Pipeline 5 Relining
Delivery Point to Sage Road
Rainbow Municipal Water District Board of Directors
May 22, 2018
Pipeline 5 Relining Project Alignment

- Rehabilitating Approx. 2.3 miles of pipe
- 9 Access Portals
  - Deleted Portal 1 through Value Engineering

MWD Delivery Point, Begin Relining
Pipeline 5 Relining Project Alignment

- Portals 9 – 10
BIG Pipes

- 96 inch diameter
- Originally constructed in 1981
Pipeline 5 Relining Project, Staging Area Map

Staging Area

Legend
- Staging Area
- Water Authority Easement
- Water Authority Pipelines
PCCP PIPE

ANCHOR ASSEMBLY

MORTAR COATING

HIGH-TENSILE PRESTRESSING WIRE

THIN STEEL CYLINDER

BELL RING

SPIGOT RING

MORTAR LINING

HIGH-STRENGTH CONCRETE CORE
Relining Process

Dirt is excavated to create an access portal or work area.
Relining Process

Shoring walls are put in place to protect the activities.
Relining Process

Two 20-foot sections of old concrete pipe are removed.
New steel liners are inserted into the existing pipe using a specialized pipe cart.
Relining Process

Liners are installed for the entire pipe section.
Once installed, the joints of the liner pipe are welded together.
Reinforcing steel and concrete are placed around the new steel pipe.
Relining Process
Relining Process

The portal is backfilled.
Project Information

9 signs along project route

Contractor will have project information cards to distribute to those with questions
Future Outreach & Communications

- Respond to stakeholder inquiries & concerns
- Presentations to community groups
  - Chambers
  - Planning Groups
- Website: www.sdcwa.org/Pipeline-5-Relining-Project-Fallbrook
- Phone: (877) 682-9283, ext. 7009
- Email: CI Pinfo@sdcwa.org
Project Schedule

- Advertise – May 2018
- Board Award – July 2018
- Contractor Mobilization – September 2018
- Begin Liner Installation – November 2018
- Completion of Work – Summer 2019