



North Coast County Water District

CIP & BOND PROJECTS

STATUS REPORT AUGUST 13, 2008

Main Pump Station Generator

- Acquisition of the generator is underway. The supplier, Peterson Power Systems, Inc., reports that the new generator is scheduled to ship from the factory in mid-October (ahead of the required December 16th delivery date).
- Construction of the generator's concrete pad is complete along with the installation of conduits needed to connect the generator to the Main Pump Station building.
- The station's electrical main panel and breakers are being replaced ahead of the generator installation. Manufacture of the new electrical panel will be completed by the end of August.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$225,000	\$0	0%	\$0

Main Pump Station Booster Pump

The booster pump is designed to provide water to the Crystal Springs Apartment Complex, served by the District, in the event the 3-mile main transmission pipe is damaged or is being repaired. The pumps have been ordered and should arrive in mid-September.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$50,000	\$0	0%	\$0

Alternate Water Source Acquisition Project

Staff is searching for alternate sources of water to resolve the District's concern about the likelihood of a major earthquake severing the District's main transmission piping atop the San Andreas Fault. One possible source is the Devil's Slide Tunnel being constructed by Caltrans. Work on the tunnel will progress to the point that it will be within the District's sphere of influence within



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the next two to three months. Once there, staff will investigate the flow volumes and water quality.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$85,000	\$0	0%	\$0



Pictured Above: Construction at Reina Del Mar.

Reina Del Mar/Vallemar Pipeline Replacement Project

Reina Del Mar is a multi-phase multi-year project to improve flow characteristics, access to storage and eliminate the low pressure zone in the Vallemar Valley. Phases I through IV are complete.

- Phase V – Constructs a new 12” pipeline on Reina Del Mar between Bonita and Angelita: the pipeline is installed and is currently being tested.
- Phase VI – Constructs a temporary regulator at the Bonita/Reina Del Mar intersection: this work is complete. The completed pipeline allows the existing piping north and west of the Amapola regulator to be connected to the high pressure zone.
- Phase VII - Phase V – Constructs a new 12” pipeline on Reina Del Mar between the school and Winona:



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- All utilities within this construction zone have been located.
- Work starts August 11th with the trenching and installation of the new 12” piping.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$210,000	\$72,348	34.4%	\$137,165



Pictured Left: Temporary regulator at Reina Del Mar.

Oviedo Tank Regulator Station

The removal of the Oviedo Tank requires the installation of a regulator station that allows water to bypass the tank and provide water to the downstream pressure zone it once served. Staff devised a plan that would save the District nearly \$35,000. Since the District also needs a temporary regulator station to serve as part of the Phase III improvements for the Reina Del Mar Pipeline Project, staff will use the Oviedo Station on Reina Del Mar and then move it to serve the Oviedo site after the Phase III Reina Del Mar Station is no longer needed (November 2009).

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$45,000	\$18,626.92	41.4%	\$0



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21" Transmission Main – Jump Nodule

More than a mile of the District's essential transmission main is located directly above the San Andreas Fault in the San Francisco Public Utilities Commission watershed area along the west side of Skyline Blvd. south of San Bruno Avenue. Staff developed a "jump nodule" to connect to the transmission main that will allow staff to quickly attach temporary flexible piping above ground to "jump" sections of the transmission piping damage during an earthquake. Environmental approval is needed to install the nodules. Staff to obtain approval after work on projects currently under construction has been completed.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$75,000	\$0	0%	\$0

Francisco Facility Improvements

Staff is obtaining proposals for the necessary environmental documentation for construction and temporary relocation of the Francisco offices to trailers, temporary relocation of the warehouse contents and the warehouse's seismic retrofit, and the demolition of the existing office building and the shop.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$490,000	\$0	0%	\$0

ANNUAL PROGRAMS

Reservoir Site Paving

- Staff is working with Bragato Paving, Inc. to pave around the Vallemar Tank. Currently, the site drains towards the tank. The new paving will direct water away from the tank and improve maintenance for the area immediately surrounding the tank.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$60,000	\$0	0%	\$0



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Pictured Left: Replaced fence at Filter Plant

Reservoir Fence Maintenance

- Staff oversaw the replacement of the chain link fencing and a new access gate at the San Pedro Corporation Yard.
- Staff also oversaw the raising of the west vehicle entrance gate at the Royce Tank site ahead of the paving of the entrance to the tank.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$50,000	\$2,758	5.5%	\$47,244

Annual Pipeline Project

This annual project will get underway in March of 2009.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$200,000	\$0	0%	\$0



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Easement Clearing.
 Pictured Left: Bob Lange, painting
 blow off assembly lid in easement.

Easement Protection

This program is part of the District’s Emergency Preparedness Program. Easement Clearing/Pipe Locating - A large portion of the District’s distribution pipeline is located in open space away from roadways. Pipelines within open areas can be hard to locate during an emergency because vegetation (grasses, shrubs and trees) can obscure items that can normally be seen in streets such as meters, valves and blow-offs. The program locates pipelines, marks them, trims vegetation over pipelines to maintain emergency access and inspects the pipeline alignments for leaks.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$65,000	\$4,855	7.5%	\$60,146



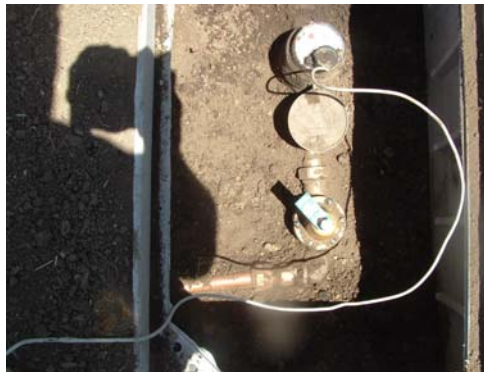
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Meter Replacement Program

This program installs and/or updates meters and meter clocks (recording / reporting devices mounted on the top of the meters) in areas that would best improve customer service and the meter reading process.

Work on meters and installing house pressure regulators in the Vallemar area is nearly complete. This work is being done in advance of Reina Del Mar Pipeline Project to eliminate the low pressure zone and improve fire flows in the area.



Example of house regulator installation for the Reina Del Mar Piping Replacement Project.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$0	0%	\$0

Fire Hydrant Replacement Program

Work to replace damaged hydrants and those in high visibility areas will restart as soon as work on the Reina Del Mar Pipeline Project is complete.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$65,000	\$0	0%	\$0



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Regulator Upgrades

- Work on the Palmetto Regulator Station north of McDonalds is progressing. Delivery of a new vault lid is expected in mid-August.
- Staff is currently designing a replacement and relocation of the regulator station at the corner of Linda Mar and Cabrillo Highway 1 (at the Valero Fuel Station). The actual station will move east to a point in the right-of-way at the SamTrans Bus Station. The existing site is immediately adjacent to the Valero fuel pumps and difficult to access.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$745	0.8%	\$99,246

Vehicles

- In July the District awarded the purchase of a 2.5 cubic yard capacity John Deere front-end loader and a 20 metric-ton capacity John Deere excavator through a lease-to-own program agreement. The lease-to-own program saves the District about \$2,000 per month over renting the equipment. The front-end loader arrived July 30 and is being used on the Reina Del Mar project. The excavator is scheduled for delivery in mid-August.
- Staff purchased a refurbished military duce-and-half flatbed truck. Existing vehicles were being overloaded with equipment and materials needed at the various District construction sites. The purchase price and delivery cost for the flatbed is \$16,000.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$160,000	\$0	0%	\$0

PARTNERSHIP PROJECTS

Recycled Water Project

This project construct's a pump station, three-mile long distribution system and a 400,000 gallon tank. Project design is proceeding as planned.



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- The team is in the process of obtaining permits from several agencies including the Coastal Commission, the Department of Fish and Wildlife and Caltrans.
- Staff is currently preparing construction and permanent easement agreements for those sections of the distribution system outside the city and state right-of-ways.
- Staff is working with the San Francisco Public Utilities Commission (SFPUC) on the 3rd Amendment to the 2nd MOU for the preparation of an Engineering Study needed to operate a Recycled Water System.
- Staff is also working with the SFPUC on final acceptance of the overall project agreement.
- Construction permitting and the overall agreement between San Francisco Public Utilities Commission (SFPUC) and the District are along the critical path. Both items are holding up grants and low cost funding sources from being implemented.

Non-State Revolving Fund Work

FY 2007/08 Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$16,000	\$0	0%	0

Non-State Revolving Fund Work – Legal Fees

FY 2007/08 Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$140,000	\$0	0%	0

SRF Funded Work-District’s Contribution

FY 2007/08 Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,585,000	\$500	0.1%	\$2,584,500

Devil’s Slide Tunnel Waterline Project

The Devil’s Slide Tunnel Project requires water for the tunnel fire suppression system, fire hydrants, their operation and maintenance building, drinking fountains, bathrooms and/or landscaping. To serve these needs the District will be constructing nearly 4.5 miles of 12” Ductile Iron Pipe looped water distribution system at an estimated cost of \$5.3 million for Caltrans. An agreement with Caltrans and the necessary easements agreement are on the



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Board of Director's August meeting for consideration.

FY 2007/08 Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$16,000	\$0	0%	\$16,000

I-280 Tunnel Piping Replacement Project

The City and County of San Francisco Sheriff's Office turned down the District's request to enter into an agreement to jointly replace their badly deteriorated 10" piping and the District's badly deteriorated 21" Transmission Main.

District will replace its piping in mid-2009.

FY 2007/08 Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$220,000	\$0	0%	\$220,000

Tree Tops Apartments Pipeline Relocation Project

Staff is working on an agreement with the owners of the Tree Tops Apartment Complex (southwest corner of Skyline Blvd. and Sharp Park Rd.) to relocate the District's existing 21" transmission main easement on their property.

Construction is tentatively scheduled for September 2008.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$0	0%	\$100,000

BOND FUNDED PROJECTS

Christen Hill Tank

Staff developed a conceptual plan in response to the poor condition of the Christen Hill Tank and its close proximity to the San Andreas Fault. The plan removes the existing 3.5 million gallon (MG) tank and replaces it with a new seismically resistant 1.5 MG tank. Pressure requirements exacerbated by the newly constructed homes surrounding the tank require that the base elevation of the tank be raised by approximately thirty (30') feet. The project would also construct a new 2.5 MG tank on the west side of the San Andreas Fault along with nearly 6,000' of new transmission piping required to supply both of the



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proposed tanks. Public outreach and the environmental CEQA process will begin within the next few months.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,400,000	\$0	0%	\$2,400,000

Royce Tank Repairs and Site Improvements -

The 3.5 MG tank and pump station improvements are on-line and in service. Staff is working towards completing the remaining site work, such as grading and lighting improvements.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$80,000	\$0	0%	\$80,000

Gypsy Hill Tank Repairs and Site Improvements -

The 3.5 MG tank is on-line and in service. Staff is now constructing a building for the radio, SCADA controls and sensor equipment. Later this year staff will work to complete the remaining site work, such as grading and lighting improvements.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$150,000	\$0	0%	\$150,000

Nelson Tank Replacement

Staff intends to remove this badly deteriorated tank and replace it with a larger tank at a better location as part of the Christen Hill Tank Replacement Project.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$240,000	\$0	0%	\$240,000

Park Pacifica Tank Repairs and Site Improvements

The tank is out-of-service and staff is scouring the tank interior roof and walls to remove rust and failed coating material. Once the scouring is complete and the tank has been emptied the structural engineer will analyze the condition of the tank and determine if it can be seismically retrofit. The results of the study



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will help determine the approach the District takes in either repairing the tank or replacing it.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$1,100,000	\$12,113	1.1%	\$1,087,887

San Pedro Valley Corporation Yard Improvements

This project would construct a warehouse, permanent materials storage, pipe rack, and a Vac Con tank holding area. RBF Consultants is in the process of preparing the environmental CEQA documents needed for the approval and subsequent construction of the proposed site improvements.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$465,000	\$11,453	2.5%	\$453,547