BIG TUJUNGA RESERVOIR SEDIMENT REMOVAL PROJECT

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Flood Control District

Owns and operates complex flood protection and water conservation systems that includes:

- 14 major dams
- 162 debris basins
- 500 miles of open channels
- 36 sediment placement sites
Big Tujunga Reservoir
Location Map

Big Tujunga Reservoir
Dam Retrofit Project April 2008 - February 2012

- $100 Million Retrofit Project
- Seismically Strengthen Dam to Remove Threat of Failure During a Seismic Event
2009 Station Fire

- Station Fire Started on August 26, 2009 and Contained on October 16, 2009
- Burned over 160,000 acres in the San Gabriel Mountains above:
  - Altadena
  - La Canada Flintridge
  - La Crescenta
  - Glendale
  - Tujunga
  - Acton
Effect of Station Fire
Big Tujunga Reservoir
- Burned 87% watershed tributary to Big Tujunga
Sediment & Dams

Available Capacity

Sediment & Dams

Effects of Sediment
- Blocked Valve
- Reduced Capacity

Reduced Capacity
Sediment Management Strategic Plan

- 20-year Sediment Management Strategic Plan
- Provides Overview of Various Strategies to Identify Optimal Solutions

Big Tujunga Reservoir Sediment Removal Project Limits
Big Tujunga Reservoir
Maple Canyon Sediment Placement Site

- First utilized for sediment placement in 1981
- Placement of fill will impact 10 additional acres within the SPS, as originally authorized by USFS
- Working with USFS on Restoration Plan

Big Tujunga Reservoir
Transportation Alternatives

- Low Emission Trucking
- Conveyor System