



Guiding Principle

2. Wastewater

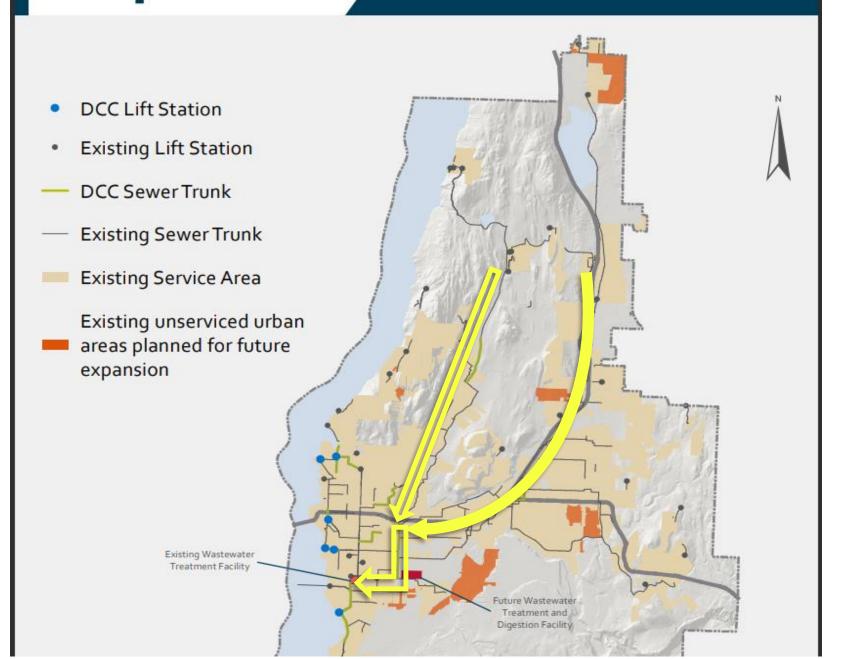
Protect Okanagan Lake, human health and our environment through efficient collection and effective treatment of wastewater.



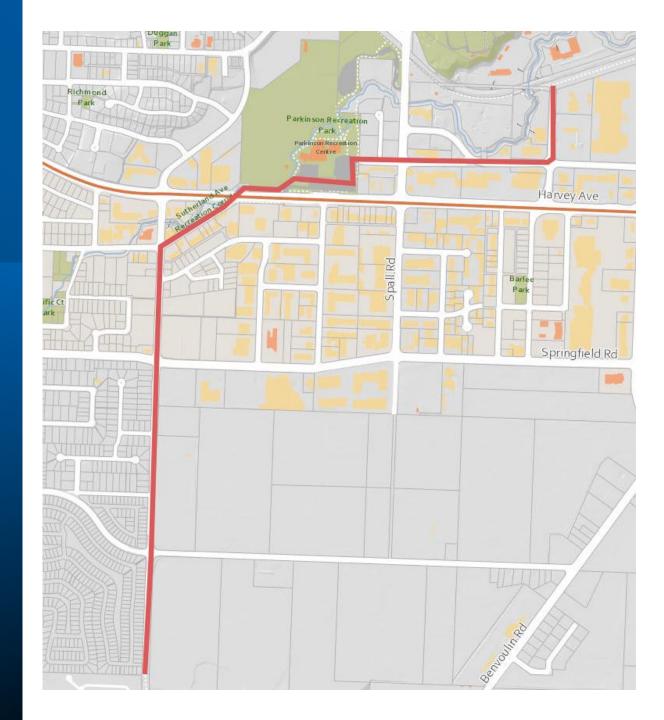


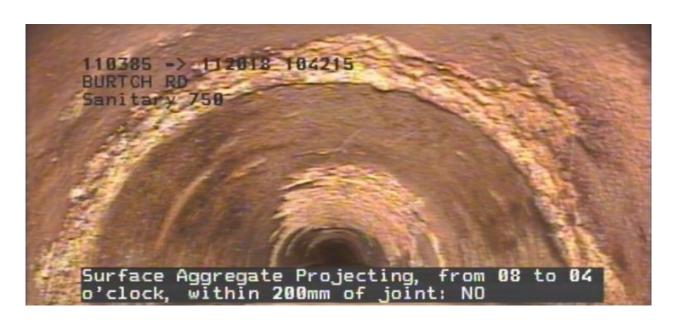
Problem Identification

- ▶ 2018 inspection found pipe deterioration under the intersection of Sutherland and Burtch Road.
- ► Extent of damage was investigated.
- ▶ 3.2 km section of Reinforced Concrete Pipe installed in early 1980's.
- ▶ Pipe should last ~8o years.
- ➤ Concerns about traffic, Highway 97 and maintaining sanitary flows.



Burtch Sanitary Trunk H2S Affected Extents Approximately 3.2km











Cured-In-Place Pipe (CIPP)

Pipes Inside Pipes

Cured-in-place pipe, also known as CIPP, is one of several conduit repair technologies that are considered "trenchless" — that is, they don't require that old pipes be dug up and replaced. In CIPP, liners made of felt, fiberglass, or other composite tubes embedded with resin are inserted into the damaged pipes. Hot water or steam hardens, or "cures," the liner into a plastic conduit. During curing, plumes of materials can escape to the surface and into the air.

ORIGINAL CONDUIT

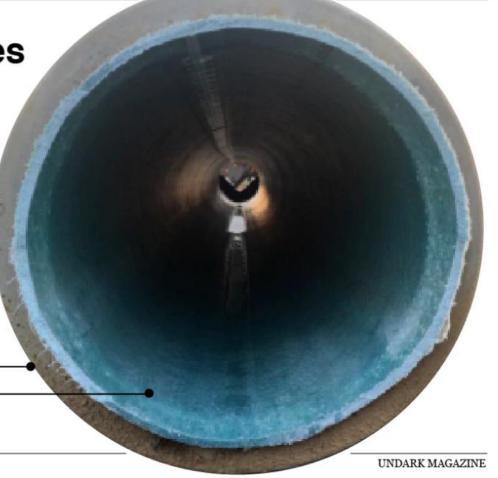
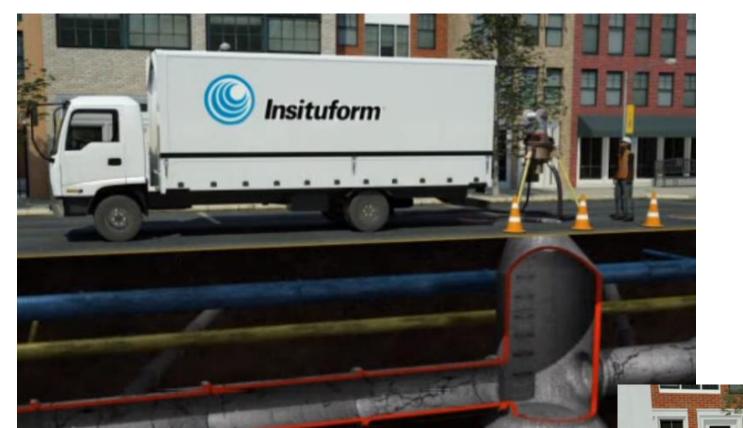


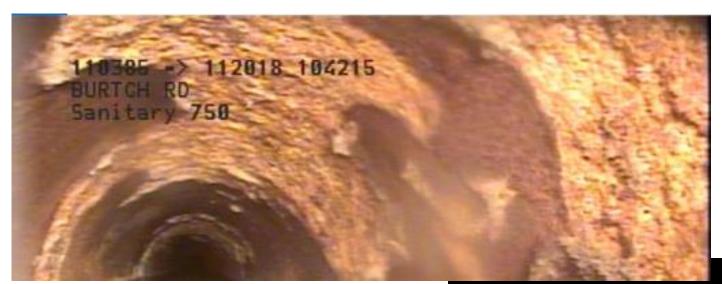
Image courtesy Purdue University



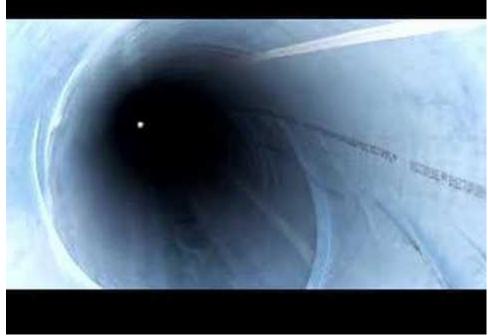


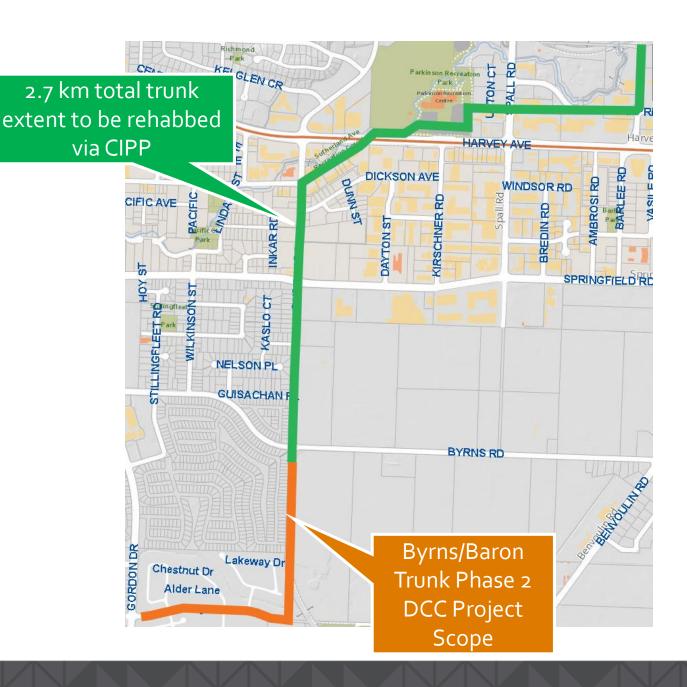




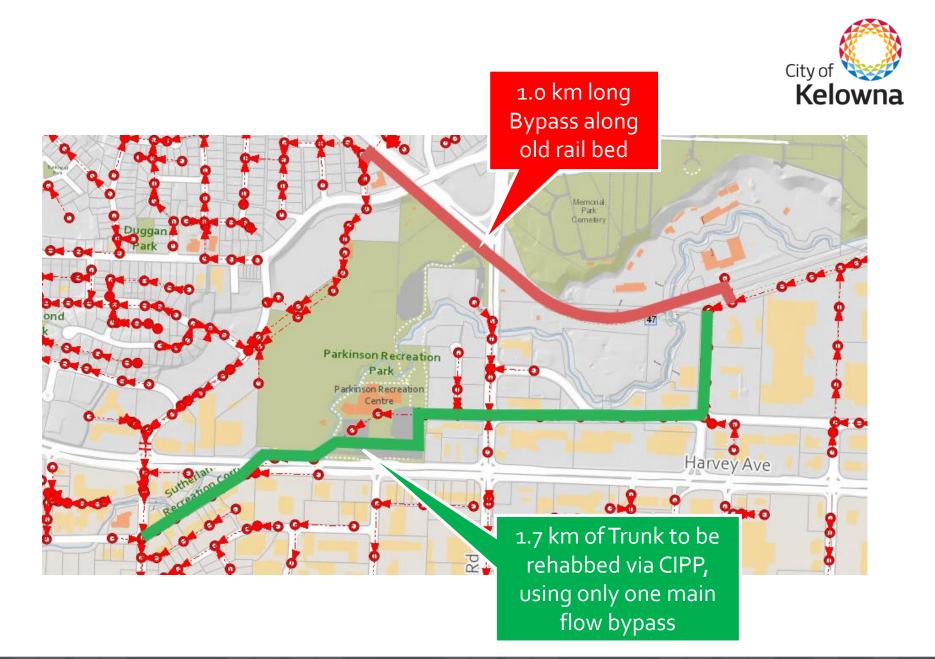














Financials

► Total contract and revised cost

\$7.20 M

Approved budget to date

(\$3.75 M)

▶ from 2022, 2023 and 2024

► Budget Request

\$3.45M

► Completion in 2024



Conclusion

- ▶ Burtch trunk renewal required after only 40 years of service.
- Lining of mainline is least costly solution and avoids multiple risks of delay.
- ► Entire project can be completed in 2024.



Thank you!

For more information, visit **kelowna.ca**.