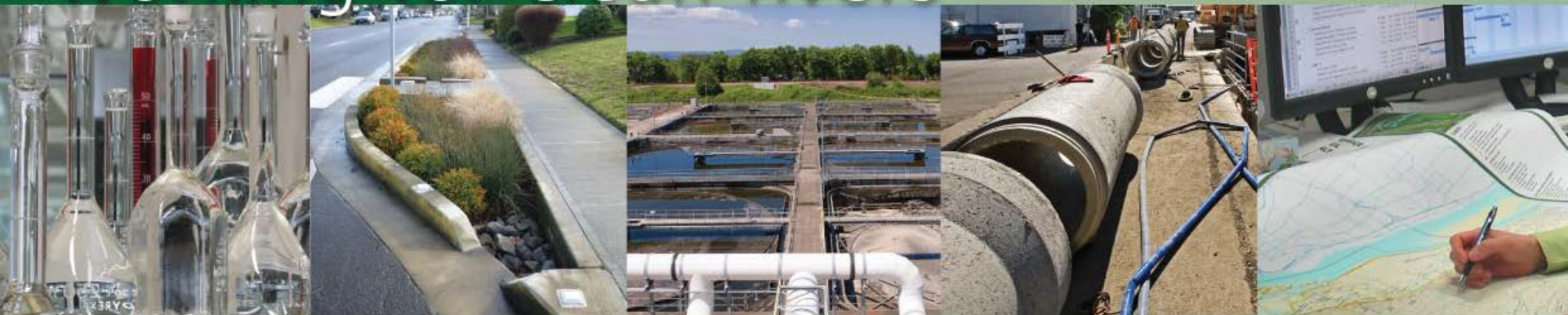


# working for clean rivers



## **Council Item #68** **Bybee Glenwood Culvert Replacement** **Project**

**Scott T. Gibson, P.E., Principal Engineer**

**Patty Nelson, P.E., Project Manager**

**Kaitlin Lovell, Science Integration Division**

**Bureau of Environmental Services**

January 20, 2016

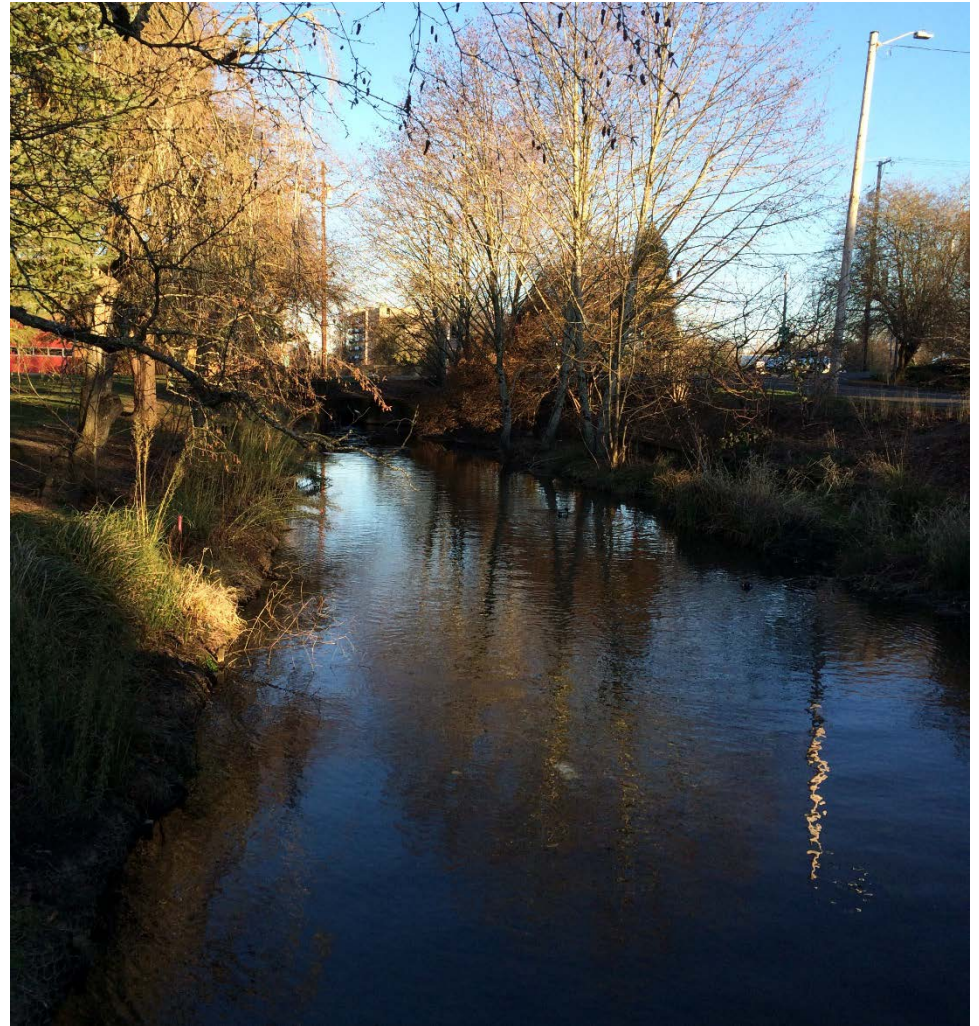


**ENVIRONMENTAL SERVICES**  
**CITY OF PORTLAND**

NICK FISH, COMMISSIONER  
MICHAEL JORDAN, DIRECTOR

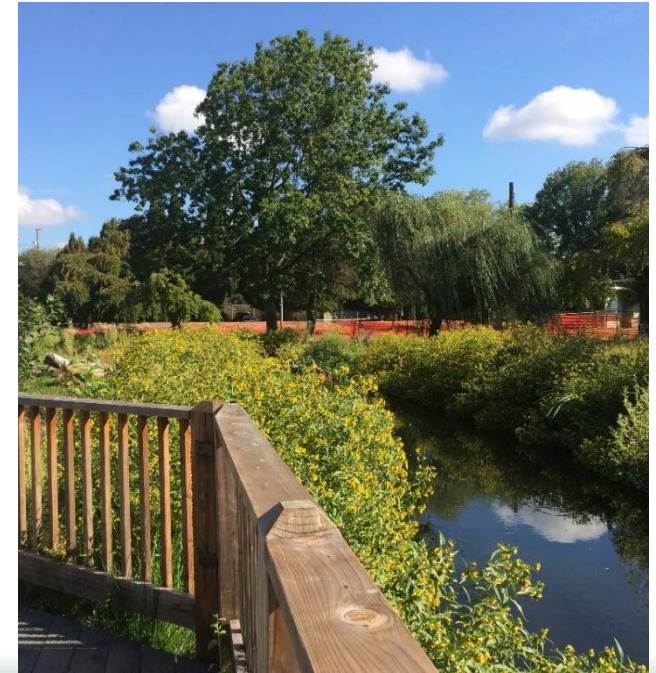
# Project Goals and Objectives

- Restore juvenile fish passage in Crystal Springs Creek
- Improve water quality
- Reduce flooding



# Background

- Part of a multi-year effort to restore fish passage and habitat along 2.7 miles of Crystal Springs Creek
- Replacement of the last two culverts restricting upstream passage of juvenile salmonids and restoration of over 400 linear feet of stream



# Project Location and Scope

## • Culvert Replacement

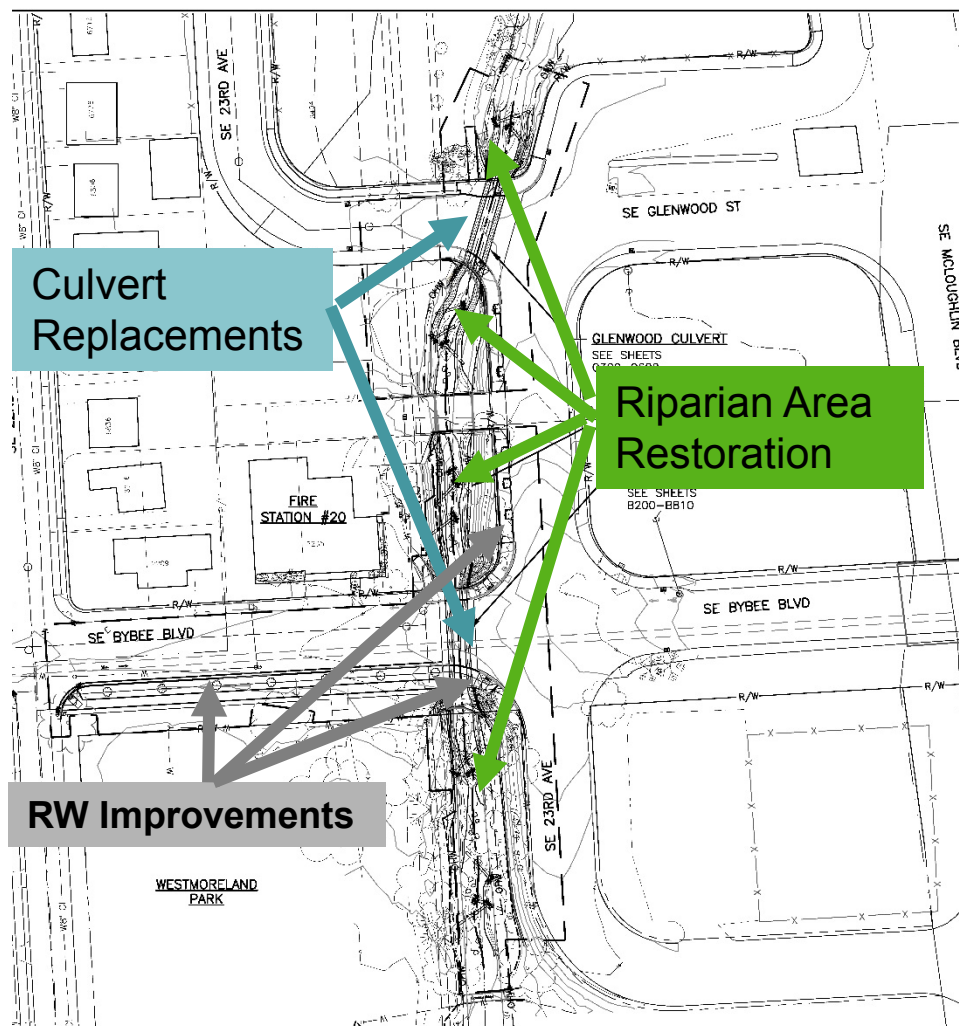
- Culver upsizing
- Crystal Springs Creek at Bybee and Glenwood

## • Riparian area restoration

- Fish habitat with low-flow benches, in-stream boulders, large wood
- Native vegetation along stream

## • RW Improvements

- **Frontage Improvement:** SE Bybee Blvd between SE 23<sup>rd</sup> and SE 22<sup>nd</sup> Avenue and SE 23<sup>rd</sup> between Bybee and Glenwood
- **Signal Improvements:** Replacement of signal poles on SE 23<sup>rd</sup> at Bybee



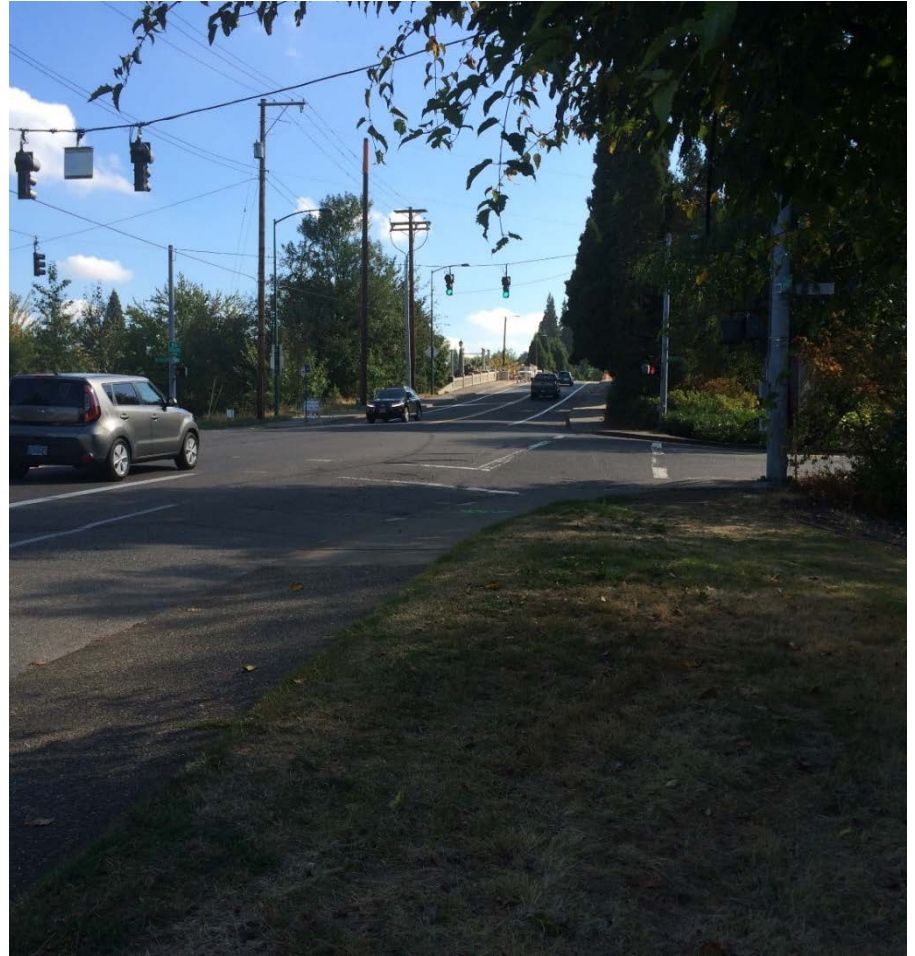
# Project Requirements

- Replace existing 4-foot diameter culverts with 14-foot box culverts at SE Bybee and SE Glenwood in Crystal Springs Creek



# Community Impacts & Involvement

- Temporary Traffic Control:
  - Maintain traffic on SE Bybee Blvd
  - Close SE Glenwood Street
- Upgrade sidewalks to new standards on SE 23<sup>rd</sup> and south side of SE Bybee Blvd
- Additional street trees
- Extensive outreach and coordination with property owners and neighborhood



# Project Budget and Schedule

- Advertisement early 2016
- Level of Confidence is High
- Purchasing Agent to report back to Council with lowest responsible bid
- Construction Scheduled:  
May 2016 – November 2016
- In-Stream Work: Limited to  
July 15<sup>th</sup> through August  
31<sup>st</sup>



# Questions

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# Thank you

