

Agenda Item No. 6

**Supporting Document No. 4**

Attachment B to Order No. R9-2011-0057,  
Enhanced Compliance Activity (ECA) Summary

## SANTA MARGARITA WATER DISTRICT ECA SUMMARY

Attachment B to Order No. R9-2011-0057

### Enhanced Compliance Activity: Plano Forcemain Realignment Project

Santa Margarita Water District's Capital Replacement Program has been revised to prioritize and accelerate the design and realignment of the portion of Plano Forcemain that extends easterly from the Plano Lift Station to a point of connection (to the continuation of this existing force main) that is on the east side of Tijeras Creek.

The purpose of the realignment is to provide an alternative to the Tijeras Creek crossing portion of the forcemain and thus avoid confluence with the Creek in the event of forcemain failures.

The design phase will consider two realignment alternatives:

- Alternative #1: Route the new force main southwest from the Plano Lift Station, across the Antonio Parkway Tijeras Creek Bridge, and then extend it in a northeasterly direction on the east side of an existing public park (baseball fields, skate park, and dog park), to a point of connection to the existing 24" forcemain on the eastern side of Tijeras Creek. This new alignment would add several thousand feet of length to the forcemain.
- Alternative #2: Route the new force main southwest from the Plano Lift Station, but prior to crossing the Tijeras Bridge, extend it in a southeasterly direction to a point of connection with the existing 24" forcemain on the east side of Tijeras Creek. The additional length associated with this new alignment would be much less than for Alternative #1 (less than 1,000 feet). This alternative assumes a new pedestrian bridge will be constructed eastward from Antonio Parkway, across Tijeras Creek. The new force main would then be installed across the Creek by means of a structural attachment to this new bridge.

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SMWD Project Approach:

<b>Activity</b>	<b>Description</b>	<b>Schedule in Weeks</b>	<b>Budget</b>
<b>Preliminary Design</b>	Two parallel design efforts are proposed; <u>Alternative #1</u> will be examined to determine the feasibility of installing a forcemain in an empty cell in the Antonio Bridge or hanging a pipeline on the exterior of the bridge. The analysis will include a review of the hydraulics to determine the minimum forcemain size. <u>Alternative #2</u> will consider the feasibility of constructing a pedestrian bridge over Tijeras Creek with the forcemain attached to the bridge. Result will be selection of a preferred project.	6 to 12	\$ 50,000  ?
<b>Prepare a Request for Proposal (RFP)</b>	Based on the accepted preliminary design, the District will draft a RFP and select an engineering firm for final design.	6	\$ 5,000
<b>Final Design</b>	Consultant will prepare plans and specifications, develop CEQA documents, provide permitting assistance, provide bidding assistance and construction support for the selected alternative.	16 to 24	\$ 200,000
<b>Bidding</b>	District will prepare bid documents for construction of the project.	8	\$ 5,000
<b>Construction</b>	Construction of the project, including installation of the selected alignment, testing, and connection to the existing forcemain.	24 to 52	\$ 1,300,000
<b>Total</b>		60 to 92	\$ 1,560,000

Subject to the California Environmental Quality Act and SMWD Board action, work will start immediately and, subject to unforeseeable/uncontrollable delays will be completed within two years based on the above schedule.