



**SE BEND SEPTIC TO SEWER
ADVISORY COMMITTEE MEETING**

TUESDAY, JUNE 20, 2017

**THANK YOU
AND
WELCOME**

COMMITTEE ASSIGNMENT



Present recommendations to Bend City Council **on fair and cost-effective solutions** to bring sewers to unsewered neighborhoods in Southeast.



INTRODUCTIONS



1. Your name
2. How long you have lived in Bend
3. Your favorite Bend area activity



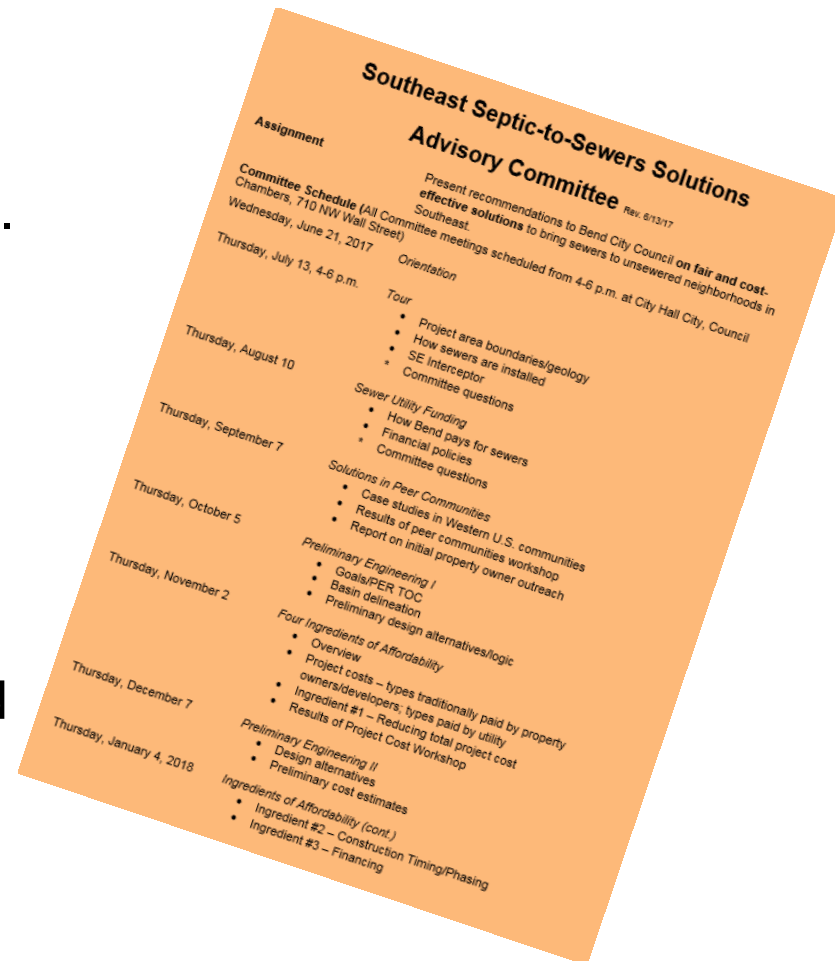


- Committee Schedule & Logistics
- Project History
- Advisory Group Q&A
- “Solution Set”
- Meaty Questions: *Ours and Yours*
- Advisory Group Discussion: *What is Your Vision of Success?*
- Public Comment

COMMITTEE SCHEDULE & LOGISTICS



- Attend monthly meetings (June 2017-August 2018)
- Read information provided / ask questions when clarification is needed.
- Offer views / recommendations based upon an understanding of the information presented.
- Share information with neighbors, friends, and interested community organizations.
- Provide recommendations to the Bend City Council.
- Committee requires Chair and Vice Chair (let Susanna know if you are interested—vote taken at August meeting)





- Bend sewers 101
- Septic systems
- Regulatory framework/DEQ
- What it all means

BEND'S WASTEWATER COLLECTION SYSTEM



- **430** miles of sewer mains
- **90** sewer pumping stations
- **246** home pumping stations
- System contains **4 different types** of collection infrastructure
- Collects **6.0 million gallons** per day

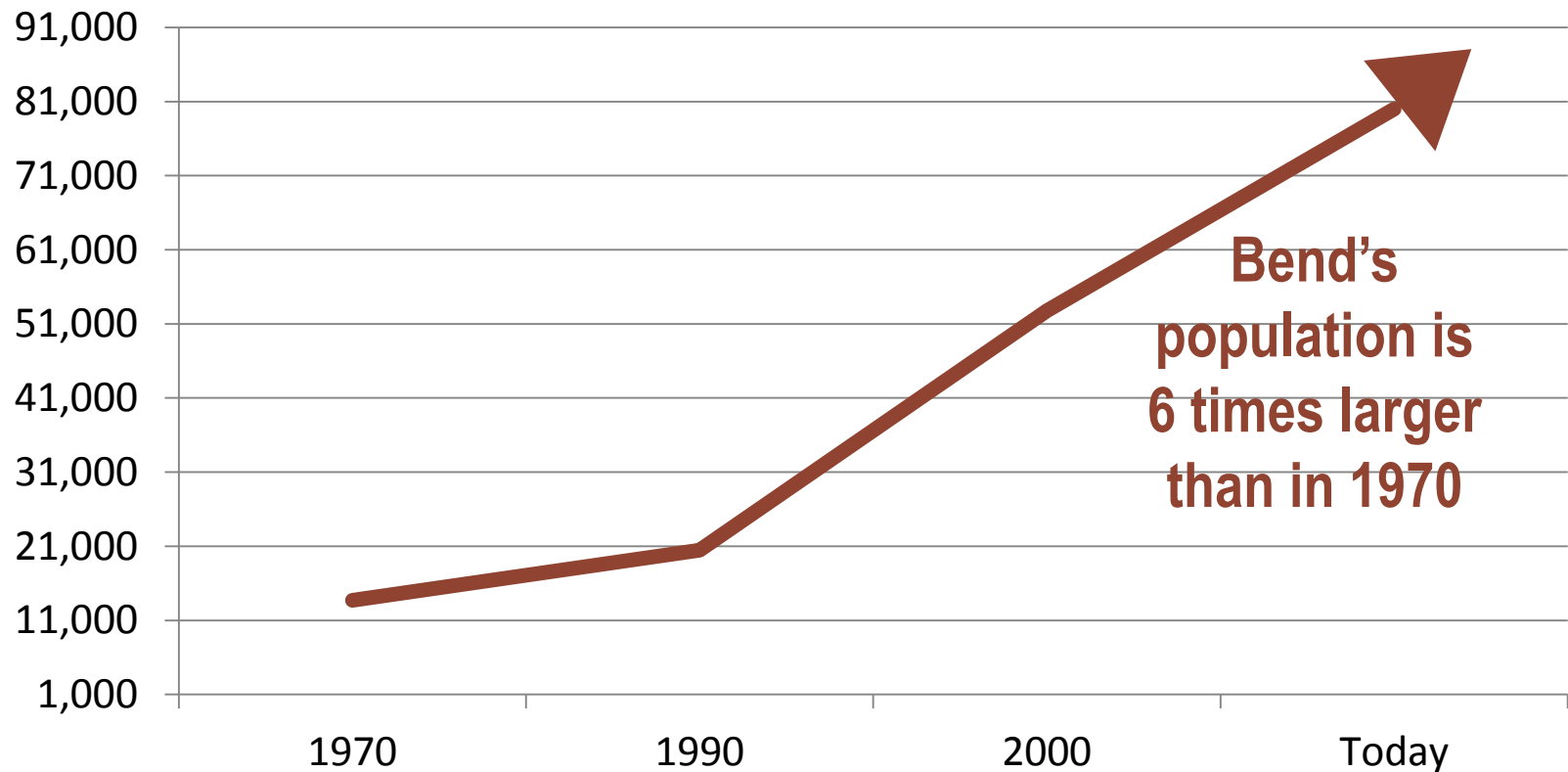


BEND IS GROWING RAPIDLY



Bend: 90K people and counting

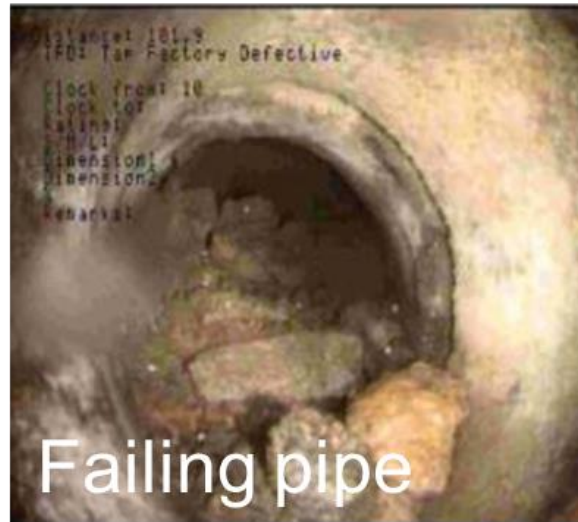
Census Bureau ranks Bend among nation's fastest growing cities



WHAT'S THE PROBLEM?



The system is cobbled together and near capacity.



Failing pipe



Sewer overflows



Bolted down manhole covers



Uncontrolled discharges to river

FLOW PROFILE OF CRITICAL MANHOLE



SCATTERGRAPH REPORT Bend_003157

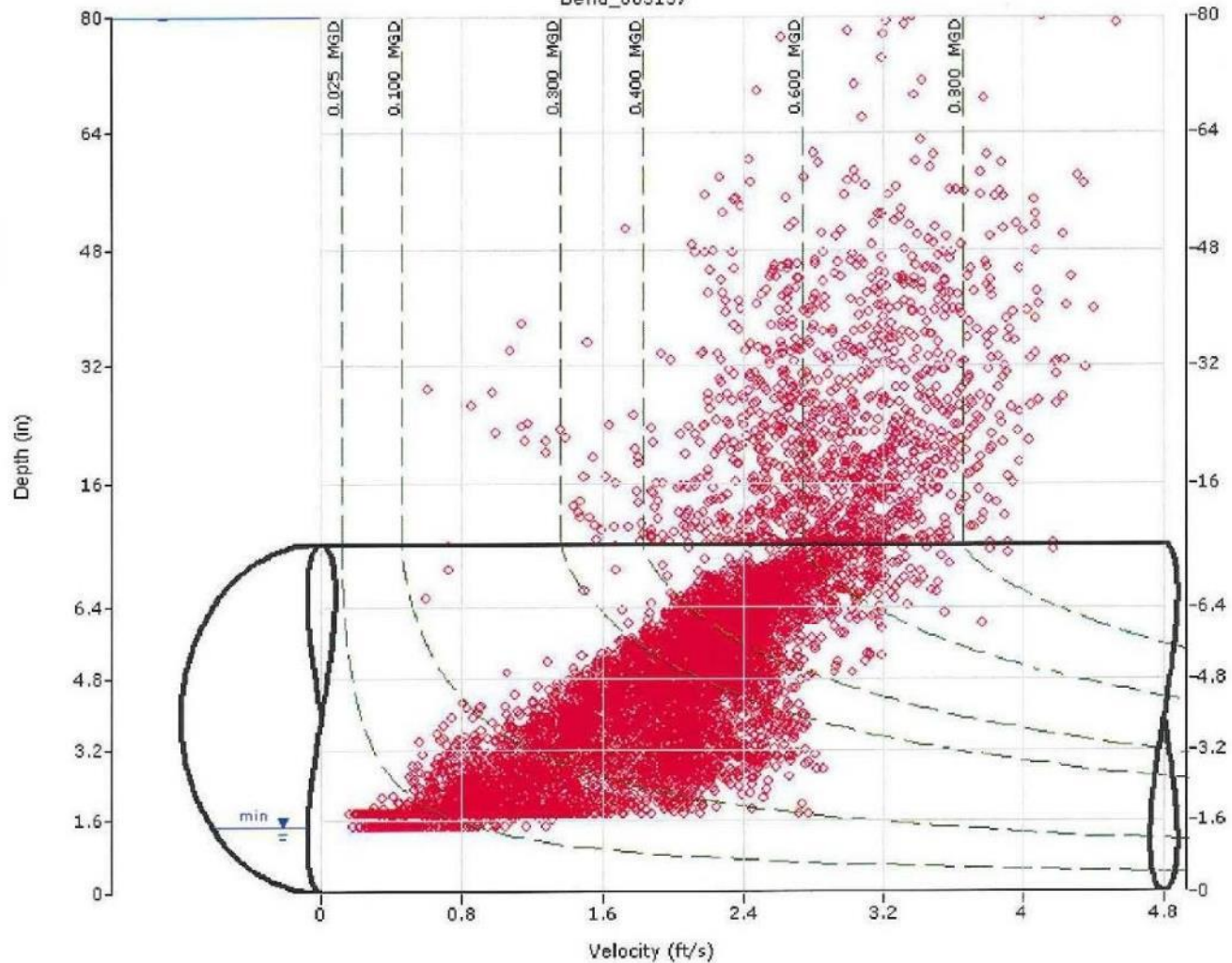
Flow Monitor
Bend_003157

Nominal Diameter
8-in

Report Period
4/9/2011
To
5/9/2011

Legend

- Depth - Velocity
- - - Iso-Q™
- - - Silt
- ▾ Min-Max Depth



ADS ENVIRONMENTAL SERVICES

COMMUNITY HELPS SOLVE THE PROBLEMS



- Sewer Infrastructure Advisory Group (SIAG):
 - 16-member citizen committee
 - Appointed by Bend City Council in 2012
 - Advised master planning
 - Over 1100 volunteer hours

Goal: Develop *affordable* collection system improvements for Bend — within the current Urban Growth Boundary.

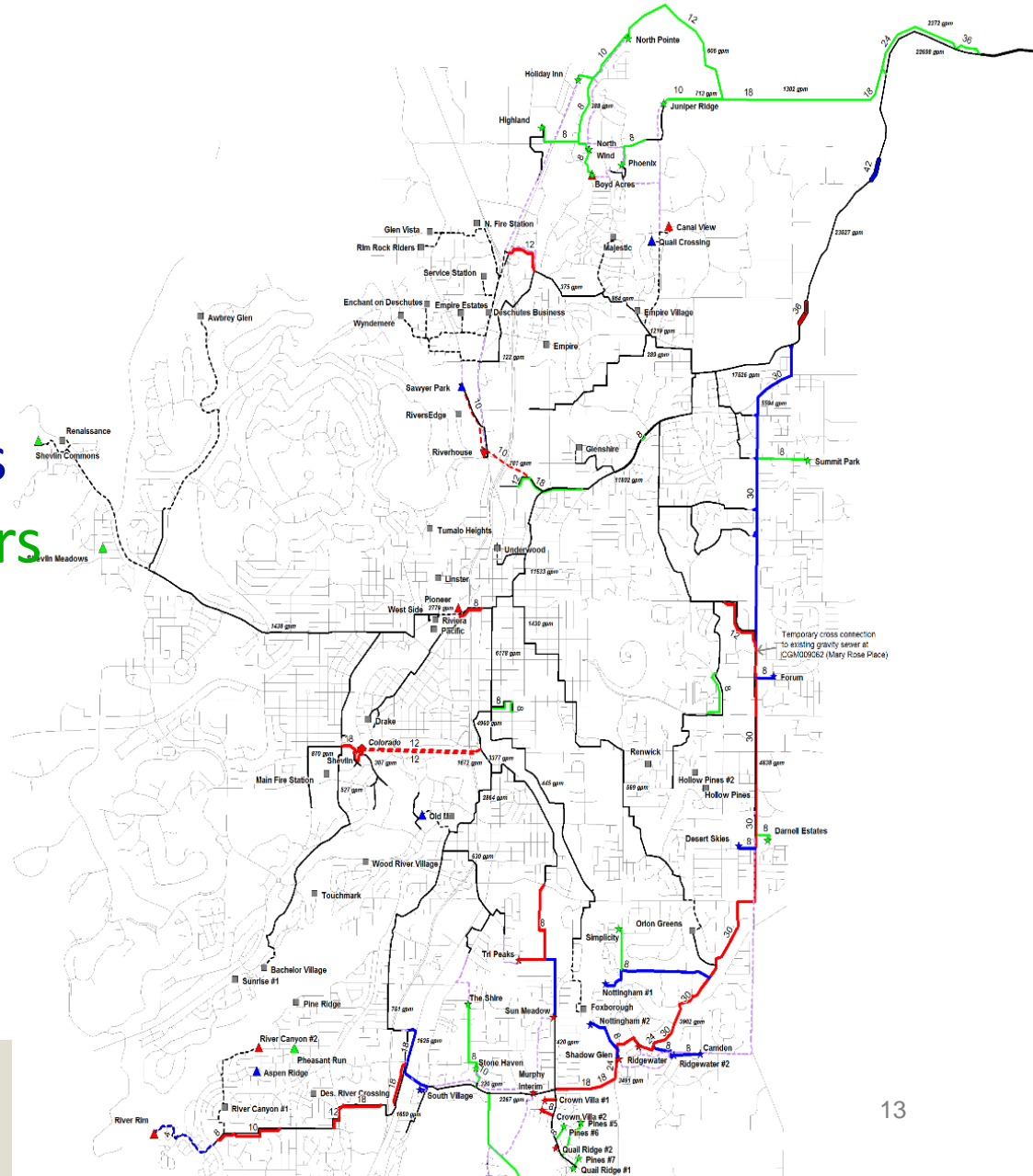


OPTIMIZED SOLUTION: 20-YEAR PHASING



SIAG Recommended Phasing December 2014

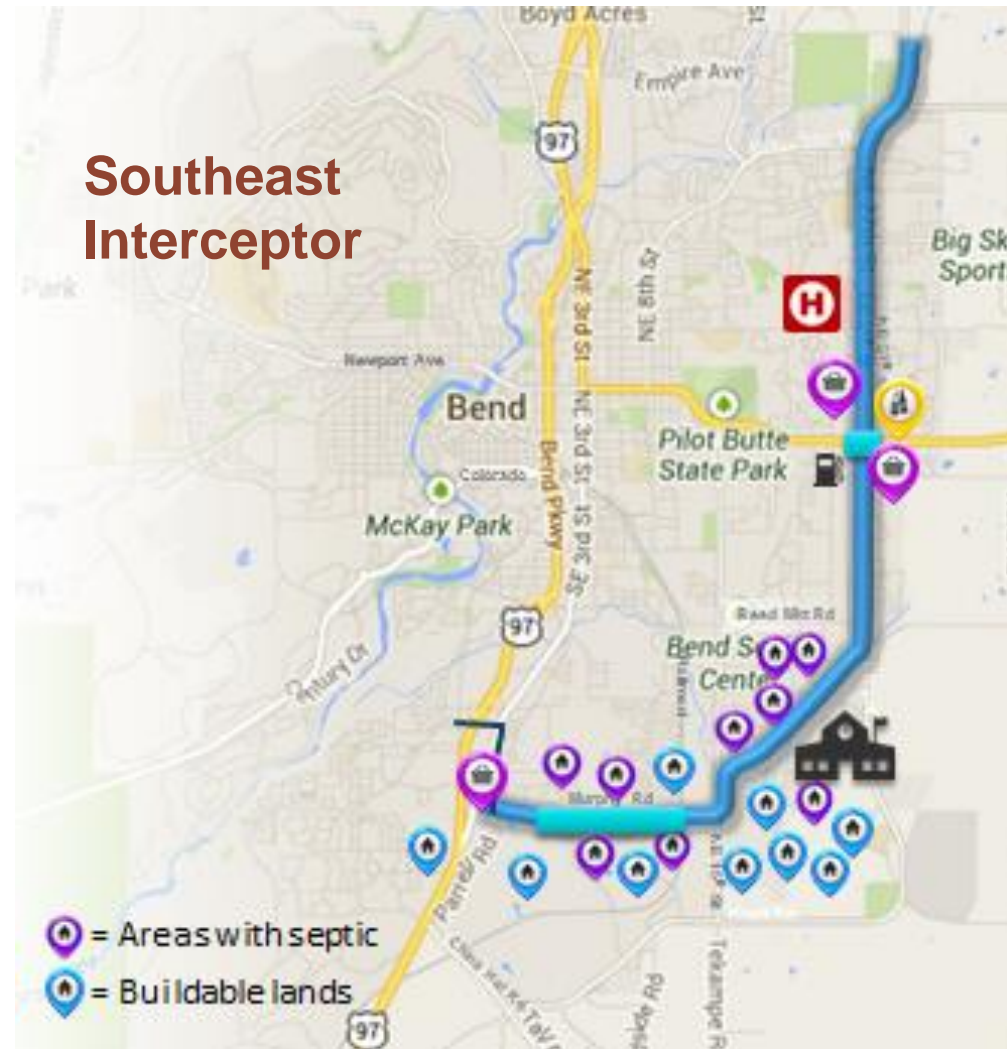
- Phase 1 – 1 to 5 years
- Phase 2 – 6 to 10 years
- Phase 3 – 11 to 20 years



THREE CRITICAL PROJECTS CONFIRMED FOR FIRST FIVE YEARS:



- **Southeast interceptor:** Linchpin for solving Bend's sewer problems (Under construction)
- **Colorado Lift Station:** Relieves Westside capacity issues (Complete)
- **North area capacity improvements:** Adds capacity to serve NE employment land (Under construction)



EXISTING SEWER POLICIES



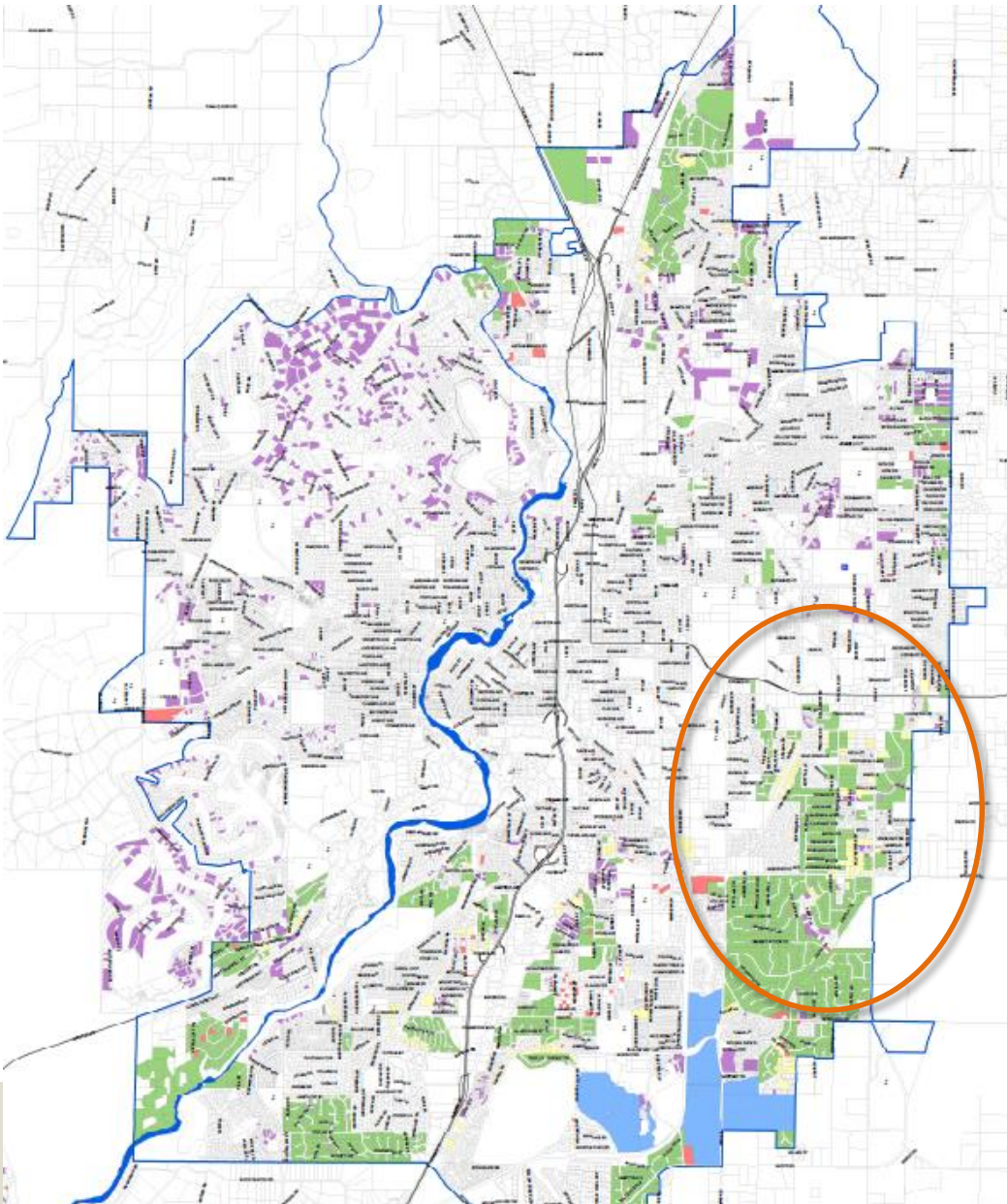
Bend Comprehensive Plan Chapter 8: Public Facilities and Services

Sewer Collection Facilities

8-3 To reduce the reliance on individual sewage disposal systems within the Urban Growth Boundary the city will work with unsewered neighborhoods to find solutions for sewer service.

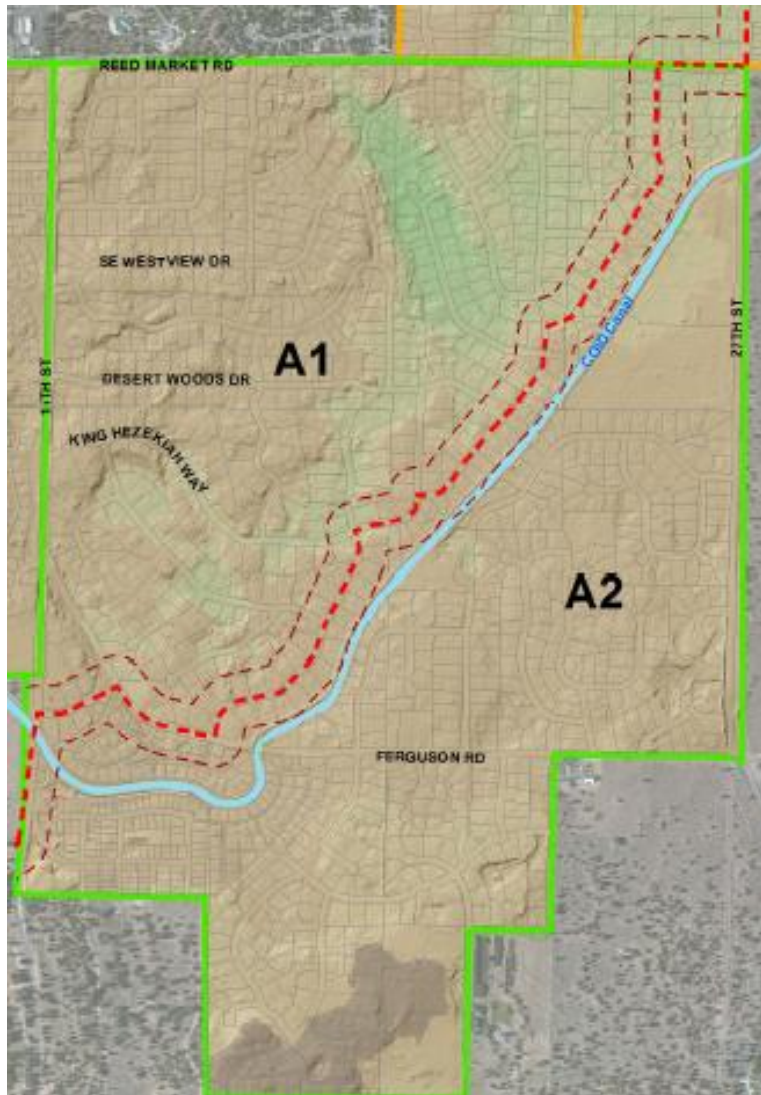
**SIAG recommended
policy and
collection of
\$1M/year to
proactively address
unsewered areas.**

SEPTIC SYSTEMS CITYWIDE



- Approximately 2,800 parcels
- Predominantly SE/South Bend

KINGS FOREST



- Annexed to the City in 1998
- Approximately 1,000 homes on septic installed in 1970s
- Street system a series of cul-de-sacs with varying grades

DEQ SEPTIC SYSTEM RULES



Dwellings /
businesses
within 300 feet
of a sewer with
capacity cannot
get a repair
permit.

*OAR 340-071-0160 (4) (l), a Construction, Installation, Alteration, and Repair Permit approval for a single family septic system must be **denied** by the State if there is the following condition:*

- *For a single family dwelling or other establishment with a maximum projected daily sewage flow not exceeding 899 gallons, the nearest sewerage connection point from the project to be served is within 300 ft.”*
- *Varies for multi-family.*

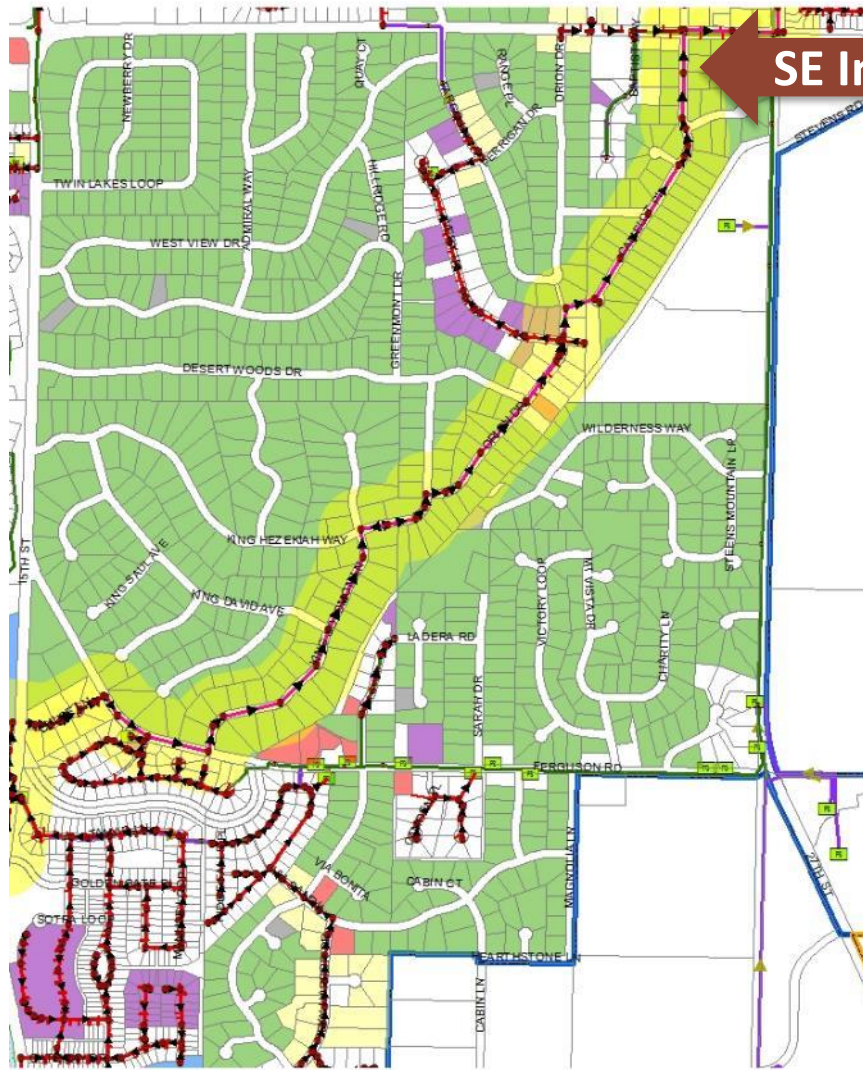


Bend Code 15.10.010 Use of Public Sewers Required

A. Except for properties to which City sewer service is not available, no person shall construct any new private sewage disposal system. Existing private sewage disposal systems may be used and maintained if connection to City service is not available or if continued connection is authorized under subsection (B) of this section. Any system not operated by the City is a private sewage disposal system.

B. Unless otherwise permitted by this section, all property used for human occupancy or employment within 300 feet of a public sanitary sewer with available capacity shall be hooked up to the sewer. The property shall be hooked up to the public sanitary sewer within 90 days after the date official notice is given to hook up, unless the City agrees in writing to extend the deadline. The City will agree to extend the deadline for connection if the property owner had constructed a private sewer system because of a lack of capacity in the City sewer system. The extension may not extend beyond 20 years from the date of construction of the private sewer system, and connection shall be required at any time that repairs are required to the private sewage disposal system. The hookup shall be accomplished in compliance with all applicable Federal, State and City laws, regulations and policies.

UNSEWERED PROPERTIES



SE Interceptor Alignment

- Yellow parcels are within 300 feet of sewer.
- Green parcels are on septic systems.
- About 129 households within 300 feet of the SE Interceptor

APPROACH TO REGULATIONS



- SE Interceptor triggers regulations
- City's and SIAG goal is to develop a community-wide solution instead of case-by-case.



BENEFITS TO A COORDINATED APPROACH



Coordinated	Property Owners Hook Up as Systems Fail
Payment options for residents allow payoff over a longer term.	More cost per household, and no ability for shared costs.
Property owners maximize economic value for their property.	Economic value limited by septic system risks.
Greater efficiencies: minimize connections to trunk lines; maximize public investment.	Property owners must figure out own piecemeal plans: easements, separate agreements, etc.
Promotes other goals-affordable housing, infill, UGB.	

ADVISORY GROUP

Q&A

“SOLUTION SET”



- Policy for connecting to sewer
- Conveyance alternatives
- Financing options
- Phasing

Committee Assignment:
Present recommendations to Bend City Council **on fair and cost-effective solutions** to bring sewers to unsewered neighborhoods in Southeast.



MEATY QUESTIONS: *OURS AND YOURS*



■ Ours:

- ✓ What are the financial solutions that best fit Bend and the neighborhoods?
- ✓ How do we build the system in the most economical way—including construction and ongoing maintenance?
- ✓ How can the solutions be applied to other unsewered areas?
- ✓ What are the leading benefits that drive sewerage SE Bend neighborhoods?
- ✓ What public values or principles should guide decisions?
- ✓ What portion of costs should be paid by property owners? By utility rate payers?
- ✓ How should Bend measure “cost effective” and “affordable” for property owners?

■ Yours?

- ✓ ...
- ✓ ...
- ✓ ...

***WHAT IS YOUR
VISION OF
SUCCESS?***

UPCOMING MEETINGS



July 13 4-6 p.m.

Tour Project Area

August 10 4-6 p.m.

Advisory Committee
Meeting: Sewer Utility
Funding

PUBLIC COMMENT



- 5 minutes
- Time divided among speakers
- Comment cards available



THANK YOU!