



CIP & BOND PROJECTS

STATUS REPORT FEBRUARY 24, 2010

San Pedro Creek Water Rights Utilization

- Construction of the Filter Plant Improvements is complete. Staff is working to change the status of the water rights from “under construction” to normal operation mode.
- Staff is also investigating an in situ repair of the piping between the existing intake structure and the Filter Plant intake piping. Staff is overlaying collected GPS data onto available Google and San Mateo County aerial mapping to use for design purposes.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$5,000	\$0	0%	\$5,000

Water Desalination – Water Treatment Feasibility Study

- This project investigates the necessary conditions and steps needed to construct a desalination facility. The investigation will include preliminary discussions with other agencies to determine their interest in purchasing the water or perhaps partnering to construct a facility.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$3,000	\$0	0%	\$3,000

Alternate Energy Project

- Previously, staff investigated methods of lowering its electrical costs and its dependence on traditional energy sources because of the high energy cost of pumping water throughout the District. Staff continues to look at conservation and the possibility of generating the District’s own power through renewable sources.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,000	\$0	0%	\$2,000



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Reina Del Mar/Vallemar Pipeline Replacement Project

The Reina Del Mar Pipeline Replacement Project is a multi-phase multi-year project to improve pressures and flow characteristics, access to water storage, and eliminate the low pressure zone in the Vallemar Valley.

- Staff is currently working on Phase VIII that connects the service connections for the south side residents to the new 12-inch high pressure trunk line on the north side of Reina Del Mar. *During this period staff connected existing pipeline on South Ramona to the new high pressure main. The work includes the installation of pressure regulators for each of the houses along Ramona.*

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$200,000	\$32,396	16.2%	\$167,604

Annual Pipeline Project

- T-4 Transmission Main Replacement Project. This is a joint project with the San Francisco Recreation and Parks Department to replace approximately 1,800' of existing pipe within the lead-contaminated Sharp Park Rifle Range. The project is currently on hold until the SFRPD can obtain a Fish & Wildlife Permit for their soil remediation project (expected in April 2010).
- Norfolk Pipe Replacement Project. This proposed project has been put on hold until a future date when funding becomes available.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$200,000	\$29,419	14.71%	\$170,581

21" Transmission Main Emergency Piping Nodules

- Staff is planning the installation of a nodule during the end of this year. The nodule installation will be the second of 15 needed to prepare for upcoming earthquakes on the San Andreas Fault. More than a mile of the District's essential transmission main is located directly above the San Andreas Fault. The "jump nodules" will be placed at about 500' intervals to allow staff to quickly attach temporary flexible piping above ground to "jump" sections of the transmission piping damaged during an earthquake.



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- By January 2010 staff had replaced all of the air release valves (ARV) along the 21" transmission main within the watershed area. Only two ARV's remain along the remaining three miles of 21" main that need replacement.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$200,000	\$8,290	4.15%	\$191,710

Zamora Regulator Upgrade

The Zamora regulator and vault is currently being reconstructed in-place. Staff is reusing the access panel from a previous regulator project to save money and still significantly improve vault access. Staff is also installing an on-site solar driven pump to remove ground water that floods the vault regularly.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$150,000	\$6,608	4.41%	\$143,392



Zamora Regulator

Nelson Tank Removal Project

The tank is drained of water, but work on other critical projects has delayed tank removal.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$20,000	\$0	0%	\$20,000



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ANNUAL PROGRAMS

Reservoir Site Paving

- Work is on hold during winter months.
- This year an asphalt pad for two 20 foot long steel storage containers at the Gypsy Tank site was completed. Paving work adjacent to the Royce Tank is also complete.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$60,000	\$5,750	9.6%	\$54,250

Reservoir Fence Maintenance

- Work on this project will begin in spring 2010.
- The damaged concrete fence at the Skyline Intertie site was repaired and paid for by the responsible motorist's insurance carrier.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$25,000	\$2,669	10.68%	\$22,331

Easement Protection

This program is part of the District's Emergency Preparedness Program because it provides access to important existing piping for monitoring and repairing leaks.

- Staff completed its maintenance of the easement on Gypsy Hill between the District's tank site and Sharp Park Road.
- Staff is also working with the GGNRA to improve access to the District easements on Mori Ridge (east of State Highway 1), Cattle Ridge and Sweeney Ridge.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$30,000	\$34,522	115.07%	(\$4,522)



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Meter Replacement Program

This program installs and updates meters and meter clocks (recording/reporting devices mounted on the top of the meters). Work on this project resumed this period with meters being replaced on Route 29 including Aspen and Park Mall.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$150,000	\$1,016	0.68%	\$148,984



Patrick Durkin in the process of changing out meter.

Fire Hydrant Replacement Program

Work on this project will resume later in this fiscal year.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$30,000	\$266	0.89%	\$29,734

Equipment Purchase Program

Equipment/Vehicle purchases are on hold until later this fiscal year.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$125,000	\$0	0%	\$125,000



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Geographic Information System

Staff is continuing the process of scanning existing maps into electronic format and entering map details into an Excel spreadsheet for later use in a database. This process will improve map retrieval, improve staff's knowledge of existing available information and preserves these documents in electronic and original formats.

This project also starts the process of developing a Geographical Information System (GIS) for the District. When complete, the GIS will effectively manage and retrieve essential information such as project plans, as-built maps, photos, maintenance data, property/easement titles, meter location data and utility data for other utilities. The GIS ties together this data into a mapping system that simplifies its retrieval and improves analysis.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$20,000	\$0	0%	\$20,000

BOND FUNDED PROJECTS

Christen Hill Tank Improvements – Tank Design

This project replaces the existing 3.5 million gallon tank with a new seismically-designed 3.5 million gallon tank.

- Staff is currently conducting its final review of the 100% plans and specifications and readying them for bidding in March 2010.
- The required CEQA documentation has been prepared and certified.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$180,000	\$116,721	64.84%	\$63,279

Chris Regnart & Bert Weiss review 100% Christen Hill plans





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Christen Hill Tank Improvements – Tank Construction

- Within the month staff will begin on-site piping modifications at the Christen Hill Tank and at the adjacent Daly City Tank that are necessary prior to the removal of the tank.
- Preparatory electrical work such as SCADA connections to the adjacent Daly City Tank and procedures for the planned SCADA/electrical disconnects of the Christen Hill Tank have already been started and should be completed within the next three week period.
- Removal of the tank will occur after the pump modifications at the Regan Pump Station and the necessary on-site piping modifications have been completed.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$200,000	\$62,351	31.18%	\$137,649

Christen Hill Tank Improvements – Regan Pump Station Modifications

The pump station modifications consist of adding a three-pump booster system and piping modifications to existing piping to accommodate the new booster pump system. The system will help maintain pressures and fire flows within the pressure zone served by the Regan Pump Station and Christen Hill Tank during the 1 ½ year period that the tank will be off-line for its removal and replacement.

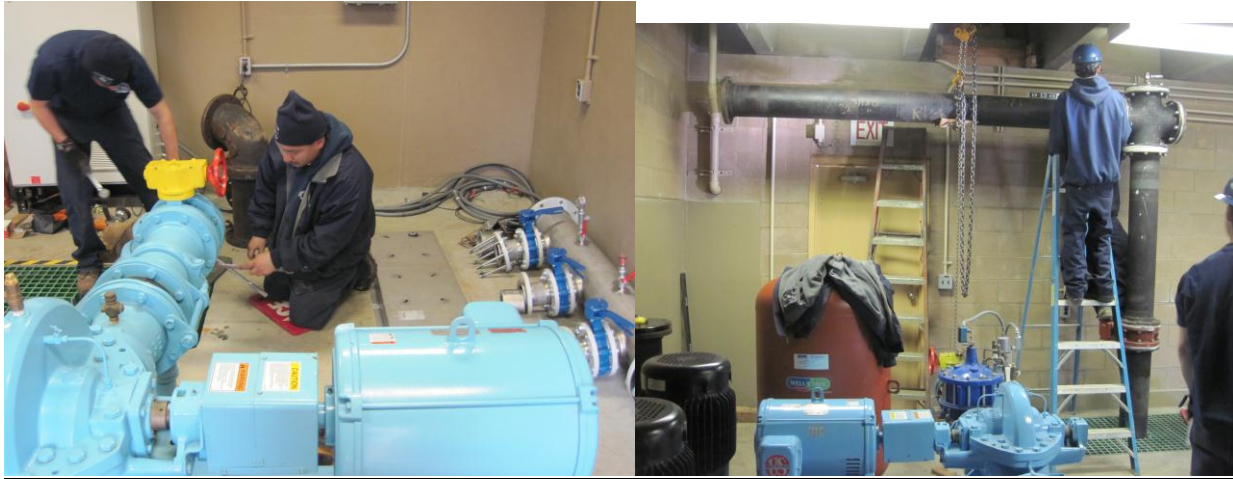
- Staff is nearly finished with the piping modifications and installation of the booster pumps.
- SCADA and electrical system modifications to operate and control the booster pump system are also nearly complete.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$84,205	84.21%	\$15,795



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Staff working at Regan Pump Station at Milagra
(Left above) Matt Woodworth & Jose Velazco; (Right above) Jason Fernandez;
(Below) Matt Woodworth, Jose Velazco and Joe Cardera



Christen Hill Tank Project - Milagra Piping Modifications

This project is one of many innovative projects designed by staff. It solves a pressure problem along the 21" transmission main by essentially constructing a stand pipe instead of a new pressure vessel or water tank. Staff is replacing the existing 16" piping at the site with 36" diameter piping



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that was recycled from the Filter Plant. Improvements at the Filter Plant constructed by staff earlier this year made the old 36” chlorine contact piping system obsolete. Rather than abandon the 36” piping in place, staff learned how to disconnect the piping and moved it to the Milagra Site. Staff video taped the process for disconnecting the piping and has already shared the process with another District. The Milagra site has sufficient ground elevation differences to install most of the stand pipe below ground to achieve the pressure changes needed for the 21” transmission main. A side benefit from this project is several interconnections between site piping that would allow staff to drain Christen Hill Tank very quickly. The ability to drain the tank will help during an emergency or during normal operations when there is a necessity to turnover the tank’s water.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$250,000	\$19,576	7.83%	\$230,424

Francisco Facility

The existing Francisco facility office building, mechanic’s shop and warehouse do not meet minimum seismic structural requirements. The offices and shop must be demolished and rebuilt, but the existing warehouse can be retrofit.

For the purpose of meeting CEQA requirements, the Francisco and San Pedro Corporation Yard projects were combined because the seismic retrofit of the Francisco Facility can’t occur without providing a location to move the mechanic’s shop and warehouse operations.

- The Draft Initial Study/Mitigated Negative Declaration was prepared for the combined project and reviewed by the City of Pacifica and District staff. The City has been involved in the process, even though the District is the lead agency, because the City Planning Commission will have oversight of the projects’ buildings.
- Staff is currently incorporating comments made by the City's Planning Department and City's legal counsel into the draft CEQA documents before starting the circulation and public review process.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$590,000	\$0	0%	\$590,000



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San Pedro Corporation Yard Improvements

Staff is reconstructing the wall adjacent to the access roadway with temporary concrete block construction. The large concrete blocks are very similar to children's LEGO game pieces in that they can be stacked to form walls and then removed as necessary. The fence on the top of the wall leaned over towards the yard area during the last large storm and will be repaired with the temporary concrete block construction.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$135,000	\$25,157	18.64%	\$109,843



LEGO-like blocks at Filter Plant

Gypsy Hill and Royce Tank Repairs and Site Improvements –

- The Contractor, Spiess Construction, completed their warranty work coating repairs to the new Gypsy and New Royce Tanks. The tanks have now passed all required testing and are back on-line.
- Staff worked very hard to finish all site work in advance of the New Royce Tank Dedication monument held on October 16, 2009.



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GENERAL PROJECTS

PARTNERSHIP PROJECTS

Recycled Water Project

- The bidding of the project is on hold while discussions proceed regarding San Francisco's plans for the Sharp Park Golf Course. Resolution is expected in early March 2010.
- Staff is continuing their efforts to complete the State Revolving Fund Loan (SRF) and ARRA application process.
- Project plans and technical specifications are complete and ready for bidding, however, the bid documents will need to be modified to meet State Revolving Fund Loan (SRF) and ARRA requirements once the application process is complete.

This project, to construct a pump station, three miles of distribution system and a 400,000 gallon tank is designed to replace potable water uses with recycled water. The project is estimated to save nearly 50 million gallons of potable water each year.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$130,000	\$42,305	32.54%	\$87,695

Devil's Slide Tunnel Waterline Project

The Devil's Slide Tunnel Project requires water for the tunnel fire suppression system, fire hydrants, Caltrans' operations and maintenance building, drinking fountains, bathrooms and landscaping. To serve these needs the District will construct nearly 4.5 miles of 12" Ductile Iron Pipe looped water distribution system for Caltrans. Caltrans is paying all costs for this project. So far:

- Piping has already been constructed and has passed test requirements for the section within the southbound tunnel bridge.
- Piping from the valley below the bridge to the south abutment of the bridge is also complete.



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- The project IS/MND for the East and West Alignments was prepared and has completed the review period without public comment. The Board of Directors adopted the Initial Study/Mitigated Negative Declaration for the NCCWD Water Transmission Pipeline Project and authorized filing the Notice of Determination at their December 16, 2009 Board Meeting.
- Design work for the remaining pipeline within Shamrock Ranch and along Highway 1 is also underway.

Sample Stations

Staff is in the process of installing the last of the fourteen sample stations needed for the water quality sampling of the District's distribution system. The stations are being constructed at strategic locations throughout the District to develop a true representative sample of the water quality at any given time. The stations replace water sampling from private hose bibs.

Main Pump Station

Follow-up: Electrical Panel A and the pump were repaired after winter damages.

