

BRDWID Board August 19, 2023 Board meeting
Agenda Item 6.B

Starlight Water Company

Water System Familiarization Tour

July 26, 2023

Water System Familiarization Tour Summary

- Tour Date: July 26, 2023
- Participants:
 - Starlight Water Company
 - Lee Thompson
 - HDJ Consulting
 - Harry Jones - (BRDWID General Mgr)
 - A Quality Water Company
 - Pat Carpenter - (BRDWID water system operator)
 - Kirk Carpenter (BRDWID water system operator)
 - Jim ?? - (BRDWID water system operator/meter reader)
 - Blue Ridge Fire Department
 - Phil Paine – Fire Chief
 - BRDWID Board member (notice of possible quorum posted)
 - Tom Osterday
 - Casey Samsill
 - Brian Willia
 - Mike Bourne

Water System Familiarization Tour – 7/26/2023

• Summary Notes:

- Lee Thomson led the tour. The tour was very detailed and all questions answered.
- Well sites and buildings in good condition. Harry and Pat stated the system has been well maintained and in better condition than most sites they manage and operate.
- Tour started at Starlight Pines Well site, then to the Tamarron Well site, the Pressure Relief Valve vault and valves between SP and PC, Pine Canyon Well site, and concluded at the Starlight Pines Ranchettes Well site.
- No water treatment devices or chlorinators on any of the systems, a testament to the good water in our community.
- Observed well pumps and booster pump systems operate on all systems.
- Did not confirm operation of any of the fire hydrants.
- Three main asks of SWC:
 1. Get historical maintenance records of the systems;
 2. Validate all 261 fire hydrant operation (reports or testing);
 3. SWC to work with County on the roadway valve locations covered up by recent road renovation in SP, BRE, and TP.

Water system data

# wells	4
Total well output	610 gpm (320.6M/yr)
Total Storage Capacity	1,110,000 gallons
Miles of Main Lines	34.03
# of Customer Meters (Dec `21)	756
# Booster Pumps	14
# of Pressure/Bladder Tanks	4
# Fire Hydrants	261

Starlight Pines Well Site

- Well Registry # 55-501667

Starlight Pines well site and buildings have been well maintained and generally clean. Observed well pump running – no unusual noises, vibrations, or leaks. Pump system is an on-demand variable drive system. No leaks or unusual noises were noted. System has a back generator that is scheduled to be serviced week of July 31. Lee has a fuel trailer to keep the generator sets filled with fuel as needed. 200,000 gallon storage tank in good condition with some small surface spots that may need attention.



Well Head



Backup Generator



On-demand variable drive system with 4 pumps to support the demand.



Tamarron Pines Well Site

- Well Registry # 55-565148

Tamarron Pines well site and buildings are generally clean. Observed well pump running – no unusual noises, vibrations, or leaks. Pump system is a pressure pump system with a pressurized 10,000 gallon tank. No leaks or unusual noises were noted. System has a backup generator that has an engine heater to help with cold starts and helps with getting the engine up to temperature quicker. 500,000 gallon storage tank in good condition with some small spots that may need attention. Lee indicated the 4 storage tanks are on a maintenance plan with inspection, repair, interior recoating, & exterior painting.



Pressure pump system with 10k



Well Head



Backup Generator



Pine Canyon Well Site

- Well Registry # 55-565147

Pine Canyon well site and buildings are generally clean. Observed well pump running – no unusual noises, vibrations, or leaks. System has a backup generator that is exercised monthly. 300,000 gallon storage tank in good condition.



Well Head



Backup Generator



300k Storage Tank



Pine Canyon Well Site

- Well Registry # 55-565147

Pine Canyon Well Site. Pump system is a dual pressure pump system with a pressurized 10,000 gallon tank (same as TP). Small leaks recently repaired were noted on one of the pumps. Water pressure set points may need attention (50psi to 75 psi) while the pump activated ~40psig.



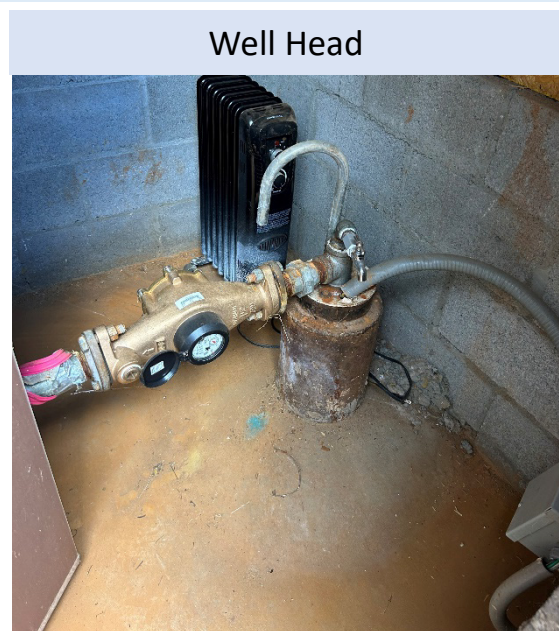
Pressure pump system with 10k pressure tank.



Starlight Pines Ranchettes Well Site

- Well Registry # 55-553632

Starlight Pines Ranchettes is the smallest of the 4 systems. Electrical is a single phase system vs 3-phase for the other 3 well sites. Observed well pump running – no unusual noises, vibrations, or leaks. Pump system is a 6-unit pressure pump system with a pressurized 2,500 gallon tank. Small leaks recently were noted on one of the pumps. System does not have a backup generator. 100,000 gallon storage tank in good condition.



Well Head

6-unit Pressure pump system with 10k pressure tank.



System Inter-connection

The SP system can be connected to the PC system and the PC System can be connected to the SPR system. These valves are normally closed to prevent system imbalances between the systems. There is a Pressure Reducing Valve in line between each of these systems. Main lines across Hwy 87 on Starlight Dr (south) connecting the SP system to the Churches and FD and looping to TP per the system drawings.



Vault that contains the PRV



In-line Pressure Relief Valve

