79	\$158
GIS/CAD	4	89	\$356
Admin I	2	68	\$136
Expenses			\$100
		Subtotal	\$3,350

Total      \$15,696

6/20/2011

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PAGE 3

# CACHUMA OPERATION AND MAINTENANCE BOARD

## MEMORANDUM

**DATE:** July 25, 2011  
**TO:** Board of Directors  
**FROM:** Tim Robinson, Sr. Resource Scientist  
Bruce Mowry, General Manager  
**RE:** June 2011 LOWER SANTA YNEZ RIVER FISHERIES REPORT

In compliance with the Cachuma Project Biological Opinion (BO) and as described in the Lower Santa Ynez River Fish Management Plan (FMP) and the Monitoring Program in the 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 during the month of June 2011 that has been broken out by categories.

### Snorkel Surveys:

Snorkel surveys are conducted at the end of the spring, summer and fall each year. The spring survey began in June and the data will be presented in next month's report.

### Thermograph Network:

All thermographs were deployed at the beginning of June to record water temperatures at all designated locations within the LSYR mainstem and several tributaries. The units are downloaded monthly and the results are summarized in the Annual Monitoring Report.

### Tributary Project - Crossing 2:

CPBS worked on obtaining final approval for the project design, the two outstanding permits and preparation of the bid packet. The project should be ready to bid by the third week in July.

### Surcharge Water Accounting:

The following is a table of the amount of Surcharge water used to date from each of the three accounts. All numbers come from Reclamation's Daily Operations Report. The start time for the use of the Surcharge Water Accounts was 5/27/11, the last day the last was a full surcharge.

Accounts*	Allocation	Amount Used**	Amount Remaining
	Units	(acre-feet)	(acre-feet)
Fish Passage	3,200	0	3,200
Adaptive Management	500	0	500
Rearing***	5,242	881	4,361
<b>Total:</b>	<b>8,942</b>	<b>881</b>	<b>8,061</b>

\* Originally was 9,200 and as of 2008 it is 8,942

\*\* Values as of 6/30/11

\*\*\* This is not an official account and is what remains after subtracting the other two accounts.

### Reporting:

CPBS worked on draft 2009 Annual Monitoring Report that is being reviewed by my managers and consultants. Progress was made on the 2010 Annual Monitoring Report that will be ready for review by the end of the summer.

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PAGE 1

**Outreach and Training:**

The Cachuma Project Biology Staff continued to meet with landowners on Quiota Creek in preparation for constructing fish passage projects this fall. CPBS meet with CDFG at Quiota Creek to review project designs for Crossing 1.

**Consultant Activity Summary (June):**

**Melinda Fournier Tree Specialist** (Melinda Fournier) – Cachuma Lake Oak Tree Restoration Program: monthly field maintenance and nursery operations.

**HDR Fisheries Design Center** (Mike Garello) – Design work for Quiota Creek Crossings in preparation for project permitting, regulatory review and grant proposals.

**Stetson Engineers** (Ali Shahroody) – Santa Ynez River hydrological analyses.

**Cardno ENTRIX** (Jean Baldrige) – BO compliance tasks and support.

**Northwest Hydraulic Consultants** (Ed Wallace) – Finalized the Hilton Creek Channel Enhancement Study report.

**CACHUMA OPERATION AND MAINTENANCE BOARD**

**MEMORANDUM**

**DATE:** July 25, 2011

**TO:** Board of Directors

**FROM:** Tim Robinson, Sr. Resource Scientist  
Bruce Mowry, General Manager

**RE: Quiota Creek Crossing 2 MOU Maintenance Agreement with the County of Santa Barbara**

A Memorandum of Understanding (MOU) has been drafted between COMB and the County of Santa Barbara for the maintenance of the Quiota Creek Crossing 2 project area (attached). The MOU was reviewed by the managers during the July 6, 2011 Operating Committee meeting. Staff recommends that COMB submit this draft MOU to the County of Santa Barbara for their review and approval.

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PAGE 1

**AGREEMENT BETWEEN THE COUNTY OF SANTA BARBARA AND THE  
CACHUMA OPERATION AND MAINTENANCE BOARD (COMB) FOR THE  
MAINTENANCE OF ROADWAY, CULVERT, AND STREAMBED IMPROVEMENTS  
AT REFUGIO ROAD CROSSING NUMBER SIX LOCATED 3.8 MILES SOUTH  
FROM HIGHWAY 246**

This Cooperative Agreement (hereinafter "Agreement") is made this \_\_\_ day of \_\_\_\_\_ 2011, by and between the County of Santa Barbara, ("County"), a political subdivision of the State of California, and Cachuma Operation and Maintenance Board ("COMB"), a California Joint Powers Agency.

**RECITALS**

1. COMB is a California Joint Powers Agency formed by a 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. The members of COMB are the City of Santa Barbara, the Carpinteria Valley Water District, the Montecito Water District, the Goleta Water District and the Santa Ynez River Water Conservation District, Improvement District No. 1. COMB has contracted with the United States of America, Department of Interior, Bureau of Reclamation to operate and maintain the transferred project works of the Cachuma Project as defined in the contract.
2. COMB has undertaken the responsibility of improving fish passage in various areas of the Santa Ynez River and tributaries thereof, to assist the Bureau of Reclamation in complying with a Biological Opinion issued by the National Marine Fisheries Service pursuant to the Federal Endangered Species Act.
3. Specifically, COMB has performed fish passage improvements along Refugio Road where it crosses Quiota Creek
4. Refugio Road Crossing Number Six, located 3.8 Miles south from Highway 246 (Latitude 34° 33' 35.26"N, Longitude 120 5' 5.46"W), was a single-lane bridge with non-compliant railings. COMB has modified the road crossing through the installation of a bottomless arched culvert bridge to improve: (1) access and road safety for the traveling public; and (2) steelhead fish passage below the bridge in the streambed.
5. Refugio Road is listed on the County road inventory as a County-maintained road.
6. In the spirit of government-to-government cooperation, COMB and the County agreed to work together to facilitate fish passage and road repairs to Refugio Road where it crosses Quiota Creek, where feasible.
7. COMB undertook and successfully completed the construction of a bottomless arched culvert bridge and appurtenances on Refugio Road at Crossing Number Six (6) within the County road easement ("the Project"). The location and maintenance

responsibilities for the Project are set forth respectively in Exhibits "A" and "B" hereto, incorporated by reference herein.

8. The County issued COMB a conditional Road Encroachment Permit ("Permit") for the construction of the Project improvements referenced in the prior recital. A fully executed copy of County's Permit No. 040146 is attached hereto as Exhibit "C" and incorporated by reference herein
9. COMB also constructed and completed streambed improvements as a part of the Project, both inside and outside of the road easement below the bridge, as described in Exhibits A and B, respectively.
10. On date 1/23/09, the County officially signed off on and approved the Encroachment Permit upon successful completion by COMB of the Project on Refugio Road (See Exhibit D). The County acknowledges and agrees that COMB complied with all requirements of the Permit in constructing the Project and has no further obligations under the Permit. The County has now taken ownership of the roadway, bridge and embankment elements of the Project.
11. The County and COMB believe it is in their respective mutual interest to enter into this Agreement, to assign responsibility for ownership and future maintenance of various facets of the Project.

NOW THEREFORE, in recognition of an exchange of valuable consideration, the parties agree as follows:

#### **I. ROADWAY AND CULVERT FACILITIES**

The County accepts ownership of the roadway and culvert portions of this Project, which shall consist of the base material, asphalt, concrete structural section, bottomless arched culvert structure and associated structures such as wing walls, abutments, shoulders, guard-hand railings, graffiti proofing treatment, and graffiti removal. The County's maintenance responsibilities are depicted in Exhibit "B".

#### **II. STREAMBED IMPROVEMENTS**

COMB accepts ownership of the streambed improvements portion of the Project, which shall consist of weirs, rocks, rip rap, and other features placed in the streambed to facilitate fish passage. These items include present and future alterations of the streambed and weirs and other fish passage features or works, as required to maintain fish passage (consistent with the terms of any biological opinion issued by the National Marine Fisheries Service in connection therewith); stream erosion control; and vegetation maintenance or mitigation vegetation planting done in accordance with state or federal regulatory agency requirements.

Notwithstanding any provision to the contrary in Exhibit "B," COMB's maintenance responsibilities for the streambed improvements shall be limited to routine repair and



maintenance. In the event of flood damage which either destroys or in COMB's sole discretion significantly damages the project improvements, COMB shall not be obligated to repair or replace the improvements. Further, COMB shall not be responsible in any manner for general channel maintenance.

### III. NOTICES

All notices required or provided for under this Agreement shall be in writing and delivered in person or sent by certified mail, postage prepaid, return receipt requested to the principal offices of the County and COMB. Notices shall be effective on the date delivered in person or on the date when the postal authorities indicated that the mailing was delivered to the address of the receiving party indicated below:

Notice to COMB: COMB  
3301 Laurel Canyon Road  
Santa Barbara, CA 93105

Notice to County: County of Santa Barbara  
Public Works Department  
123 E. Anapamu Street  
Santa Barbara, CA 93101  
Attn: Director of Roads/Transportation

Such written notices, demands, correspondence and communications may be sent in the same manner to such other persons and addresses as either party may from time to time designate by mail as provided in this section. A party may change its address by giving notice in writing to other Party and thereafter notices shall be delivered or sent to such new address.

### IV. INDEMNIFICATION AND INSURANCE

#### A. INDEMNIFICATION BY COMB

COMB shall indemnify, defend and hold the County and the County's agents, officers and employees, harmless from and against all claims, damages, losses, causes of action and expenses, including reasonable attorneys' fees, for any personal injury, bodily injury, loss of life or damage to property, violation of any federal, state or municipal law, ordinance or constitutional provision, or other cause which arise out of, relate to, or result from the activities or omissions, negligent or otherwise, under this Agreement of COMB, and COMB's agents, officers and employees.

#### B. INDEMNIFICATION BY COUNTY OF SANTA BARBARA

The County shall indemnify, defend and hold COMB, and COMB's agents, officers and employees, harmless from and against all claims, damages, losses, causes of action and expenses, including reasonable attorneys' fees, for any personal injury, bodily injury, loss of

life or damage to property, violation of any federal, state or municipal law, ordinance or constitutional provision, or other cause which arise out of, relate to, or result from the activities or omissions, negligent or otherwise, under this Agreement of the County and the County's officers, agents and employees.

#### C. NO AGENCY

Except as otherwise specified herein, for the purposes of this section, COMB shall not be deemed to be the County's agent, and the County shall not be deemed to be COMB's agent.

#### D. NOTIFICATION

Each party shall give the other prompt notification when it first learns of an incident or occurrence covered, or likely to be covered, under the terms of this indemnity provision, as well as prompt notification if a claim is made or suit is brought against a party based on an incident or occurrence covered, or likely to be covered, by the terms hereof.

#### E. CONTINUING OBLIGATION

To the extent that the COMB has agreed to indemnify, defend and hold harmless the County and its officers, agents and employees under this Agreement, said obligations shall continue to exist during the term of this Agreement and subsequent to termination of this Agreement for those acts or omissions giving rise to liability occurring during this Agreement.

To the extent that the County has agreed to indemnify, defend and hold harmless COMB and its officers, agents and employees under this Agreement, said obligations shall continue to exist during the term of this Agreement and subsequent to termination of this Agreement for those acts or omissions giving rise to liability occurring during this Agreement.

#### F. INSURANCE

Each party recognizes and accepts that the other party is self-insured. Either party may purchase commercial insurance to cover their exposure hereunder, in whole or in part.

#### V. TERM OF AGREEMENT

This Agreement shall remain in effect until mutually terminated in writing signed by both parties.

#### VI. MISCELLANEOUS PROVISIONS

This Agreement, together with the exhibits, constitutes the entire understanding and agreement of the Parties. Any terms of this Agreement which are in conflict with any terms of the exhibits shall supersede the terms of the exhibits. This Agreement integrates all of the terms and conditions mentioned herein or incidental hereto, and supersedes all negotiations or previous agreement between the Parties with respect to all or any part of the subject matter hereof. This

Agreement is the product of mitigation and shall not be construed against a drafting party.

This Agreement may be amended by mutual written agreement of the Parties duly executed by the lawfully authorized officers or officials of each party.

The foregoing recitals are incorporated herein by reference as if fully set forth.

IN WITNESS WHEREOF, the Agreement has been executed by the Parties as of the day and year first set forth above,

**COMB:**

COMB, a California Joint Powers Agency

By: \_\_\_\_\_  
President, COMB

**COUNTY:**

COUNTY OF SANTA BARBARA, a political subdivision of the State of California

By: \_\_\_\_\_  
Chair of the Board of Supervisor

By: \_\_\_\_\_  
Auditor Controller

By: \_\_\_\_\_  
Risk Management

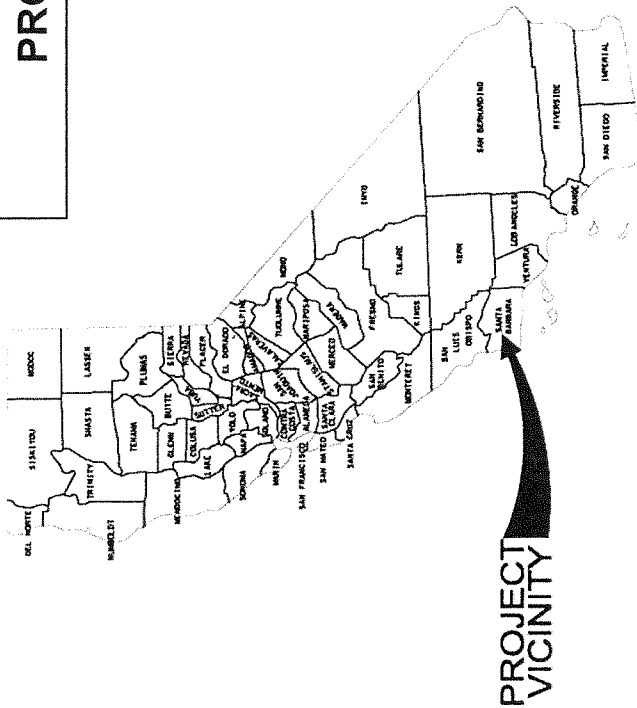
**Exhibits:**

- A) Project Location**
- B) Plan and Profile View**
- C) Encroachment Permit**
- D) County Approval**

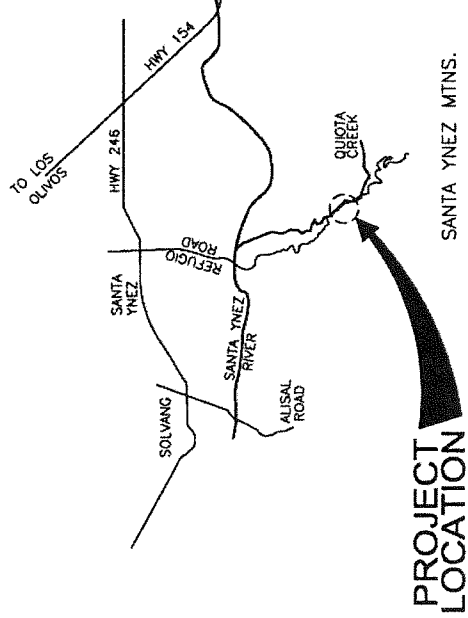
**EXHIBIT A**

**Refugio Road Crossing Number  
Six over Quiota Creek**

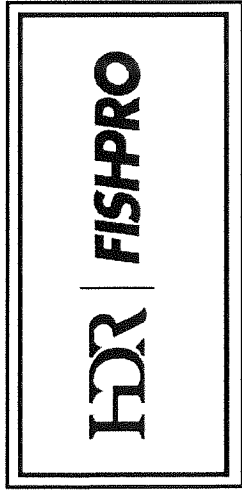
**PROJECT LOCATION**

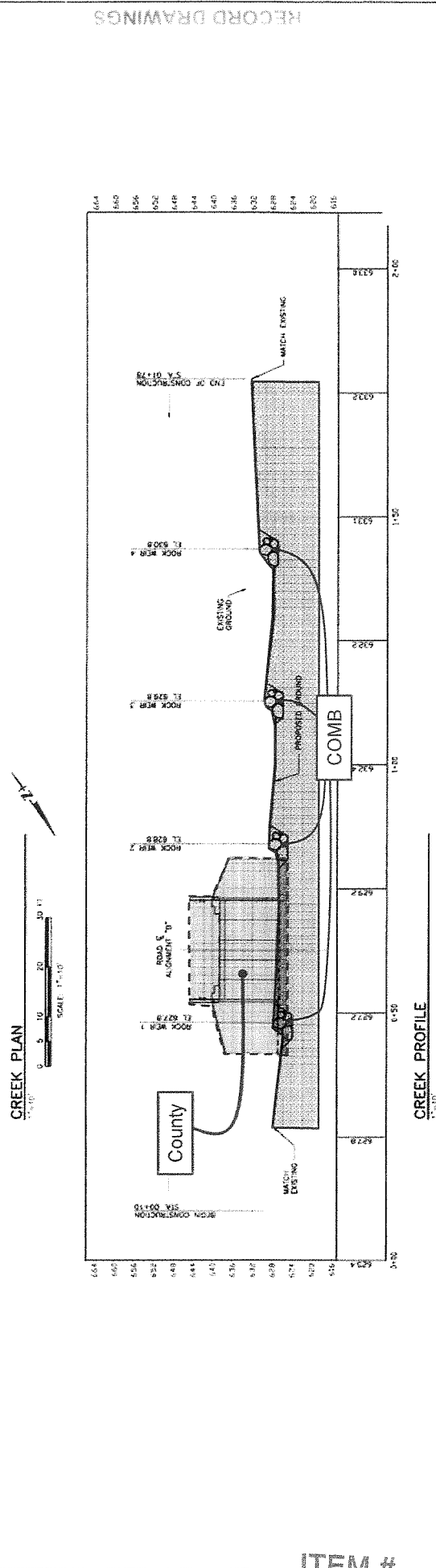
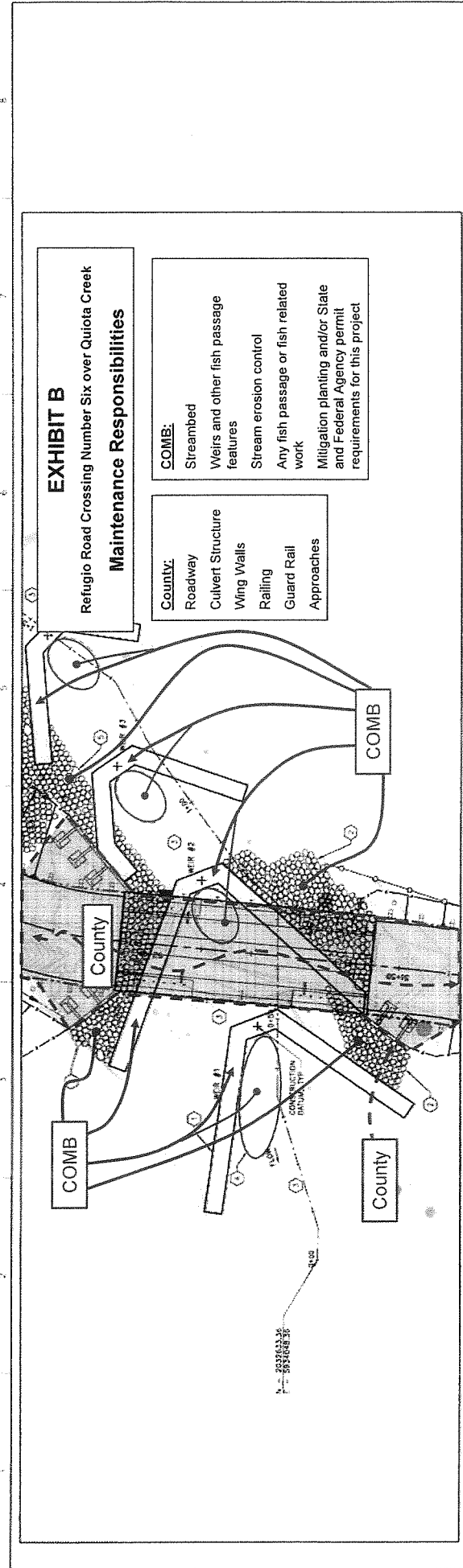


**STATE MAP**



**VICINITY MAP**





**QUIOTA CREEK FISH PASSAGE  
ENHANCEMENT PROJECT**

*Refugio Rd*  
**CULVERT  
PLAN AND PROFILE**

DATE: 06/10/09  
SCALE: 1" = 10'

<p>PROJECT NUMBER: 04003</p>	<p>PROJECT MANAGER: WGS CHECKED BY: SWS DESIGNED BY: WGS</p>	<p>DATE: 06/10/09</p>	<p>SHEET: 5</p>
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111177

RECORD DRAWINGS



**COUNTY OF SANTA BARBARA**  
**DEPARTMENT OF PUBLIC WORKS - TRANSPORTATION**  
**ROAD ENCROACHMENT PERMIT**

*EXHIBIT*  $\Delta$

PERMIT NO. 040148

September 18, 2008

ROAD NAME PARK LN

**INSPECTION REQUIRED - SEE ATTACHED REQUIREMENTS**

OWNER: MIKE HAMMER (name) 9255 DOHENY ROAD #3102, LOS ANGELES, CA 90069 (address)  
 APPLICANT: CALVIN DESIGN - SOPHIE CALVIN (name) P.O. BOX 50716; SANTA BARBARA, CA 93150 (address)

hereby makes application for permit to excavate and/or encroach in the Public Road/Right-of-Way at the location(s) and as described herein, subject to the provisions required by Ordinance No. 1491, of Santa Barbara County, applicable State or Federal Regulations, AND ANY SPECIFIED REQUIREMENTS ATTACHED HERETO.

In consideration of the granting of this permit it is agreed by the applicant that the County of Santa Barbara and any officer or employee thereof shall be saved harmless by the applicant from any liability or responsibility for any accident, loss or damage to persons or property, happening or occurring as the proximate result of any of the work undertaken under the terms of this application and the permit or permits which may be granted in response thereto, and that all of said liabilities are hereby assumed by the applicant. It is further agreed that if any facilities placed in the excavation or obstruction for which this application is granted and approved as a permit, shall become incompatible with future travel by the general public, then the applicant or its assigns or successors will, either remove such facilities in cases where such removal is necessary or in cases where the use thereof has been or is to be abandoned, or in other cases, applicant or its assigns or successors, will relocate such facilities at a location designated by the Commissioner, as provided in Section 30 and 30.1 of Ordinance No. 1491 of the County of Santa Barbara.

The provisions of the foregoing sentence shall not apply in any case where the easement for the facilities was in existence prior to the existence as such of the public highway concerned herein.

**DESCRIPTION OF ENCROACHMENT:**

This permit is to pave over existing drainage swale per the attached plan by Sophie Calvin of Calvin Design. Existing flow line shall be maintained to provide proper drainage flow. Traffic control shall be the caltrans "t" series and one lane of traffic shall be kept open at all times or as directed by Roads Division Inspector. Please notify Inspector @ 805 681 4990 a minimum of 48 hours prior to the start of any scheduled work activities All work shall be in accordance with the attachments and the applicable sections of the County Road Encroachment Permit Requirements to include the latest edition of the Caltrans & the County Engineering Design Standards.

I hereby acknowledge and accept receipt of this Road Encroachment Permit and its Requirements and fully understand my responsibility as the Permittee to abide by and comply with all requirements contained herein.

(name) SOPHIE CALVIN

Location of Encroachment: 670 PARK LN, MONTECITO - CROSS STREET: ( )

APN # 007-130-001 U.S.A. # \_\_\_\_\_ Tract # \_\_\_\_\_ File # \_\_\_\_\_

Contractor \_\_\_\_\_ Bldg. Permit # \_\_\_\_\_

Contractor Phone \_\_\_\_\_ Start Date \_\_\_\_\_

Permit Received By:

Signed: [Signature] Date: 9/19/08

Business Address P.O. BOX 50716; SANTA BARBARA

City, State Zip CA 93150

Phone (805) 969-0559

Attachments Yes  No \_\_\_\_\_

Approved \_\_\_\_\_ Date \_\_\_\_\_

[Signature] 9/18/08  
 work indicated on this permit is complete and acceptable.

Inspector [Signature] Date 1-23-09

Issuance Fee	\$68.00
Inspection Fee	\$296.00
Plan Check Fee	_____
Pavement Cut Restoration Fee	_____
Restoration Bond Deposit	_____
	\$364.00
Bond No: _____	TOTAL FEES

Most recent Receipt:  4988141  
 Receipt Check No:  
 CASH \_\_\_\_\_ CHECK #6177  
 Paid to Date (all receipts) \$364.00

VOID IF WORK IS NOT STARTED IN 30 DAYS AND CONTINUED TO COMPLETION  
 WHITE - APPLICANT COPY CANARY - FILE COPY PINK - INSPECTION COPY

ITEM # \_\_\_\_\_  
 INSPECTOR COPY  
 PAGE 9

## COMB OPERATION AND MAINTENANCE BOARD

### MEMORANDUM

**DATE:** July 25, 2011  
**TO:** Board of Directors  
**FROM:** Bruce Mowry, General Manager  
Jim Colton, Engineer  
**RE:** Modified SCC Upper Reach Reliability Project Update

#### DISCUSSION:

##### Concept Design Phase

As directed by the Board, on July 19<sup>th</sup>, staff notified all member agencies that the draft Conceptual report for the Modified South Coast Conduit Upper Reach Reliability Project (MURRP) was available for review. COMB asked for comments to be returned no later than July 22<sup>nd</sup> as there are three parts (Preliminary Design, Design, and Bid Phase Service) with seventeen tasks outlined in Task Order No. 37 that need to be accomplished to stay on schedule. AECOM has been working on conceptual design refinement in preparation of a more specific project description to be used for permitting purposes and project planning.

Part 1, Preliminary Design Phase, includes concept design refinement, preliminary analysis, conceptual designs, and alternatives for consideration. Staff and member agencies will be very involved in this phase of the project, by providing valuable insight and oversight to the design team. These conceptual designs will be used to continue the permitting process. Property easement requirements will be revisited and compared to previously acquired locations. Additional surveys will be required at various locations along the proposed project as it differs from the 2<sup>nd</sup> Pipeline Project footprint.

After receipt of comments, AECOM will produce a final Concept Design Report.

##### Environmental Compliance and Permitting

The Concept Design Report from AECOM will determine the actions for any additional environmental compliance required for the MURRP. Although there will be no significant impacts likely to occur, further environmental compliance measures will be necessary for the project, in some capacity, regardless of the site specific detail in the Concept Design Report. An addendum to file to the 2<sup>nd</sup> Pipeline Project EIR will be necessary to identify changes to the original project for CEQA compliance, and will also be necessary for NEPA compliance. The nature of the addendum is dependent on the new Project Description identified in the Concept Design Report.

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PAGE 1

A Categorical Exemption will be required for the Air Vent and Blow Off Rehabilitation and for the Glen Annie/Goleta West Meter Rehabilitation work. If pipeline replacement is determined to be a necessary component of the project, a separate environmental analysis could be required by Reclamation referencing the 2<sup>nd</sup> Pipeline EIS for a NEPA specific analysis. Because replacement of sections of the SCC would be considered a new action under NEPA, this would trigger a NHPA Section 106 review of the project. Any pipeline replacement work will be on the existing SCC, and it is anticipated that due to the pre-disturbed nature of the soil substrate for the existing SCC alignment that no further Section 106 compliance will be required. Section 106 permitting and SHPO concurrence has already been completed for the South Portal Structure as part of the 2<sup>nd</sup> Pipeline Project.

Section 7 Endangered Species Act compliance may also be reviewed. However, this will be determined by Reclamation after review of the Concept Design Report and new Project Description. Additional compliance for the Section 7 consultation will be dependent on the location of any pipeline replacement section within riparian habitats. The South Portal replacement is substantially consistent with the existing EIS/EIR and Record of Decision, therefore may not need any further compliance.

#### Schedule

AECOM anticipated that the scope of services for the Design through Bidding Phases of the MURRP (excluding construction phase services) would be completed within 180 calendar days from the notice to proceed (May 11, 2010). Therefore, the attached schedule was pushed out by one month showing the Bidding Phase to end approximately in November 2011. The schedule has been adjusted to show completion of the project by January 2013 to comply with the SWRCB Prop 50 requirements.

Respectfully submitted,



Bruce Mowry,  
General Manager





## Operations Report – June 2011

The average flow from Lake Cachuma into the Tecolote Tunnel for June was 81.5 acre-feet per day. The lake elevation was 752.94 feet at the beginning of the month and 752.50 feet at the end. The storage change was -1,331 acre-feet. “94” acre-feet of State Water Project water was wheeled through Cachuma Project facilities and delivered to South Coast Member Units during the month.

Ortega Reservoir was brought up to just below 18 feet of water (max depth 19.85 feet) and was inspected by a diver on July 18<sup>th</sup> and 19<sup>th</sup>. Daily toe drain readings were taken as the reservoir was brought up to elevation. Montecito Water District is preparing a resulting report.

Shane King (COMB Water Worker 1) has passed the Pesticide Applicators Professional Associates (PAPA) certification course. The Pesticide Applicators Professional Association is a California non-profit, public benefit corporation which is dedicated to providing Continuing Education to the implementation of safe and effective pest control techniques.

COMB has hired a new Water Worker I (David Flora) and an Engineering Technician (Megan Emami).

Other activities conducted this period include:

- O&M staff continues to use the newly computerized maintenance program to track progress on our aggressive structure rehabilitation and maintenance program on the South Coast Conduit structures.
- Staff has applied for a Biannual Caltrans permit to allow COMB to periodically work within Caltrans ROW to perform maintenance activities. COMB staff has completed traffic safety and flagging seminars and maintains a supply of traffic control devices.
- Staff continues to de-water Lauro Debris Basin as ground water infiltration continues to pond as much as one foot of water at the low point. Debris clearing is budgeted in the new FY 2011-2012 budget. Staff is attempting to dry out the basin as much as possible at this time. Staff will seek other competitive proposals to perform the work prior to proceeding.
- Staff continues to work on the Modified Upper Reach Reliability Project keeping reliability as the project premise. Staff will include member agencies in all meetings and copy on all correspondence.
- Staff has received final emergency SCC repair plans and specifications from AECOM. Specifications are being revised by COMB legal council to use a Master Contract format with General Requirements attached to complete the document. The goal is to secure materials on-site and coordinate the services of

at least four local contractors to be prepared in the event of a SCC emergency shut down or failure.

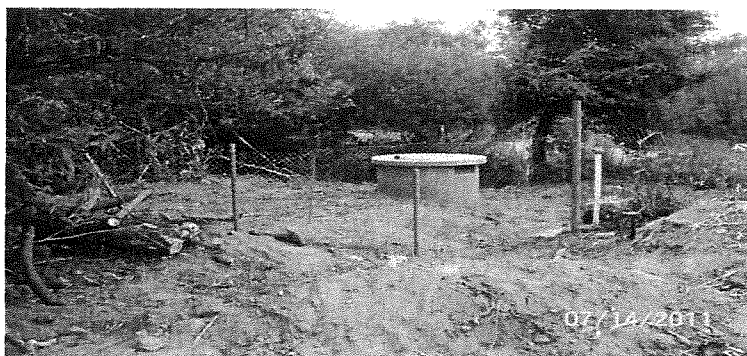
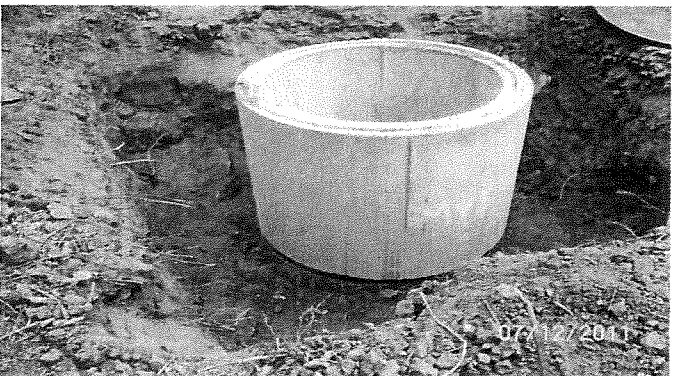
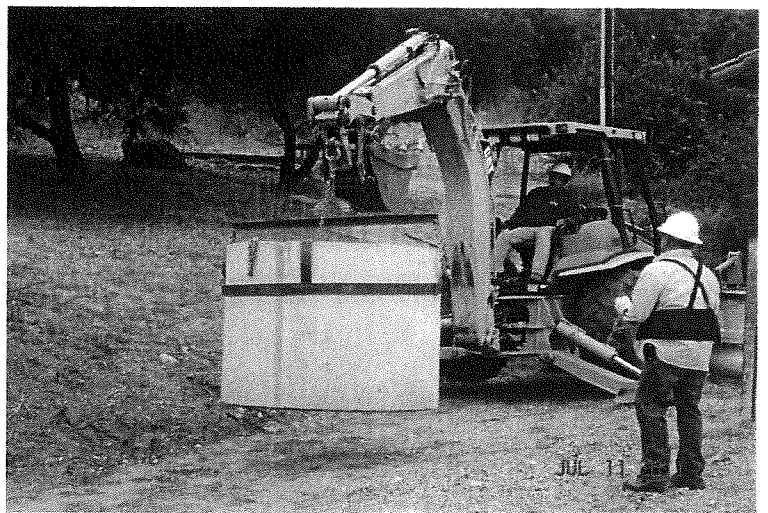
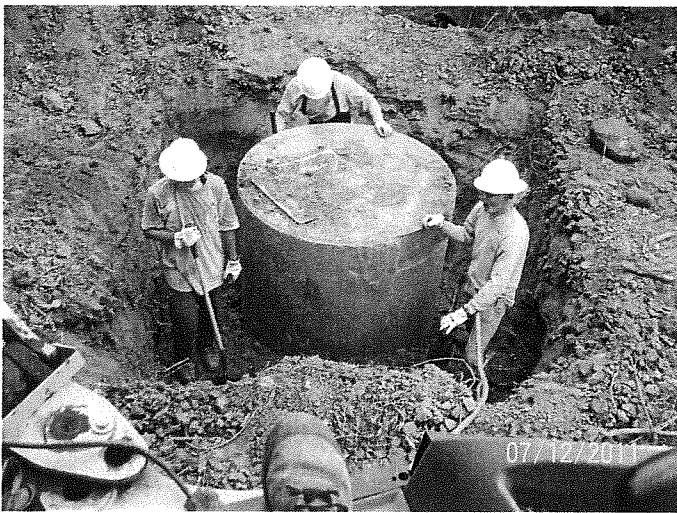
- Ninety five percent designs and specifications for vent structures and blow off modifications along the SCC as identified in the second Reliability Study have been received. These modifications are designed to reduce hydraulic constrictions in the system without significant system overstress. Three critical areas identified are: Barker Pass Vent Modifications, Return Pipe to Lauro Reservoir, and Sheffield Vent Modifications. The design package is pending funding but will be bid ready with only minor work in the future.
- COMB's next quarterly C.I.P. meeting will be held October 6<sup>th</sup> at 9:30 a.m. at the COMB office.
- The final Third Reliability Alternatives Study was delivered to COMB on June 13th. The document is located on an ftp site that is password protected.
- July 8<sup>th</sup>, 2011, staff received a copy of a letter from the Department of the Army to the State Historic Preservation Officer concerning the future Mission Creek Crossing Project. The Corps has requested concurrence on the adequacy of the historic property identification efforts and the finding of "no historic properties affected" for the proposed undertaking. The permit process is being kept active as it is very lengthy. A decision was made to finish the permitting process and put the Project on the "shelf" until funding is secured.
- Over burden conditions still exist on the Brown property. COMB continues to monitor the permitting process.
- A metal cover was installed over the dedicated inflow mag meter vault at Ortega Reservoir. The meter was also recalibrated and put back into service.
- Staff has raised a blow off structure with a four foot man hole extension ring located on Foothill road near Nidever Road in Carpinteria (see attached pictures). Staff rented an 8000 pound capacity lift to move the heavy structure on and off at location.
- TESCO Controls, Inc. replaced and reconfigured the existing SCADA backup system with computer hardware and software pertaining to the existing historical data server.
- On June 30, with COMB supervision, the California Department of Forestry (CDF) supplied a crew to clear debris off of the Ortega Dam face.
- Staff has researched and supplied past FEMA flood repair information to close out the books and receive final sign off.
- On July 13th, City of Santa Barbara TV was escorted to select locations to film elements of the SCC. The tour was permitted by the Bureau of Reclamation.

Routine monthly operation and maintenance activities conducted during this period included:

- Water samples taken at the North Portal Intake Tower
- Fish screens were pulled and cleaned
- Monitored conduit right-of-way and responded to Dig Alert reports
- Read piezometers and underdrains at Glen Anne, Lauro, Ortega and Carpinteria Dams
- Remove undesirable vegetation from dam faces and other structures
- Place rodent bait traps at all facilities
- Meter reads, monthly dam inspections, and venturi meters flushed monthly
- Prepare and distribute pesticide use report
- Monitor dam conditions and send report to USBR
- Monitor cathodic protection at Lauro Yard (54" steel pipe)

Blow Off Station 698+55

Foothill Rd, Carpinteria



ITEM # 11a

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**CACHUMA OPERATION AND MAINTENANCE BOARD  
METERED USE REPORT FOR JUNE 2011**

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
<b>CARPINTERIA WATER DISTRICT</b>			<b>GOLETA WATER DISTRICT</b>		
Boundary Meter		231.80	18+62	G. WEST #1	0.00
Less 2% system losses		(4.64)	18+62	G. WEST #2	23.00
			78+00	Corona Del Mar FILTER Plant	975.12
			122+20	STOW RANCH	0.01
				CAMINO REAL (Bishop)	0.00
				SWP CREDIT	0.00
				Morehart Land (SWP)	0.00
				Raytheon (SWP)	(50.00)
				La Cumbre (SWP)	0.00
			<b>TOTAL</b>		<b>948.13</b>
			<b>MONTECITO WATER DISTRICT</b>		
			260+79	BARKER PASS	50.36
			386+65	MWD YARD	97.60
			487+07	VALLEY CLUB	3.95
			499+65	E. VALLEY-ROMERO PUMP	86.59
			599+27	TORO CANYON	6.25
			510+95	ORTEGA CONTROL	18.92
			510+95	MWD PUMP (SWD)	17.25
			526+43	ASEGRA RD	0.40
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.33
				SWP CREDIT	0.00
				SWP CREDIT - CVWD	0.00
			<b>TOTAL</b>		<b>281.65</b>
			<b>CITY OF SANTA BARBARA</b>		
			CATER	INFLOW	1,761.27
			"	SO. FLOW	(652.37)
			Gibraltar	PENSTOCK	(265.90)
			Sheffield	SHEF.LIFT	131.09
				STANWOOD MTR TO SCC-credit	0.00
				SWP CREDIT	0.00
				La Cumbre Mutual (SWP) transfer	(44.00)
			<b>TOTAL</b>		<b>930.08</b>
			<b>S. Y. RIVER WTR CON DIST., ID#1</b>		
			<b>COUNTY PARK, ETC</b>		
			<b>TOTAL</b>		<b>8.03</b>
			<b>BREAKDOWN OF DELIVERIES BY TYPE:</b>		
			STATE WTR DELIVERED TO LAKE		94.00
			STATE WATER TO SOUTH COAST		94.00
			BISHOP RANCH DIVERSION		0.00
			<b>METERED DIVERSION</b>		<b>2,395.06</b>
			<b>STATE WTR CRD</b>		
					0.00
			<b>TOTAL</b>		<b>227.16</b>
Note:					
COMB meter reads were taken on 6/30/2011					

**10-11 ENTITLEMENT**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF JUNE 2011 AND THE WATER YEAR TO DATE**

(All in rounded Acre Feet)

						<b>MONTH TOTAL</b>	<b>YTD TOTAL</b>
<b>WATER PRODUCTION:</b>							
Cachuma Lake (Tec. Diversion)						2,447	18,758
Tecolote Tunnel Infiltration						205	1,410
Glen Anne Reservoir						0	0
Cachuma Lake (County Park)						8	49
State Water Diversion Credit						94	689
Gibraltar Diversion Credit						0	0
Bishop Ranch Diversion						0	100
Meter Reads						2,395	19,006
So. Coast Storage gain/(loss)						10	(68)
Total Production						2,659	20,217
Total Deliveries						2,499	19,727
Unaccounted-for						161	490
% Unaccounted-for						6.04%	2.42%
<b>WATER USE:</b>							
	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRWCD I.D. #1</b>	<b>TOTAL</b>	
M&I	775	930	254	117	8	2,085	
Agricultural	173		27	110		310	
<b>TOTAL FOR MONTH</b>	<b>948</b>	<b>930</b>	<b>282</b>	<b>227</b>	<b>8</b>	<b>2,395</b>	
Same Mo/prev. yr	1,265	553	400	405	11	2,634	
M&I Yr to date	6,513	7,405	1,364	990	49	16,322	
Ag. Yr to date	1,146	0	144	752	0	2,042	
<b>TOTAL YTD</b>	<b>7,659</b>	<b>7,405</b>	<b>1,509</b>	<b>1,742</b>	<b>49</b>	<b>18,364</b>	
USAGE % YTD	57.9%	51.4%	37.9%	40.2%	2.6%	48.5%	
<b>Previous Year/YTD</b>	<b>8,184</b>	<b>5,780</b>	<b>2,244</b>	<b>1,677</b>	<b>39</b>	<b>17,924</b>	
Evaporation	0	0	0	0	0	0	
Evaporation, YTD	11	104	17	16	1	149	
Entitlement	9,322	8,277	2,651	2,813	2,651	25,714	
Carryover	1,566	6,754	1,122	1,231	112	10,785	
Carryover Balances Spilled YTD	0	(2,547)	(529)	(339)	(7)	(3,422)	
Surplus^^	1,879	1,804	470	457	488	5,098	
State Water Exchange^	472	314	314	210	(1,310)	0	
Transfers*/Adjustment***	0	0	0	0	0	0	
Passthrough H2O**	0	0	0	0	0	0	
<b>TOTAL AVAILABLE</b>	<b>13,239</b>	<b>14,602</b>	<b>4,028</b>	<b>4,372</b>	<b>1,934</b>	<b>38,175</b>	
<b>REMAINING BALANCE</b>	<b>5,568</b>	<b>7,093</b>	<b>2,502</b>	<b>2,614</b>	<b>1,884</b>	<b>19,662</b>	

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

State Water Deliveries for JUNE to Lake Cachuma were: MWD 0 AF; CVWD 0 AF  
GWD 0 AF (Morehart 0 AF); City of S.B. 0 AF; and LaCumbre 44 AF; (Ratheon 50 AF).

^ Per SWP Exchange Agrmt GWD received 170 AF; MWD received 114;  
City of SB received 114 AF; and CVWD received 76 AF from ID#1 in JUNE 2011.

^^ Spill declared 3/20/2011 - Spill declared over 5/13/2011

# CACHUMA OPERATION AND MAINTENANCE BOARD WATER STORAGE REPORT

MONTH: June 2011

## GLEN ANNIE RESERVOIR

Capacity at 385' elevation:	518 Acre Feet
Capacity at sill of intake at 334' elevation:	21 Acre Feet
<b>Stage of Reservoir Elevation</b>	<b>346.00 Feet</b>
<b>Water in Storage</b>	<b>80.96 Acre Feet</b>

## LAURO RESERVOIR

Capacity at 549' elevation:	600 Acre Feet
Capacity at sill of intake at 512' elevation:	84.39 Acre Feet
<b>Stage of Reservoir Elevation</b>	<b>546.70 Feet</b>
<b>Water in Storage</b>	<b>543.75 Acre Feet</b>

## ORTEGA RESERVOIR

Capacity at 460' elevation:	65 Acre Feet
Capacity at outlet at elevation 440':	0 Acre Feet
<b>Stage of Reservoir Elevation</b>	<b>449.60 Feet</b>
<b>Water in Storage</b>	<b>27.96 Acre Feet</b>

## CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45 Acre Feet
Capacity at outlet elevation 362':	0 Acre Feet
<b>Stage of Reservoir Elevation</b>	<b>378.00 Feet</b>
<b>Water in Storage</b>	<b>30.26 Acre Feet</b>

## TOTAL STORAGE IN RESERVOIRS

	601.98 Acre Feet
<b>Change in Storage</b>	<b>9.78 Acre Feet</b>

## CACHUMA RESERVOIR\*

Capacity at 750' elevation:	186,636 Acre Feet
Capacity at sill of tunnel 660' elevation:	25,668 Acre Feet

Stage of Reservoir Elevation	752.5 Feet
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Water in Storage	194,065 AF
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Area	3,026
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Evaporation	1,462.2 AF
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Inflow	3,173 AF
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Downstream Release WR8918	0 AF
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Fish Release	776.2 AF
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<b>Spill/Seismic Release</b>	<b>0 AF</b>
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State Project Water	94 AF
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Change in Storage	-1,331 AF
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Tecolote Diversion	2,446.5 AF
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**Rainfall: Month: 0.34 Season: 31.09 Percent of Normal: 150%**

\* New capacity table adopted Dec. 2008 as a result of the Bathymetric Study completed in Sept. 2008, resulted in 1110 AF reduction of storage.



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

Contract Year: 10/1/10 to: 9/30/11

Contract Entity: Carpinteria Valley Water District  
 Last updated by C.O.M.B. 6/30/11

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT		
	2813	1231		M&I	Agr	Total	Evap	Div	Acre-feet	Total	M&I	Allocation	M&I	Agr
Oct				136	114	251	7	251	258	140	117	0	0	0
Nov				138	88	226	3	226	229	140	89	0	0	0
Dec				127	62	189	2	189	191	128	63	0	0	0
Jan				66	33	99	1	99	100	67	33	0	0	0
Feb				33	21	54	1	54	55	34	22	0	0	0
Mar				35	21	57	2	57	58	37	22	0	0	0
Apr				160	130	290	0	0	0	0	0	160	130	290
May				178	173	351	0	0	0	0	0	178	173	351
Jun				117	110	227	0	0	0	0	0	117	110	228
Jul														
Aug														
Sep														
Total	2813	1231		991	753	1,744								

**CONVERSIONS**

Month	STORAGE WATER		CURRENT SCHEDULE		SCHEDULE AND REVISIONS		SCHEDULE AND REVISIONS		
	M&I	Agr	M&I	Agr	M&I	AG	M&I	AG	
Oct	0	0	0	0	1,231	456	775	1,013	1,800
Nov	0	0	0	0	0	0	12	12	2,813
Dec	0	0	0	0	0	0	0	0	0
Jan	19	-19	0	0	0	0	0	0	0
Feb	34	-34	0	0	0	0	0	0	0
Mar	37	-37	0	0	(339)	(339)	28	28	28
Apr	0	0	0	0	0	0	337	337	337
May	0	0	0	0	0	0	214	214	214
Jun	0	0	0	0	0	0	76	76	76
Jul	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0

**REMAINING BALANCES**

Month	Total		M&I		AG		Total	
	M&I	AG	M&I	AG	M&I	AG	M&I	AG
Oct	973	316	658	1800	1025	1800	2825	2825
Nov	744	176	569	1800	1025	1800	2825	2825
Dec	553	48	506	1800	1025	1800	2825	2825
Jan	453	0	454	1800	1025	1800	2825	2825
Feb	398	0	398	1800	1025	1800	2825	2825
Mar	0	0	0	1800	1053	1800	2853	2853
Apr	0	0	0	1670	1230	1670	2900	2900
May	0	0	0	1497	1266	1497	2763	2763
Jun	0	0	0	1387	1225	1387	2611	2611
Jul								
Aug								
Sep								
Total	2,611	991	2,611	17,444	10,225	18,000	28,225	28,225

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

Contract Year: 10/1/10 to: 9/30/11

Contract Entity: **Goleta Water District**  
 Last updated by C.O.M.B. 6/30/11

Approved Schedule Current Year: 9322  
 Carryover Previous Year: 1566

Month	TOTAL WATER USED		WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT		
	M & I	Agr	Evap	Div	Total	M & I	Agr	Total
Oct	698	191	9	889	898	705	193	0
Nov	632	115	2	666	668	565	103	69
Dec	564	83	0	0	0	0	0	564
Jan	614	37	0	0	0	0	0	614
Feb	576	104	0	0	0	0	0	576
Mar	612	55	0	0	0	0	0	612
Apr	952	120	0	0	0	0	0	952
May	1,090	268	0	0	0	0	0	1,090
Jun	775	173	0	0	0	0	0	775
Jul								
Aug								
Sep								
Total	6,513	1,147			7,660			948

**CONVERSIONS**

Month	STORAGE WATER		CURRENT SCHEDULE		SCHEDULES AND REVISIONS	
	M & I	Agr	M & I	AG	M & I	AG
Oct	0	0	0	0	0	0
Nov	492	-492	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
Apr	0	0	0	0	0	0
May	0	0	0	0	0	0
Jun	0	0	0	0	0	0
Jul	0	0	0	0	0	0
Aug	0	0	0	0	0	0
Sep	0	0	0	0	0	0
Total	492	-492	1,566	778	1,566	778

**REMAINING BALANCES**

Month	REMAINING BALANCES		REMAINING BALANCES	
	M & I	AG	M & I	AG
Oct	668	73	6889	2460
Nov	0	0	6820	2447
Dec	0	0	6256	2364
Jan	0	0	5642	2327
Feb	0	0	5066	2223
Mar	0	0	4710	2168
Apr	0	0	4937	2048
May	0	0	4566	1780
Jun	0	0	3961	1607
Jul	0	0		
Aug	0	0		
Sep	0	0		
Total	668	73	6889	2460

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TOTAL 5,568

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

Contract Year: 10/1/10 to: 9/30/11

Contract Entity: Montecito Water District  
 Last updated by C.O.M.B. 6/30/11

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT		
	M & I	Agr		total	Evap	Div	Total	M & I	Allocation	Agr	M & I	Agr
Oct	179	25	204		6	204	210	185	26	0	0	0
Nov	150	24	174		3	174	177	153	24	0	0	0
Dec	87	6	93		2	93	95	88	6	0	0	0
Jan	0	0	0		1	0	1	0	1	0	0	0
Feb	0	0	0		2	0	2	0	2	0	0	0
Mar	100	6	106		3	106	109	102	6	0	0	0
Apr	255	19	274		0	0	0	0	0	255	19	274
May	339	37	376		0	0	0	0	0	339	37	376
Jun	254	27	282		0	0	0	0	0	254	27	281
Jul												
Aug												
Sep												
Total	1,364	144	1,508									

Month	STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	Agr	M & I	Agr
Oct	-16	16	0	0	0	0	0	0
Nov	-24	24	0	0	0	0	0	0
Dec	-6	6	0	0	0	0	0	0
Jan	-1	1	0	0	0	0	0	0
Feb	-2	2	0	0	0	0	0	0
Mar	-6	6	0	0	0	0	50	50
Apr	0	0	0	0	0	0	344	344
May	0	0	0	0	0	0	258	258
Jun	0	0	0	0	0	0	114	114
Jul	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0
Total					1,122	1,112	2,386	2,651

Month	REMAINING BALANCES		TOTAL	
	M & I	Agr	M & I	Agr
Oct	912	911	2404	265
Nov	735	734	2404	265
Dec	640	640	2404	265
Jan	639	639	2404	265
Feb	637	637	2404	265
Mar	0	0	2454	265
Apr	0	0	2543	246
May	0	0	2462	209
Jun	0	0	2322	182
Jul	0	0	0	0
Aug	0	0	0	0
Sep	0	0	0	0
Total	912	911	2404	265

TOTAL 2,504

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**SUMMARY OF WATER USED**

CACHUMA PROJECT - CONTRACT #I75R-1802

Contract Year: 10/1/10 to: 9/30/11

Contract Entity: City of Santa Barbara  
Last updated by C.O.M.B. 6/30/11

Month	TOTAL WATER USED		WATER USE CHARGED TO CARRYOVER BALANCES				WATER USE CHARGED TO CURRENT ENTITLEMENT		
	M&I	Agr	Evap	Div	Total	M & I	Agr	M & I	Agr
Oct	691	0	38	691	729	729	0	0	0
Nov	814	0	21	814	835	835	0	0	0
Dec	850	0	11	850	861	861	0	0	0
Jan	573	0	10	573	583	583	0	0	0
Feb	509	0	11	509	520	520	0	0	0
Mar	665	0	13	665	678	678	0	0	0
Apr	987	0	0	987	0	0	0	987	0
May	1,386	0	0	1,386	0	0	0	1,386	0
Jun	930	0	0	930	0	0	0	930	0
Jul									
Aug									
Sep									
Total	7,405	0							

Month	STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	Total	M&I	Total	M&I
Oct	0	0	0	0	6,754	6,754	8,277	18
Nov	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	0	0	0	0	(2,547)	(2,547)	248	248
Apr	0	0	0	0	0	0	1,057	1,057
May	0	0	0	0	0	0	681	681
Jun	0	0	0	0	0	0	114	114
Jul	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0

Month	REMAINING BALANCES	
	Total	M&I
Oct	6025	6025
Nov	5190	5190
Dec	4328	4328
Jan	3746	3746
Feb	3226	3226
Mar	0	0
Apr	0	0
May	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0

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7,092

TOTAL





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

MONTH	DELVRD TO LAKE	CVWD		Transf to MW	MWD		Evap/Spill	Delvd to SC		S.B. Stored	GWD		Evap/Spill	LCMWC		Delvd to SC	RSYS		Delvd to Lake	MLC		
		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored	Delvd to Lake
2010																						
Bal. Fwd		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	354	0	0	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	486	0	0	0	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	298	0	0	0	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1788</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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

MONTH	DELVRD TO LAKE	CVWD		Transf to MW	MWD		Evap/Spill	Delvd to SC		S.B. Stored	GWD		Evap/Spill	LCMWC		Delvd to SC	RSYS		Delvd to Lake	MLC		
		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored				
2011																						
Bal. Fwd		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January	509	0	0	0	382	277	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	227	0	0	0	118	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	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
October	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
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>830</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500</b>	<b>282</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

UNITED STATES DEPARTMENT OF THE INTERIOR  
 U.S. BUREAU OF RECLAMATION-CACHUMA PROJECT-CALIFORNIA

JULY 2011

LAKE CACHUMA DAILY OPERATIONS

RUN DATE: July 20, 2011

DAY	ELEV	STORAGE		COMPUTED* INFLOW AF.	CCWA INFLOW AF.	PRECIP ON RES. SURF. AF.	RELEASE - AF.				EVAP AF.	PRECIP INCH INCHES	
		ACRE-FEET IN LAKE	CHANGE				TUNNEL	HILTON CREEK	OUTLET	SPILLWAY			
1	752.50	194,065		66.4	0.0	.0	100.4	26.4	.0	.0	60.6	.297	.00
2	752.46	193,944	-121	73.9	0.0	.0	104.7	26.4	.0	.0	63.8	.313	.00
3	752.42	193,823	-121	51.4	0.0	.0	101.0	26.5	.0	.0	74.9	.368	.00
4	752.37	193,672	-151	63.6	0.0	.0	55.0	26.4	.0	.0	73.2	.360	.00
5	752.34	193,581	-91	69.4	0.0	.0	88.4	26.4	.0	.0	75.6	.372	.00
6	752.30	193,460	-121	62.7	0.0	.0	89.6	26.5	.0	.0	67.6	.333	.00
7	752.26	193,339	-121	62.2	0.0	.0	108.1	26.4	.0	.0	79.7	.393	.00
8	752.21	193,187	-152	32.2	0.0	.0	111.1	26.4	.0	.0	75.7	.374	.00
9	752.15	193,006	-181	57.1	0.0	.0	112.9	26.4	.0	.0	68.8	.340	.00
10	752.10	192,855	-151	-6.0	0.0	.0	89.0	26.4	.0	.0	60.6	.300	.00
11	752.04	192,673	-182	16.7	0.0	.0	85.0	26.4	.0	.0	56.3	.279	.00
12	751.99	192,522	-151	37.3	0.0	.0	108.4	26.3	.0	.0	50.6	.251	.00
13	751.94	192,374	-148	86.6	0.0	.0	105.6	26.3	.0	.0	43.7	.217	.00
14	751.91	192,285	-89	-34.9	0.0	.0	92.4	26.3	.0	.0	55.4	.275	.00
15	751.84	192,076	-209	31.5	0.0	.0	70.3	26.3	.0	.0	52.9	.263	.00
16	751.80	191,958	-118	56.4	0.0	.0	66.0	26.3	.0	.0	54.1	.269	.00
17	751.77	191,868	-90	32.5	0.0	.0	74.6	26.4	.0	.0	49.5	.246	.00
18	751.73	191,750	-118	71.5	0.0	.0	77.7	26.3	.0	.0	57.5	.286	.00
19	751.70	191,660	-90	62.8	0.0	.0	94.3	26.2	.0	.0	60.3	.300	.00
20	751.66	191,542	-118	50.8	0.0	.0	110.8	26.3	.0	.0	62.7	.312	.00
20	751.61	191,393	-149										
<b>TOTAL (AF)</b>			<b>-2,672</b>	<b>944.1</b>	<b>0.0</b>	<b>.0</b>	<b>1,845.3</b>	<b>527.3</b>	<b>.0</b>	<b>.0</b>	<b>1,243.5</b>	<b>6.148</b>	<b>.00</b>
<b>(AVG)</b>		<b>192,648</b>											

COMMENTS:

\* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, AND EVAPORATION MINUS PRECIP ON THE RESERVOIR SURFACE AND CCWA INFLOW.

DATA BASED ON 24-HOUR PERIOD ENDING 0800.

INDICATED OUTLETS RELEASE INCLUDE ANY LEAKAGE AROUND GATES.

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Draft Minutes of the  
**Operating Committee**  
of  
Cachuma Operation & Maintenance Board  
3301 Laurel Canyon Road, Santa Barbara, CA

**Wednesday, July 6, 2011**

---

**1. Call to Order**

Rebecca Bjork called the meeting to order at 8:35 a.m.

**Managers Present**

Rebecca Bjork  
John McInnes  
Charles Hamilton  
Tom Mosby  
Bruce Mowry

**Others Present**

Tony Trembley  
Jim Colton  
Tim Robinson  
Janet Gingras  
Ruth Snodgrass

**2. Public Comment**

There were no comments from the public.

**3. Approval of Minutes June 1, 2011**

John McInnes moved to approve the minutes as presented, seconded by Tom Mosby, passed 4/0/1, Chris Dahlstrom was absent.

**4. Election of Chair and Vice Chair**

By unanimous consent of the four General Managers present, Tom Mosby was chosen as Chair of the committee and John McInnes as Vice-Chair, effective August 3, 2011.

**5. Development of Framework for COMB Policies and Procedures**

Bruce Mowry requested a copy of the Member Unit's policies and procedures from each of the General Managers so that COMB would be able to develop policies in accordance with those policies.

## 6. Fisheries

### a. Draft Bid Packet for Construction of Quiota Creek Fish Passage Projects at Crossings 2 and 7 and Pre-Qualification of Contractors

Tim Robinson highlighted the bid packet for Crossing 2, which was developed by Doug Pike, MNS, reviewed by Bruce Mowry, General Manager, Tony Trembley, General Counsel, and Jim Colton, Engineer.

### b. Draft MOU between COMB and the County Transportation Department for Maintenance of Quiota Creek Fish Passage Projects on Refugio Road

Tim Robinson and Tony Trembley have been developing the MOU between COMB and the County Transportation Department with additions suggested by the Managers and Directors. It was suggested to add to number 10 of the Recitals the sign off date of the permit for the project.

### c. Summary of Hilton Creek Channel Enhancement Study

Tim Robinson reported that the Hilton Creek Channel Enhancement Study had been completed by Northwest Hydraulics and Cardno ENTRIX. They put together a report of a sequence of small projects to enhance the channel beyond doing the Hilton Creek Channel Extension.

### d. NMFS Santa Ynez River Modeling Study and Data Request

Tim Robinson reported that NMFS is collecting information on the River for the final version of the Recovery Plan and BO Reconsultation process. They would like to receive our temperature data to augment their process. No one had any objections to sharing our data but felt that we could request the data that they have collected.

## 7. CIP Special Projects

### a. Review Contract Documents and Plans for Emergency Repair Plans Specifications and Estimate Package

Jim Colton highlighted the emergency plan being developed.

## 8. Operations

### a. Overview of Reliability Study for Reach No. 3

Jim Colton presented a PowerPoint presentation on the Reliability Study for Reach No. 3. The managers provided comments, suggestions and changes that could be incorporated prior to a Board presentation.

### b. SCADA Upgrades

A discussion between staff and the General Managers on the possibilities of sharing COMB's SCADA information with the Member Units. Also of concern was communication between all the agencies during flow changes. This would be a good discussion at the quarterly CIP meetings.

## 9. General Manager's Report

## 10. Agenda Items for Next Regular Meeting

There were no agenda items for the next regular meeting.

**11. Date of Next Regular Meeting: August 3, 2011 at 8:30 a.m.**

**12. Adjournment**

The meeting was adjourned at 10:59 a.m.

DRAFT

Approved \_\_\_\_\_  
Unapproved  \_\_\_\_\_



**Santa Barbara County Parks Department  
Cachuma Lake Recreation Area**

**Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: APRIL 2011**

**VESSEL INSPECTIONS/Launch Data:**

Santa Barbara County Parks -- Cachuma Lake Boat Launch Data -- APRIL 2011		
Inspection Data		
Total Vessels entering Park	1073	
Total Vessels launched	1062	
Total Vessels Quarantined	11	1%
Returning with Boat Launch Tag	856	81%
Arriving new: Inspected, washed	206	19%
4-stroke engines	461	43%
2-strokes, w/CARB star ratings	199	19%
2-strokes, NO emissions ratings	393	37%

Quarantine Data		
Total Vessels Quarantined	11	
Quarantined 7 days	6	
Quarantined 14 days	5	
Quarantine Reasons -- May be several for 1 boat		
Water in bilge	4	
Debris on hull	0	
Plug installed	0	
Infected areas	4	
Ballast tanks	0	
Boat longer than 24 feet	1	
Out-of-state	0	
Boater non-cooperative	1	
Unspecified	1	
Demographic Data		
Quarantined from infected areas	4	
Quarantined from SB County	4	

Boat Launch Tags: Boats with Cachuma Lake Boat Launch Tags attached to boat and trailer. These boats have not been removed from trailer since last visit to lake and are not subject to inspection or decontamination.  
No mussel species have been located on any vessel entering Cachuma Lake as of February 28, 2011.

**CACHUMA LAKE QUAGGA SURVEY:**

**Summary:** No Dreissenid mussels were detected  
 Inspection site: Cachuma Lake Marina, Santa Barbara County, California  
 Inspection Date and Time : 2011.04.14; 0930 - 1300 PDT  
 Method: 14 PVC/Cement/Plastic Mesh Sampling Stations; 394 linear feet of line  
 Surveyors: Carrie Culver, Jason Tay (Sea Grant), Liz Gaspar, Chuck Scott (SB County Parks)  
 Lake Elevation: 752.93 from maximum of 753 feet  
 Prepared by Liz Gaspar, based on inspections and data collected by Cachuma Lake Staff and Park Hosts, and Sea Grant staff and interns





SANTA BARBARA COUNTY PARKS DEPARTMENT  
 610 Mission Canyon Road  
 Santa Barbara, CA 93105-2911  
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 www.sbparks.org

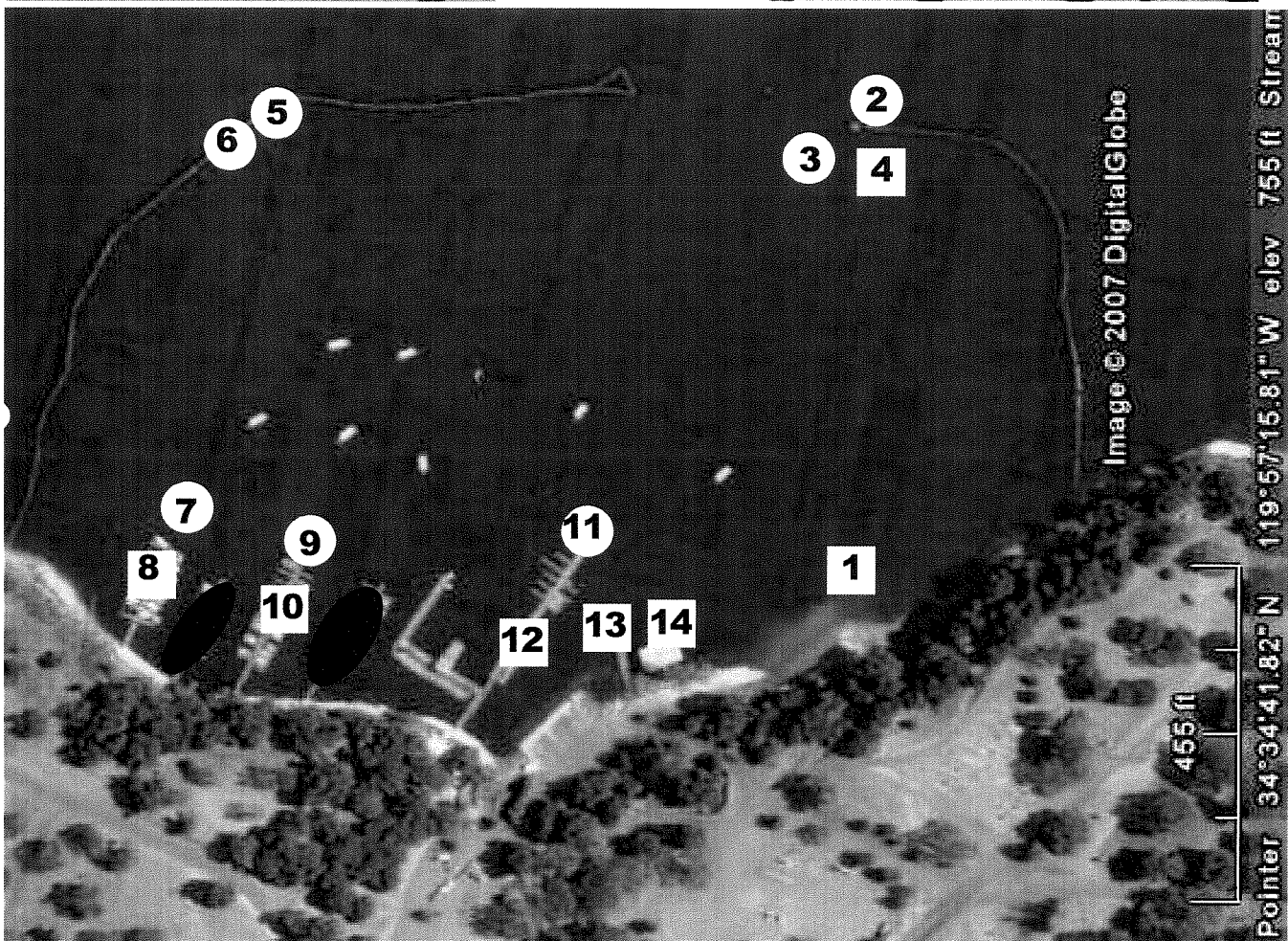
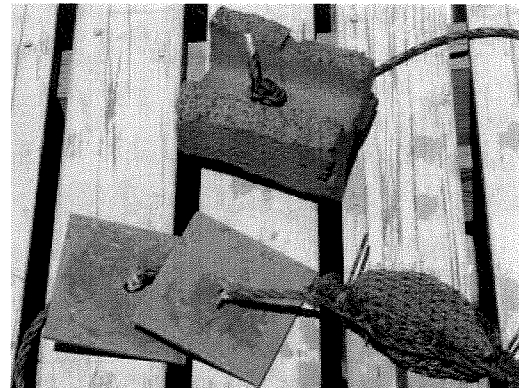
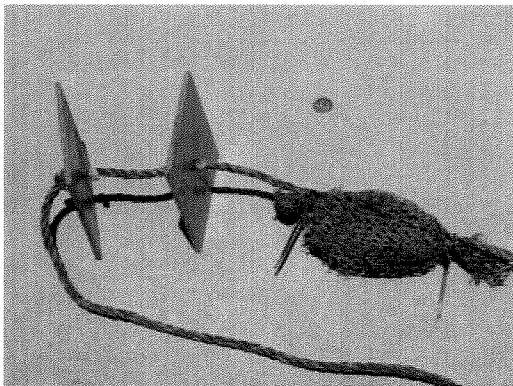


## Cachuma Lake Marina Monthly Quagga Survey Map: Sampling stations and lines, docks, boat ramp, boathouse, logs

Fourteen survey station locations, as of May 2010

 = 4 meter long HORIZONTAL survey line with PVC plates and Tuffies @ .5 m depth

 = 12 meter VERTICAL survey line with PVC plates & Tuffies @ 6 m, and cement block @ 12 m depth



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# Cachuma Lake Marina Monthly Quagga Survey: Sampling Station Details

Inspection Date: 2011.04.14  
 Inspection Time: 0930 - 1300  
 Lake Elevation from max 753 feet 752.93  
 Surveyors: Liz Gaspar & Melissa Kelly, SB County Parks

Station #	Location/Description	Stn Type	Lake Depth Meters	Anchor/Line Depth Meters	Tuffly/Plate set Depth Meters	Secchi Depth & Temp Deg F @ 3 Meters	NOTES: Tuffies Collected	Mussels?	Stn #
Station 1	Boathouse, left middle ramp	Horizontal: 4 m line, 1 tuffly, 1 plate set	8'	.5 m	.5 m		Line, knots, Tuffies, plate sets checked. Samples: 0 Organisms: LINE: caddisfly casing PLATES: midge, opaque gelatinous egg cases (OEC)	No	Stn 1
Station 2	Logboom platform at entrance, south east corner.	Vertical: Anchor, Tuffly, plates	30'	12 m	6 m		Line, knots, Tuffies, plate sets, block checked. Samples: 0 Downloaded temp/light data from 3 loggers at 10', 20', 30' Organisms: LINE: Algae, midge PLATES: Missing. Replaced with new plates BLOCK: sponge, bryozoan	No	Stn 2
Station 3	Logboom platform at entrance, north west corner	Vertical: Anchor, Tuffly, plate set	125'	12 m	6 m		Line, knots, Tuffies, plate sets, block checked. Samples: 0 Organisms: LINE: Algae, OEC PLATES: midge, alge, OEC BLOCK: 0	No	Stn 3
Station 4	Logboom platform at entrance, under platform.	Horizontal: 4 m line, 1 tuffly, 1 plate set	125'	.5 m	.5 m		Line, knots, Tuffies, plate sets checked. Samples: 0 Organisms: LINE: Algae, OEC PLATES: Physella snail, clear gelatinous egg cases (CEC), midge, algae	No	Stn 4
Station 5	N logboom, 13th log from S end, attached to chain at middle	Vertical: Anchor, 1 Tuffly, 1 plate set	125'	12 m	6 m		Line, knots, Tuffies, plate sets, block checked. Samples: 0 Organisms: LINE: OEC PLATES: Midge, algae, OEC BLOCK: 0	No	Stn 5
Station 6	N logboom, 14th log from S end, attached to chain on NE side, west end.	Vertical: Anchor, 1 Tuffly, 1 plate set	127'	12 m	6 m		Line, knots, Tuffies, plate sets, block checked. Samples: 0 Organisms: LINE: Algae, midge, OEC PLATES: Algae BLOCK: 0	No	Stn 6

Station #	Location/Description	Stn Type	Lake Depth Meters	Anchor/Line Depth Meters	Tuffly/Plate set Depth Meters	Secchi Depth & Temp Deg F @ 3 Meters	Mussels?	Stn #
Station 7	Far N dock at E end, S side; 14th slip from shore	Vertical: Anchor, 1 Tuffy, 1 plate set	47'	12 m	6 m		No	Stn 7
Station 8	Far N dock at middle @ slip 10/12	Horizontal: 4 m line, 1 tuffy, 1 plate set	43'	.5 m	.5 m		No	Stn 8
Station 9	Middle dock at E end	Vertical: Anchor, 1 Tuffy, 1 plate set		12 m	6 m		No	Stn 9
Station 10	Middle dock at W end; slip 11 & 40	Horizontal: 4 m line, 1 tuffy, 1 plate set	43'	.5 m	.5 m		No	Stn 10
Station 11	Fuel Dock @ far E end	Vertical: Anchor, 1 Tuffy, 1 plate set	45'	12 m	6 m		No	Stn 11
Station 12	Fuel Dock W end strung diagonally under gas pump platform	Horizontal: 4 m line, 3 tuffy, 3 plate set	34'	.5 m	.5 m		No	Stn 12
Station 13	North Launch Dock E end	Horizontal: 4 m line, 1 tuffy, 1 plate set	10'	.5 m	.5 m		No	Stn 13
Station 14	South Launch Dock E end	Horizontal: 4 m line, 1 tuffy, 1 plate set	10'	2 m	.5 m		No	Stn 14

12e

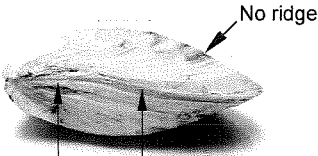




**Quagga Mussel**  
*Dreissena rostriformis bugensis*



- Shell: D-shaped and triangular; thin, fragile; smooth or shallowly ridged; solid light to dark brown or dark concentric rings; paler near hinge
- Attaches to hard and soft surfaces



Byssal groove

Asymmetrical; curved midventral line; shells do not join together tightly

No ridge

**Zebra Mussel**  
*Dreissena polymorpha*



- Shell: D-shaped and triangular; thin, fragile; smooth or shallowly ridged; solid light to dark brown or striped
- Attaches to hard surfaces

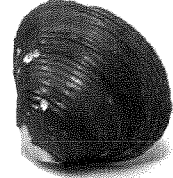


Byssal groove

Bilaterally symmetrical; join together in a midventral line

Ridge

**Asian Clam**  
*Corbicula fluminea*



- Shell: fan-shaped and symmetrical; thick, hard; deep ridges; solid light to dark brown; may have a white patch near hinge
- Burrows into sand or mud; never attaches to structures
- Dead shells often found along shoreline

**Map of sampling location:**

Place empty circles (○) in areas that were surveyed but no mussels were found. Place circles with plus sign (⊕) where mussels were found, and number 1, 2, or 3 to correspond to GPS coordinates.

Please see attached docs: Quagga Survey Stations 2011.04.14 & Quagga Survey Map 2011

Did weather conditions negatively affect sampling conditions? Y / N NO

Comments Inspected in Cachuma Lake marina: 14 sampling stations @ 12 or .5 meters, and 120 meters of rope.  
See attached files of sampling station details and locations as noted above.

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