



QUAIL VALLEY SEWER SUB-AREA 9 PHASE 1 PROJECT

Armando Arroyo, EMWD
Senior Civil Engineer
April 23, 2014

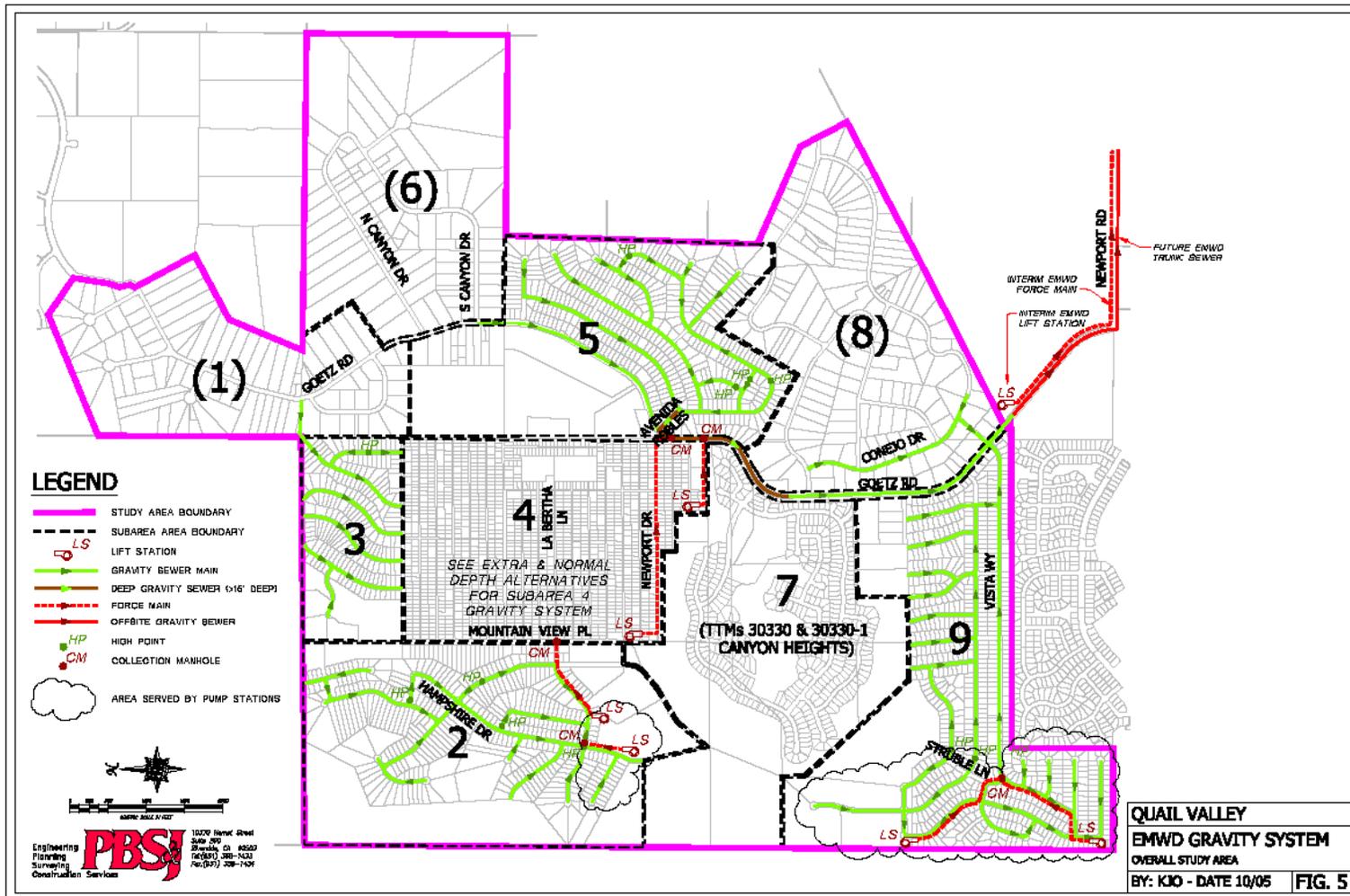
Quail Valley Sewer



Background

- Failing septic systems in Quail Valley have impacted water quality in local groundwater and in Canyon Lake Water Reservoir
- Approximately 1,535 existing units have septic tanks and 3,900 buildable lots are currently vacant
- In 2006, Riverside County established a septic tank prohibition for specific areas of Quail Valley
- The Regional Water Board also issued a septic tank moratorium in 2006 to address health concerns
- The moratorium enabled eligibility for external funding

Background (Cont.) - Sub Areas



Background (Cont.)



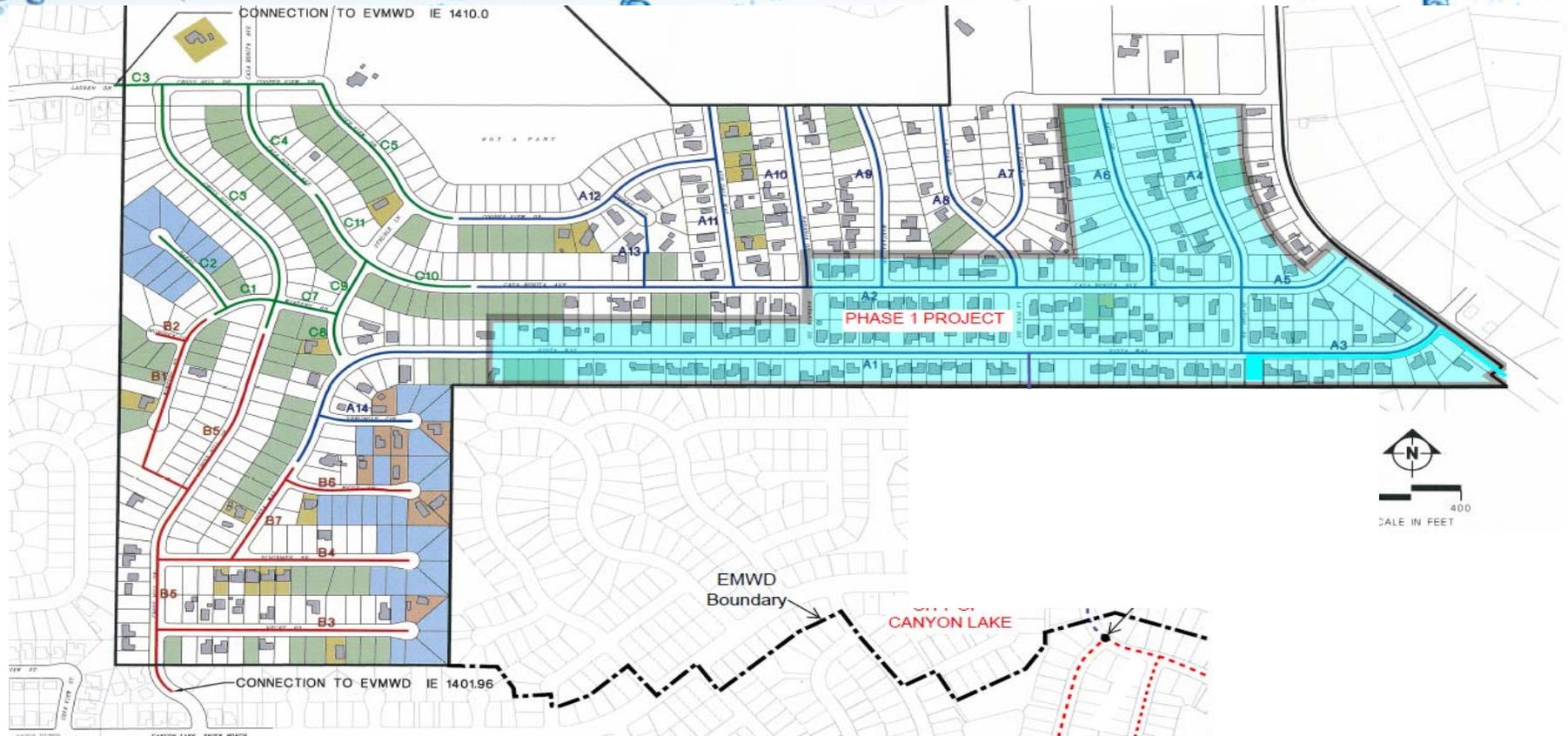
- The following cities and agencies are involved in the development of this project:
 - City of Menifee
 - City of Canyon Lake
 - Elsinore Valley Water District
 - Eastern Municipal Water District
 - Riverside County
 - California Department of Public Health
- EMWD is working with the following agencies to secure funding:
 - Santa Ana Watershed Project Authority
 - State Water Resource Control Board



Eastern Municipal Water District's Efforts

- Sewer study for the entire Quail Valley in 2005
- Engineered overall sewer system for the nine sub-areas
- Secured a grant from the State Water Resource Control Board (SWRCB) for a feasibility study for Sub-Area 9 (SA9)
- Preliminary sewer system design for SA9 in 2009
- Completed environmental documents (CEQA) for SA9
- Developed a phased approach for SA9 (three phases)
- Secured a planning grant of \$500,000 for SA9, Phase 1

Sub-Area 9 - Phase 1 Sewer System



Project Description:

Approximately 1.6 miles of 8-inch and 21-inch sewer including abandonment of septic tanks. Project area covers 149 existing homes and 66 vacant lots.

Planning Efforts for SA9 - Phase 1



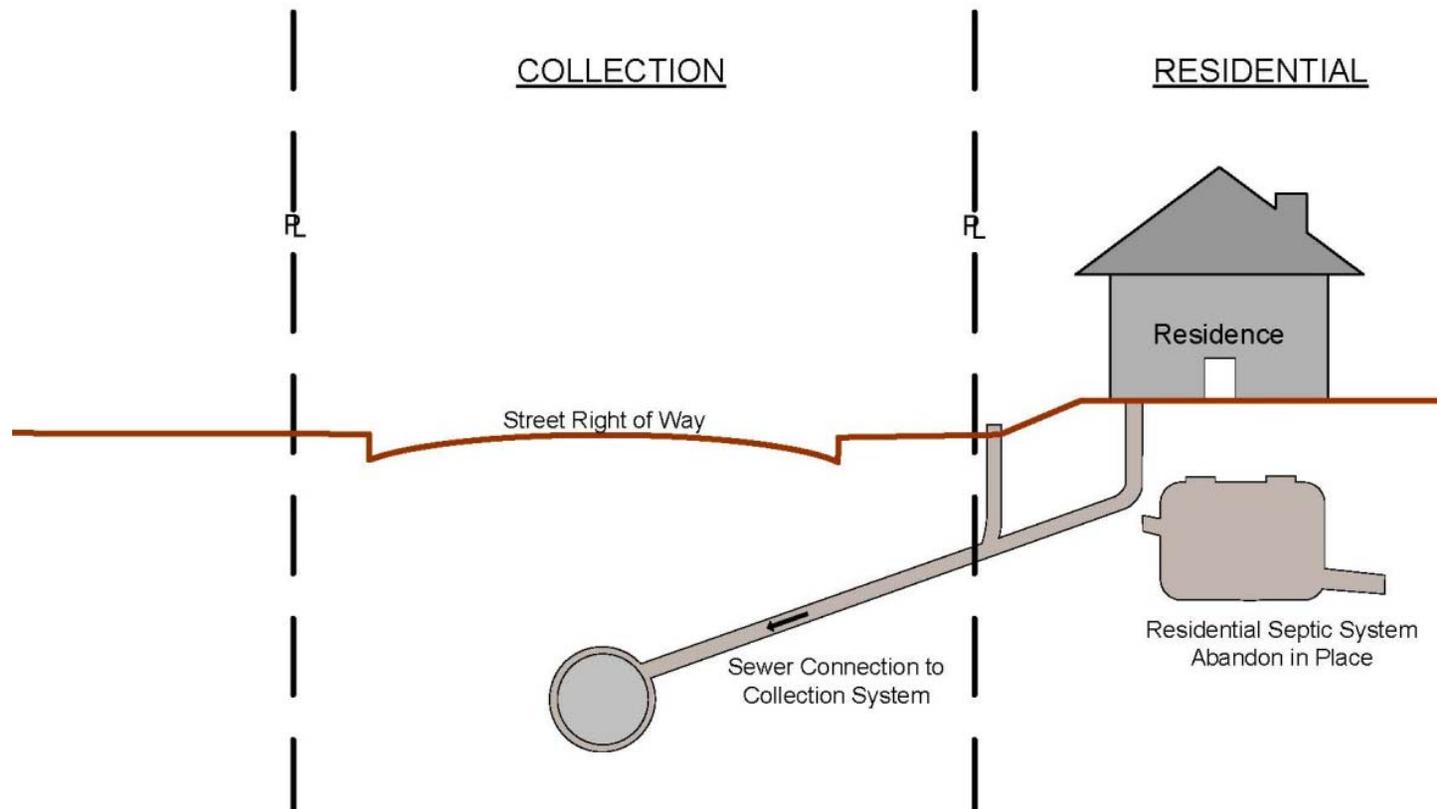
Scope of Work for the Planning Effort

- Preliminary design of a gravity sewer system
- Utility search on public streets - existing water, gas, electric lines
- Survey work and soil investigation
- Inventory of on-site septic tank and pipes
- Preliminary design of sewer lateral from the house to the sewer in the street

Planning Efforts (Cont.)



Quail Valley Sub Area 9 Phase I Sewer System



Access to Private Properties

- The purpose of requesting access is to locate septic tanks and connection point for future laterals
- EMWD has tasked Atkins consulting to perform site visits
- Atkins consulting will walk around your yard to locate the septic tank, cleanout, and connecting pipe
- Atkins consulting will not need to enter your home
- EMWD asks assistance from property owners with locating septic systems

What is expected from residents

- Agree to allow access to your property by EMWD and Atkins
- Demonstrate this by signing the Right-of-Entry form
- On the day of the visit, provide access to Atkins and EMWD by opening gates and walkways and restraining and/or housing pets (dogs)
- If possible, residents should provide information on septic tanks, and existing piping known by residents

Final Design & Construction



Next Steps

- Perform site visits to private properties
- Complete preliminary design and prepare an estimate of the cost to construct the proposed sewer
- Obtain additional funding for final design and construction from Santa Ana Watershed Project Authority (SAWPA) and SWRCB
- Proceed with the final design once the funds are obtained
- Construction of the sewer and laterals once final plans and funding is in place

Summary



- EMWD is in the process of completing the preliminary design for the Sub-Area 9, Phase 1 Area
- EMWD asks assistance from property owners to locate on-site septic systems
- Private property site visits will provide information of the septic tanks and piping at each residential lot
- This effort will result in better cost control during construction

Overall Project Status



Where are we now?

- **Sub-Area 9 Phase 1**

Preliminary Re-Design – In Process

CEQA Amendment – In Process

149 Sewer Connections – Project Cost - Approximately -\$8M

- **Sub-Area 9**

Preliminary Design – Complete 2010

Environmental – Complete 2010

268 Sewer Connections- Project Cost – Approximately-\$19M

Overall Project Status (con't)



- **Sub Area 4** - \$25 Million (Based on 2005 Study)
Conceptual Design
Environmental – None
- **Total Project Cost** – Approximately \$70 Million (Based on 2005 Study) High cost due to topography & presence of rock
- **EMWD Cost to date** – Approximately **\$561,230**

Overall Funding Status



External Funding Awards

- \$500 K Planning Grant - Awarded by SWRCB - June 2013
- \$1.93 Million Construction Grant - Awarded by SAWPA
- Anticipate funding agreement in August 2014
- \$280 K Supplemental Environmental Project (SEP) funds available to fund on-site costs



Questions?