

Tualatin Valley Water District



Delivering the Best Water 💧 Service 💧 Value

Board Work Session Minutes

August 4, 2020

This meeting was held by phone and the internet.

WORK SESSION – 6:07 PM

CALL TO ORDER

Commissioners Present: Bernice Bagnall; Jim Doane, PE; Jim Duggan, PE; Todd Sanders; Dick Schmidt

Staff Present: Tom Hickmann, PE, Chief Executive Officer; Paul Matthews, Chief Financial Officer; Carrie Pak, PE, Chief Engineer; Dave Kraska, PE, Water Supply Program Director; Tim Boylan, IT Services Director; Andrea Watson, Communications and Public Affairs Supervisor; Debbie Carper, District Recorder

ANNOUNCEMENTS

Mr. Hickmann gave an update on the District's response to the COVID-19 pandemic, announced the rate virtual forum on August 25, provided further information on the July 16 water quality virtual summit and distributed an updated Board Communications Log (see attached memo).

In response to Board feedback, Mr. Hickmann said he will reach out to Senator Merkley to provide feedback on potential federal legislation that may prohibit water shutoffs following use of federal CARES Act funding.

Mr. Kraska gave the safety moment on working safely around bees and wasps.

1. DISCUSSION ITEMS

A. Willamette Water Supply System Commission Update. *Staff Report – Dave Kraska*

Mr. Kraska described the August Willamette Water Supply System Commission Board meeting agenda, reviewed the latest details from the Approvals and Procurement Forecast and updated the Board on recent Willamette Water Supply Program activities of note (see attached presentation).

B. Future Portland Regional Water Sales Agreement. *Staff Report – Paul Matthews*

Mr. Matthews highlighted the key concerns surrounding the District's notice of termination of the agreement, discussed regional water issues, outlined the District's goals for a future agreement and described the consultant-led approach, jointly developed principles and concepts the participating utilities are discussing (see attached presentation).

In response to Commissioner feedback and to provide greater context, staff said:

- Portland staff's potential interest in moving from using an agency's budget to some measure of actual operations and maintenance costs in future agreement pricing is likely based on a desire for simplicity.
- The Willamette Water Supply System (WWSS) will be a regional, resilient water source and is structured so that those who benefit from the system also contribute to the cost of it.
- In the 1970s, Metzger Water District constructed a pipe to convey water from Portland into the Metzger area and the Washington Square shopping center. The pipe included interconnections for the cities of Tigard and Beaverton. The line was jointly funded by Metzger Water District, the developers of the Washington Square shopping center and the cities of Tigard and Beaverton. After construction, the pipe was donated to the City of Portland. When the City of Tigard no longer accessed water from the pipe, there were water quality concerns related to reduced flow. TVWD staff is working on an agreement that would provide District ownership of the line to repurpose it for use within the District's distribution system and wheel water to City of Portland water customers along the pipeline route. The line would be available to provide WWSS water to the Metzger area. It would also provide the cities of Tigard and Beaverton with an interconnection point to the WWSS system and emergency water supplies. Staff from each agency has been working cooperatively to utilize the asset to regional benefit.
- The agencies participating in the discussion of a new regional agreement recognize the Washington County Supply Line was not built to the lateral force resistance standards that would enable the line to withstand a significant subduction zone earthquake.

ADJOURNMENT

There being no further business, President Bagnall adjourned the meeting at 7:31 p.m.

Bernice Bagnall, President

Todd Sanders, Secretary



MEMO

Date: August 4, 2020

To: TVWD Board of Commissioners

From: Tom Hickmann, CEO

Re: CEO Announcements

I will cover the following items during the CEO's Announcements at the work session:

1. **Be Sure to Use Microphones** – Just a reminder to please be sure to use your microphone whenever you are speaking during the work session this evening. Also, please be sure to turn off your microphone when you are not speaking.
2. **COVID-19 Update** – Tualatin Valley Water District (TVWD) continues to navigate and respond to challenges posed by the current pandemic. The Emergency Operations Center (EOC) remains committed to providing structure, educating staff and coordinating response efforts. I am pleased to announce that TVWD has been awarded \$236,715 in grant proceeds as part of the CARES Act funding from Washington County. These funds will reimburse the District for some of its COVID-19 response expenses. A huge thanks to our Finance team for pulling the information together so we could get this money to help offset our costs.
3. **Rate Virtual Forum** – TVWD will be hosting a rate virtual forum, Tuesday, August 25, from 12:00-1:30 p.m., to discuss the upcoming rate increase. A presentation will be followed by a question-and-answer session. The Board and public are encouraged to participate. Registration information will be available on TVWD's website in the near future.
4. **Water Quality Virtual Summit Update** – The Water Quality Virtual Summit was held Thursday, July 16. Fifty people participated in this event using Microsoft Teams, exceeding our goal of 20 participants. As of July 30, 17 participants responded to the post-event survey expressing high satisfaction with the entire event and the format. Future event topics were tested with the top five being: Willamette Water Supply Program (14 votes), Water Distribution: Source to Tap (11 votes) and with nine votes each for Source Water Protection, Emergency Preparation/System Resilience and Emerging Technology in Water Industry. This event was made possible by collaboration with Joel Cary, Water Resources Division Manager, and Tim Boylan, IT Services Director.

5. **Board Communications Log** – There were two updates to the Board communications log this month. Topics included enforcement orders on wildlife habitat protection pertinent to Willamette Water Supply System projects and microplastics. Please see the attached for details.
6. **Safety Minute** – Dave Kraska, Willamette Water Supply Program Director, will present tonight's safety minute.

2020 Board Communications Log

Commissioner Questions/Topics: (includes research requests directed to staff via email or at Board meeting)

- Initial request sent to Tom (copy Board President)
- Tom responds with projected timeframe for response and any other logistical info
- Answer shared with the full Board during work sessions

Item Number	Requestor	Subject	Date Submitted	Response Date	Date Information Shared with Full Board
01-20	Sanders	Customers qualifying for Customer Emergency Assistance Fund	April 15	May 5	May 19
02-20	Doane	Enforcement orders on wildlife habitat protection re: WWSS projects	June 6	June 15	August 4
03-20	Doane	Microplastics regulations	July 27	July 28	August 4

Board Committee Information:

- Meeting notes/handouts shared with the full Board during work sessions

Meeting Date	Notes	Date Information Shared with the Full Board
Finance Committee		
March 17	Meeting synopsis prepared by Debbie Carper	April 7
March 24	Meeting synopsis prepared by Debbie Carper	April 7
Policy and Board Development Committee		
Strategic Planning Committee		
Water Supply Committee		

Debbie Carper

From: Tom Hickmann
Sent: Monday, June 15, 2020 7:38 AM
To: Jim Doane
Cc: Debbie Carper; Bernice Bagnall; Jim Duggan; Clark Balfour; David Kraska
Subject: FW: LCDC Ruling on Wildlife Habitat Areas

Good Morning Jim,

Below is the email response from Joelle Bennett regarding your question on this recent ruling regarding wildlife habitat areas. If you have further questions we are happy to answer them.

From: Joelle Bennett
Sent: Thursday, June 11, 2020 1:27 PM
To: Tom Hickmann
Cc: David Kraska
Subject: RE: LCDC Ruling on Wildlife Habitat Areas

Tom,
 Thanks for forwarding on Commissioner Doan's question about the May 22nd Oregon Land Conservation and Development Commission vote to issue an enforcement order (including an injunction) on Washington County regarding wildlife habitat protection.

WWSP staff have reviewed the final order and interpret that the order applies only to applications that include residential housing development. Since WWSP applications do not include housing, our applications can continue to be approved by the County.

We have successfully verified this interpretation with the County's senior planning staff. WWSP staff will monitor the related County updates to the Significant Natural Resource Areas code to identify changes that could affect non-residential development in the future.

Please let me know if you would like additional details on this topic.

Thank you!

Joelle

Joelle Bennett, PE

Assistant Program Director

Willamette Water Supply Program

cell 503.349.7236

desk 503.941.4577

www.OurReliableWater.org



From: David Kraska
Sent: Monday, June 8, 2020 7:14 AM

To: Tom Hickmann; [Joelle Bennett](#)

Subject: RE: LCDC Ruling on Wildlife Habitat Areas

We'll get back to you on this, Tom, as soon as we can.

Dave

From: Tom Hickmann

Sent: Saturday, June 6, 2020 8:07 PM

To: David Kraska; [Joelle Bennett](#)

Subject: Fwd: LCDC Ruling on Wildlife Habitat Areas

Can you let me know if this will have any impact on the WWSP?

Thanks

Get [Outlook for iOS](#)

From: Jim Doane

Sent: Saturday, June 6, 2020 8:02:25 PM

To: Tom Hickmann

Cc: Jim Duggan; [Bernice Bagnall](#); [David Kraska](#)

Subject: LCDC Ruling on Wildlife Habitat Areas

Tom,

Is this going slow the WWSS down?

In it's meeting on Friday, May 22, 2020, Oregon Land Conservation and Development Commission voted 6-0 to adopt the Hearings Officer recommendation to issue an enforcement order. The Commission also went a step further and voted to impose an injunction on the County, prohibiting it from processing applications for developments in designated "Wildlife Habitat" until it came into compliance with state law by adopting new and enforceable regulations. The Enforcement Order was issued on June 2, 2020. Under the Commission's order, the County has until May 1, 2021 to come into compliance. In the meantime, Ms. Warren and others who have been actively involved in legal

challenges to the development of SNRs in Washington County hope to work with the County in crafting the new ordinances to ensure that what remains of these sensitive Wildlife Habitat areas will be given meaningful protections.

Jim Doane

Sent from [Mail](#) for Windows 10

From: Joel Cary
Sent: Tuesday, July 28, 2020 9:30 AM
To: Jim Doane
Cc: Carrie Pak
Subject: RE: Microplastics

Hi Commissioner Doane,

There are currently no federal regulations for microplastics in drinking water or waste water effluent.

The closest is California, which began the process in 2018. The first step was defining what constitutes a microplastic particle. Sounds kind of dull but it's actually really fascinating – and a little alarming – given the scope of plastic particulate found in the environment (e.g., more particles can be found at the immediate surface of a water body when collecting samples). This was just completed June 3. Finally, by July 1, 2021, California must adopt test methodology for microplastics in drinking water, adopt requirements for four years of testing and reporting on microplastics in drinking water, and develop accreditation requirements for laboratories to analyze microplastics.

I mention all this because California often leads the way for federal action, so this might give us a rough sense of an overall regulatory timeline depending on what widespread testing reveals. I have not heard of any consideration by Oregon to do the same.

Let me know if you'd like more details on this issue at any point. Thanks! -Joel

From: Jim Doane
Sent: Monday, July 27, 2020 6:42 PM
To: Joel Cary
Cc: Jim Doane; Carrie Pak
Subject: Microplastics

Joel,

Are there regulations about microplastics in drinking water and effluent discharge.

Jim Doane

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Willamette Water Supply Commission Update
TVWD Board Work Session

August 4, 2020

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Outline

Review August WWSS Commission Board Meeting Agenda → Review Approvals and Procurements Forecast → Update on WWSP Activities

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REVIEW AUGUST WWSS COMMISSION BOARD MEETING AGENDA

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Willamette Water Supply System August 6, 2020 Board Meeting Agenda

1. General Manager's Report
2. Public Comment
3. Consent Agenda
 - A. July 2, 2020 meeting minutes
4. Business Agenda
 - A. Adopt PLM_5.3 Supplemental Resolution of Public Necessity
 - B. Adopt PLW_2.0 Resolution of Public Necessity
 - C. Approve MPE_1.0/COB_1.0 Delivery Phasing and Design Contract Amendment
 - D. Approve COB_1.0 Design IGA Amendment 1 to add a City of Beaverton Hall Boulevard 16-inch Pipeline
 - E. Acting as Local Contract Review Board: Approve Public Notice of Findings for the Use of Alternative Contracting Methods for Construction of a Phase of MPE_1.0/COB_1.0
5. Information Items
 - A. Planned July Business Agenda items

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REVIEW APPROVALS AND PROCUREMENTS FORECAST

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Approvals and Procurement Forecast for July 2020 – September 2020

Program Baseline or Related Plans

Description	Program Director	WWSS Management Committee	WWSS Commission Board
Divide MPE_1.0 / COB_1.0 into Work Packages	NA	7/23/2020	8/6/2020

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Approvals and Procurement Forecast for July 2020 – September 2020

Real Estate

Description	Program Director	WWSS Management Committee	WWSS Commission Board
PLM_5.3 Resolution of Need (supplemental)	NA	7/23/2020	8/6/2020
PLW_2.0 Resolution of Need	NA	7/23/2020	8/6/2020

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Approvals and Procurement Forecast for July 2020 – September 2020

IGAs, MOUs, Permit Commitments

Washington County Land Use & Trans.

- PLW_1.2 Design IGA Amendment
 - Awaiting final execution from Washington County

WWSS IGA Exhibit 1 Amendments

- Completed in June and July

City of Wilsonville IGA for WRWTP Filtration Pilot Study Participation

- Cost sharing in filtration study to support design filter loading rates (September)

City of Beaverton

- COB_1.0 Design IGA Amendment 1 (August)
- MPE_1.0/COB Construction IGA for Construction of S.W. Nimbus/Scholl's Ferry to S.W. Beaverton-Hillsdale Highway (September)

PLW_2.0 Metro Letter of Understanding

- Establish agreement regarding the requirements for our easement through the Orenco Woods Nature Park (September)

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Approvals and Procurement Forecast for July 2020 – September 2020

Contracts

Title	Goal	Value	Key Dates
RES_1.0 and PLM_5.3 Project Construction Manager/General Contractor (CM/GC)	Procure CM/GC for RES_1.0 / PLM_5.3 combined project	~\$134M	Publish RFP: 9/2/2020 WWSS Board Approval: 12/3/2020 Notice to Proceed: 12/4/2020

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Approvals and Procurement Forecast for July 2020 – September 2020

Contract Amendments and Change Orders*

Title	Goal	Value	Key Dates
MPE_1.0/COB_1.0 Design Contract Amendment for Project Work Packages (phases)	Amend contract for design services and engineering services during construction to accommodate project delivery in three phases	\$1.998M	7/23/2020 approval by WWSS MC 8/6/2020 approval by WWSS Board
PLM_1.0 Design Contract Amendment for Completing PLM_1.3 Design and PLM_1.1 Construction Services	Amend contract for design services and engineering services during construction to accommodate PLM_1.3 design changes and PLM_1.1 additional construction meetings	\$TBD	8/20/2020 approval by WWSS MC 9/3/2020 approval by WWSS Board
MPE_1.0/COB_1.0 Design Contract Amendment to add a City of Beaverton Hall Boulevard 16-inch pipeline to COB_1.0	Amend contract for design services and engineering services during construction to accommodate additional pipeline	\$TBD	8/20/2020 approval by WWSS MC 9/3/2020 approval by WWSS Board

*having values higher than the Program Director's authority

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Approvals and Procurement Forecast for July 2020 – September 2020

Local Contract Review Board Rule Exemption

Title	WWSS Management Committee Approval	WWSS Board Informational Item	WWSS Board Consider Approval
Findings for Exemption from Competitive Bidding for RES_1.0 and PLM_5.3	4/23/2020	5/7/2020	7/2/2020
Findings for the Use of Alternative Contracting Methods for Construction of a Phase of MPE_1.0/COB_1.0	7/23/2020	8/6/2020	10/1/2020

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UPDATE ON WWSP ACTIVITIES

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Project Delivery Progress

Work Package	Design					Construction
	Conceptual/ Preliminary	30%/50%	60%/70%	90%	100%	
RWF_1.0	[Complete]					★ Mobilized
PLM_1.1	[Complete]					★ Started pipe
PLM_1.2	[Complete]					
PLM_1.3	[Complete]					★ Completed 60% design
PLM_2.0	[Complete]					
PLM_3.0	[Complete]					
WTP_1.0	[Complete]					
PLM_4.1	[Complete]					
PLM_4.2	[Complete]					
PLM_4.3	[Complete]					
PLM_4.4	[Complete]					
PLM_5.1	[Complete]					
PLM_5.2	[Complete]					★ Finished pipe
PLM_5.3	[Complete]					
RES_1.0	[Complete]					★ Held CM/GC pre-RFP meetings
PLW_1.1	[Complete]					
PLW_1.1 ext	[Complete]					
PLW_1.2	[Complete]					
PLW_1.3	[Complete]					
PLW_2.0	[Complete]					
MPE_1.0	[Complete]					

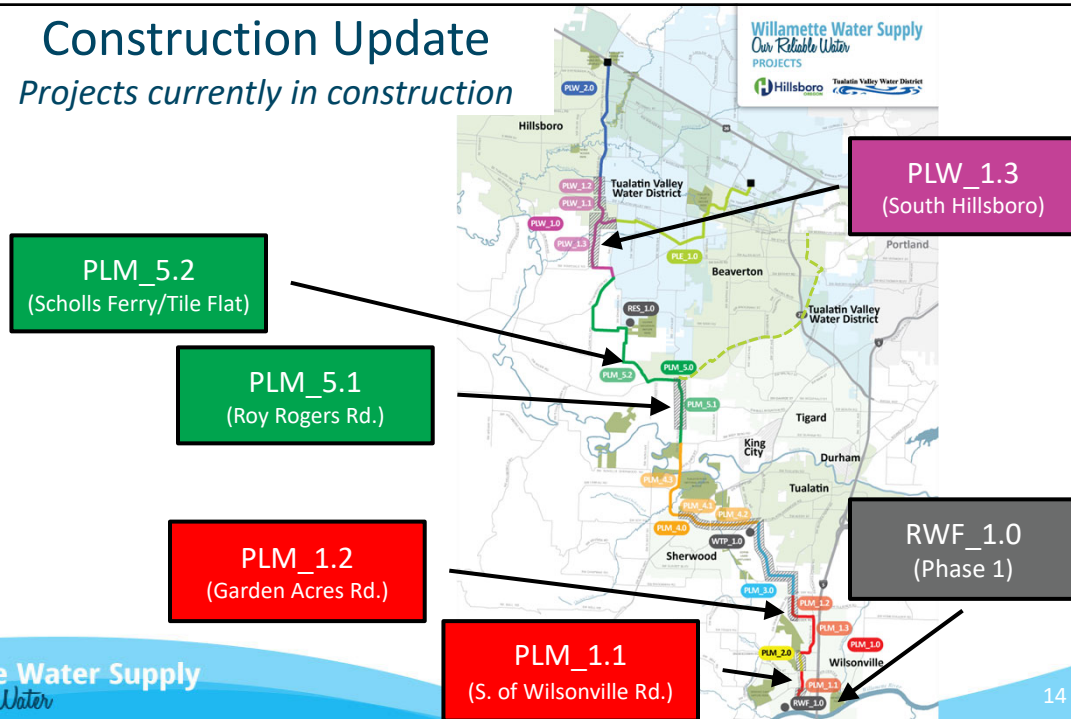
Complete
 Active Work

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Construction Update

Projects currently in construction



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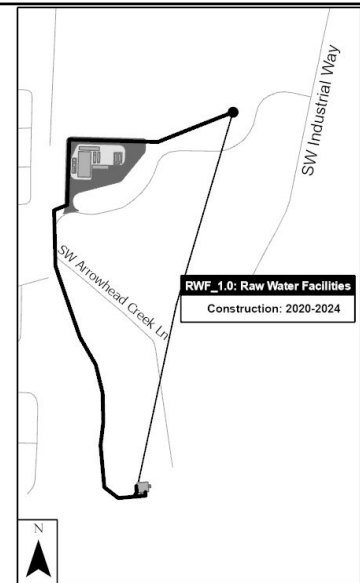
RWF_1.0

Contractor: Kiewit Infrastructure West Co.

Designer: Black & Veatch

Current and Planned Activities:

- Pre-construction photos and video complete
- Complete tree protection fencing, erosion control measures and worksite boundary fencing
- Begin tree clearing and upper site clear and grub
- Begin upper site mass excavation
- Mobilization and setup of field trailers, truck scales and temporary utilities



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Construction Photos – RWF_1.0

Upper site mass excavation,
office trailer complex,
looking east



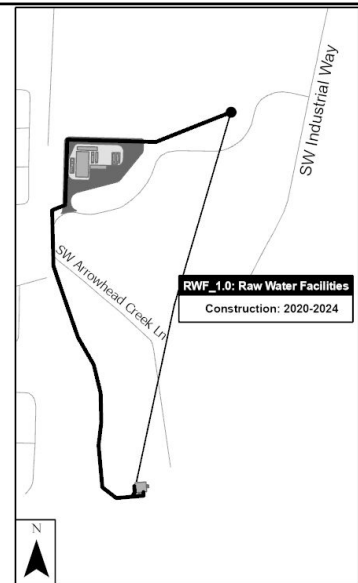
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RWF_1.0 Notable Topics

- External Coordination
 - Coord w/Wilsonville GAC Replacement Project
 - Coord w/PLM_1.1 Industrial Way Road Crossing
- Potential Claims
 - None
- Delivery Challenges
 - None



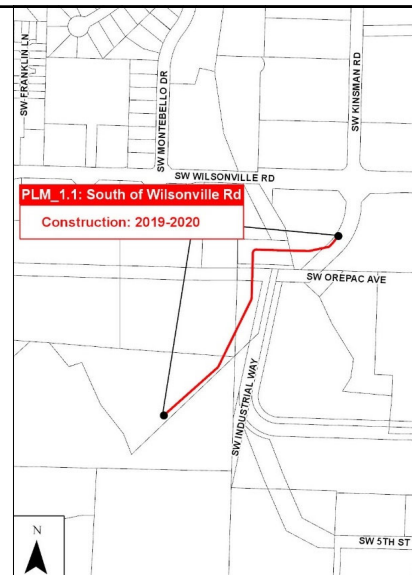
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PLM_1.1

Contractor: James W. Fowler Co.
Designer: HDR

Current and Planned Activities:

- Began crossing of Coffee Lake Creek
- Planning and preparation for major under crossings of existing 63" waterline and 30" sewer
- 265 LF of pipe remaining to be installed. All pipe on site.
- Trench area restoration on private property



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Construction Photos – PLM_1.1

PLM_1.1 alignment
looking NE



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Construction Photos – PLM_1.1

Coffee Lake Creek
crossing diversion
installed



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Construction Photos – PLM_1.1

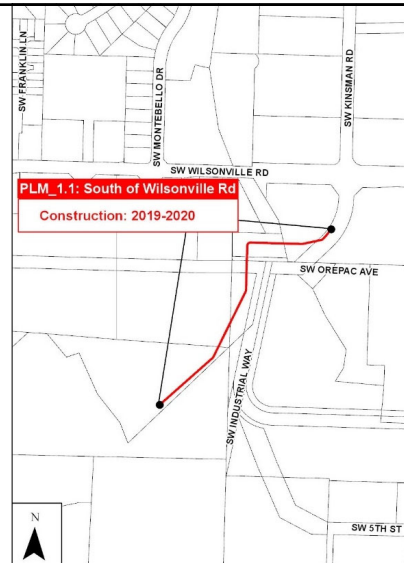
Finish grade cleanup and
topsoil replacement work



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PLM_1.1 Notable Topics

- External Coordination
 - Upcoming coordination with City of Wilsonville for roadway re-paving of Kinsman Rd
 - Upcoming traffic coordination with Kiewit when RWF_1.0 site work begins
- Potential Claims
 - None
- Delivery Challenges
 - None



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PLM_1.2

Partner: City of Wilsonville
 Contractor: Moore Excavation Inc.
 Designer: HDR

Current and Planned Activities:

- Completed tree removal, grubbing and setup of Day Rd. staging area for trenchless crossing.
- Began Ridder Rd. closure and completed AC removal.
- Excavated trenchless crossing jacking shaft for tunneling work starting mid July.
- Began open cut pipe installation. 150 LF of WWSP pipe installed to date.



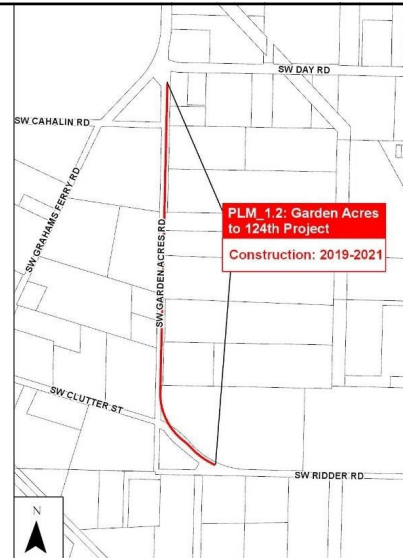
Construction Photos – PLM_1.2

Installation of 66-in pipe starting with segment MK-1 on Ridder Rd.



PLM_1.2 Notable Topics

- Partner Coordination
 - Ongoing coordination with City of Wilsonville
- Potential Claims
 - None
- Delivery Challenges
 - None



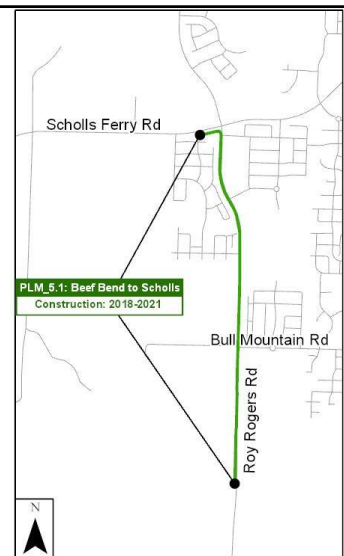
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PLM_5.1

Partner: Washington Co.
Contractor: Tapani, Inc.
(Moore Excavation Inc. – Waterline Sub)
Designer: Jacobs

Current and Planned Activities:

- Open cut pipe installation continuing along Roy Rogers Rd. north towards Scholls Ferry Rd.
- Utility relocation for open cut pipe installation is ongoing
- Total of 2,100 LF now completed



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Commissioner Doane's question from the June meeting

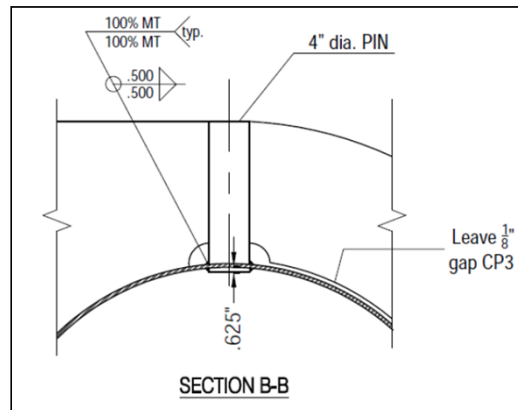
Why is there a hole between the crotch plate and the pipe?



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- Hole is for constructability and proper testing of the welds.
- The pin to the pipe involves fillet welds, while plates to the pipe and pin involve full penetration groove welds.
- Ultrasonic testing required with the plate to pin connection, x-ray testing for plates to pipe connection and magnetic particle testing for pin to the pipe connection.

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Construction Photos – PLM_5.1

Open cut pipe installation under existing water and gas utilities along Roy Rogers Road



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Construction Photos – PLM_5.1

New traffic control and pipe staging along Scholls Ferry Road

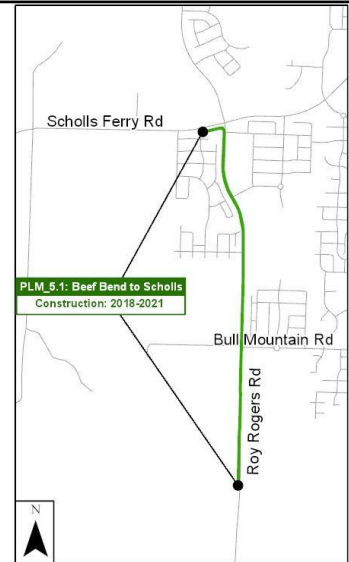


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PLM_5.1 Notable Topics

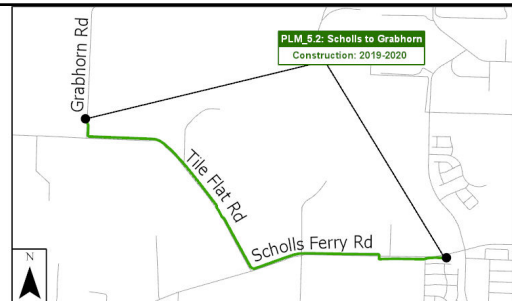
- Partner Coordination
 - Developer relocation of utilities ongoing on Roy Rogers Rd.
 - Developer road construction on Friendly Lane
 - Pedestrian routing around construction at Roy Rogers/Scholls Ferry intersection fully implemented.
- Potential Claims
 - None
- Delivery Challenges
 - Developer coordination and PGE Utility Relocation



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PLM_5.2

Contractor: Emery & Sons
Designer: Jacobs



Current and Planned Activities:

- 9,914 LF of pipe installed, welded and backfilled (100% complete)
- Continue ARV installations on Scholls Ferry Rd.
- Continue cathodic protection and locate station installations
- Continue property restoration
- Grabhorn Rd. 30-day closure re-opened on June 29th
- Satsuma Rd. 28 day-closure implemented on June 22nd

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Construction Photos – PLM_5.2

Final stick of pipe installed



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PLM_5.2 Notable Topics

- External Coordination
 - No issues
- Potential Claims
 - None
- Delivery Challenges
 - None



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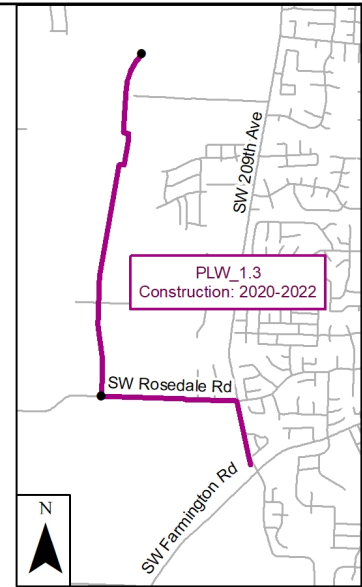
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PLW_1.3

Contractor: Tapani, Inc.
Designer: Kennedy/Jenks

Current and Planned Activities:

- Preconstruction meeting held on June 30, 2020
- Preconstruction walk including site video and photographs conducted on July 9, 2020
- Submittals ongoing
- Mobilization expected in August 2020



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Construction Photos – PLW_1.3

Preconstruction
video/photo – SW
Rosedale Road



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Construction Photos – PLW_1.3

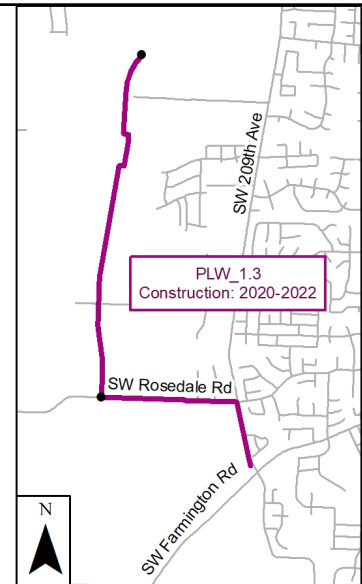
Preconstruction
video/photo – Staging
Area



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PLW_1.3 Notable Topics

- External Coordination
 - Land Developers for Reeds Crossing and Butternut Creek Development
- Potential Claims
 - None
- Delivery Challenges
 - None



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QUESTIONS

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Future of TVWD/Portland Regional Water Sales Agreement
August 4, 2020 Board Work Session

Paul L. Matthews
Chief Financial Officer

Tualatin Valley Water District
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Issues for Tonight's Presentation

Key Concerns

- TVWD needs to provide Portland notice of termination of its contract
- Regional partners are concerned about the impact TVWD's departure will have on both costs and water quality
- Staff has been working with regional partners to identify options for a future regional agreement
- Future plans for the maintenance and operation of the Washington County Supply Line need to be developed

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Portland Regional Water Supplies



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Why is TVWD Committed to a Future Agreement

Goals for Future Agreement

- Resiliency of the regional water supply system
- Equitable funding of investments in regional resiliency
- Disposition of the Washington County Supply Line
- Opportunity to sell, buy, trade and exchange water in the regional system on an emergency and regular basis

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Developing a Future Agreement

General Approach

- Assembled staff from key agencies
- Staff developed principles and outcomes
- Retained consultant to prepare report
- Staff evaluated options
- Consultants prepared report of finding

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Participating Utilities

Wholesale Customers

- West Slope Water District
- Tualatin Valley Water District
- City of Gresham
- Rockwood Water People's Utility District
- City of Tualatin

Portland staff invited to participate

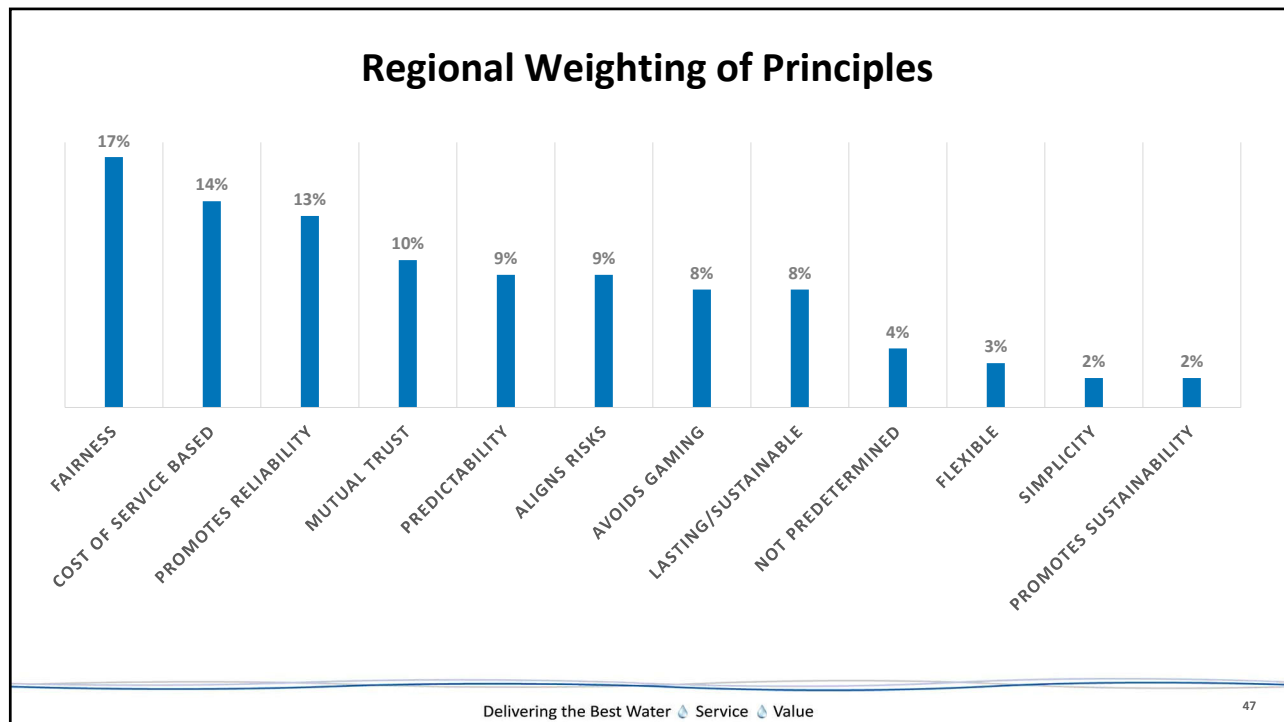
- Bureau Administrator
- Finance Director

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Jointly Developed "Principles"

- Simple
- Predictable costs/revenues
- Promotes mutual trust among the parties
- Avoids gaming the contract provisions
- Based on fairness to Portland and among purchasers
- Lasting and sustainable
- Not based on predetermined outcomes
- Flexible
- Aligns risk appropriately
- Based on cost-of-service principles
- Promotes reliability of service to customers
- Promotes sustainable natural resources

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Concepts Under Consideration

- Eliminating the Guaranteed Purchase
- Eliminating process of nominating demands and peaking factors
- Eliminating interruptible supply
- Introducing option for emergency supply
- Simplifying cost pools
- Consolidating small wholesale customers into similar classes
- Revising term of agreement and exit provisions
- Moving from budget to some measure of actual for O&M costs
- Eliminating O&M cost cap
- Solving the first-year return on investment challenge
- Considering “Augmented Storage Service”
- Encouraging interconnectivity

Delivering the Best Water Service Value

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Questions, Answers, Direction

Future of TVWD/Portland Regional Water Sales Agreement

Board Work Session

August 4, 2020

