



CIP & BOND PROJECTS

STATUS REPORT FEBRUARY 18, 2009

Main Pump Station Generator

- Peterson Power Systems, Inc., (supplier) is scheduled to start field testing the newly installed emergency generator in mid-February.
- Construction of a wooden shed roof and rear wall protecting the new generator will start in March 2009.
- Installation of the station's new electrical main panel and breakers is complete. It replaces the existing panel/breaker assembly that could not be shut off. The new equipment improves operating staff's safety and includes the necessary transfer switches for the new emergency generator. The new panel/breakers were constructed on the east side of the station away from the existing panel (on the west side of the station) to ensure that the pumps would remain operational during construction. New overhead power connections were required to attach the new panel/breakers to the power grid. PG&E successfully completed their transfer and powered the new panel/breaker assembly without incident.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$187,251	\$91,600	49%	\$95,651

Main Pump Station Booster Pump

Completion of the Main Pump Station electrical panel/breakers and the emergency generator allowed staff to complete the piping installation for the new booster pump assembly. The connection of the assembly's electrical system is scheduled for March 2009. The booster pump is designed to provide water to the Crystal Springs Terrace Apartment Complex, served by the District, in the event the 3-mile main transmission pipe is damaged or needs a scheduled repair.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$50,000	\$50,242	100.1%	(\$242)



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Staff finished piping to booster pump at Main Pump Station



Hillside behind Main Pump Station cleared of poison oak.

Alternate Water Source Acquisition Project

- San Pedro Creek Water - Staff is completing design of a filter/chlorination system for the rehabilitation of the District's existing San Pedro Filter Plant. The water will be used at the San Pedro Corporation Yard and at the County Park to offset existing potable water use. Staff has also cleared the existing equipment within the plant to make way for the new equipment.
- Devil's Slide Tunnel Water - While this source may be less plentiful than initially thought, it is possible that development costs may be low enough to still make it a viable source. This month staff began working with the State regarding the requirements for adding groundwater obtained from the tunnel into the potable water system.

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



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Below: Staff has cleared the existing equipment from the Filter Plant Building to make way for the new equipment.

Right: Pressure vessel set outside; to be reused elsewhere in the distribution system.



Desalinated Water Source

- This is a new reporting item specific to the possible acquisition of water from a desalination source and is a result of direction provided by the Finance Committee during the Mid-year Budget Process. In addition to noting actions taken during the reporting period it will also track staff and consultant expenditures made in support of those actions. The tracking of staff expenditures start as of January 1, 2009.
- Staff obtained and read numerous reports, CEQA documents and the permits of working and proposed desalination facilities along the California Coast to learn from their experiences and look for common conditions.
- Staff has met with several engineering groups specializing in desalination.



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- Staff obtained a proposal from Kennedy/Jenks (K/J) to provide more information about energy demands, space requirements, ocean water studies, and environmental issues specific to this District. K/J is providing expert advice for many desalination projects in California and Florida.
- MWH Americas, Inc. invited Board Members and staff to tour the joint Santa Clara, EBMUD & SFPUC pilot desalination plant in Pittsburg.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$5,000 Non- Staff	\$0	0%	\$5,000
\$10,000 Non-staff	\$0	0%	\$10,000

Alternate Energy Sources

- This is a new reporting item specific to the possible acquisition of energy from sources such as a solar, wind, hydroelectric and wave energy. The specific reporting of work on these items is a result of direction provided by the Finance Committee during the Mid-year Budget Process. In addition to noting actions taken during the reporting period it will also track staff and consultant expenditures made in support of those actions. The tracking of staff expenditures start as of January 1, 2009.
 - The high energy cost of pumping water throughout the District prompted staff to investigate methods of lowering its electrical costs and dependence on traditional energy sources. Staff looked at conservation and the possibility of generating the District's own power through renewable sources. Staff has since determined that the District has the right to generate and sell energy to the electrical grid. Staff is looking at sources such as a solar (mounted on buildings and at tank sites), wind (wind barrels), hydroelectric (in pipe systems to reduce pressures by power regeneration) and wave energy (about 3 to 10 miles off the coast). Discussions with energy specialists and consultants have been in conceptual terms. Much more investigation of systems, costs, returns and a consideration of intangibles must be completed before a viable project can be brought before the Board of Directors for action. A growing political will on the state and national level to promote these technologies suggest that this is a great time for the District to take initial
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steps toward studying these technologies for their potential and limitations.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$5,000 Non- Staff	\$0	0%	\$5,000
\$10,000 Non-staff	\$0	0%	\$10,000

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 damaged during an earthquake. Environmental approval is needed to install the nodules. Staff will 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%	\$75,000

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, additionally:

- Phase V – Construction of the new 12” pipeline on Reina Del Mar between Bonita and Angelita is complete.
- Phase VI – Construction of the temporary regulator at the Bonita/Reina Del Mar intersection is complete. The completed pipeline allows the existing piping north and west of the Amapola regulator to be connected to the high pressure zone. The temporary regulator will be removed once the side streets along Reina Del Mar can be connected to the new water piping and the existing low pressure piping can be taken out of service.



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- Phase VII – Construction of the new 12” pipeline on Reina Del Mar between the school and Winona is complete
- Phase VIII - Construction of the new 12” pipeline on Reina Del Mar between Winona and the temporary regulator at Bonita/Reina Del Mar is complete.
- Phase IX - Construction of the Nataqua Ave. Pipeline Replacement Project is complete.
- Phase X – Construction of a new 6” pipeline on Ramona north of Reina Del Mar is complete.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$465,000	\$464,399	99.9%	\$601

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 the tank 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 VI 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 VI Reina Del Mar Station is no longer needed (November 2009).

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$20,000	\$19,181	95.9%	\$819

Francisco Facility Improvements

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 warehouse can be retrofit. Staff is examining temporary and future solutions to the space requirements resulting from the demolition and retrofit of these structures. Possible solutions have included:



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- The temporary relocation of the Francisco offices to on-site trailers;
- Leasing office spaces within the District;
- Constructing temporary warehouse structures at the Francisco facility;
- Temporarily relocating the warehouse and shop to new satellite facilities to be constructed at the San Pedro Corporation Yard Facility;
- Leasing warehouse spaces.

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

ANNUAL PROGRAMS

Reservoir Site Paving

- Paving around the Vallemar Tank is complete.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$60,000	\$50,436	84.1%	\$9,564

Reservoir Fence Maintenance

- Replacement of the worn fence gate at the Vallemar Tank is complete.
- 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
\$20,000	\$12,195	61%	\$7,805

Annual Pipeline Project

During the Mid-year Budget Review process, funds for this project will be transferred to fund the completed Nataqua Ave. Pipeline Replacement Project and the current Ramona Pipeline Replacement Project as described above in the Reina Del Mar/Vallemar Pipeline Replacement Project status report.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$20,000	\$19,384	96.9%	\$616



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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 and trims vegetation over pipelines to maintain emergency access and inspects the pipeline alignments for leaks. Projects include the following:

- Pre-winter work to clear access to the easements is complete.
- Staff obtained permits and trimmed trees at the Oviedo and Sheila Tank sites that were threatening the tanks.
- Staff obtained permission and cleared the easements behind Oddstad School. Staff also cleared the Nelson Tank site of overgrowth and debris.
- Staff is currently working with the GGNRA to improve easement access through their properties.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$65,000	\$39,502	60.8%	\$25,498

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 that eliminates the low pressure zone and improves fire flows in the area.

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



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Fire Hydrant Replacement Program

Staff purchased the initial set of hydrants for replacement work to start in late February in the Fairmont Subdivision.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$65,000	\$13,031	20.1%	\$51,969

Regulator Upgrades

- Staff completed its work on the Palmetto Regulator Station north of McDonalds.
- The design of the replacement regulator station at the corner of Linda Mar and Cabrillo Highway 1 (at the Valero Fuel Station) is complete. It will move away from the station's fuel pumps to a new location in the right-of-way at the SamTrans Bus Station.
- Staff is also designing the replacement regulator in front of the Fire Station on Linda Mar Blvd.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$46,422	46.4%	\$53,578

Vehicles

- In November, staff purchased a refurbished military seven cubic-yard capacity dump truck. The purchase price and delivery cost for the flatbed is \$26,000 representing a \$130,000 savings over a new vehicle.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$160,000	\$145,181	90.7%	\$14,819

PARTNERSHIP PROJECTS

Recycled Water Project

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



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- In December 2008 the overall agreement between the District and the San Francisco Public Utilities Commission (SFPUC) to construct the Pacifica Recycled Water Project was adopted by both agencies.
- The State’s budget woes and delays with the adoption of the overall agreement resulted in the freezing and/or loss of the project grant funding. Staff is working to obtain new funding sources such as the Federal Stimulus Package currently being considered by the Senate and House.
- The California Coastal Commission (CCC) has approved a waiver for the construction of the project in CCC jurisdictional areas (Calera Creek Treatment Plant and Moose Lodge).
- The Department of Fish and Wildlife is currently completing its Biological Opinion of the project. Staff hopes to obtain the completed document in March 2009.

Recycled Water Project: Continued

Non-State Revolving Fund Work

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$16,000	\$0	0%	\$16,000

Non-State Revolving Fund Work – Legal Fees

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$140,000	\$10,500	7.5%	\$129,500

SRF Funded Work - District’s Contribution

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,585,000	\$263,613	10.2%	\$2,321,387

Devil’s Slide Tunnel Waterline Project

The Devil’s Slide Tunnel Project requires water for the tunnel fire suppression system, fire hydrants, Caltrans’ operation 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.



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- 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.
- CEQA documentation/permits for the Shamrock Ranch Piping portion of the project are underway.
- Design work for the remaining pipeline within Shamrock Ranch and along Highway 1 is also underway.

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 offer to enter into an agreement to jointly replace their badly deteriorated 10" piping and the District's badly deteriorated 21" Transmission Main. Staff has already purchased the tunnel piping and intends to start construction in mid-2009.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$220,000	\$51,838	23.6%	\$168,162

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 was tentatively scheduled for September 2008 but is now scheduled for April 2009 to meet Developer funding needs.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$3,615	3.6%	\$96,385



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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 would remove the existing 3.5 million gallon (MG) tank and replace it with a new seismically resistant 1.5 MG tank. Water 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 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	\$370	0.02%	\$2,399,630

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, electrical and lighting improvements.

- Paving was installed around the new tank to drain water away from its base.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$80,000	\$53,134	66.4%	\$26,866

Gypsy Hill Tank Repairs and Site Improvements-

- The 3.5 MG tank is on-line and in service. Staff completed its construction of a building for the radio, SCADA controls and sensor equipment.
- Staff also completed the installation of the conduit/conductors for the radio, SCADA controls and sensor equipment to support Gypsy Hill Tank operations.



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- Staff completed the temporary irrigation system for the new Cypress trees. The trees were planted along the north and west sides of the site to capture moisture, provide erosion control and screen the site for surrounding residents.
- Paving along the south side of the site is scheduled for late February and will provide positive drainage away from the new tank and SCADA/radio building. The limits of the new paving were established to prevent damage caused by the construction of the Recycled Water piping and tank planned for the west and northern sides of the site.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$150,000	\$117,452	78.3%	\$32,548

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

- Staff completed its review of the structural engineering analysis for the tank. The report identified that the tank's retrofit would be the most cost effective means for responding to its repair/replacement. Staff will start the design process in late March 2009.
- Staff completed the scouring and disinfection of the tank prior to putting it back in service in September. The scouring removed rust and failed coating material built up inside the tank.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$1,100,000	\$32,021	2.9%	\$1,067,979

San Pedro Valley Corporation Yard Improvements

This project would construct a warehouse, permanent materials storage, pipe rack, and a Vac Con tank holding area. Staff is reviewing the draft Initial



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Study/Mitigated Negative Declaration prepared by RBF Consultants. The environmental CEQA documents are needed for the approval and subsequent construction of the proposed site improvements.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$465,000	\$71,871	15.5%	\$393,129

WATER CONSERVATION PROGRAM

Public Outreach

- Staff is currently preparing the next edition of The Reservoir which will highlight the District's conservation efforts.
- The Conservation/Outreach Committee met in January 2009 to discuss current conservation measures, the SFPUC Water Storage Report and the status of pre-drought planning. While staff has studied past drought programs, obtained the Association of California Water Agencies (ACWA) drought kit and participated in BAWSCA workshops, the SFPUC will not decide on declaring a drought until late April 2009. Recent rains and snowfall in the Hetch Hetchy Watershed have been promising, but it is still too early to determine if adequate storage exists.
- In September, the District's Fog Fest parade entry featured the new flatbed truck with plush toy water droplets that were handed out to the crowd. The event was a great way to reconnect with our community, customers and friends.
- Staff operated a water conservation booth during the Fog Fest to promote water conservation tips and devices. Staff also suggested that visitors to the booth check out the District's website for more tips and messages.
- Staff attended water conservation conferences, seminars, BAWSCA meetings and the Association of California Water Agencies (ACWA) Fall Conference to learn about local and statewide water conservation programs and how they might be applied to the District.



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Green Business Certification Program

Staff is working with the City of Pacifica to implement a Green Business Certification Program. Once the program is up and running, the District will audit interested businesses and provide a list of water conservation measures to be installed or made. A business receives the green certification once the measures are implemented.

EMERGENCY REPAIRS



Left: Harvey Way pipeline replacement is nearing completion on the frontage road portion adjacent to Coast Highway 1.

Below: Miller Avenue water main repair on February 9 required cautious probing and set up of a sump pump for access to the main.





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