

Two Rehabilitation Projects at the Weymouth Water Treatment Plant

Engineering & Operations Committee Item 7-2 July 9, 2012

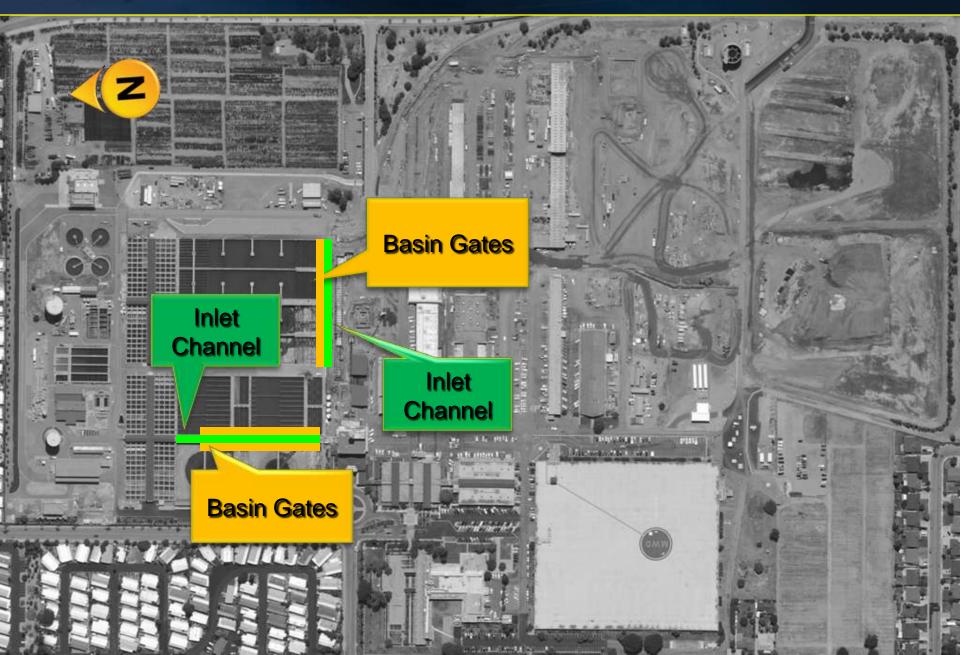
Current Action

- Appropriate \$380,000
- Authorize 2 rehabilitation projects at the Weymouth plant:
 - Preliminary design to replace treatment basin inlet gates
 - Preliminary design of seismic upgrades to basin inlet channels

Metropolitan Treatment Plants

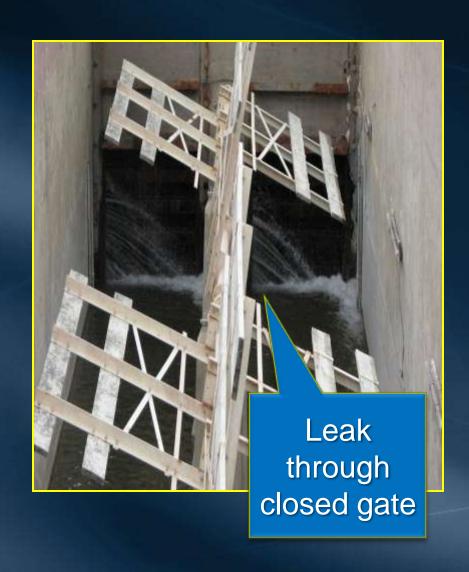


Project Locations



1. Basin Inlet Gate Improvements

- Existing Conditions
 - In service 50-70 years
 - Gates & gate guides corroded & leak
 - No SCADA indication
- Recommendations
 - Replace or rehabilitate32 gates, guides &actuators
 - Automate gate control



1. Basin Inlet Gate Improvements

- Preliminary Design Scope
 - Evaluate alternatives for rehabilitation or replacement of gates & actuators
 - Assess materials of construction
 - Survey for hazardous materials
 - Preliminary design by Metropolitan

Leak through closed gate



2. Basin Inlet Channel Seismic Upgrades

- Background
 - Located 1.5 miles from Sierra Madre Fault
 - Potential 7.0 magnitude earthquake
 - In service 50 -70 years
 - Basin inlet channels need structural upgrade
- Recommendation
 - Strengthen walls of inlet channels



2. Basin Inlet Channel Seismic Upgrades

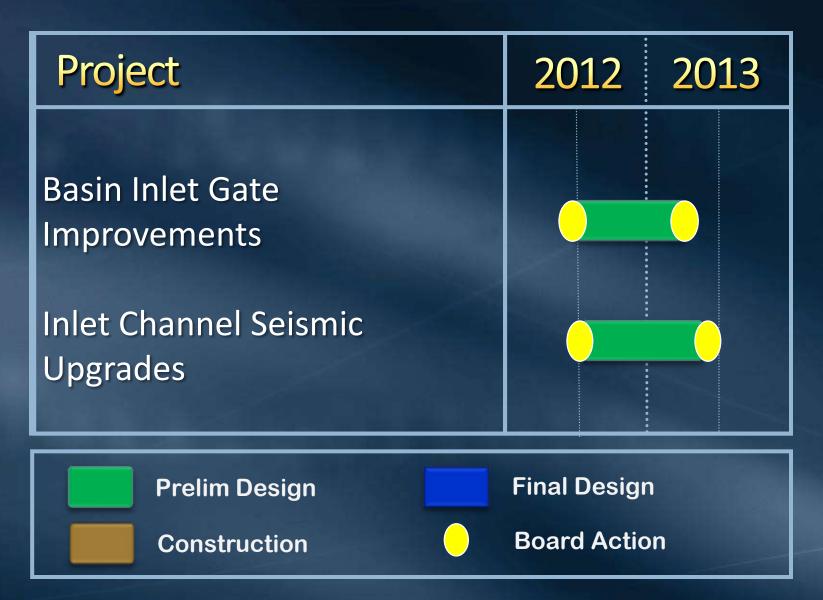
- Preliminary Design Scope
 - Conduct detailed structural analyses
 - Develop rehabilitation concepts
 - Prepare design criteria & estimate construction cost
 - Preliminary design by Metropolitan

Requested Funds

	Basin Gate Improvement	Inlet Channel Seismic Upgrades
Proj Mgt, Haz. Material Survey Preliminary Design Remaining Budget	\$ 36,000 139,000 35,000	\$ 19,000 124,000 27,000
Total:	\$ 210,000	\$ 170,000

Total Requested: \$ 380,000

Schedule



Board Options

- Option # 1
 - Adopt CEQA determination
 - Appropriate \$380,000
 - Authorize preliminary design to rehabilitate Weymouth basin inlet gates
 - Authorize preliminary design of seismic upgrades to basin inlet channels

Board Options

- Option # 2
 - Adopt CEQA determination
 - Appropriate \$210,000
 - Authorize preliminary design to rehabilitate Weymouth basin inlet gates
 - Do not authorize preliminary design of seismic upgrades to basin inlet channels
- Option # 3
 - Do not proceed with the 2 rehabilitation projects at this time

Staff Recommendation

Option # 1

