

Determine Essential Upgrades to Stabilize the System

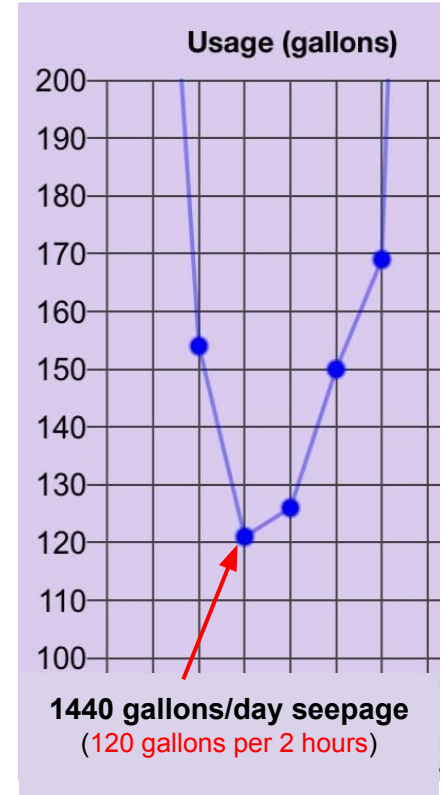


Many repairs in the same location at higher elevations

Season Major Projects 2024-2025



Strong vacuum pressure on pipeline



Large volume of daily seepage in the pipeline

System Issues

1. 5 to 10 breaks per year for decades
2. Repeated breaks at same location (system design issue)
3. High vacuum pressure & heat collapsing the Priceline
4. Cannot fully isolate pipeline because of rusty valves
5. High daily seepage (40% of water pumped is for seepage)
6. Hard to find leaks in pipeline
7. Fuse boxes worn and shorting (damaged motors)
8. High turnover of well motors due to air & mismatched HP)

Upgrades to Improve System Issues

1. Install Air Release Valves
2. Install Vacuum Breaker Valves
3. Replace Pipeline Valves
4. Use metal couplings vs PVC compression couplings
5. Replace Poly Lines (Saddles & Meter Lines)
6. Create Pipeline Field Markers to Help Find Leaks
7. Leak Detection tools and Pipeline Markers
8. Upgrade Fuse Boxes
9. Well Check Valves, Match Horsepower of Motor & Pump, Adjustable Exhaust Air Valve A33aws by cla-val

Change Meter Reads Frequency

1. Change meter reads from every 2 months to every 4 months
2. Perform duty in cooler months, safer and healthier
3. Perform task with 5 helpers vs 1 if aligned to board meeting dates
4. Still receive the Usage income, just 2 months delayed
5. Would need to change the usage threshold to account for the doubled duration
6. Shift the reading window on the Board Meeting Saturday +/- 3 days (1 week window)
7. **Money Savings:** at \$40/hr, assuming takes 2 days to perform readings, we save **\$1920/year** ($\$40/\text{hr} * 16 \text{ hr}/\text{reading} * 3 \text{ readings}/\text{year}$)
8. **Time Savings:** **6 full days/year** work for us, many hours for the bookkeeper
9. **Other Money Savings:** driving in to perform the duty, bookkeeper fees

Proposed Schedule

- 3 readings per year
- Align readings to Board Meetings
- Change Bylaws/Rules to allow 1 week window to get it done, frequency change
- Add expectations when reading is not possible (weather, health, safety, resources)
- Also change the last Bacti test from December to November boarding meeting