



## North Coast County Water District

# CIP & BOND PROJECTS

## STATUS REPORT APRIL 18, 2007

### San Pedro Creek WTP Feasibility Study

Staff is working to establish an alternate water source with greater potential than the San Pedro Creek source.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$180,000	\$1,632	0.9%	\$178,368

### Main Pump Station Standby Generator

Design of the generator foundation and housing is underway. A presentation is planned for early May with the San Francisco Public Utilities Commission (SFPUC) staff. SFPUC approval is required as they are the owner of the land on which staff would like to locate the proposed generator.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$120,000	\$0	0%	\$120,000

### Main Pump Station Pump A Rebuild Project

All work is complete and has been accepted by the Board of Directors.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$69,660	\$69,661	100%	(\$1)

### Main Pump Station Pump D Rebuild Project

All work is complete and the project is being brought to the Board of Directors in April for final project acceptance.

<u>Main Pump Station Pump D Completed</u>
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Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$77,482	77.5%	\$22,518



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### Replace Transmission Line Surge Suppressor / Discharge Drainage

Staff successfully completed its work to install the transmission line surge protector. It has been tested on several occasions and it works very well. Work on the discharge drainage has been put on hold as it appears that the installation of the surge protector may have solved the District's discharge concerns.

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

### Reservoir Site Paving Project (Annual)

- Construction of proposed drainage and paving improvements at the Sharp Park Tank site is planned for May 2007.
- Construction of paving improvements at the Fassler Tank site is planned for May 2007.
- Staff completed the concrete pad at the Fassler Tank site for the new electrical/radio/tank sensor housing. The new fiberglass housing replaces the existing badly deteriorated wooden housing that had allowed unauthorized access to the tank roof.
- Site paving of the Hickey Tank and Tapis Tank sites is complete.



Fassler Tank Site  
 New concrete pad for new fiberglass housing

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$60,000	\$25,939	43.2%	\$34,061



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## Reservoir Fence Maintenance (Annual)

Fencing improvements are planned for May 2007 at the Sharp Park and Fassler Tank sites.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$50,000	\$5,736	11.5%	\$44,264

## Intertie Westborough District / Skyline Tanks Removal

- Phase II – The installation of intertie piping between Westborough Water District and NCCWD is complete. The intertie performed very well during the four-week period it was required to bypass water around the 21” transmission piping leak at Moreland Drive.
- Phase III – Contractor completed the installation of the pre-cast concrete wall. Staff is obtaining bids to install curb, driveway and walkway along Sharp Park Road. Staff is also working with a landscaper to install landscaping along the outside of the new fence.

(Right) Skyline Site Fence  
Looking east along fence alignment



(Left) View from inside  
Skyline Site



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- Phase IV – Staff is obtaining bids to grade and pave the site. The asphalt surface will help protect the piping to be stored there for emergency repairs needed for breaks along the 21” main transmission line.
- All work associated with the replacement of the transmission pipe crossing of Sharp Park is complete.
- The potential relocation of the 21” main transmission line at the Tree Tops Apartment Complex (southwest corner of Skyline Blvd. and Sharp Park Rd.) is still on hold pending the property owners’ desire to proceed with the project. The owners plan to remove the existing apartment complex and construct new buildings. Staff designed a pipeline that would relocate the existing piping that runs through the complex property to one that is located along the north and east edges of their property.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$200,000	\$138,015	69.0%	\$61,985

### 21” Transmission Main Blow-Offs

This project is on hold until the next fiscal year.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$35,000	\$831	2.4%	\$34,169

### Pacifica Recycled Water Project

The project was split into three phases, Phase I – Pump Station, Phase II – Piping and Phase III – Water Tank. Phases I and II were out to bid with a bid opening date of April 3, 2007. The two projects being advertised were cancelled until new environmental documentation can be completed on two new potential tank sites.

Geotechnical problems at the initial tank site caused the proposed tank to move to a location within the Archery Range. Opposition to the alternate tank location combined with the District’s inability to obtain a lease from the San Francisco Recreation and Parks Department forced staff to look for new potential sites. Two potential sites have been found that include the Calera Creek Water Treatment Plant and the District’s Gypsy Hill Tank site.



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The opposition to the tank placement in the Archery Range aided the District’s appeal to the State Water Resources Control Board (funding agent for both the State Revolving Funds and the Proposition 50 Grants) to extend the mandatory project deadlines. The Board granted an extension that allows the District to obtain environmental approval for a new tank site by September 2007.

The overall agreement between San Francisco Public Utilities Commission (SFPUC) and the District that would construct the project is nearly complete. Final approval is pending the outcome of the environmental approval for the new tank site.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$405,000	\$250,577	61.9%	\$154,423

### Phase III Sampling Station Installations

No new stations have been installed since the last report. A total of nine sample stations have been installed so far this year. There are fourteen remaining stations that need to be installed and staff intends to install them by the end of this calendar year.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$15,000	\$8,557	57.0%	\$6,443

### Hydrant Replacement Program

Staff continues to install hydrants with a concentration on damaged hydrants and high visibility areas.



New hydrant installation

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$35,000	\$37,789	108%	(\$2,789)



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### Portable Hydrant Hose / System

Staff will purchase hose and related equipment in May 2007.

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

### Regulator Upgrades

The regulator vaults at the Rockaway Regulator Station are installed. Staff upgraded the regulator at Sheila Tank including the installation of a retaining wall to improve access to the regulator.



Sheila Tank  
Regulator Upgrades

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$50,000	\$32,060	64.1%	\$17,940



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### Touch Read Meters

A total of 1,236 meters and meter clocks (recording/reporting devices mounted on the top of the meters) have been installed this fiscal year. Work on this project was performed by staff. The project has focused on installing or updating meters and meter clocks in areas that would best speed along the meter reading process.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$150,000	\$146,694	97.8%	\$3,306

### Vehicles

Staff is preparing a bid package for a small excavator to replace the 1959 Massey Ferguson Workbull 202. Research to determine the proper replacement equipment included the rental of several units for work on various projects.

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

### SCADA System Upgrades

Staff is expecting the results of a SCADA radio survey conducted in March. It will help determine how to address several concerns with equipment and radio system connections between SCADA controls and the District Headquarters. The survey results will also establish the scope of work to upgrade the SCADA System.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$20,000	\$6,762	33.8%	\$13,238

### Office Improvements / Emergency Operating Center Building

Francisco Warehouse seismic retrofit project plans and specifications are at the 90% complete stage. The project will likely be advertised for bids in June 2007.



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The poor condition of the Francisco District Headquarters requires that the office and shop buildings be demolished. Infrastructure demands, such as the necessary replacement of the Christen Hill Tank, have placed the proposed new headquarters building on hold. Staff is meeting with temporary office trailers manufacturers/suppliers. The office trailers would relocate District Headquarters to the southeast corner of the Francisco Corporation Yard.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$600,000	\$68,217	11.4%	\$531,783

### Easement Protection (Annual Program)

This project is part of the District Emergency Preparedness Program. A large portion of the District 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 and 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
\$75,000	\$71,827	95.8%	\$3,173

## **BOND PROJECTS**

### Gypsy Hill / Royce Repairs & Site Improvements

Erection of the tank is nearly complete. Painters have moved onto the interior for coating and the exterior for paint.

Staff is nearly complete with connecting existing waterlines to the new inlet and outlet tank connections on the Gypsy Hill Tank. They are also working on constructing tank drain and overflow connections with the existing storm drain system. Site grading around the tank will occur within the next few weeks to direct storm water away from the new tank. These improvements are being made ahead of tank painting and coating to reduce the possibility of damaging the new surfaces. During May, staff will be installing electrical conduit

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between the tank and the new electrical building for radio/SCADA and tank monitoring/control equipment.

(Left) Gypsy Hill Tank: Safety Ladder + Roof Access Platform



(Right) Gypsy Hill Tank Roof Access Platform with Roof Hatch + Roof Crane



(Left) Gypsy Hill Tank Overflow Drain



(Right) Gypsy Hill Tank New Inflow Piping Through Existing Vault



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Gypsy Hill			
Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,000,000	\$1,085,174	54.3%	\$914,826

Construction of the Royce tank is well underway with the Contractor, Spiess Construction Co., nearly finished with the second ring of the four-ring-high tank.



Progress on Royce Tank

Royce			
Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,000,000	\$939,186	47.0%	\$1,060,814

San Pedro Valley Corporation Yard Improvements / Wash Rack  
 This project is currently on hold in favor of more critical project.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$170,000	\$18,345	10.8%	\$151,655



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### UNFUNDED PROJECTS

#### Christen Hill Tank

Additional information was required for an Encroachment Permit from Caltrans to perform the geotechnical investigation (three bores and two logging trenches) for the Christen Hill and Daly City Tank sites. Caltrans informed staff that the permit would be issued on April 13, 2007. Caltrans owns the property surrounding the Christen Hill and Daly City Tank sites. The geotechnical borings and log trenching are scheduled to start during the week of April 16, 2007.

Staff is also working with Kennedy/Jenks to construct an electronic model of the hydraulic conditions of the piping feeding and surrounding the Christen Hill Tank. The model will be used to determine how best to isolate pressure zones for a possible gravity feed tank and hydro-pneumatic pressure tank.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$550,000*	\$40,523	7.4%	\$509,477

\* Currently funded from Emergency Repairs account 5735-120.