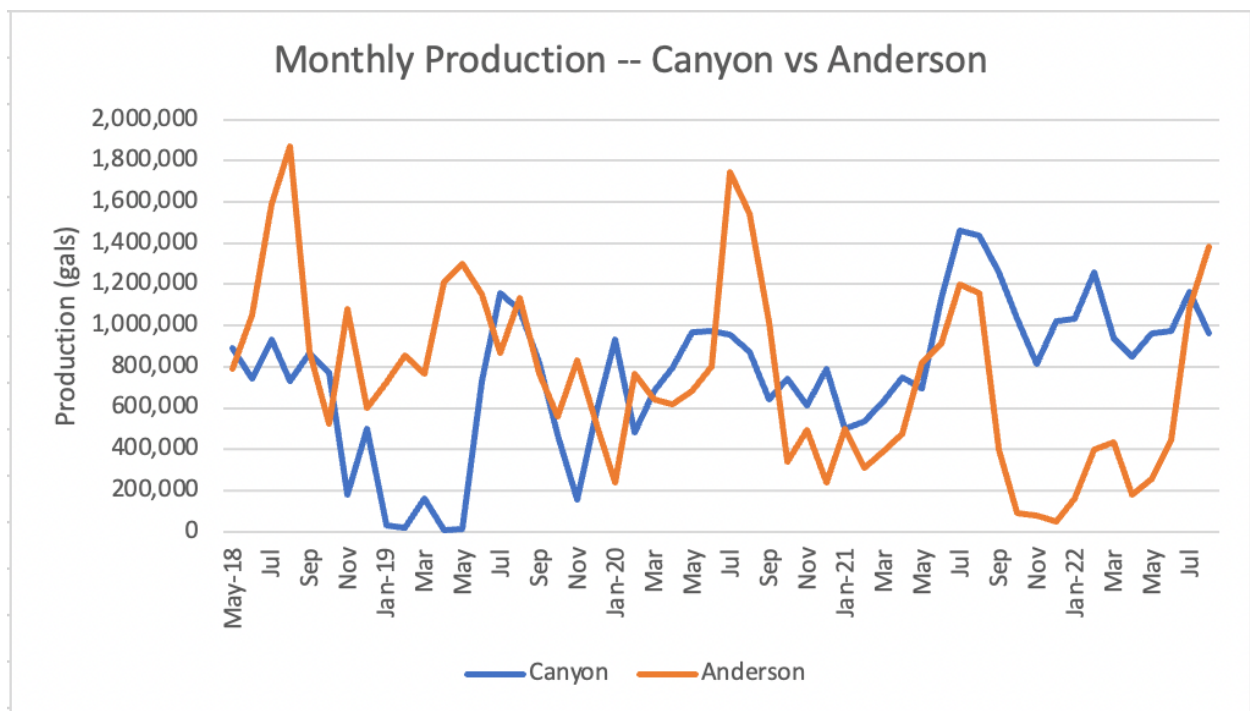


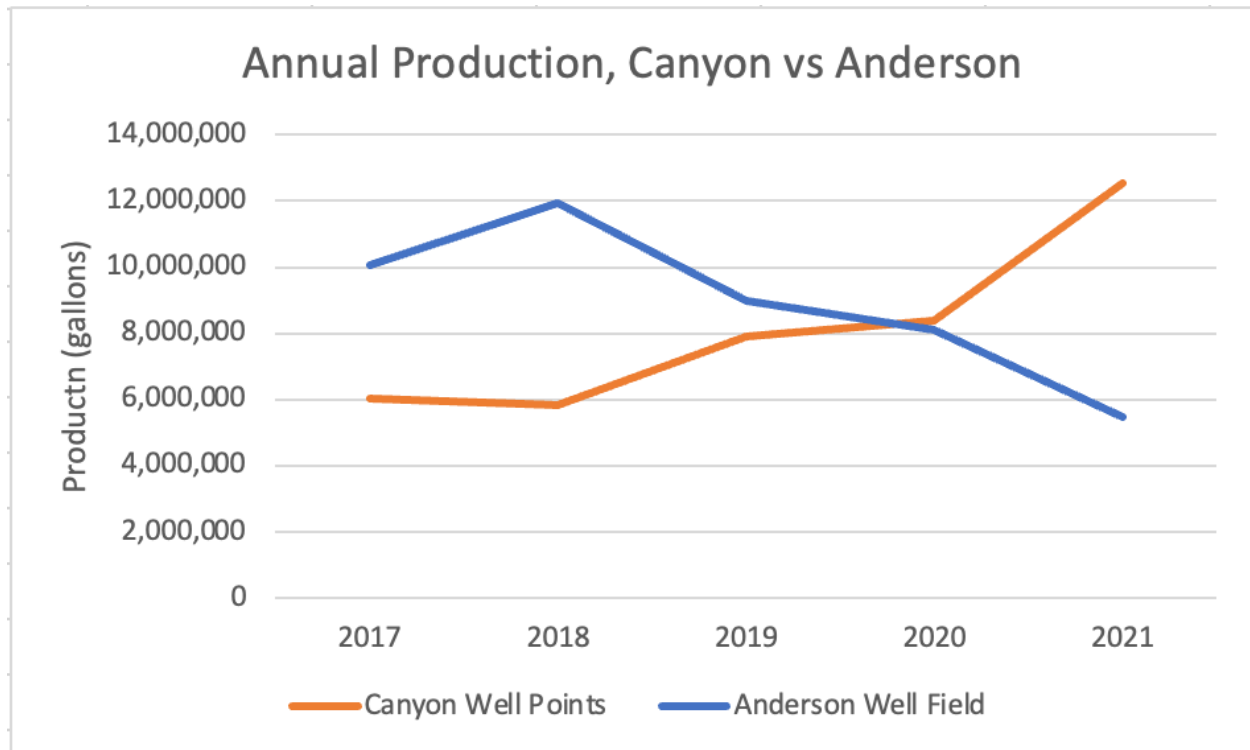
Westside Water Association Newsletter Fall 2022

We are past the peak water usage period of the year (always July and August, due to garden watering demand on the system) and we are happy to report that the system performed well this year. More details below, but we did not need to turn on either the Back 40 or the Canyon well this summer. The relatively wet spring and early summer delayed the onset of watering demand and allowed us to handle the demand with only the Anderson Well Field and the Canyon Well Points. At the annual meeting new board members Holly Shull and Peter Meyers joined returning members Adrian Witherspoon (Vice President), Jim Cross (Treasurer) and Jeff Thurlow (President). Long serving members Pat Call and Richard Perret retired from board service.

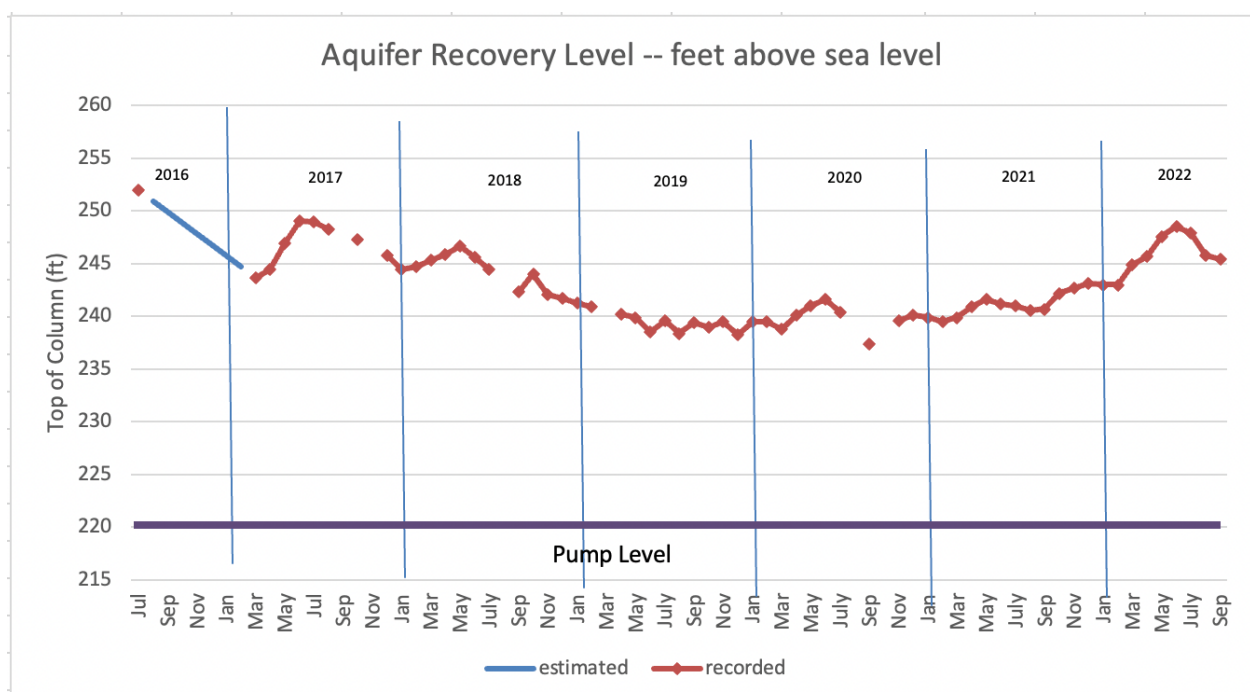
Source overview

In 2021 we were able to keep the Canyon Well Points producing at over 30 gallons per minute (gpm) for most of the year. This year our spring recharging efforts were also able to attain that level but the production quickly dropped to around 22 gpm and subsequent attempts to repeat the charge followed the same pattern. This system works through a siphon mechanism and we believe that there is an air leak in the piping network that is causing us to have lower sustainable production from this source. We will attempt to find the solution this fall. The monthly and annual production from the Canyon Well Points and the Anderson Well Field are shown in the following two graphs below.





You can see that the improved performance of the Canyon Well Points in 2021 allowed us to rest the Anderson Well Field which in turn yielded a healthier water level which translates to higher peak capacity when demand is high. We measure the recovered water level (measurement taken after 24 hours with the pump off) every month and the results from this test are shown in the graph below.



Even with the Canyon Well Points at 22 gpm we will again be able to largely rest the Canyon Well Field this winter.

Leaks

Our Distribution System Loss (DSL) aka our leak rate has not been what we want so far in 2022. Our goal is a DSL of less than 10%. So far this year our leak rate is above 20%. What is more disconcerting is that we are not sure why it is that high. We have not fixed nor found leaks that would aggregate to such a loss rate. We continue to look and ponder but still don't have a satisfying answer. It could be instrument error or multiple small leaks that are difficult to detect and find. We have found and are considering purchasing residential meters that have the remarkable capability to both identify and locate leaks in the service line where they are installed and in the distribution main. Enough meters need to be purchased so the search signal can cross correlate to find the distribution leak but this technology looks appropriate to our situation and has been used now by enough major water systems to be proven useful. The only good news is that the variable cost of our water (consisting of the electricity to pump it and the chlorine to treat it) is pretty low so the financial impact of a higher leak rate is not too dramatic.

New Share Plans

The Board expects that the first four new shares will become available in January 2023. An informational session will be held via zoom on Tuesday October 25th at 7 pm to answer any questions related to the share sales process, the details of which can be found on the WWA website (<https://westsidewater.org/sharesales.html>).

Capital Asset Replacement plans

Cove Road Main Replacement

This fall we are planning to replace a section of mains along the west end of Cove Road between 115th Ave SW and 121st Ave SW. The estimated cost of this project is \$60K and will be completed by the end of October.

Main enhancement and relocation from Underwood Easement to 153rd

This project will relocate and upsize the existing 3" steel main that has historically connected 119th Ave with Westside Hwy from private property to 153rd St, a private road. The diameter of this main will be upsized to 6" and a fire hydrant will be located with access from Westside Hwy. Agreement from all proximal property owners to provide easements for this relocation have been obtained and, depending on weather and supply chain issues, this project may happen this fall.

New Capital Plans

WWA is evaluating the potential purchase of a Generator for the Cove tank.

Doug Augmentation/Replacement plans

For 30 years now Island Water Management, Inc (IWM) has been providing comprehensive services to Westside Water. IWM is owned by Doug Dolstad who grew up on Westside Water and is also a member of the Association. Doug has been looking for some time now for a capable person to take on the operations aspect of the system including being on call 24/7/365. Eventually all management and consulting will be transferred out of Doug's hands though IWM may continue with its contractual arrangement with WWA. To date, Doug has interviewed several prospects and is confident that Westside will continue its long tradition of being locally and professionally operated and managed.

A New Newsletter Feature: A View from our Elders

This episode from Wendell Clark (he is the fellow who always waves when you pass him along the road).

“My family and I moved to Vashon in 1959. We rented a former Westside Water Association's (WWA) Manager's house. It had a well in the backyard and was not on WWA. In those days, WWA drew a significant amount of its water from Shinglemill creek. In winter the creek was turbulent and full of sediment and water was drawn from springs along the creek valley. In summer water from the creek was used to supplement the well water Tom Lorentzen and Chet Whitman had inserted metal points into seepages along the creek valley. These emptied into stock watering tanks filled with small rocks. The rocks filtered out dirt and sand. Hoses took the water from the tanks to the pump house. There it was further filtered and pumped up to the water towers.

Each spring the tanks had to be cleaned. The dirty rocks had to be replaced with clean rocks from the creek. It was a miserable job. In August it was hot and humid. Mosquitoes, Poison Oak and Poison Ivy populations were at their zenith. It took a day or so to do the job. The call for volunteers would go out to WWA members. Many would leap at the opportunity. Those who leaped the wrong way would do the job. It was a day of great celebration when WWA hired someone to do this wretched job.

We lived here until 1962, then did a lap around the world and returned in 1970.

In 1988, the rickety old water tower was replaced with the much bigger present one. Chauncy Morse was Manager then. He and my father were Engineering classmates at Iowa State College (No ISU) and graduated together in 1924. Chauncy reviewed the plans for the new water tank and noted that the steel walls were the same thickness from bottom to top. He

pointed out that the upper walls could be of thinner steel. The water pressure would be less there. That saved WWA some money.

Doug Dolstad's humor and the homemade cookies, help make good participation in the annual spring WWA meetings. In one meeting he sheepishly admitted that he and his Mother, Enid Dolstad, had their own wells and never drank the WWA water that he was managing. That brought a burst of slightly nervous laughter from the crowd.

Up until then, WWA Managers would occasionally throw in a jug full of Chlorine to purify the water. Happily, under Doug's management, we have a modern purification system installed. He does the testing and paperwork required to maintain the excellent State-approved water that we drink today." Thank you, Doug!!