

Hey – it's Just a Water Line!

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City of Bend



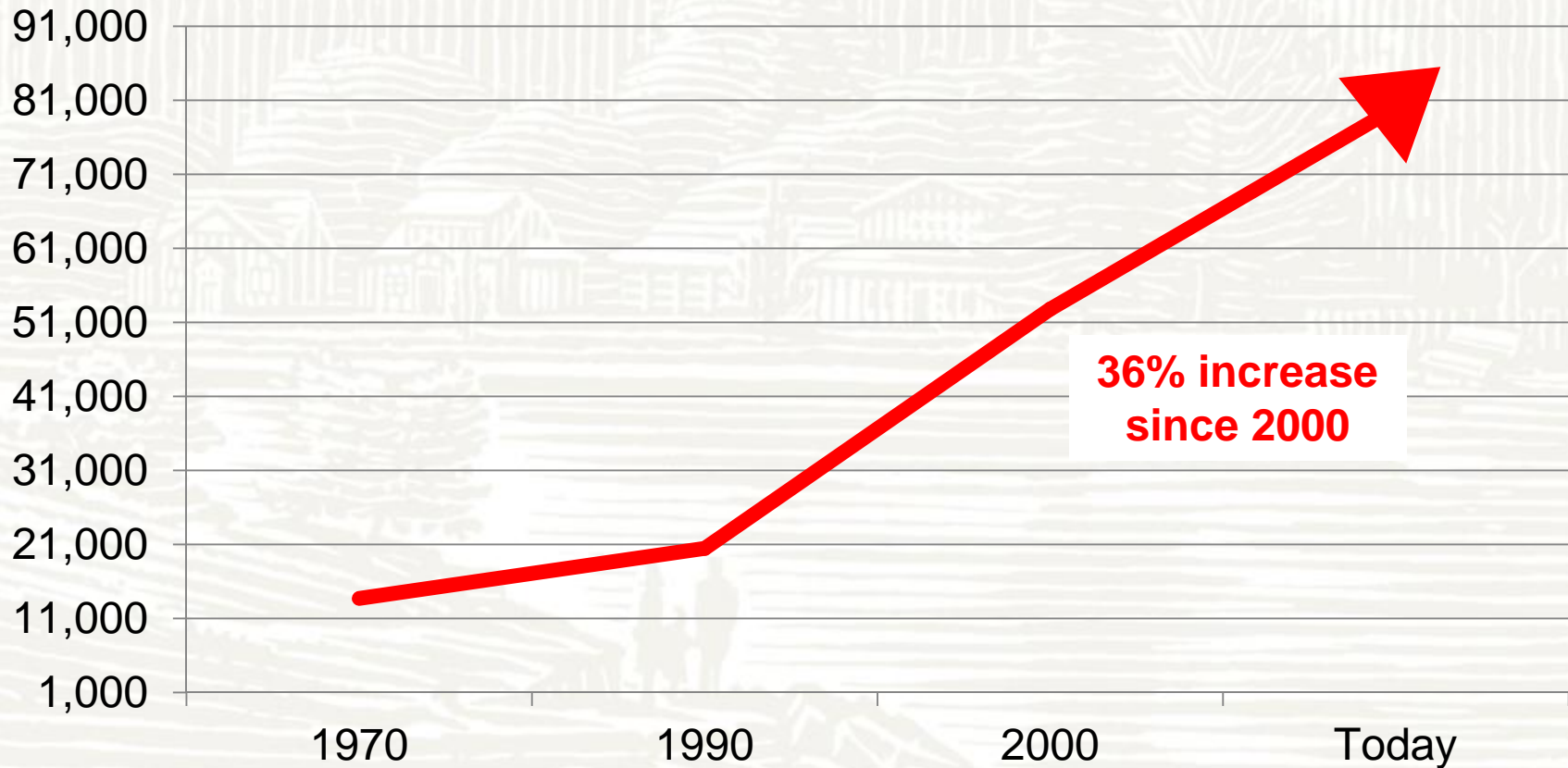
*May 2014
PNWS-AWWA Conference
Eugene, OR*



Bend grew rapidly

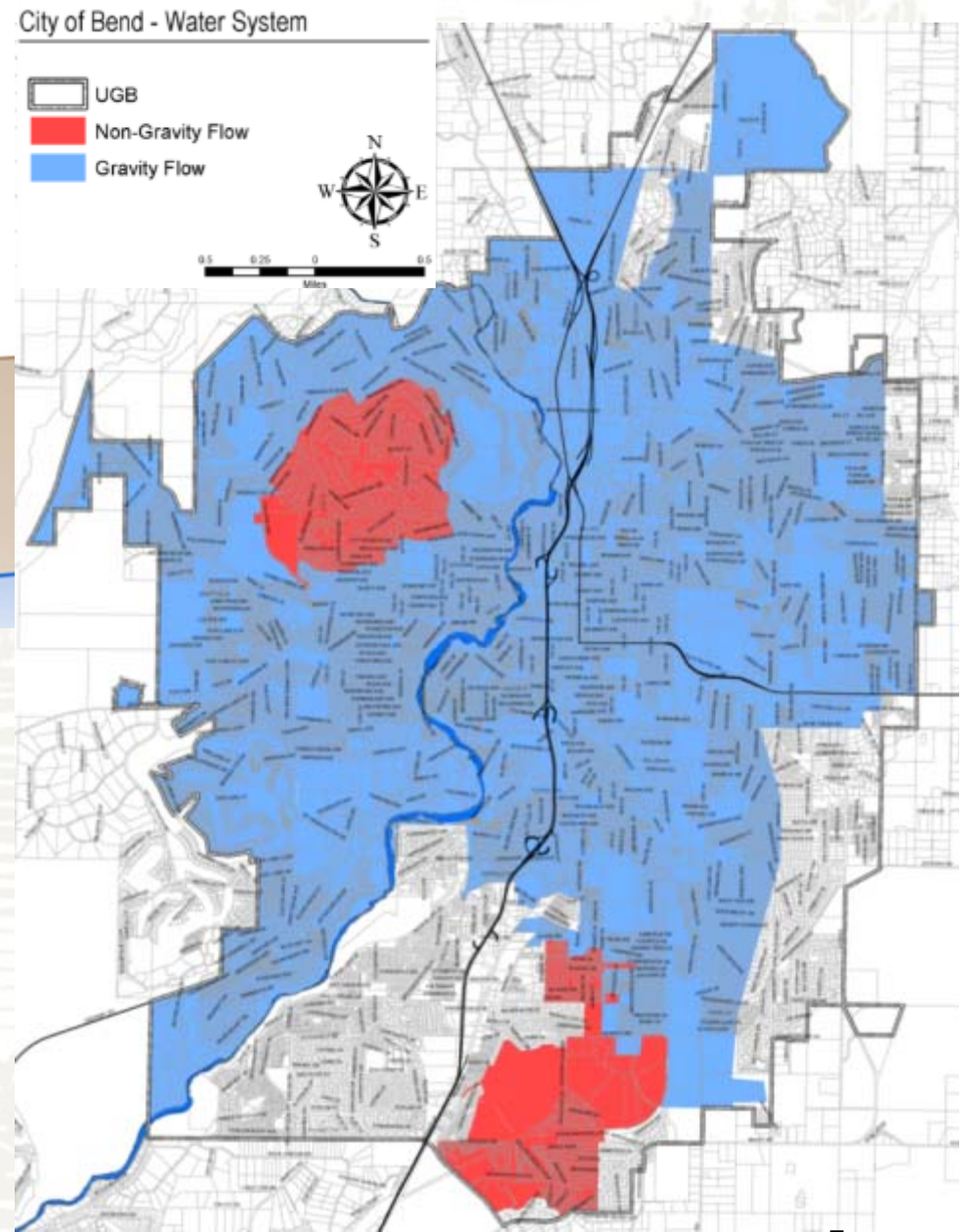
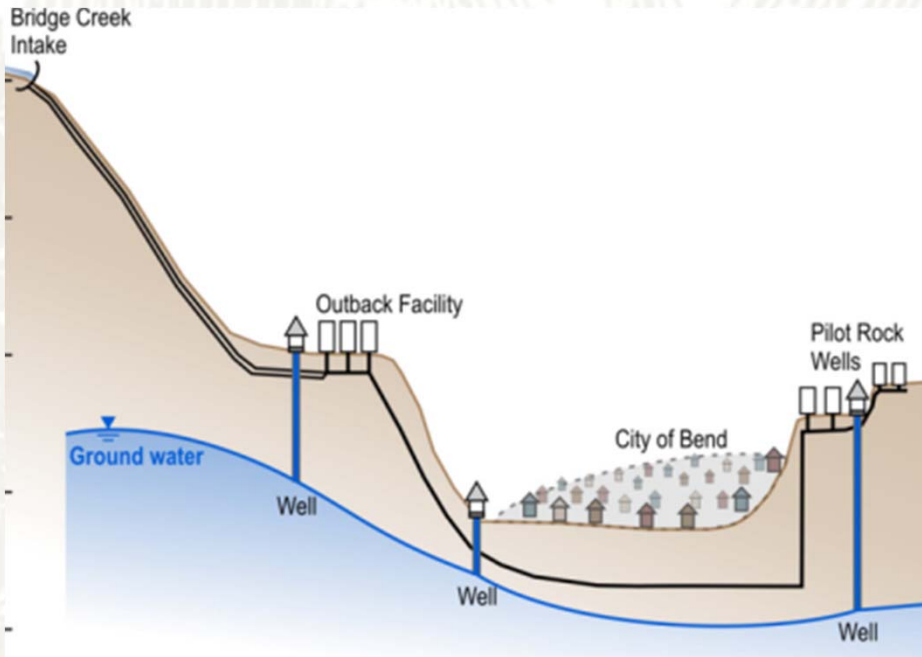
18,000 to 81,000 in 25 years

Population



The City of Bend has significant infrastructure needs!



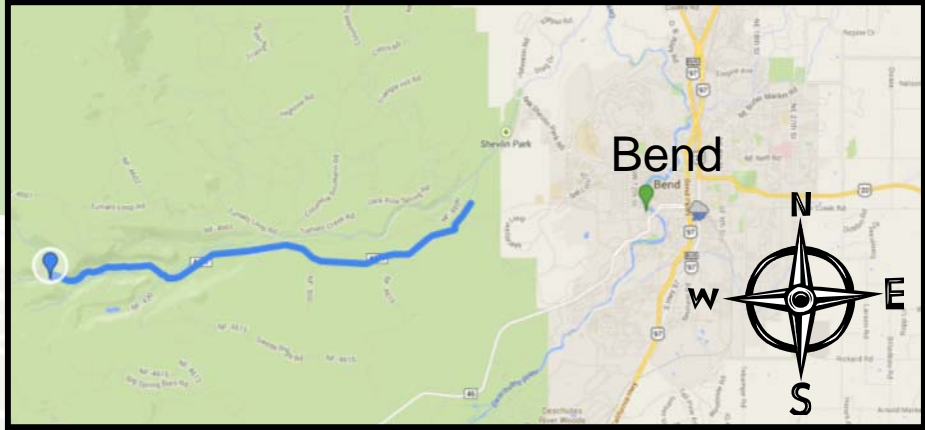
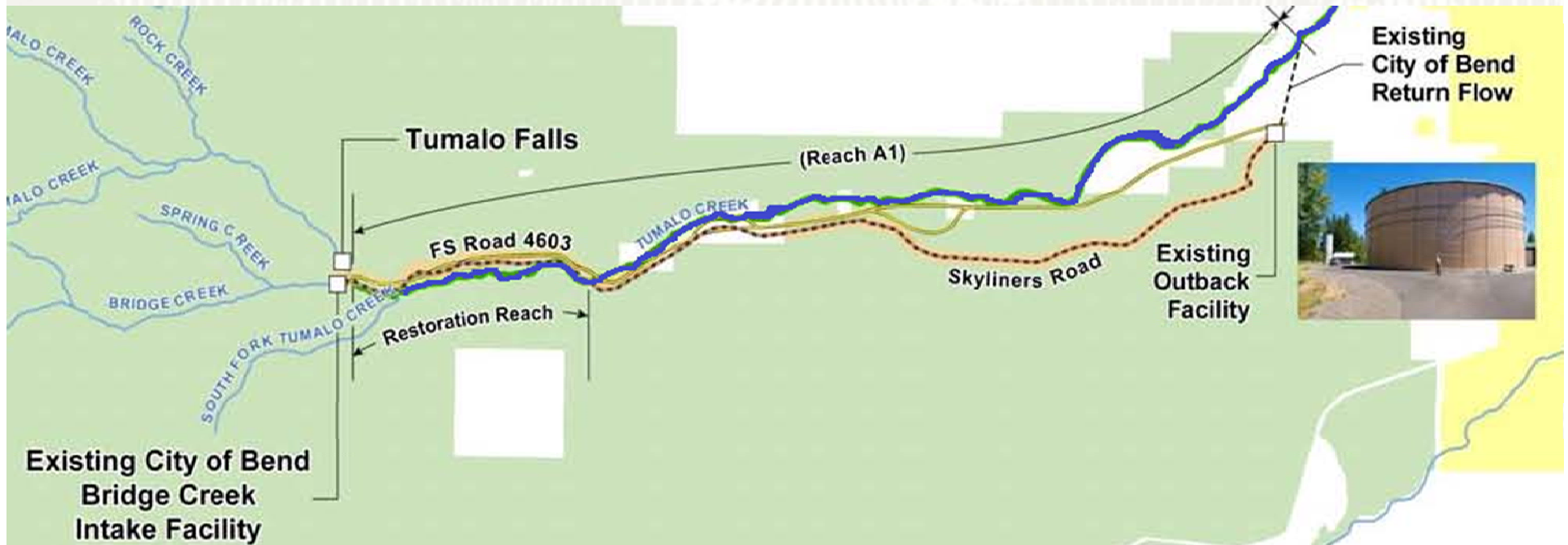


Bend's two sources of water: Bridge Creek and Deschutes Aquifer (system serves 62,800 residents)

Bridge Creek has been Bend's
main water source since 1926



City of Bend Surface Water System

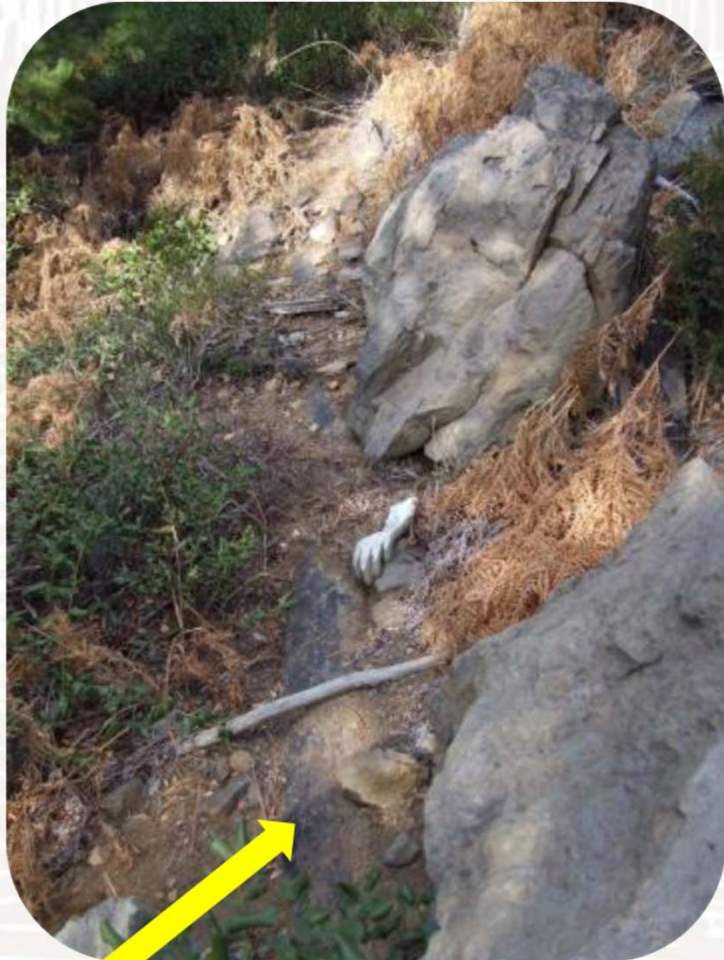


EPA requires
treatment of
unfiltered
surface
water
sources



Deadline:
October
2012

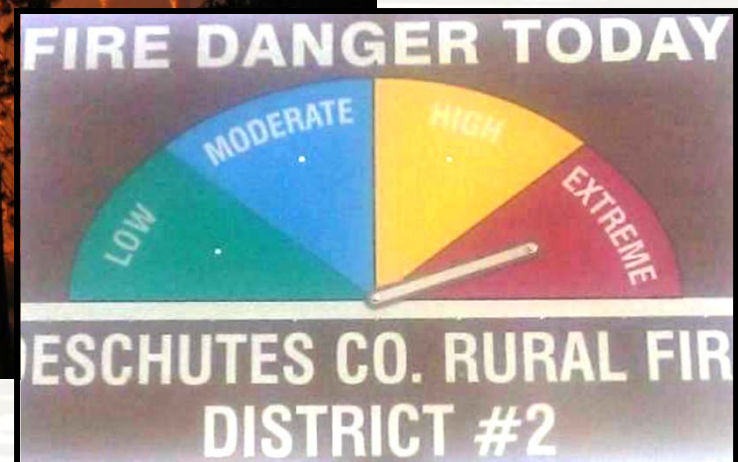
Two Bridge Creek pipelines— built in 1920s & 1950s—at risk.



Exposed pipeline



Bridge Creek Watershed at Risk for Fire



Alternatives Analysis (2008/2009)

- Asses best option to address LT2 requirement, existing pipelines, wild fire potential
- Alternative selected includes:
 - Reconstruct/upgrade intake facility
 - ★ **Build a replacement pipeline in roadways and out of the forest**
 - Build membrane filtration water treatment facility at city owned Outback site
 - Build hydrogeneration facility at Outback




**Build a replacement pipeline in roadway
and out of the forest**

Sounds like the reasonable
thing to do, right?

Organized Opposition


about the campaign



What is the SWIP **What are the OPTIONS** **What you can DO**

[news](#) • [blog](#) • [faq](#) • [reference materials](#) • [contact us](#)


BEND'S SURFACE WATER IMPROVEMENT PROJECT (SWIP) IS A \$68 MILLION DOLLAR DRAIN ON...



Rate Payer's Pockets

The SWIP will cause City of Bend water users to see their rates rise by 40% in the next five years....


[Read More »](#)



Tumalo Creek

Bend already takes too much water out of Tumalo Creek. This project will reduce the creek's flows even further....

[Read More »](#)



Bend's Future




The SWIP is Bend's biggest public works project ever. But it is not necessary, it relies on incomplete studies with misleading information, and....

[Read More »](#)

Petition to Stop the Drain

I wish to state my opposition to the proposed City of Bend's Surface Water Improvement Project (SWIP), which would cost Bend nearly \$70 million, reduce flows in Tumalo Creek, and raise rate-payers' bills more than 40% in the near future. I believe this project is misdirected and the process should be reopened for public participation and reassessment of alternatives.

[sign here](#)



Pipeline Project Timeline / Savings

- 2011: Procurement of Steel pipe
More than \$1M under estimate
- Early 2012: Procurement of HDPE pipe
Almost \$300,000 under estimate
- Spring 2012: Bid construction of HDPE and steel pipe
More than \$3 M under estimate
- August 2012: Construction started

Legal Challenges

Bend delays water project work amid court fight

Ruling on foes' injunction bid sought by Jan. 20

By Barney Lerten

POSTED: 5:58 PM PST December 7, 2013

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Impact of Lawsuit

- Lawsuit filed and project shutdown by injunction in October 2012
- City has spent over \$1.5 M since then on costs related to opposition (Land Watch) law suit
- One and a half years, and a second Environmental Assessment later...

We Have Started!

- February 2014:
Federal judge declined to issue the second injunction to stop construction!
- City allowed to proceed with 6 1/2 of 9 1/2 miles of pipe construction under Skyliners Road at own risk.



March 13, 2014

Dedication to project pays off





S

2014/03/17 10:45

1460m 0856hPa

44°01' 89" N 121°31' 22" NW

03.17.2014 10:45



What's was the impact of a long delay?

- ☑ Demoralizing to staff, consultants and contractors
- ☑ Loss/changes to key team members
- ☑ Policymakers change
- ☑ Strains interagency partnerships (County, Forest Service, FHWA, etc.)
- ☑ Risk of pipe failure/fire in watershed continues
- ☑ **UNPLANNED COST INCREASES**

Delays=cost increases

Costs of Delay = **\$1.5 million and rising**

- Consultant fees for NEPA, environmental studies, legal
- Planning and design change orders
- Mob and demob costs, escalation
- Additional CM/GC fees

More \$\$\$ to come...

Future Anticipated Costs of Delay

- Change in construction bidding climate, rebid costs/increase bids vs. stay with original sub
- More escalation
- Added construction costs due to more winter construction
- Added costs due to extended project duration
- Pipe relocation and storage costs
- More legal fees

The Three Most Important Actions We Took

1. Dedicated project management
2. CM/GC participation for scheduling and cost evaluations
3. Strategic communications with public

Project Management

- Communication is #1!! Keep entire team updated and informed
- Be flexible and prepare to restart project with short notice
 - Keep up with paperwork/documentation
 - Be open to scheduling project in alternative ways
- Take ownership
 - Keep informed of legal status
 - Participate and stay involved in public outreach
- Try not to take it personally, stay positive

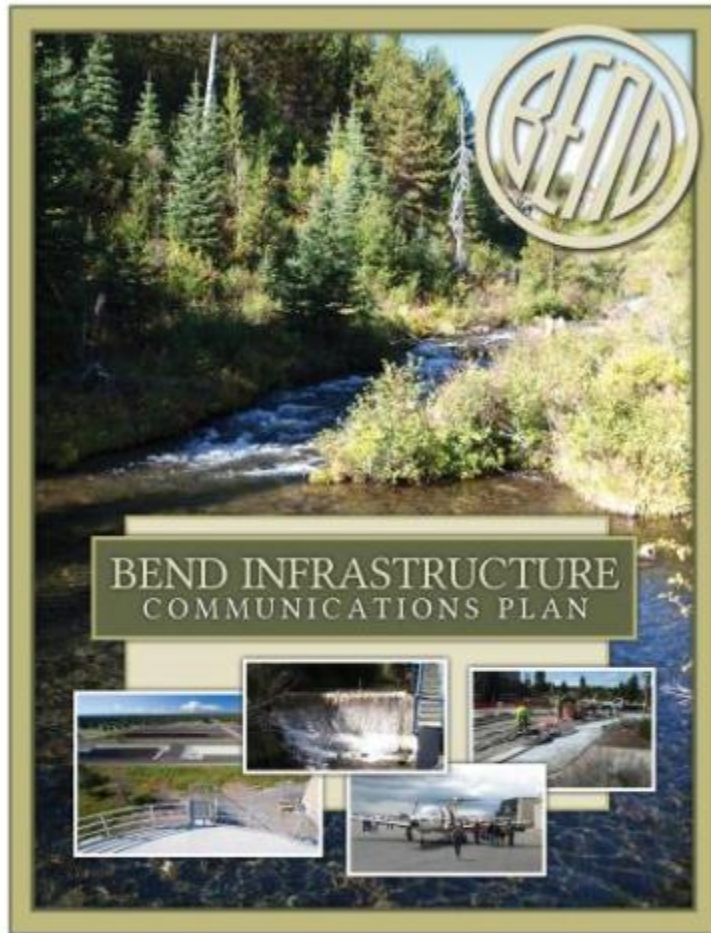
CM/GC Participation

- Have CM/GC on board early with full understanding of project constraints
- Communicate closely with CM/GC as constraints shift and legal issues arise
- Understand effect on project as time frames shift by collaborating with CM/GC on schedule
- Work with CM/GC to understand costs of changing schedule scenarios
- Stay flexible

Strategic Communications

- ✓ Strategic communications plan
- ✓ Talk past the few loud / vocal opponents to reach utility customers
- ✓ Educate the public/special interest groups
- ✓ Get out to the public—don't expect them to come to meetings
- ✓ Educate/engage the media

Infrastructure Communications Plan



Before Plan	Now
Reactive	Proactive
Ad hoc	Advance preparation
One-time	Multiple use
Episodic	Ongoing

Talk past the few loud / vocal opponents to reach customers



Bridge Creek Pipeline Project *FACT CHECK*

The Bridge Creek Pipeline Replacement Project replaces two existing parallel pipelines that carry water 10 miles from the Bridge Creek source to Bend's water chlorination facility. The pipelines were built in the 1920s and 1950s. The project also includes adding screening at the water intake facility to protect fish and new features to control how much water is diverted. The intake facility hasn't been updated since it was originally built in 1925.

Misinformation has circulated in the community about this project. Take a moment now to check the facts.

MISINFORMATION	FACT
The project is paid for by property tax.	The Bridge Creek Pipeline project is paid for by water ratepayers, the people who use the water.
A new pipe is no longer necessary.	The pipelines are old, built in the 1920s and 1950s. They are at the end of their useful life and need to be replaced.
The water withdrawals from the new pipeline will harm Tumalo Creek.	Withdrawals from Bridge Creek (which flows into Tumalo Creek below Tumalo Falls) will not change.
The pipes are vastly oversized for the amount of water the city can take.	The pipe for the proposed project is sized to provide long-term operating safety and flow control.
Bend's project will prevent restoration of Tumalo Creek.	Tumalo Irrigation District has plans to maintain instream flows AND allow Bend's use of this high-quality protected source.
The project is bad for business.	A reliable, diverse, high-quality water supply is vital to Bend's economic future.
The project will cost close to \$68 million.	The total cost is around \$24 million and Bend has already increased water rates to cover the cost of the pipeline project.
In the future, most of Bend's water will come from groundwater wells.	Bend will always benefit from two sources. Bridge Creek will continue to supply a substantial percentage of annual use — AND help reduce Bend's carbon footprint, as no pumping is required.
The revised Forest Service Environmental Assessment (EA) varies little from the first.	The revised EA limits the City's water withdrawals to match what is withdrawn today, and requires extensive additional monitoring of stream flows, temperature, and fisheries in Tumalo Creek.

For more facts, visit www.bendoregon.gov/bridgecreekpipe



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Editorial: Good news for Bend's water safety

Published Feb 18, 2014 at 12:01AM

Lessons Learned

- Engage stakeholders early and often
- Check in with stakeholders continually – even when you don't hear from them
- Continue to re-evaluate for new stakeholders
- Educate policy makers (ongoing)
- Engage a CM/GC early in the project
- Invest in interagency communications
- Keep team and stakeholders updated
- Stay flexible and maintain positive attitude!





2014/03/18 14:51

1433m 0859hPa

ESE

44°01' 88"N 121°31' 21"NW

03.18.2014 14:51

Questions?



Education

City of Bend Water System



Great Water Since 1926

Get out and engage the public—
don't expect them to attend
meetings

