

**FLOOD ZONE 9 ADVISORY BOARD MEETING**  
**MARCH 18, 2014**  
**ROSS TOWN HALL**  
**STAFF REPORT**

**Item 1. Approval of meeting minutes for November 21, 2013 and December 16, 2013**

**Action by Board:** Advisory Board members will review meeting minutes from the November 21<sup>st</sup> 2013 and December 16<sup>th</sup> 2013 meetings, make corrections, and approve the minutes as corrected.

**Item 2. Open time for items not on the agenda**

**Item 3. Program Status Update**

**Program Principles and Goals** adopted by the Advisory Board at the December 16<sup>th</sup> 2013 Advisory Board meeting are available by visiting the Ross Valley Flood Protection and Watershed Program website at [www.rossvalleywatershed.org](http://www.rossvalleywatershed.org).

**Item 4. Project Status Updates**

***Phoenix Lake IRWM Retrofit Project***

*Implementing Agency: Marin County Flood Control and Water Conservation District*

*Cost Estimate: \$19,700,000 (Source –DWR Prop 1E Grant Agreement 5/8/2013)*

Four proposals from consultant teams to provide geotechnical services, a feasibility study, preliminary design and updated cost estimates were received on December 6, 2013. Interviews were held with all four consultant teams and URS Corporation was selected to perform the work. It is expected that this work will be complete in August 2015 including allowances for threatened species work constraints. This work will be used to confirm project geotechnical feasibility i.e., dam strength, and provide information for the initial stages of design.

A Request for Qualifications (RFQ) for final engineering design, environmental compliance services, and permitting services was issued on February 18, 2014 with a due date of March 14, 2014. This work will evaluate environmental impacts and recommend mitigation measures, seek public input, complete the construction bid packages, and acquire the necessary permits for construction. This work is expected to be complete in mid-2016. The selected proposal will be posted on [www.marinwatersheds.org](http://www.marinwatersheds.org) after the selection is made.

Other feasibility studies in process include the Hydrologic Study of Long-Term Yield of Phoenix Lake, the Ross Creek In-Stream Flow Study, and the Water Quality Baseline Study for both Phoenix Lake and Ross Creek. Results of these studies will be available this summer. Preliminary investigation indicates Ross Creek has the capacity to handle flows from rapid drawdown of Phoenix Lake.

In addition to comprehensive outreach efforts intrinsic to the CEQA Environmental Review process, there will be many opportunities for public engagement with this project. In addition to the regular updates that we will be providing the Zone 9 Advisory Board, we will also plan on making presentations to the MMWD Board and Ross Town Council at key project milestones.

**Marin County Flood Control and Water Conservation District**

**Memorial Park Dual-Use Detention Basin Project**

Implementing agency: Town of San Anselmo

Cost Estimate: \$17,441,000 (Source – DWR Prop 1E Grant Application 9/20/2013)

Town of San Anselmo has received and is reviewing the draft grant funding agreement from Department of Water Resources (DWR). Fifty percent (50%) of the project cost, \$8,720,500, will be paid by the grant with the remainder to come from Flood Zone 9, Town of San Anselmo, and other grant sources. Sean Condry, DPW Director of the Town of San Anselmo, will update with any recent details.

**Bridge Replacements in Towns of San Anselmo and Ross**

A joint project by the Towns of San Anselmo and Ross for the replacement of several bridges over San Anselmo Creek/Corte Madera Creek are included as measures in the 10-Year Work Plan (10 YWP) and are needed to establish the interim flood risk reduction level of a 25-Year-Flood level of flood protection in Ross Valley in conjunction with all the measures in the 10 YWP. The Towns of San Anselmo and Ross are in the process of receiving funding from Caltrans to replace bridges at Winship Avenue, Nokomis Avenue and Madrone Avenue and to remove the bridge at Sycamore Avenue and replace with a new bridge at Center Boulevard. The Towns have jointly selected a consultant (Quincy Engineering) to perform engineering design, environmental and right-of-way services for all the bridge projects. The Town of Ross has awarded the design contract to replace the Winship Avenue Bridge and a separate contract with Moe Engineering to manage the engineering contract. San Anselmo will perform project management of the contract with town staff. A project summary of each bridge replacement is included below.

<u>Bridge Replacement Location</u>	<u>Implementing Agency</u>	<u>Total Cost Estimate/Source</u>	<u>Current Caltrans Cost Share</u>
Nokomis Avenue	Town of San Anselmo	\$2,396,000/Town of Anselmo	100%
Madrone Avenue	Town of San Anselmo	\$2,415,000/Town of Anselmo	88.53%
Sycamore Ave/Center Blvd *	Town of San Anselmo	\$5,810,000/Town of Anselmo	88.53%
Winship Avenue	Town of Ross	\$2,420,000/Town of Ross	88.53%

*\*Note: This table reflects an update to estimated cost of this bridge in the 10-Year Work Plan. The updated cost is \$5,810,000 from the \$2,310,000 previously shown. The project's Secured and in-Process Grant column then changes to \$5,080,000 from \$1,560,000 previously shown. The local cost share is 11.47% of the total cost or \$666,407.*

The Town of Ross has applied to Caltrans to increase their cost share for the Winship Avenue Bridge from 88.53% to 100%.

Caltrans will reimburse at least 88.53% of the project costs for the bridge projects. This percentage is over 70% of the total cost and, as per the Principles and Goals established by the Flood Zone 9 Advisory Board at the December 16<sup>th</sup> 2013 Advisory Board meeting, the remainder of the local cost share will be paid from the Flood Zone 9 Storm Drainage Fee funds.

**Corte Madera Creek Unit 4 Project**

Implementing agency – Marin County Flood Control and Water Conservation District

Cost Estimate – Planning/Study Phase \$3,000,000, Engineering Design (Cost To Be Determined), Right-of-Way (Cost To Be Determined), Construction \$6,560,000 (Source – USACE)

## **Marin County Flood Control and Water Conservation District**

The U.S. Army Corps of Engineers (USACE) Flood Control Project, known as Unit 4, is one of the essential projects in the proposed watershed-wide flood protection program (Program). The project will increase the capacity of Corte Madera Creek to contain upstream flow preventing floodwaters from leaving the creek in the Town of Ross and Kentfield.

At the December 16, 2014 meeting, the Zone 9 Advisory Board recommended that the Board of Supervisors approve a budget for this project and to approve the Feasibility Cost Sharing Agreement (FCSA) between the Marin County Flood Control and Water Conservation District (District) and the USACE. We received the final FCSA document signed by USACE on February 25, 2014 (This document is posted on the Unit 4 project information page available at [www.rossvalleywatershed.org](http://www.rossvalleywatershed.org)).

The Unit 4 project is not in the Corps of Engineers' FY14 Work Plan or the FY15 budget released on March 5, 2014. Staff will work with the San Francisco District of the Corps of Engineers to look at our options moving forward including amending the recently executed Feasibility Cost Sharing Agreement (FCSA) to allow Flood Zone 9 to advance funds to the Corps of Engineers so that work can continue. Known as an "acceleration clause", it would permit Flood Zone 9 to advance a portion of the \$1.5 million local share with a future match from the Corps of Engineers.

### **Lefty Gomez Field Dual-Use Detention Basin Project**

*Implementing Agency: Marin County Flood Control and Water Conservation District*

*Cost Estimate: \$6,400,000 (Source – Ross Valley Capital Improvement Plan, May, 2011)*

Preliminary investigations into the feasibility of a detention basin on this site are about to begin. A joint public workshop for the Lefty Gomez and Loma Alta projects is planned to be held in April or May 2014 in Fairfax to introduce the project concept to all interested stakeholders and receive their input. The date of the public workshop will be announced on the program website ([www.rossvalleywatershed.org](http://www.rossvalleywatershed.org)), via mailers to be sent to stakeholders residing in the project vicinity, through postings at town kiosks, and via email to our website subscribers.

Data from monitoring wells and soil samples is one of the first steps in confirming technical feasibility of the project, providing data for the design, and for bringing the project to a "grant-ready" status. An engineering consultant will be sought to carry out the installation of monitoring wells and collection of soil samples after the public workshop. Installation of the monitoring wells and obtaining soil samples will be performed outside of school hours as much as practical to limit impacts to the school and its students.

### **Loma Alta Detention Basin Project**

*Implementing Agency: Marin County Flood Control and Water Conservation District*

*Cost Estimate: \$1,900,000 (Source – Ross Valley Capital Improvement Plan, May, 2011)*

Preliminary investigations into the feasibility of a detention basin on this site are about to begin. A joint public workshop for the Lefty Gomez and Loma Alta projects is planned to be held in April or May 2014 in Fairfax to introduce the project concept to all interested stakeholders and receive their input. An engineering consultant will be sought to carry out the installation of monitoring wells and collection of soil samples after the public workshop. A permit will be required from the Marin County Parks and Open Space District to carry out soil sampling to proceed in developing this detention basin site design to "grant-ready" status. Data from soil samples is one of the first steps in confirming technical feasibility of the project and also provides data for the design. A subsequent agreement with the Marin County Parks and Open Space District will be required before submitting a grant application for design,

## ***Marin County Flood Control and Water Conservation District***

environmental review, and construction in the future.

### ***Corte Madera Creek Sediment Management - Dredging***

*Implementing Agency: Marin County Flood Control and Water Conservation District*

*Cost Estimate: \$6,210,000 (Source - Flood Zone 9/Ross Valley 10-Year Work Plan)*

This project will remove accumulated sediment from the earthen section of lower Corte Madera Creek in Kentfield, Larkspur, and Greenbrae. It is scheduled for 2017. District staff has started preliminary planning. Surveying of the creek bottom, environmental review and application for permits will begin in 2016. This dredge will restore the flow capacity of the creek for a 100-Year flood, the size of the December 31, 2005 flood.

### **Item 5. Flood Zone 9 and Flood Zone 9A Annual Budgets – FY 2014-15**

Staff will present the annual budgets. Copies are provided in the meeting package.

- a.) The Flood Control Zone 9 budget lists expenses and revenues for the Ross Valley Flood Protection and Watershed Program. This budget assumes a 3% increase in the flood fee amount for Fiscal Year 2014-15 in accordance with the limit set by the fee ballot language.
- b.) The Flood Control Zone 9A budget lists expenses and revenues specifically for the USACE Corte Madera Creek Project-Unit 4

**Action by Advisory Board on Items 5a and 5b:** Recommend approval of the budget.

### **Item 6. Regular Advisory Board Meetings**

Staff has received suggestions from Advisory Board members and other stakeholders to establish regular Flood Zone meeting dates during set months of the calendar year. Staff recommends the following Advisory Board meeting schedule and general meeting topics to be held on the **2<sup>nd</sup> Wednesday of each meeting month, starting at 7:00 PM:**

- **March** – Budget, post-storm season information, construction awards.
- **June** – Annual Community Meeting topics, summer maintenance program.
- **September** – Program updates, winter season prep.
- **December** – Program updates as needed.

**Action by Board:** Advisory Board members will review the above proposed schedule, make corrections or suggestions, and approve the meeting schedule. Meeting locations will be decided based on availabilities of venues.

FY 2014 - 2015 Budget Report			
FCZ #9 Ross Valley			
Fund 23781			
Budget Summary			
Account Description	FY 2013-14 Budget	FY 2013-14 Projected	FY 2014-15 Budget
<b>Fund Beginning Balance</b>	\$9,949,172	\$8,515,900	\$8,012,113
<b>Expenses</b>			
Salaries and Benefits	\$950,000	\$1,182,579	\$1,237,579
Service and Supplies	\$2,675,000	\$1,896,579	\$839,260
<b>Total Expenditures</b>	<b>\$3,625,000</b>	<b>\$3,079,158</b>	<b>\$2,076,839</b>
<b>Revenue</b>			
Watershed Fee	\$2,150,000	\$2,365,292	\$2,436,251
Other Taxes	\$159,140	\$199,984	\$199,590
Revenues From Use of Money and Property	\$23,000	\$8,570	\$8,540
Intergovernmental Revenues	\$1,000	\$1,025	\$1,025
Miscellaneous Revenues	\$500	\$500	\$0
Proposition 1E SWFM Grant - Phoenix Lake IRWM Retrofit	\$565,000	\$0	\$0
<b>Total Revenue</b>	<b>\$2,898,640</b>	<b>\$2,575,371</b>	<b>\$2,645,406</b>
<b>Fund Ending Balance</b>	<b>\$8,687,812</b>	<b>\$8,012,113</b>	<b>\$8,580,680</b>
Major "Services & Supplies" Expenditures			
<b>Professional Services</b>			
Phoenix Lake - Pre-Design Studies, Design, Env. Compliance, Permitting, Operations Plan	\$1,120,000	\$0	\$0
Phoenix Lake - Baseline Water Quality Study Gauges	\$10,000	\$0	\$0
Lefty Gomez Field Detention Basin	\$0	\$30,000	\$0
Memorial Park Detention Basin	\$0	\$89,200	\$444,600
Loma Alta Detention Basin	\$0	\$40,000	\$0
San Anselmo Bridge Replacements	\$0	\$300,000	\$0
Town of Ross Bridge Replacement	\$0	\$100,000	\$0
U.S. Army Corps of Engineers Unit 4 Cost Share	\$0	\$535,000	\$0
Engineering Services Task-Based Contract (3Yr-\$300k)		\$300,000	\$0
Corte Madera Creek Dredging-Bathymetry Survey and Permits	\$0	\$0	\$50,000
Creek Capacity Improvements - Bridge Program	\$10,000	\$10,000	\$10,000
Fish Passage Program	\$25,000	\$25,000	\$25,000
Surveying - Various Projects (Oberkamper on-call)	\$10,000	\$11,000	\$10,000
Real Estate Services	\$50,000	\$50,000	\$50,000
Annual Engineers Report - Flood Fee	\$20,000	\$16,115	\$20,000
Various On-call (WRA, CWS, CLE, Questa, Nute, Anthro)	\$0	\$60,000	\$0
Kermani Greenbrae Boardwalk HMGP Appeal	\$0	\$5,000	\$0
Miscellaneous Studies	\$1,305,000	\$100,000	\$100,000
<b>Total</b>	<b>\$2,550,000</b>	<b>\$1,671,315</b>	<b>\$709,600</b>
<b>Maintenance &amp; Repair Services - Equipment</b>			
Precipitation and Stream Gauge Maintenance	\$1,700	\$1,700	\$2,000
ALERT System (Radio and Software for Gauges)	\$7,600	\$7,600	\$2,400
Miscellaneous Services	\$0	\$0	\$0
<b>Total</b>	<b>\$9,300</b>	<b>\$9,300</b>	<b>\$4,400</b>
<b>Maintenance &amp; Repair Services - Land &amp; Buildings</b>			
CCNB (Conservation Corps North Bay)	\$30,100	\$30,100	\$30,100
Creek Maintenance Program	\$30,000	\$30,000	\$30,000
Miscellaneous	\$21,700	\$21,700	\$21,700
<b>Total</b>	<b>\$81,800</b>	<b>\$81,800</b>	<b>\$81,800</b>
<b>Maintenance &amp; Repair Supplies - Land &amp; Buildings</b>			
Routine Maintenance Agreement Annual Fees	\$0	\$784	\$784
Miscellaneous	\$0	\$3,000	\$3,000
<b>Total</b>	<b>\$0</b>	<b>\$3,784</b>	<b>\$3,784</b>
<b>Other "Service and Supplies" Expenditures</b>	<b>\$33,900</b>	<b>\$130,380</b>	<b>\$39,676</b>

**FCZ #9a Ross Valley - Corte Madera  
Fund 23780**

**Budget Summary**

Account Description	FY 2013-14	FY 2013-14 Projected	FY 2014-15 Budget
<b>Fund Beginning Balance</b>	\$1,084,258	\$1,146,029	\$127,285
<b>Expenses</b>			
Salaries and Benefits	\$ 49,000	\$ 54,236	\$ -
Service and Supplies	\$ 470,000	\$ 965,008	\$ -
Capital Outlay	\$ -	\$ -	\$ -
<b>Total Expenditures</b>	<b>\$519,000</b>	<b>\$1,019,244</b>	
<b>Revenue</b>			
Revenues From Use of Money and Property	\$ 4,000	\$ 500	\$ -
Miscellaneous Revenues	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$4,000</b>	<b>\$500</b>	<b>\$0</b>
<b>Fund Ending Balance</b>	<b>\$569,258</b>	<b>\$127,285</b>	<b>\$127,285</b>

**Major "Services & Supplies" Expenditures**

**Professional Services**

Legislative Services	\$ -	\$ -	\$ -
U.S. Army Corps of Engineers Cost Share	\$ 400,000	\$ 965,000	\$ -
Title Company - Lands and Easements	\$ 50,000	\$ -	\$ -
Miscellaneous Studies	\$ 20,000	\$ -	\$ -
<b>Total</b>	<b>\$470,000</b>	<b>\$965,000</b>	<b>\$0</b>

**Other Services & Supplies**

**\$0                      \$8                      \$0**

		10 YWP Estimated Costs, Updated Costs, Grants				Last Updated: March 11 2014
FC MEASURES - 10 Year Work Plan*	Implementing Agency	ORIGINAL COST ESTIMATES 10 Year Work Plan as Approved by FZ9 AB on April 3, 2012	Updated Costs** (where known)	Secured and In-Process Grants	Updated Costs minus Secured and In-Process Grants	Current Work Program
<b>BASELINE MEASURES 10 YWP</b>						
Loma Alta	FC District	\$1,900,000	\$1,900,000	\$0	\$1,900,000	\$1,900,000
Lefty Gomez	FC District	\$6,400,000	\$6,400,000	\$0	\$6,400,000	\$6,400,000
Memorial Park (Prop 1E Scope)	San Anselmo	\$7,000,000	\$17,441,000	\$8,720,500	\$8,720,500	\$8,720,500
Phoenix Lake (Prop 1E Scope)	FC District	\$15,322,000	\$19,691,150	\$7,661,000	\$12,030,150	\$12,030,150
Azalea Ave - FX	Fairfax	\$1,136,000	\$1,136,000	\$1,136,000	\$0	\$0
Nokomis Ave SA	San Anselmo	\$1,908,000	\$2,396,000	\$2,396,000	\$0	\$0
Madrone Ave SA	San Anselmo	\$1,280,000	\$2,415,000	\$2,155,000	\$260,000	\$260,000
Sycamore Ave (Center Blvd) SA	San Anselmo	\$4,279,000	\$5,810,000	\$5,143,593	\$666,407	\$666,407
Winship Ave RS	Ross	\$1,640,000	\$2,420,700	\$2,085,501	\$335,199	\$335,199
SFD Blvd Bridge RS	Ross	\$6,125,000	\$6,125,000	\$0	\$6,125,000	\$6,125,000
Bldg Bridge #2	San Anselmo	\$2,710,000	\$2,710,000	\$1,810,000	\$900,000	\$900,000
<b>Unit 4 (Assumptions)</b>						
Planning FCSA	USACE	\$0	\$3,000,000	\$0	\$1,500,000	\$1,500,000
Construction	USACE	\$0	\$6,560,000	\$0	\$3,280,000	\$3,280,000
LERDS	FC District	\$0	\$4,500,000	\$0	\$4,500,000	\$4,500,000
Corte Madera Creek Dredge (100,000 CY @ \$45/CY) plus Design, Enviro, Permits	FC District	\$0	\$6,210,000	\$0	\$6,210,000	\$6,210,000
<b>TOTAL - Baseline Measures</b>		<b>\$49,700,000</b>	<b>\$88,714,850</b>	<b>\$31,107,594</b>	<b>\$52,827,256</b>	<b>\$52,827,256</b>
<b>ADDITIONAL MEASURES 10 YWP</b>						
<b>Merwin Avenue Bridge Replacement [124]*</b>	TBD	\$989,000	\$989,000	\$0	\$989,000	\$0
Channel Modifications at Merwin Bridge Area[121][122][123][125][126][127][128]	TBD	\$957,000	\$957,000	\$0	\$957,000	\$0
Install new wing wall [142]	TBD	\$126,000	\$126,000	\$0	\$126,000	\$0
Install new wing wall [143]	TBD	\$136,000	\$136,000	\$0	\$136,000	\$0
Install Floodwall/Berm as wing wall extension [144]	TBD	\$70,000	\$70,000	\$0	\$70,000	\$0
Supplement: Floodwall <3.6' RS662-700 (35 ft long)	TBD	\$50,000	\$50,000	\$0	\$50,000	\$0
Supplement:Floodwall<3.3' RS662-791 (129 ft long)	TBD	\$655,000	\$655,000	\$0	\$655,000	\$0
Supplement:Floodwall<2.0' RS956-1283 (327 ft long)	TBD	\$150,000	\$150,000	\$0	\$150,000	\$0
<b>Taylor Avenue Bridge Replacement [203]</b>	TBD	\$991,000	\$991,000	\$991,000	\$0	\$0
Replace Existing Retaining Wall [209]	TBD	\$216,000	\$216,000	\$0	\$216,000	\$0
Retrofit/Replace Existing Retaining Wall [213]	TBD	\$77,000	\$77,000	\$0	\$77,000	\$0
Construct new retaining wall [216]	TBD	\$99,000	\$99,000	\$0	\$99,000	\$0
Supplement: Floodwall<1.0' RB RS2762-2796 (34 ft long)	TBD	\$10,000	\$10,000	\$0	\$10,000	\$0
Construct new retaining wall as wingwall [219]	TBD	\$382,000	\$382,000	\$0	\$382,000	\$0
Construct new retaining wall	TBD	\$387,000	\$387,000	\$0	\$387,000	\$0
<b>Broadmoor Avenue Bridge Replacement [224]</b>	TBD	\$1,354,000	\$1,354,000	\$0	\$1,354,000	\$0
Channel Modifications RS3400-3442 [225][227][228]	TBD	\$249,000	\$249,000	\$0	\$249,000	\$0
Floodwall <2.0' LB RS3646 +/- 80' (160 ft long)	TBD	\$65,000	\$65,000	\$0	\$65,000	\$0
Floodwall <2.0' LB RS4085 +/- 120' (240 ft long)	TBD	\$90,000	\$90,000	\$0	\$90,000	\$0
All Flood Control Measures (22) from RS437000-45970	TBD	\$9,214,000	\$9,214,000	\$0	\$9,214,000	\$0
Floodwall <1.0' RB RS43397-43512 (115 ft long)	TBD	\$15,000	\$15,000	\$0	\$15,000	\$0
Supplement:Floodwall<3.0' RB RS43716-43773 (57 ft long)	TBD	\$50,000	\$50,000	\$0	\$50,000	\$0
Supplement:Floodwall<32.5' RB RS43828-43838 (10 ft long)	TBD	\$5,000	\$5,000	\$0	\$5,000	\$0
<b>ADDED MEASURES - SUPPLEMENT TO 10YWP</b>						
<b>SUBTOTAL - Additional Measures</b>		<b>\$16,337,000</b>	<b>\$16,337,000</b>	<b>\$991,000</b>	<b>\$15,346,000</b>	<b>\$0</b>
<b>PROGRAM MANAGEMENT and PUBLIC OUTREACH</b>						
Staff = 10 Years @ \$346,951	NA	\$0	\$3,469,513	\$0	\$3,469,513	\$3,469,510
Hydraulic & Hydrologic Engineering, Grant Application Prep (3 years @ \$100K per year max)	NA	\$0	\$300,000	\$0	\$300,000	\$300,000
<b>SUBTOTAL</b>			<b>\$3,769,513</b>	<b>\$0</b>	<b>\$3,769,513</b>	<b>\$3,769,510</b>
<b>GRAND TOTAL</b>		<b>\$66,037,000</b>	<b>\$105,051,850</b>	<b>\$32,098,594</b>	<b>\$68,173,256</b>	<b>\$56,596,766</b>
<b>Deficit/Surplus without raising annual fee amount</b>					<b>-\$25,027,062</b>	<b>-\$13,450,572</b>
<b>Deficit/Surplus with an annual 3% rise in fee amount</b>					<b>-\$18,368,905</b>	<b>-\$6,792,415</b>
<b>Expected Revenue - With No Rise in Fee Amounts:</b>		<b>\$43,146,194</b>				
<b>Expected Revenue - With 3% Rise in Fee Amounts:</b>		<b>\$49,804,351</b>				

**NOTES:**

\* Pending review and certification of environmental documents and alternatives to the listed project

\*\* Operations and Maintenance costs are not included and will be updated when the final design is known.

Estimates reflect current knowledge of projects. Costs are refined through the design and environmental process.