

## McCarrell Canyon Storm Drain System Rancho Palos Verdes, California

### Owner:

City of Rancho Palos Verdes

### Owner Contact:

James Bell  
(310) 544-5252

### Reference:

Alan Braatvedt  
(310) 525-0684

### Key Personnel:

Stephen Mutch, P.E.  
Tony Gatoff  
William Gatoff

### Construction Cost:

\$6M

### Completion Date:

July 2009

Simplus was selected to provide construction management and inspection services for the City's McCarrell Canyon Storm Drain System. The project conveys storm water from the steep McCarrell Canyon through 3,000 feet of pipeline to the beach. The main components of the project included:

- A Large Intake Structure
- 500 feet of 54-inch CMP
- 2,300 feet of 66-inch Steel Pipe
- 300 feet Slant Drain Tunneled through Bluff to the Beach
- Outlet Structure and Beach Apron to Prevent Erosion



The work included the construction of both open trench, jack and bore tunneling, welded and non-welded Permalok steel pipe, reinforced concrete pipe (RCP), various types of catch basins, with and without filter inserts, wing-walls, inlet and outlet structures, velocity reducer rings for both steel pipe and RCP, manholes, junction structures, concrete collars, erosion control, movement monitoring devices, water quality measures, natural canyon grading, various utility relocations, surface improvement replacements, traffic control, and replanting of native riparian vegetation.

Construction management required extensive coordination with the City of Rancho Palos Verdes, City of Los Angeles, Los Angeles County, U.S. Army Corps of Engineers, California Department of Fish and Game, the Regional Water Quality Board, and the public, including Palos Verdes Bay Club HOA.

During construction, the CM team worked closely with the contractor, civil engineer and geotechnical engineers (during tunneling).

**Simplus**