

# ASBESTOS-CEMENT WATER LINES



▶ Asbestos-Cement (AC) Pipe



▶ Polyvinylchloride (PVC) Pipe

# Asbestos and AC Pipes in San Luis

- ▶ Asbestos is a naturally occurring fibrous silicate mineral composed of many microscopic "fibrils" that can be released into the atmosphere by abrasion and other processes.
- ▶ Its strong, corrosion resistant, fire resistant and light weight.
- ▶ In early 1900s to late-80s asbestos-cement pipe was used for water line construction in the U.S.
- ▶ It is estimated that more than 600,000 miles of AC water lines are currently installed in the US and Canada.
- ▶ City of San Luis has approximately 5 miles of asbestos-cement water lines equating to only 6% of its entire water distribution system (other cities are in the 30-50% range).
- ▶ Currently there is no regulatory requirement to replace the existing AC water lines.

# Recent Los Portales Del Alamo Repaving Project

## AC Water Line Replacement Costs

- ▶ AWWA estimates national average cost to be approximately \$1,000,000 per 1 mile of water main replacements.
- ▶ San Luis costs would be approximately half of AWWA estimate (\$500,000 per mile- depending on location)

## Paving Preservation Projects

- ▶ Los Portales Repaving Project Phase 2 (2021) would have been a \$260,000 project vs the \$140,000 spent.
- ▶ Los Portales Phase 1 and 2 Repaving Projects combined would have totaled approximately \$1,550,000 if water line replacement was included compared to the \$810,000 spent for just repaving.

# ANY QUESTIONS ??

## REFERNECES

<https://www.epa.gov/asbestos/asbestos-laws-and-regulations#aia>

<https://www.waterworld.com/technologies/pipes/article/16190948/the-asbestos-beneath-our-streets>

[https://www.epa.gov/sites/default/files/2019-05/documents/asbestos\\_awp\\_fact\\_sheet.pdf](https://www.epa.gov/sites/default/files/2019-05/documents/asbestos_awp_fact_sheet.pdf)

<https://www.epa.gov/asbestos/learn-about-asbestos#effects>