

**Construction Method:**  
**Horizontal Directional Drilling**

**Project:** **Camarillo Airport Water Improvement Project**

**Location:** **Camarillo, CA**

**Date:** **2011-present**



**Job Scope:**

- ❖ Trenchless Feasibility Study
- ❖ HDD Alignment Study and Profile
- ❖ Pullback and Stress Calculations
- ❖ Geotechnical Risk Evaluation
- ❖ Cost Estimates
- ❖ Construction Schedules

**Project Description:**

Staheli Trenchless Consultants designed and evaluated the construction feasibility of the installation of a 16-inch water main pipeline for the City of Camarillo. The upgrade included 1,900 feet of pipeline installed beneath an active runway and taxiway of the Camarillo Airport, precluding a continuous open-cut option for construction. After review of the geotechnical conditions and project constraints, STC designed a horizontal directional drill to install the new water main.

Challenges for the project design included construction scheduling associated with working beneath an active runway and taxiway, and a creative pullback layout requiring lofting above the County flood control channel just north of the airport. Magnetic interference associated with the active airport also led to challenges associated with drill navigation. The project is currently in final design, with construction scheduled for 2013.



**Reference:**

Lucia McGovern, City of Camarillo (805) 388-5334.

