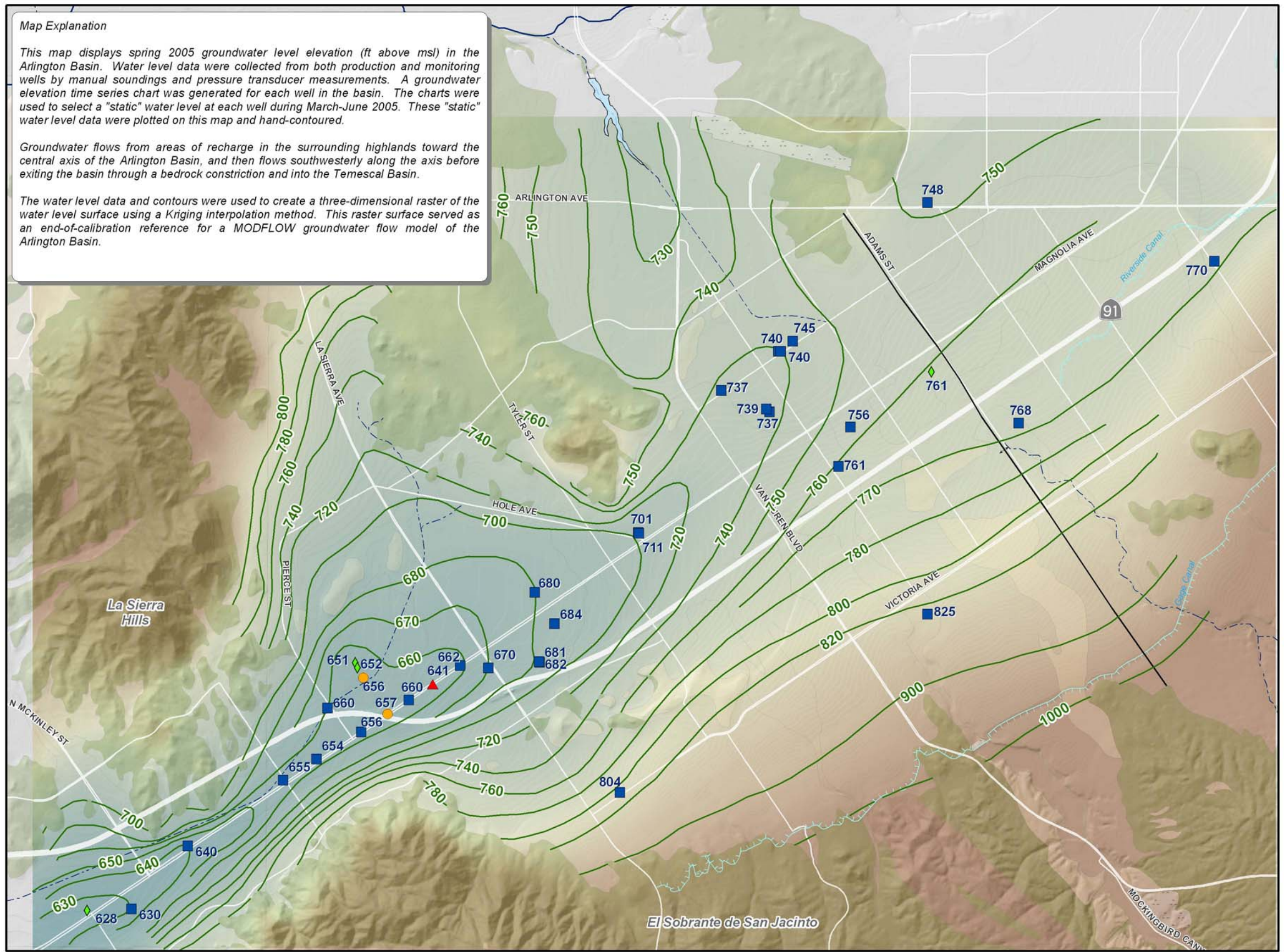


**Map Explanation**

This map displays spring 2005 groundwater level elevation (ft above msl) in the Arlington Basin. Water level data were collected from both production and monitoring wells by manual soundings and pressure transducer measurements. A groundwater elevation time series chart was generated for each well in the basin. The charts were used to select a "static" water level at each well during March-June 2005. These "static" water level data were plotted on this map and hand-contoured.

Groundwater flows from areas of recharge in the surrounding highlands toward the central axis of the Arlington Basin, and then flows southwesterly along the axis before exiting the basin through a bedrock constriction and into the Temescal Basin.

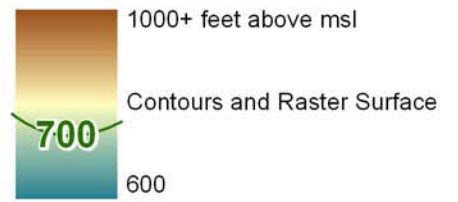
The water level data and contours were used to create a three-dimensional raster of the water level surface using a Kriging interpolation method. This raster surface served as an end-of-calibration reference for a MODFLOW groundwater flow model of the Arlington Basin.



**Measured Groundwater Levels**

- Groundwater level elevation (ft above msl)
- 750 ■ Static
  - ◆ Estimated Static
  - Recovering
  - ▲ Dynamic (Pumping)

**Interpolated Groundwater Levels**



**Geology**

- Recent Fill Material
- Quaternary Alluvium & Unconsolidated Sediments
- Tertiary to Quaternary Consolidated Sedimentary Bedrock
- Cretaceous Igneous Bedrock
- Mesozoic & Paleozoic Metamorphic Bedrock

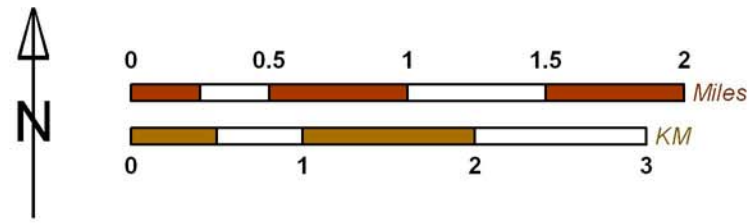
**Other Features**

- Groundwater Flow Model Domain
- Rivers and Streams
- Groundwater Divide



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**WESTERN MUNICIPAL WATER DISTRICT**  
 Feasibility Study for the  
 Expansion of the Arlington Desalter  
 Task 1

**Groundwater Levels**

Spring 2005

**Figure 3a**