Sweetwater to Lower Otay Pipeline Relining Project

Windingwalk Homeowner’s Association

February 13, 2013
San Diego County Water Authority

- Wholesale water agency created by Legislature in 1944
  - 24 member agencies
  - 36-member board of directors
  - Serves 3.1 million people, $186 billion economy

- Service area
  - 950,000 acres
  - 97% of county’s population

- Build, own and maintain large-scale water infrastructure
Sources of San Diego County’s Water Supply in 2011

- State Water Project (Bay-Delta): 16%
- Colorado River: 54%
- Local Supplies and Conservation: 30%

San Diego County imports ~70% of its water supply.
Increasing San Diego County's Water Supply Reliability through Supply Diversification

**1991**
- 552 TAF (95%)
- 26 TAF (5%)

Total = 578 TAF

**2012**
- Metropolitan Water District: 274 TAF (45%)
- Imperial Irrigation District Transfer: 80 TAF (13%)
- All American & Coachella Canal Lining: 70 TAF (11%)
- Conservation (existing and additional): 18 TAF (3%)
- Groundwater: 61 TAF (10%)

Total = 612 TAF

**2020**
- Metropolitan Water District: 231 TAF (30%)
- Imperial Irrigation District Transfer: 80 TAF (10%)
- All American & Coachella Canal Lining: 103 TAF (13%)
- Conservation (existing and additional): 190 TAF (24%)
- Recycled Water: 44 TAF (6%)
- Seawater Desalination: 56 TAF (7%)
- Groundwater: 48 TAF (6%)

Total = 779 TAF

TAF=Thousand Acre-Feet
Capital Improvement Program

• $3.5 billion CIP (1989 – 2030)
  ▪ $1.5 billion Emergency Storage Program (ESP)
• Dozens of major projects – completed or under construction
• 2010 debt issuance of $625 million to fund CIP
Pipeline Relining Program

- Maintains and protects water-delivery infrastructure
- Reinforces aging concrete pipeline with steel
- Less obtrusive than total excavation, trenching, and replacement project
- Increases the reliability of pipelines
Pre-stressed Concrete Cylinder Pipe
Pipeline Relining Experience

- Relined 30 miles of pipe
  - Experienced team
  - Incorporate lessons learned from previous projects
  - Streamline processes

- Current projects:
  - Mission Trails to Lake Murray (in city of San Diego)
Project Location

- 5.4 miles
- 17 portal locations
- Begins south of Sweetwater Reservoir in Bonita, west of SR 125
- Continues south through Chula Vista
- Ends just south of Lower Otay Lake, east of the water treatment plant
- Play movie
Removing Existing Section of Pipe from the Portal
Receiving Steel Liners
Preparing to Lower Steel Liner into Portal
Lowering Steel Liner into Portal
Securing Steel Liner to Cart
Welding

2005 12 14
Preparing to Install Mortar Lining
Completed Mortar Lining
Installing Steel Pipe, Portal Closure
What Can You Expect?

- **Security** – Portals locked at night
- **Traffic** – Construction access, trucks use surface streets and Water Authority easements
- **Work hours**
  - 7 a.m. – 7 p.m., Monday – Saturday
  - Extended work hours, case-by-case basis (shutdowns)
- **Schedule**
Water Authority Commitment

- Communicate early and often
- Update other organizations and elected officials
- Minimize community impacts
- Respond to community concerns
Community Outreach Efforts

- Planning group briefings
- Community briefings and meetings
- Updates to elected officials
- Postcards
- Doorhangers
- Information line
- Project webpage
Project Schedule

• Public review of environmental documents:
  – December 2012 – January 2013
  – Public hearing: January 24, 2013

• Board consideration of final environmental document:
  – March 28, 2013

• Construction:
  – Scheduled for Mid-2013 – Late-2014
More Information

- Phone: 877-682-9283, Ext. 7005
- Project webpage: www.sdcwa.org/sweetwater-lower-otay-relining-project
Questions?