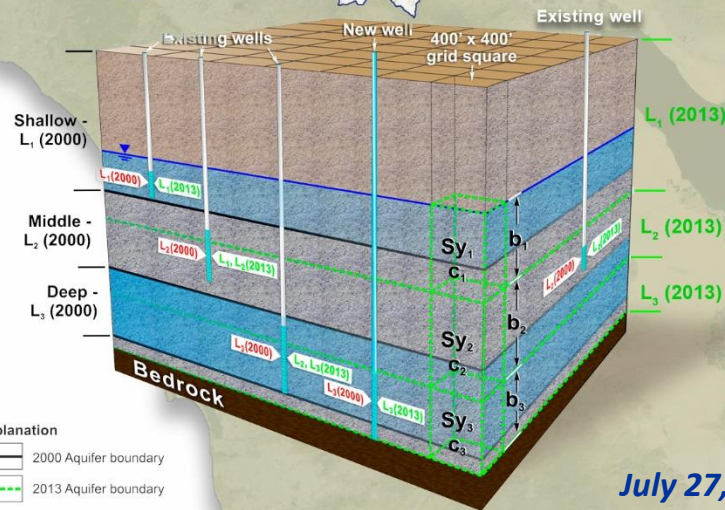
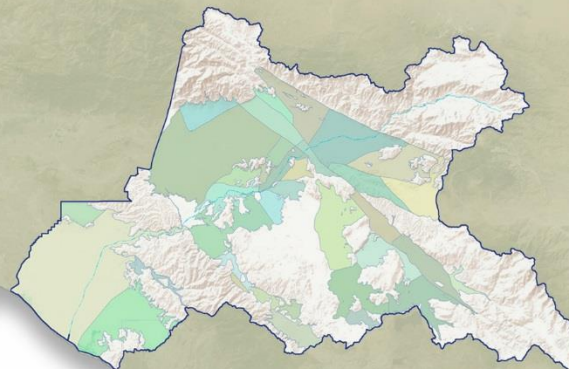


TDS/Nitrogen Management
Plan for the Santa Ana River Basin
Groundwater Monitoring Requirements

**Consulting Services for the
Recomputation of
Ambient Water Quality in the
Santa Ana River Watershed for
the Period 1996-2015**



July 27, 2016

Today's Agenda

01 Consulting Team Introduction

02 Objective and Scope of Work

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03 Schedule

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04 Communication

.

05 Questions and Answers

CDM Smith and Daniel B. Stephens and Associates

CDM Smith, Inc.

Founded in 1947, CDM Smith, Inc. is a full-service consulting, engineering, construction, and operations firm that provides integrated solutions in water, environment, transportation, energy and facilities to public and private clients worldwide.

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DBS&A, Inc.

DBS&A is water resources and environmental engineering consulting firm comprised of 90 professionals, including hydrologists, groundwater hydrologists, geologists, engineers; soil and environmental scientists; civil, chemical, environmental engineers; and field and laboratory technicians.

Objective

- **What does the Task Force want to achieve?**
 - **A rigorous, science-based estimate of AWQ using the exact methodology as AWQ determinations in the objective setting period and subsequent recomputations.**
 - **Accurate representations of the AWQ for each GMZ are essential for estimating assimilative capacity and for trend analyses.**
 - **As we'll discuss in Task 2, the Interpretative Tools, groundwater maps may change because of actual changes in groundwater conditions or because the data set is different. Maps may also changes because of a misapplication of the prescribed method.**

Scope of Work and Schedule

- Task 1a – Data Collection: August 2016
 - Optional Task 2 – Improve Spatial Distribution
- Task 1b – Update Physical Model of Pilot GMZ: November 2016
- Task 1c – Process and Upload Historical Data: October 2016
- Task 1d – GWQ Point Statistics: November 2016
- Task 1e – Estimate Regional TDS and Nitrate: February 2017
- Task 1f – Compute Current AWQ: March 2017

Scope of Work and Schedule

- Task 2 – Prepare Interpretative Tools: April 2017
 - Task 2a – Change Maps
 - Task 2b – Key Well Analyses and WQ Trends
 - Task 2c – Well Attrition Analysis
- Task 3 – Prepare Technical Memorandum: June 2017

Communication

- Regular Progress Updates at BMPTF Meetings
- Focused Reviews of Maps from December 2016 through March 2017
- Review of Interpretative Tools during March and April 2017

A topographic map of a mountainous region, likely a national park or a large forest reserve. The map features a complex network of mountain ranges, valleys, and rivers. The terrain is color-coded to represent elevation, with brown and tan shades indicating higher altitudes and green shades indicating lower elevations. Several large, irregularly shaped areas are highlighted in various shades of green, yellow, and blue, possibly representing different land management zones, protected areas, or specific ecological regions. The map is framed by a dark blue border.

Questions and Answers