

Source Area
Wells (7) and
Wellpoints (17)

150k Gal Tank
(peak demand)

Current Primary Water System Infrastructure



- 412 connections (415 approved), including
 - 403 active usage connections
 - 9 'ready to serve' connections
- Pumped Annual Volume
 - ~2.8M-3.7M CF
 - ~20.8M-28M Gal
 - ~64-86 Acre-Ft
- Sold Annual Volume
 - ~2.7M-3.5M CF
 - ~20.3M-26.2M Gal
 - ~62-80 Acre-Ft
- Water Rights
 - 245 gpm
 - 152.4 Acre-Ft per yr

Replace 6-inch steel main line and connect two lengths of installed main

- 115th/238th (8-inch PVC)
- Bayview Dr (6-inch PVC)

Replace Asbestos-Cement Main

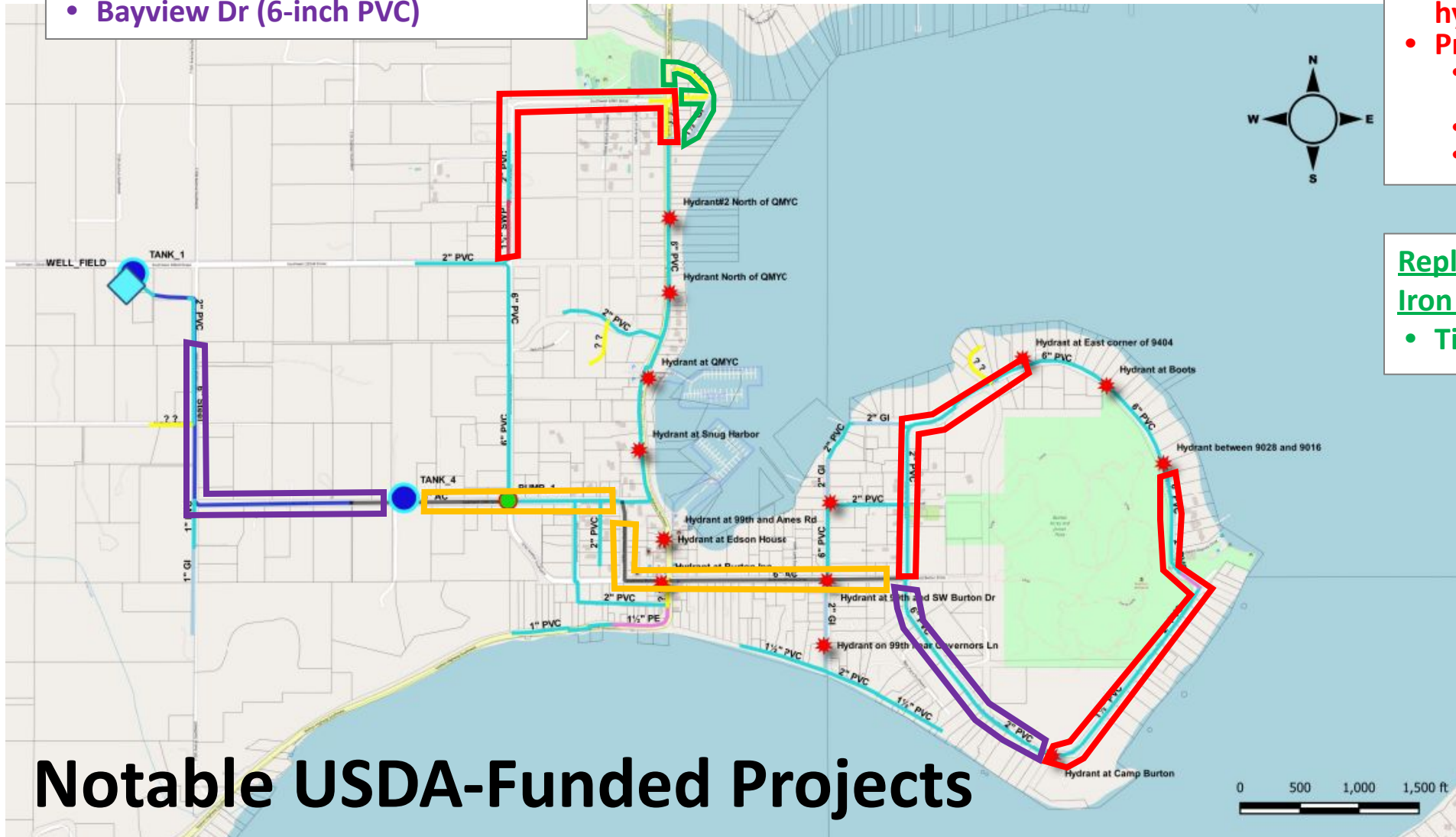
- Lower and Upper segments
- Upsize 6-inch to 8-inch

Fire Flow Improvements

- 6-inch main for loops with fire hydrants
- 8-inch main for dead ends to fire hydrants
- Projects:
 - 107th to Vashon Hwy: create 6-inch loop
 - Burton Peninsula 6-inch loop
 - Tillicum Ln and 227th

Replace Remaining Galvanized Iron Pipe

- Tillicum Ln and 227th



Notable USDA-Funded Projects

See project descriptions on next page

*The location of an improvement does not always equal its benefit. Some projects provide system-wide benefits; others are local but are required to meet new regulations.

Notable USDA-Funded Projects – to be completed in 2025-2027

- Replace 6-inch steel line on 115th/238th and hook up existing 8-inch main on 115th and 6-inch main on Bayview Dr
 - Steel main trunk line on 115th and 238th is at end of life and showing its age; will be replaced with 8-inch PVC to provide fire flow capacity potential for full system
 - An 8-inch PVC line was installed along a part of 115th but never put into service; similarly, a 6-inch PVC line was installed along Bayview Dr (to Camp Burton) but not all connections were switched over to it.
 - These are both operational risk reduction and fire flow improvement projects on the main trunk line.
- Replace 6-inch asbestos cement (AC) line
 - The AC main trunk line is nearing the end of its typical useful life and is undersized to provide adequate fire flow. There is an upper segment (along 238th) and a lower segment (along Burton Drive). This project will replace both segments.
 - This project is both an operational risk reduction and fire flow improvement project on the main trunk line.
- Create 6-inch PVC loop from 107th to Vashon Highway
 - The currently 6-inch and smaller diameter dead-end runs on 107th and north end of Vashon Highway are undersized for adequate fire flow. This project will connect those two dead-ends with new pipe along 228th with 6-inch PVC, creating a new loop which will improve fire flow capacity and also improve water quality (i.e., reduce stagnation in the dead-end runs).
 - This project is both an operational risk reduction and fire flow improvement project.
- Complete 6-inch PVC loop around Burton Peninsula
 - The current main line around the peninsula loop includes multiple small diameter (1.5- to 2-inch) PVC segments, which are undersized for adequate fire flow. This project will replace those small diameter segments on the loop with 6-inch PVC, creating better flow capacity.
 - This project is primarily a fire flow improvement project.
- Replace small-diameter galvanized iron and other pipe on Tillicum Lane and 227th with 8-inch PVC
 - Galvanized iron experiences reduced flow capacity and also begins to leak frequently with age. This section of old galvanized pipe is beyond its expected useful life and is a risk for ongoing maintenance. This project will replace this old pipe and other small-diameter nearby pipe with 8-inch PVC, improving flow conditions.
 - This project is both an operational risk reduction and fire flow improvement project.
- Install additional fire hydrants on all improved fire flow lines to meet King County fire code standards