

# Seismic Assessment of Four Hydroelectric Power Plants & Pressure Control Structures

Engineering & Operations Committee Item 7-1 March 11, 2013

#### **Current Action**

- Appropriate \$800,000
- Authorize seismic assessments of:
  - 1. Sepulveda Canyon Control Facility
  - Foothill & Greg Avenue Hydroelectric Plants
    & Carbon Creek Pressure Control Structure

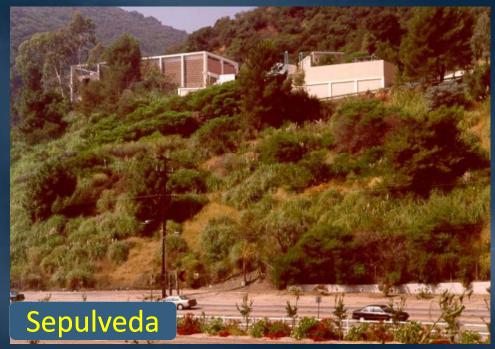
#### **Distribution System**



### Background

- Facilities Control Pressure & Flow
  - Hydroelectric Plants built as turnkey in 1970s
  - Annual revenues up to \$4.7M
- Seismic Deficiencies
  - Exterior wall & columns
  - Roof connections
  - Liquefiable soil at Sepulveda Canyon Control Facility





## 1. Sepulveda Canyon Control Facility

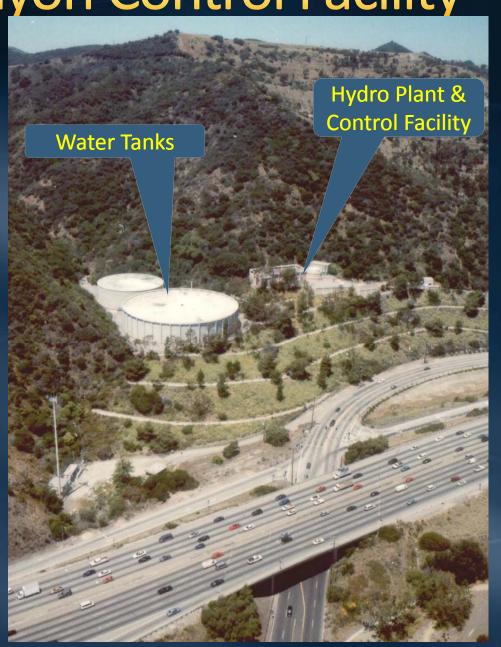
- Planned Structural Assessment
  - Perform Structural analyses
  - Develop retrofit options
  - Structural evaluation by Metropolitan staff





1. Sepulveda Canyon Control Facility

- Planned Geotechnical Activities
  - Test borings
  - Liquefaction analyses
  - Slope deformation analyses
  - Assess slope remediation options
  - Geotechnical activities by URS



# 2. Foothill, Greg Ave, & Carbon Creek

- Planned Structural Assessments
  - PerformStructuralanalyses
  - Develop retrofit options
  - Structural evaluation by Metropolitan staff





## Requested Funds

	Sepulveda Canyon	Greg Ave, Carbon Creek
Labor		
Proj. mgmt, field survey, env. doc.	65,000	\$ 55,000
Seismic assessment	100,000	270,000
Professional Services - Geotechnical	245,000	-
Remaining Budget	30,000	35,000
Total	440,000	\$ 360,000

TOTAL REQUESTED: \$800,000

#### Schedule







## **Board Options**

- Option #1
  - Adopt CEQA determination
  - Appropriate \$800,000
  - Authorize seismic assessments of the Sepulveda Canyon Control Facility, Foothill & Greg Ave. Hydroelectric Plants & Carbon Creek Pressure Control Structure
- Option #2
  - Do not authorize the seismic assessment at this time

## Staff Recommendation

Option #1