



**Nacimiento Project Commission  
 Meeting and Agenda  
 Thursday, August 25, 2011 – 4:00 pm  
 Templeton Community Services District Offices**

- I. Call to Order
  - a. Call to Order, Roll Call, and Flag Salute
- II. Public Comment  
 This is the opportunity for members of the public to address the Commission on items that are not on the agenda, subject to a three minute time limit.
- III. Meeting Notes from May 26, 2011 (RECOMMEND APPROVAL)
- IV. COMMISSION INFORMATION ITEMS – written reports with brief verbal overview by staff or consultant. No action is required.
  - a. Project Management Report
  - b. Project Budget
- V. PRESENTATIONS – no action required.
  - a. Report on Operational Impact of Mussel Infestation
  - b. Acknowledgement of Gary Henderson’s Retirement
  - c. Project Awards by the American Society of Civil Engineers
- VI. COMMISSION ACTION ITEMS  
 (No Subsequent Board of Supervisors Action Required)
  - a. None
- VII. COMMISSION ACTION ITEMS  
 (Board of Supervisors Action is Subsequently Required)
  - a. None
- VIII. FUTURE AGENDA ITEMS DESIRED BY COMMISSION

Commissioners  
**Grigger Jones, Chair**, Atascadero MWC  
  
**John Hamon, Vice Chair**, City of El Paso de Robles  
  
**Judy Dietch**, Templeton CSD  
  
**Andrew Carter**, City of San Luis Obispo  
  
**Frank Mecham**, SLO County Flood Control & Water Conservation District

**Next Commission meeting scheduled for  
 Thursday, November 17, 2011, at 4:00 pm at  
 Templeton Community Services District offices**



Nacimiento Project Commission  
August 25, 2011  
**Agenda Item III – Meeting Notes from May 26, 2011**

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**I. Call to Order, Roll Call and Flag Salute**

Chairman Jones convened the meeting at 4:03 pm.

Commissioners Present: Chairman Grigger Jones, Atascadero MWC  
Judith Dietch, Templeton CSD  
Andrew Carter, City of San Luis Obispo  
Frank Mecham, SLOCFC&WC District  
Absent: Vice-Chairman John Hamon, City of Paso Robles

There was no public comment.

**III. Meeting Notes from April 21, 2011**

Commissioner Mecham moved to approve the meeting notes for the April 21, 2011, Commission meeting; Commissioner Carter seconded; passed unanimously.

**IV. Commission Information Items**

Project Status Update: Utilities Manager Dean Benedix described that three construction contracts remain open—Facilities, Pipeline North, and Pipeline South. A final change order was executed by the Facilities contractor and the District; however, final punchlist items remain to be completed, including: the Camp Robert Tank fix which has been repaired and repainted and only needs to cure, necessary improvements to the SCADA system. The Pipeline North contractor filed a notice of claim on March 7, 2011, to which the District is reviewing request for additional funds and developing a response. The Pipeline South contractor has filed a lawsuit. The District seeks legal advice through special counsel and anticipates mediation in late spring/ early summer.

Mr. Benedix noted that Jacobs Engineering Group Inc. continues to support the District as Construction Manager from their remote offices.

Operation Report: Mr. Benedix noted that water is still being delivered to San Luis Obispo; however, there is a discrepancy between the amount that is pumped versus the amount that is delivered. These values are being recorded to track anomalies and identify issues, if any. He explained that on the District's Salinas system, there are two identical flow meters that were calibrated on the same day and report a 2- to 5-percent difference in flow.

Mr. Benedix noted that the TSG has decided that it was not necessary to develop a separate report showing deliveries, power usage, water characteristics, etc., as each agency will be able to view specific data from the SCADA system. District Operators are optimizing the system operation to determine efficient operation points, including flows to reduce electrical demand, equipment wear, etc.—they will continue to learn and work to find best operational points. The Intranet Manual of Procedures (iMOP) has been completed and is being utilized by District staff—provides good reference for design basis and restrictions/cautionary notes when operating the system.

Intake Pipe Repair Status: Mr. Benedix reported that Black & Veatch have accepted responsibility for correcting the pipe. The agreement is still being negotiated between Black & Veatch and the District.



Commissioner Dietch asked if someone will be going into the pipe to make repairs. Mr. Benedix explained that some of the pipe will be removed and repaired while another portion may be repaired using techniques like underwater welding. The work plan is still relatively unknown and will depend on the lake level.

Mr. Benedix reported on the \$1-million upgrade to the Salinas Booster System's mechanical and electrical systems, which pump water from Santa Margarita Lake to the City of San Luis Obispo—scheduled sometime between January and April 2012 (a choice made about six months ago). The booster station cannot be out of commission at the same time as the intake pipe; thus, the intake repair may have to wait until after the booster station upgrade is completed.

Commissioner Mecham asked how long the anticipated closure for the intake pipe repair is. Carolyn Berg explained that the anticipated time frame of limited to no deliveries is about three months with several months in advance for material procurement.

Outside Agency Issues: Mr. Benedix reported that Paavo Ogren, Public Works Director, continues to attend Reservoir Operations Committee Meetings with Monterey County and is developing an increased awareness of Monterey's planning and current activities.

Mr. Benedix reiterated the previous meeting's discussion regarding fiber optic cable and conduit use for revenue purposes. District staff is working with County Counsel to review the related agreements—Mr. Benedix provided a copy of the Charter Cable Franchise Agreement. The key restriction appears to be the system's use for a public, non-commercial nature (Charter Agreement page 815); however, further review of what that means is anticipated. Commissioners Carter and Mecham noted the possible benefits of allowing "for profit" use and wondered about the possibility of amending the agreement—Mr. Benedix will ask County Counsel.

Invasive Species: Ms. Berg reported that the current season's prevention program includes a mandatory inspection of all watercraft. Monterey County was able to secure funding to initiate a mandatory screening program at public launch ramps. Volunteer programs are being established within lakeside communities/ launch ramps. The program requires that all watercraft undergo a screening (quick overview of the boat and dialogue with boater about mussels to determine the level of risk that the watercraft poses to Lake Nacimiento), followed by a more in-depth inspection as-needed. Vessel screening permits are issued to watercraft that pass the screening/ inspection and must be carried on the watercraft at all times. The permit expires every 14 days, which has been a concern for residents. District and Monterey staffs are considering how to accommodate residents without increasing the risk of exposure to a mussel infestation, but intend to continue a similar level of program year-round; logistics of such have not been detailed yet.

Commissioner Carter asked how often there is pushback from boaters. Ms. Berg states that most boaters just have questions, but are not aggressive. Commissioner Carter asked how long the screenings take and will they cause back up of boaters waiting to enter the lake. Ms. Berg described her experience at the public marina—there was a five to ten minute wait, with a simultaneous 5-minute screening conducted by one staff member while another staff member proceeded with normal tasks (e.g. collection of entry fees, etc.). The process appears to be streamlined and did not seem to add too much to existing wait times—vessels requiring further inspection (approximately 45 minutes) are removed from the queue line. Commissioner Mecham pointed out that some communities, like Heritage Ranch, are conducting screenings and inspections away from normally travelled areas, to decrease queue lines.



Nacimiento Reservoir Status: Mr. Benedix noted that the lake is 98-percent full, and is currently at 175 cfs of daily release.

Project Budget: Mr. Benedix noted that there is no update on the budget. The project is still projected to be \$2 million under budget by the end of the project.

## **V. Presentations**

Progress Report on Operational Impact of Mussel Infestation: Ms. Berg reported that TJ Cross Engineers was commissioned to study mussel-infested water systems and assess the potential physical and fiscal effect of a mussel infestation on the Project. In researching similar water systems that have been infested and in subsequent discussions with these water agencies, TJ Cross found that most agencies employed chemical and mechanical kill and removal techniques, often involving an added chlorine injection system and related infrastructure. They have estimated that the chlorine and pigging infrastructure over a 16-year period could cost upwards of \$10-million. A newer and less-explored option is employment of filtration systems to filter out the mussels and veligers early in the system infrastructure—these costs are still being researched by TJ Cross. Ms. Berg also noted that mussels generally find their way to low flow areas (e.g. turnouts, pumpouts, and air/vacuum valves), which could compromise the surge system. TSG will review the report several more times before the final report is presented to the Commission.

Commissioner Mecham noted that our prevention program is really an “insurance policy”- an attempt to protect our lake as long as possible. Mr. Benedix noted that research last year indicated that lakes with prevention programs in place have not been infested yet—a good implication for Nacimiento.

Chairman Jones adjourned the meeting at 4:47 pm.

*Submitted by Utilities Staff (via audio recording of meeting)*



Nacimiento Project Commission  
August 25, 2011  
**Agenda Item IV.a– Project Management Report**  
(Information Only – No Action Required)

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**PROJECT UPDATES**

**Project Status Update**

The Spec 2 (Facilities), the Spec 3 (Pipeline North) and the Spec 5 (Pipeline South) contracts remain open. A summary of each construction contract recent activities are as follows:

- Spec 2 (Facilities) – Contractor completed work on July 1, 2011. District released retainage less contractual withholdings. District is awaiting the signed Notice of Completion.
- Spec 3 (Pipeline North) – District and Contractor have conducted several confidential settlement meetings, the last being June 30, 2011. The District made an offer that staff was willing to recommend to the District’s Board of Supervisors, but it was not accepted by the Contractor. The counsels from the District and Contractor have also talked on various occasions.
- Spec 5 (Pipeline South) – District and Contractor met with a mediator on July 18, 2011. The results have been shared with the District’s Board of Supervisors in closed session, and the District is progressing forward with defense of the Government Code claim filed by the Contractor.

Jacobs Engineering Group Inc (JEG) continues to support the Project from their various offices where their staff is located. Several deliverables are due to the District.

**Operations Report**

The District delivered 22.86 acre-feet to Unit T4 (Templeton CSD) and 210.32 acre-feet to Unit T11 (City of San Luis Obispo) during June 2011. No deliveries were scheduled to Units T2 (City of El Paso de Robles) or T6 (Atascadero MWC). Deliveries are anticipated to Unit T6 beginning some time in the first two weeks of August 2011.

**Outside Agency Issues**

**Monterey County Water Resources Agency:** Paavo Ogren continues to represent the District at the monthly Reservoir Operations Committee meetings.

**New Participants:** Nothing noteworthy to report this period.

**Potential Customer – Fiber Optic Strand Use by Federal Government:** The District received a request from the Federal Government’s Defense Information Technology Contracting Organizations (DITCO) on June 16, 2011, for use of four Project fiber optic strands between Camp Roberts Tank and Templeton for a minimum of 10 years with a preferred lease of 20 years. The user would provide a base fee and annual O&M fee. District staff will consider the

proportionate compensatory fee to offset Design and Construction Phase Project costs of fiber optic installation, as well as a reasonable annual O&M fee. DITCO would connect to Project fiber optic system at or near Camp Roberts Tank from its larger communication system that runs out to Nellis AFB, Nevada – acknowledging that reliability is not a priority of the Project, and down-time may occur, for which the District would not want to suffer damages.

District staff continues discussions relative to DITCO’s possible utilization of fiber optic strands from Camp Roberts to some downstream connection point on the Project.

### **Invasive Species Prevention**

2011 Prevention Program: The mussel prevention program is in full swing with mandatory screening/inspection of all vessels launching at Lake Nacimiento. The boating season was off to a slower-than-normal start due to weather, but is now well under way. The private communities and ramps are doing their share to help keep Lake Nacimiento Mussel Free. To-date 26 private communities and individual ramp owners are actively involved in screening/inspection of boats. There are 193 active certified screeners around the lake associated with the private ramps alone—with another Level I Screener training slated for early Fall 2011. San Luis Obispo has obtained information from some of the certified screeners showing that over 2,000 boats have been screened/ inspected at private ramps and an additional 1,000 vessels have been re-certified. At least two vessels have been rejected from the private communities - one vessel for being on an infested body of water (Colorado River) and the other vessel for not adhering to the “cleaned, drained, and dry” standard.

In general, the communities and public ramps are witnessing a high level of cooperation from the boating public and find that the screening acts as an educational platform to describe the possible consequences of a mussel infestation and how screening/inspections help protect the lakes.

Providing trained inspectors at the tens of private ramps plus the public ramps has proven to be labor-intensive, requiring coordination with hundreds of volunteers. The District will explore with Monterey County ways to improve efficiency in prevention efforts, including transition to regional inspection stations over the coming seasons.

Cost of Invasive Species Infestation Study: The final “Nacimiento Water Project Operational Impact of Mussel Infestation” report is discussed in Agenda Item V.a.

### **Nacimiento Reservoir Status**

Reservoir status as reported by MCWRA is 87-percent full, or 328,085 acre-feet, as of August 1, 2011. MCWRA releases are reported as 450 cfs.

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Nacimiento Project Commission  
August 25, 2011  
**Agenda Item IV.b– Project Budget**  
(Information Only – No Action Required)

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The Summary Budget Report is attached, showing the Design and Construction Phase budget through June 30, 2011.

The Nacimiento Water Operating Fund Quarter Report is attached, and includes FY 2010-2011 Operation and Maintenance costs through Quarter 4 (quarter ending June 30, 2011).

Mr. Benedix will provide an update on the status of water quality support and analysis expenditures.



**Nacimiento Water Project  
Project Budget Reporting  
Report Ending Period: 6/30/2011**

	Revised Budget: MARCH 2010	Cost to Date thru 6/30/11	Remaining Budget	Projected Total Cost as of 6/30/2011	Projected Variance (Budget Vs. Projected Cost)	Comments
<b>Design Phase Costs</b>						
Project Management	\$2,450,000	\$2,298,745	\$151,255	\$2,419,494	\$30,506	Includes County Project Manager, VE, support staff, TJCross support, finance team, legal fees, and County overhead allocation during Design Phase. Revised 2/2010- Adjusted to better align with actual costs to date.
AD-15 Process (Preparation for Bidding)	\$113,057	\$ 113,057.01	\$0	\$113,057	\$0	Reproduction and mailing of Contract Docs, addenda, and other bid phase correspondence, utilizing ASAP Reprographics.
Environmental	\$2,346,867	\$ 2,339,848.20	\$7,019	\$2,346,867	\$0	ESA-Includes design assistance, permit applications, agency coordination. Amendments authorized for EIR Addendum and extended cultural resource efforts.
PG&E Service Extension	\$300,000	\$ 212,141.55	\$87,858	\$300,000	\$0	Estimate to extend power to proposed facilities at \$100,0000. Add \$200,000 for low energy usage in first year (2/10)
Right of Way Consulting Services	\$1,562,000	\$1,487,426	\$74,574	\$1,562,000	\$0	Hamner-Jewell contract plus allowance for appraisal, title reports by others, and Special Counsel. Includes court hearings for orders of possession.
Property Acquisition	\$1,700,000	\$ 1,623,986.48	\$76,014	\$1,700,000	\$0	2/10-Revised acquisition budget.
Construction Mgt/Constructability Review	\$669,173	\$ 669,109.19	\$64	\$669,173	\$0	Amendment revised Design Phase Value to \$669,173.
Engineering Design (Includes geotechnical, survey & Design CM)	\$9,088,800	\$ 9,419,153.76	(\$330,354)	\$9,088,800	\$0	Black and Veatch Corporation 11/06-Revised projected total. 8/07-revised back up to original budget pending Design Amendment
Finance	\$0	\$ -	\$0	\$0	\$0	PFM, UBS, and Fulbright & Jaworski support services coded to Project Management line item above.
New Participant Contribution	(\$50,000)	(\$49,040)	(\$961)	(\$50,000)	\$0	11/06-CSA 10A buy-in fee per Article 29 of the WDEC.
Design Phase Budget Reserve (NOTE 1)	\$720,103		\$720,103	\$0	\$720,103	
<b>SUMMARY - DESIGN PHASE</b>	<b>\$18,900,000</b>	<b>\$18,114,427</b>	<b>\$785,573</b>	<b>\$18,149,391</b>	<b>\$750,609</b>	

**Nacimiento Water Project  
Project Budget Reporting  
Report Ending Period: 6/30/2011**

	Revised Budget: MARCH 2010	Cost to Date thru 6/30/11	Remaining Budget	Projected Total Cost as of 6/30/2011	Projected Variance (Budget Vs. Projected Cost)	Comments
<b>Construction Phase Costs</b>						
Project Management	\$4,858,563	\$ 6,189,347.44	(\$1,330,784)	\$6,425,838	(\$1,567,275)	Includes District staff, County Counsel, intern support, TJCross support, and operator support during construction. Also includes premium for District-provided Builder's Risk Insurance and County overhead allocation. Updated 2/2010: Added \$170,000 from Prof Serv Contingency
Environmental Mitigation	\$1,862,757	\$ 81,845.02	\$1,780,912	\$ 227,813	\$1,634,944	For pipeline realignments, special const tech and other costs incurred due to unforeseen enviro issues. Also used for mitigation of habitat (oak trees, SJ Kit Fox, etc). Revised 2/2010 (\$364,779 to Const Cont, \$955,000 to Prof Services Cont., and \$1,317,464 reduction to correct overall budget to Aug 2007 level)
Construction Management, includes Environmental Monitoring, Materials Testing & Surveying	\$10,190,827	\$ 9,620,658.04	\$570,169	\$10,190,827	\$0	Based on Jacobs construction management services fees and ESA's Environmental Monitoring Fees through Amendment No. 8
Post-Design Services by Designer	\$3,200,000	\$ 3,404,414.50	(\$204,415)	\$3,920,000	(\$720,000)	Black & Veatch's construction phase services. Added \$720,000 for Amendment #23 (longer period + MOP)
Construction Contracts	\$130,265,722	\$ 129,960,914.86	\$304,807	\$ 131,967,411.70	(\$1,701,690)	BASED ON CONSTRUCTION BIDDING + CHANGE ORDERS
District Controlled Contingency Construction Phase Contingency and Reserve (NOTE 1)	\$5,235,826		\$5,235,826	\$1,580,995	\$3,654,831	Recommended contingency for construction change orders, prof service changes, and other Project reserve. Excludes the carryover of unused Design Phase reserves.
<b>SUMMARY - CONST. PHASE</b>	<b>\$155,613,695</b>	<b>\$149,257,180</b>	<b>\$6,356,515</b>	<b>\$154,312,885</b>	<b>\$1,300,810</b>	
<b>Prior Expenses</b>						
Advance Expenditures	\$513,000	\$513,000	\$0	\$513,000	\$0	
Cuesta Tunnel	\$1,031,000	\$1,031,000	\$0	\$1,031,000	\$0	Includes construction of Nacimiento Water Project pipeline section through Cuesta Tunnel and cost for 2003 EIR.
<b>TOTAL PROJECT</b>	<b>\$176,057,695</b>	<b>\$168,915,607</b>	<b>\$7,142,088</b>	<b>\$174,006,276</b>	<b>\$2,051,419</b>	

Positive Projected Variance indicates costs are under the revised line item budget.

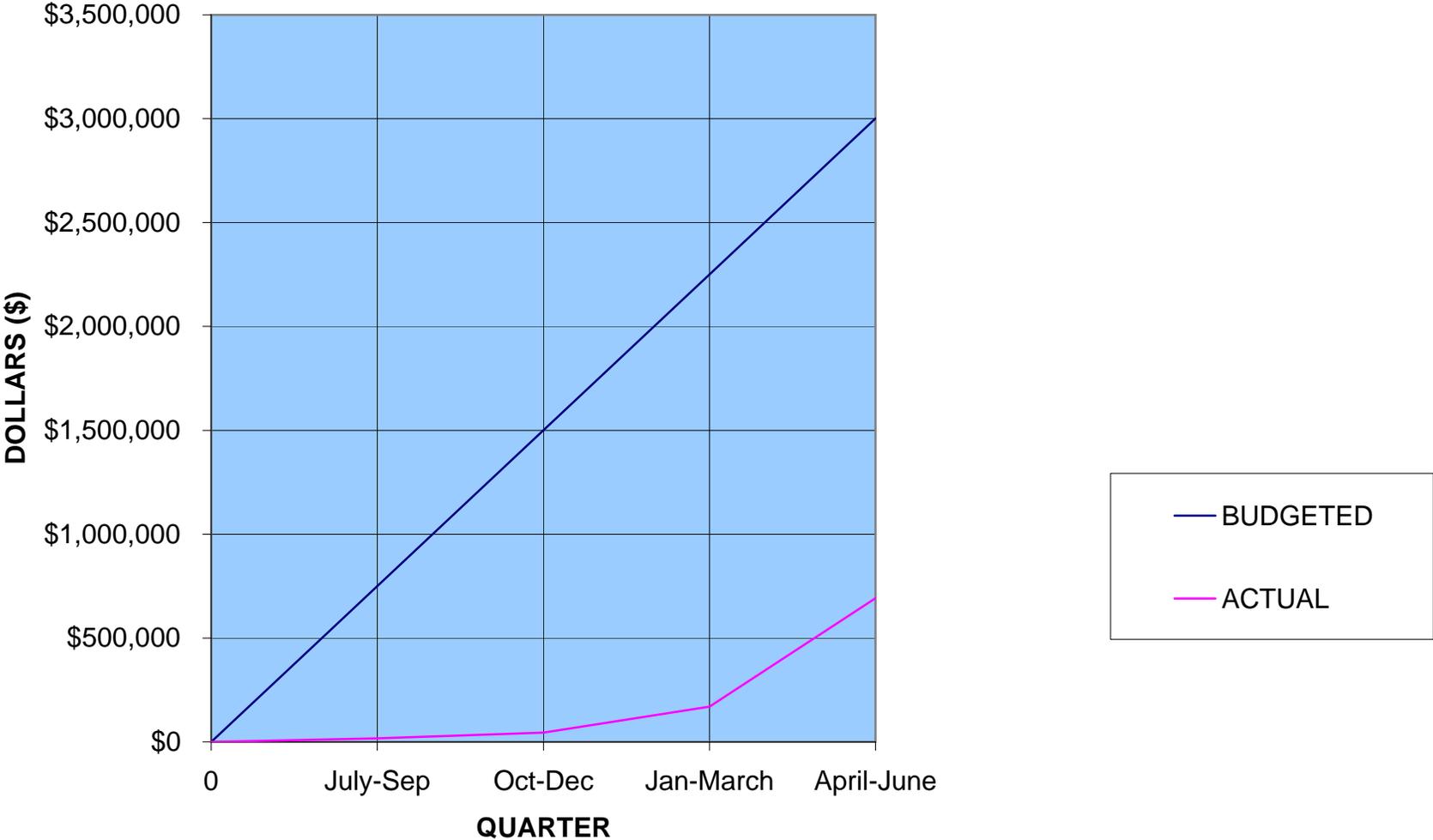
Recent Update: June 30, 2011

NOTES 1. When the Design Phase is closed, the reserves will be transferred to the Construction Phase Reserves.

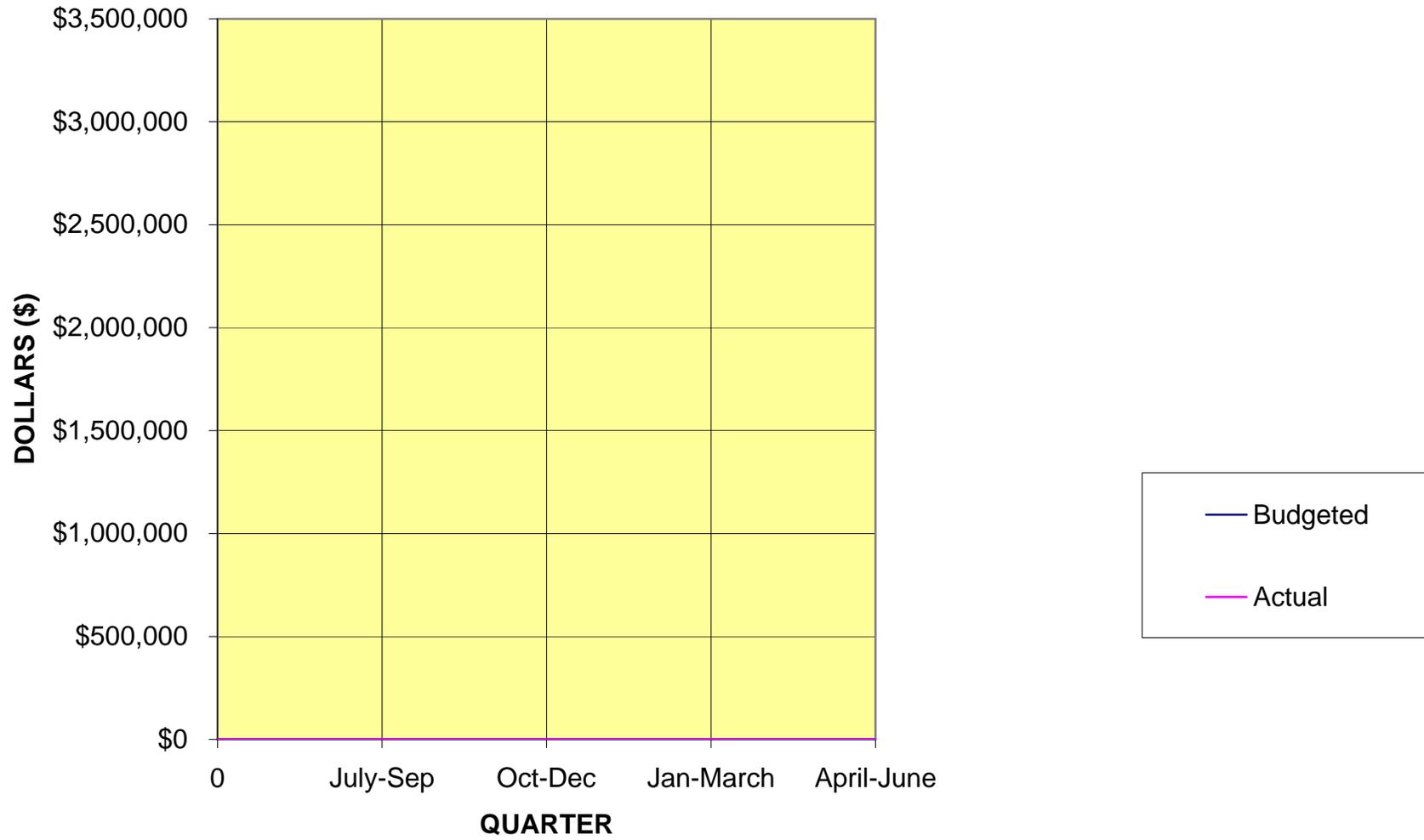
**Nacimiento Water Operating Fund**  
**Operation and Maintenance**  
**FY 2010-2011**

	Budget		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total	
	WBS Element	FY 2010-11	0	July-Sep	Oct-Dec	Jan-March	April-June	
<b>Routine Operation and Maintenance</b>								
Master Water Contract	300420.01.03	\$217,140					\$86,661.66	
Variable Energy Costs	300420.03	\$780,182			\$6,391.30	\$106,209.17	\$112,600.47	
Water Quality Analysis	300420.05	\$240,849			\$25,360.00	\$45,735.41	\$71,095.41	
Water Quality Support	300420.06	\$76,588			\$27,270.42	\$36,899.38	\$64,169.80	
Regulatory Agency/Department of Public Health	300420.02	\$66,615					\$0.00	
Invasive Species/Quagga Mussels	300420.09.02	\$0			\$883.71	\$103,315.78	\$104,199.49	
Environmental Mitigation	300420.09.01/06.01	\$10,312					\$0.00	
Utilities Operations and Office Engineering	300420.07	\$373,184		\$164.00	\$6,081.64	\$14,884.53	\$21,130.17	
General Accounting	300420.01	\$239,720	\$1,486.36	\$469.94	\$3,480.67	\$10,473.78	\$15,910.75	
County wide Overhead	300420.01.01	\$57,211	\$15,406.00	\$15,406.00	\$15,406.00	\$17,758.00	\$63,976.00	
Contributions to ISF/New Equipment	300420.01.02	\$3,000				\$2,977.82	\$2,977.82	
General Units	300420.10	\$11,905		\$102.44	\$3,571.66	\$3,859.14	\$7,533.24	
Unit A	300420.10.A	\$288,992		\$46.79	\$20,720.08	\$37,770.17	\$58,537.04	
Unit A1	300420.10.A1	\$63,976		\$46.79	\$1,062.00	\$1,993.20	\$3,101.99	
Unit B	300420.10.B	\$181,665			\$4,883.97	\$16,573.59	\$21,457.56	
Unit C	300420.10.C	\$16,967			\$153.60	\$1,522.70	\$1,676.30	
Unit C1	300420.10.C1	\$18,915			\$972.78	\$2,310.48	\$3,283.26	
Unit D	300420.10.D	\$7,101			\$122.10	\$512.54	\$634.64	
Unit E	300420.10.E	\$1,790			\$169.71	\$242.04	\$411.75	
Unit F	300420.10.F	\$8,298		\$10,185.71		\$768.91	\$10,954.62	
Unit F1	300420.10.F1	\$53,821			\$642.75	\$650.20	\$1,292.95	
Unit F2	300420.10.F2	\$136,504		\$444.88	\$4,037.35	\$10,304.32	\$14,786.55	
Unit G	300420.10.G	\$9,074			\$232.39	\$1,018.07	\$1,250.46	
Unit G1	300420.10.G1	\$11,353				\$2,205.04	\$2,205.04	
Unit G2	300420.10.G2	\$58,301			\$721.88	\$2,486.95	\$3,208.83	
Unit H	300420.10.H	\$1,328			\$282.51	\$492.01	\$774.52	
Unit H1	300420.10.H1	\$9,736			\$824.75	\$2,363.46	\$3,188.21	
Unit T-2	300420.10.T2'	\$10,669		\$142.32	\$172.74	\$676.36	\$991.42	
Unit T-4	300420.10.T4	\$11,461		\$61.04	\$79.40	\$407.89	\$548.33	
Unit T-6	300420.10.T6	\$10,669		\$198.87	\$229.47	\$835.23	\$1,263.57	
Unit T-11/11a	300420.10.T11/T11a	\$23,871			\$1,828.87	\$10,165.38	\$11,994.25	
<b>Total Routine Operation and Maintenance</b>		<b>\$3,001,197</b>		<b>\$16,892.36</b>	<b>\$27,268.78</b>	<b>\$125,581.75</b>	<b>\$522,073.21</b>	<b>\$691,816.10</b>
<b>Non-Routine O&amp;M</b>								
Task		\$0					\$0.00	
Task		\$0					\$0.00	
<b>Total Non-Routine Operation and Maintenance</b>		<b>\$0</b>		<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Capital Outlay</b>								
Prior District Costs		\$1,544,000		\$1,544,000.00				\$1,544,000.00
Capital Replacement Contingency		\$103,400						\$0.00
Capital Reserve/Equipment Replacement		\$386,600						\$0.00
Operating Reserves		\$226,406						\$0.00
<b>Total Capital Outlay</b>		<b>\$2,260,406</b>		<b>\$1,544,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,544,000.00</b>
<b>Grand Total</b>		<b>\$5,261,603</b>		<b>\$1,560,892</b>	<b>\$27,269</b>	<b>\$125,582</b>	<b>\$522,073</b>	<b>\$2,235,816</b>

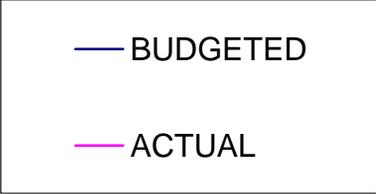
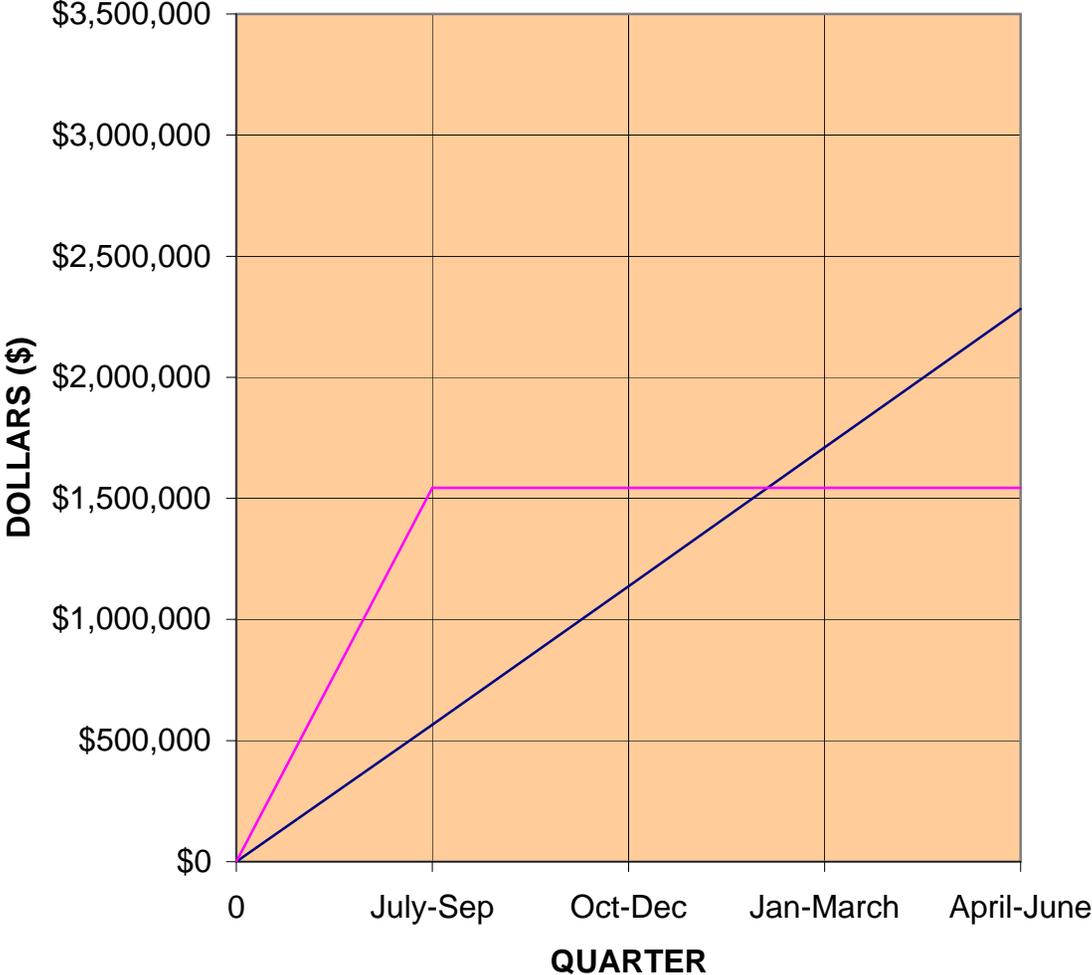
# Total Routine Operations and Maintenance



## Total Non-Routine Operations and Maintenance



# Total Capital Outlay



Nacimiento Project Commission  
 August 25, 2011  
**Agenda Item V.a – Report on Operational Impact of Mussel Infestation**  
 (Presentation – No Action Required)

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**TO:** Nacimiento Project Commission  
**FROM:** Dean Benedix, Utilities Division Manager  
**DATE:** August 25, 2011

**Purpose**

To present the findings of the “Nacimiento Water Project Operational Impact of Mussel Infestation” technical report related to the engineering study commissioned to forecast the impact of a quagga/zebra mussel infestation at Lake Nacimiento to the Nacimiento Project Commission.

**Discussion**

Since 2010, the Nacimiento Water Project has sponsored invasive mussel prevention efforts at Lake Nacimiento such that the Nacimiento Water Operating Fund for the current fiscal year includes a \$278,419 budget for invasive species/quagga mussel activities.

In January 2011, the San Luis Obispo County Flood Control & Water Conservation District (District) commissioned a reconnaissance-level engineering study to be performed by TJ Cross Engineers to forecast the impact of a quagga/zebra mussel infestation at Lake Nacimiento under the direction of the Nacimiento Project Commission. The purpose of this study is to forecast costs in the event that Lake Nacimiento does get infested. Knowing the potential cost impact would allow the District and Participants to weigh the extent of prevention efforts against what is potentially at stake.

TJCross Engineers researched current mussel infestation control methods, and interviewed operators of infested systems to learn of their operational and maintenance techniques. This report focuses on two possible mussel infestation control methods currently used on other water distribution systems – chlorination and filtration. Costs of the approaches compare as follows:

<u>Condition</u>	<u>Additional Annual O&amp;M</u>	<u>Capital</u>	<u>Total Costs</u>
Baseline (\$0.7M to \$0.9M/yr)	n/a	n/a	
Prevention Efforts <sup>1</sup>	+\$0.3M to \$0.5M	n/a	+\$6M over 16 yrs
Chlorination Approach	+\$0.2M to \$0.6M	+\$4M	+\$10M over 16 yrs
Filtration Approach	+\$0.4M to \$1M	+\$41M	+\$54M over 16 yrs

<sup>1</sup> Inflated from current budget; based on volunteer screening program and public education approach.



Annual chlorination costs may not be much more than funding prevention each year, but an estimated +\$4 million capital investment would be required to implement a chlorination program. The filtration approach may cost twice as much annually as funding prevention, plus requiring significant capital.

The District and Participants may keep these cost thresholds in mind when considering funding prevention efforts. It would be best to keep invasive mussels out of area lakes altogether as opposed to any contemplated control method.

*The final report has been distributed to TSG members, and is available to Commissioners upon request.*

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Nacimiento Project Commission  
August 25, 2011  
**Agenda Item V.b – Acknowledgement of Gary Henderson’s Retirement**  
(Presentation – No Action Required)

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**TO: Nacimiento Project Commission**  
**FROM: Dean Benedix, Utilities Division Manager**  
**DATE: August 25, 2011**

Gary Henderson has represented the City of San Luis Obispo on the Technical Support Group, and attended his last Technical Support Group meeting on August 11, 2011, as he is set to retire from the City of San Luis Obispo in September. A retirement BBQ is scheduled for Wednesday, September 14, 2011, from 4:00 to 7:00 p.m. – contact the City at (805) 781-7215 for event details.

Gary’s contribution to the success of the Project is greatly appreciated by the District. At the August 11, 2011, Technical Support Group meeting, a certificate was presented to Mr. Henderson, acknowledging his many contributions to the Project.

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Nacimiento Project Commission  
August 25, 2011

**Agenda Item V.c – Project Awards by the American Society of Civil Engineers**  
(Presentation – No Action Required)

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**TO:** Nacimiento Project Commission  
**FROM:** John R. Hollenbeck, P.E., Nacimiento Project Manager  
**DATE:** August 25, 2011

**Purpose**

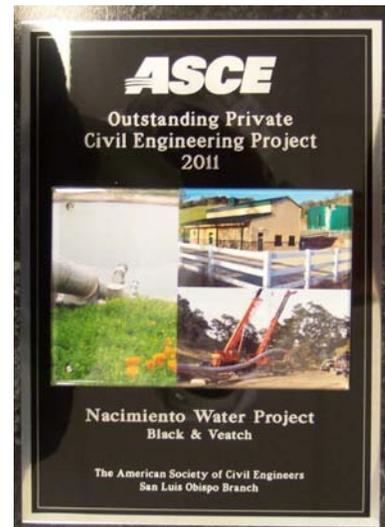
To notify your Commission of two recent accolades received for the Nacimiento Water Project (Project) bestowed by the American Society of Civil Engineers (ASCE).

**Discussion**

The Project recently received two accolades from the ASCE, and each is discussed separately below.

Local ASCE Branch. At the June 16, 2011, award luncheon, the local San Luis Obispo ASCE Branch bestowed two awards on the Project: The *Outstanding Private Sector Civil Engineering Award* and the *Outstanding Civil Engineering Project of the Year Award*.

The first award reflects that the engineering was performed by a private company, Black & Veatch Corporation (B&V), and is actually given to B&V. A photograph of the award plaque is shown – this plaque was retained by the District and will be displayed within the County’s Public Works Department (once the Project team is tired of looking at it hanging on the wall in the team’s office!). B&V has also received a plaque for their office.



The second award is the *Outstanding Civil Engineering Project of the Year Award* for 2011, and the Branch will issue either an award statue for the office or a plaque to be mounted at the Project site (likely the Intake Pump Station). Winning the local Branch’s *Project of the Year* award makes the Project eligible for consideration at the next level – the Los Angeles ASCE Section’s *Project of the Year* award, and if successful there, then onward to the ASCE Region 9 (California). We will keep your Commission apprised on the outcome of the Los Angeles Section’s consideration.

National ASCE Award Finalist. The ASCE national office in Reston, Virginia, issued a letter to B&V and the District notifying us that the Project is one of five finalists in the 2012 *Outstanding Civil Engineering Achievement (OCEA)* competition. This competition is separate from the



local/section/regional ASCE award series. The OCEA is the engineering equivalent to the movie Oscar award, and, as is the case with the Oscars, it is a huge honor simply to be selected as a finalist in the best civil engineering project of the year award.

The OCEA was established in 1960, and past winners include the Denver International Airport (1997), Statue of Liberty Restoration (1987), the Trans-Alaska Pipeline System (1978), the California State Water Project (1972) and the World Trade Center (1971), just to name a few. Last year, the new \$1.2-billion Dallas Cowboy Stadium was a finalist for the OCEA; however, the Louisville Water Company's Riverbank Filtration Tunnel and Pump Station project was declared the winner.

The other four finalists for the 2012 OCEA are:

- Cherry Island Landfill Vertical Expansion Project, Wilmington, DE
- Hoover Dam Bypass, Boulder City, NV
- US-191 Colorado River Bridge, Moab, UT
- Willamette River CSO Tunnel Program, Portland, OR.

The winner of the OCEA award will be announced at the Outstanding Projects and Leaders (OPAL) Gala on Thursday, **March 22, 2012**, at the Renaissance Arlington Capital View Hotel, Arlington, VA. Commission Chairman Jones has indicated that he and his wife Alice are planning on attending, and Nacimiento Project Manager John Hollenbeck and his wife Monica also plan on attending. Commissioner Jones hopes that several project team representatives and District representatives can plan on attending to make a strong presence of support for this wonderful regional endeavor that we call the Nacimiento Water Project.

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