

Application for Waiver from Construction Standards for Public Water Systems

Water System Name Portland Water Bureau

PWS ID 00657

Project or Facility NW 112th Ave Railroad Crossing

County Multnomah

Need for waiver identified: ☐ Water System Survey

Date of Survey

☒ Plan Review # Exempt

Construction standard requested to be waived: OAR 333-061-0050 (9)(b) water sewer separation

As provided under OAR 333-061-0055, the Department may grant waivers from the construction standards prescribed by these rules:

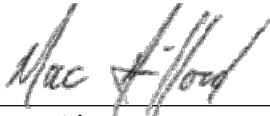
- (a) When it is demonstrated to the satisfaction of the Department that strict compliance with the rule would be highly burdensome or impractical due to special conditions or causes; and
- (b) When the public or private interest in the granting of the waiver is found by the Department to clearly outweigh the interest of the application of uniform rules; and
- (c) When alternate measures are provided which, in the opinion of the Department, will provide adequate protection to the health and safety of the public including the ability to produce water which does not exceed the maximum contaminant levels listed in rule 333-061-0030.

Describe situation that conflicts with the standard. A railroad crossing and its existing utilities will be rebuilt and brought to current code, including replacing the crossing water pipe originally installed in 1913. The existing 6" water pipe is 3' deep and has 4' of parallel horizontal separation from the existing sewer pipe. It will be abandon and replaced with a 12" pipe that is 6' deep and has 7' of parallel horizontal separation from the existing sewer pipe. This will have two conflicts with construction standards.

- 1) An existing sewer lateral (sta 0+30, marked in red on sheet 3 of 7) crosses the water alignment. The new water pipe will go underneath this sewer lateral with 1.5' of vertical separation.
- 2) Where the proposed water main connects back to existing, it will have approximately the same depth as the existing sewer with approximately 7' of horizontal parallel separation transitioning to approximately 4' of horizontal parallel separation at 3' deep where it connects to existing. That means it will pass from a Zone 4 horizontal parallel conflict for a short distance into a Zone 2 horizontal parallel conflict for a short distance (sta 0+20, marked in green on sheet 3 of 7).

Describe why meeting the standard is highly burdensome or impractical. Modern standards required wet utilities to have 5' depth of cover below railroad crossings, so the pipe cannot go above the existing sewer lateral. The proposed pipe must connect back to the existing pipe which is in existing parallel conflict so must also have a short segment in parallel conflict.

Describe proposed alternate measure that provide adequate protection to public health and safety. The proposed water pipe will be sleeved inside of a 24" seamless steel casing. This casing will extend through the railroad crossing, including the sewer lateral crossing as well as the location where it is in Zone 4 conflict with the existing parallel sewer. The transition from the end of the casing to the connection back to existing will be encased in CLSM, including the location where it is in Zone 2 conflict with the existing parallel sewer.



Signature

2/11/2025

Date

Name Mac Gifford
Address 1900 N Interstate Ave
City/State/Zip Portland, OR 97227
Telephone Number 503-823-1507

Attach plans of proposed waiver request or additional supporting information and

- Email your regulator; or
- Email dws.planreview@dhsosha.state.or.us; or
- Mail:

Oregon Health Authority
Drinking Water Services #640
PO Box 14450
Portland, OR 97293-0450

☐ Comments:

☒ Attachments: Improvement Plans for NW 112th Ave Railroad Crossing

OHA Use Only

Waiver ID 521-2025

Entered into waiver database ☒

☒ Plan Review Coordinator's notes: Proposed mitigations for zone 2 and zone 4 conflicts appear adequate to protect public health

After due consideration the above requested waiver from the construction standards of OAR 333-061-0050 is hereby:

☒ Approved Comments:

☐ Denied



2/12/2025

Drinking Water Regional Manager Signature
Oregon Health Authority

Date

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healthoregon.org/pwsplanreview

Waiver database updated ☒