



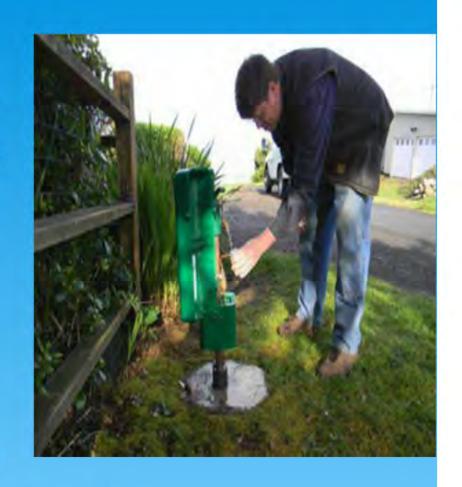






General Statistics:

- Service territory: 12.5 sq./miles
- District Static population: 5,500
- 9-full time employees
- 65-miles of pipe
- 2-million gallons stored water
- Service connections: 2,517
- Customer base: 95% residential
- Annual Water Sales Volume: 95 M/Gal



Service to the community:

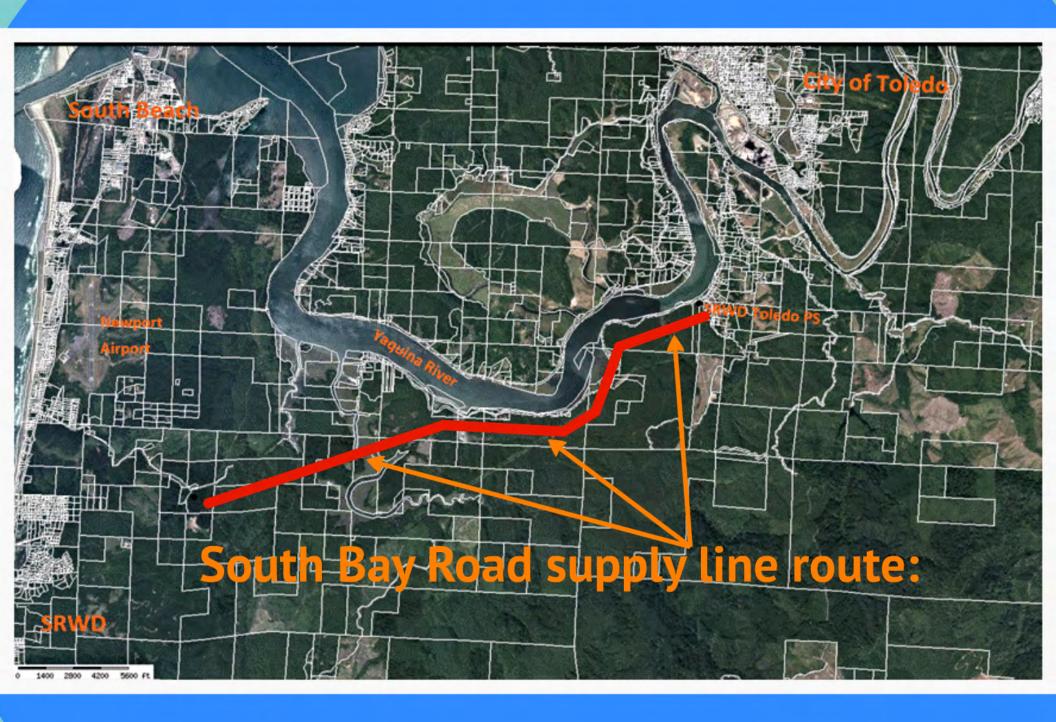
- Provide safe reliable drinking water to a growing community.
- District population increases to 8000 during summer months.
- Emergency interconnection with neighboring communities.
- Support for the regions local fire districts.





Oregon Office of Emergency Management (OEM) January 25, 2017:

"scientists predict there is a 40% chance that a megathrust earthquake of 9.0 magnitude or greater will occur in the next 50-years".



Threats to Existing Water Supply:

- Age and condition of supply line.
- Vulnerable to earth movement.
- Limited access.
- Liquefied soils, Pool Slough area.
- Location, adjacent to the Yaquina River.
- Multiple line failures/increasing frequency.
- Over a million dollars in repair costs.
- A Cascadia event would completely collapse the supply line.





Existing Supply Line Conditions:







January 2016 Emergency Repair

Recent Studies:

Final Report

Reconnaissance-Level Source Water Study

Seal Rock Water District



FINAL

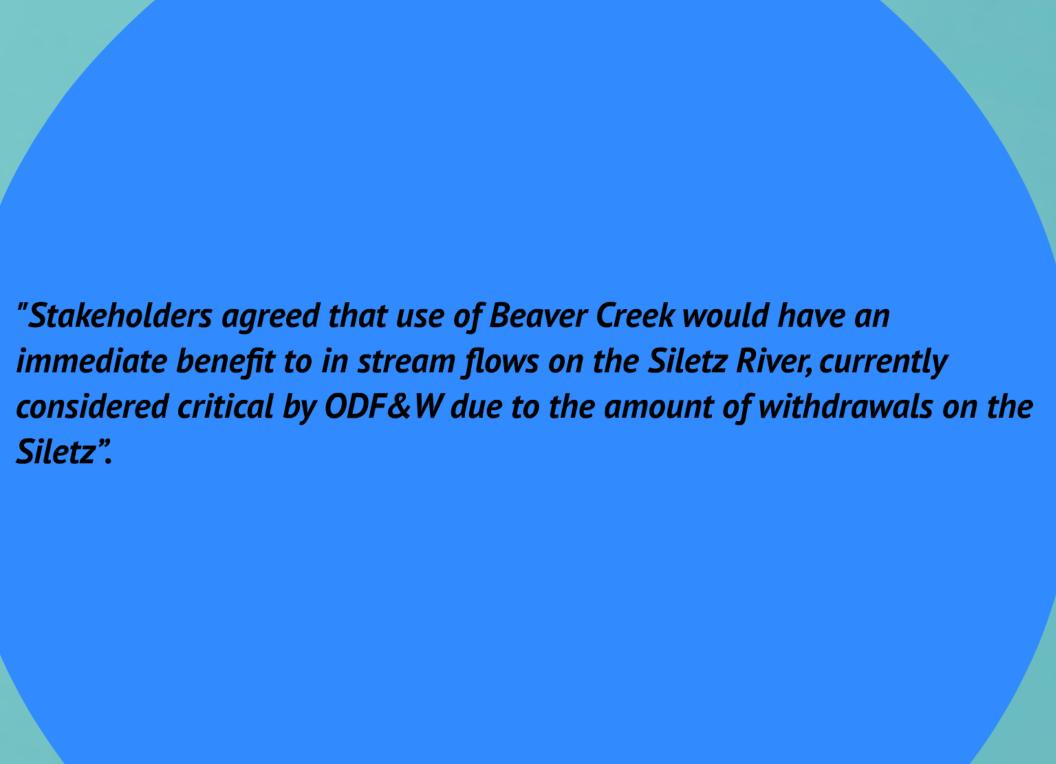
Phase IV Conceptual Design Report for the Seal Rock Water District Beaver Creek Water Supply

Seal Rock Water District, Oregon

September 2016







What we've learned:

- Recent analysis found the most favorable primary water supply is Beaver Creek.
- Developing source water supply on Beaver Creek was the least expensive option.
- Greatest positive environmental benefits.
- Project elements include:
 - Membrane Water Treatment Facility \$8,225,000.00
 - 1.5-mile Raw Water Supply Line = \$2,275,000
 - ♦ Stream Side Intake = \$2,000,000
- Total Overall Project cost is \$12.5 Million

ch2m:

Project Goals Include:

- ♦ Cost effective
- ♦ Reliable water quality



 Seismic resiliency and consideration for expedited recovery





Considerations:

- Geology

- ◆ 100 year flood conditions
- ♦ Cascadia Subduction Zone Earthquake
- Maximize seismic resiliency
- Consideration for recovery



Proposed Beaver Creek Streamside Intake (cont):



Proposed Beaver Creek Streamside Intake (cont):



Proposed Beaver Creek Streamside Intake (cont)



ch2m:

Project Funding Plan:

- ♦ Overall project estimate..... \$12.5M
- ♦ Available G. O. Bond Authority.....\$6.5M

Membrane Treatment Facility \$8,225,000

Raw Water Supply Line = \$2,275,000

Stream Side Intake = \$2,000,000



Thank You



"Perhaps I've said too much."

Questions?

Adam Denlinger, General Manager

adenlinger@srwd.org

541.563.4447

Paul Berg, P.E. Project Manager, ch2m Engineering.

Paul.Berg@CH2M.com

541.768.3413









Repair Cost for South Bay Road Supply line:

\$1.6 million in repair cost since 1976

Support cost for the Toledo System:

\$2.6 million since 2002