

Water System Advisory Committee

Committee Members: Maria Smith, Chair, Forrest Dykstra, Steve Keppers, Frank Biondilillo, John Frederick. **Outside contributors:** Ragan Jacuart, Ramey Environmental

Responsibilities: Maintenance and management of all operational elements of the Tres Valles West water system. (Water plant and filtration system, Distribution system – piping, valves, meters, distribution tank; Water sources – spring 1 and 2; CT Ritchey Reservoir); Maintain compliance with CDPHE as a Public Water System; Maintain compliance with TVW’s Domestic Water System Decree.

2020 Mid-Year Update

Water Treatment Facility and Filtration System

Generally stable and smoothly running filtration system thanks to constant and consistently excellent attention from our Assistant Operator.

Remote access to the system is a concern as DSL (CenturyLink) is periodically down sometimes for days at a time which means the required daily monitoring and management is not available remotely.

HACH maintenance agreement renewed for another year through August 2020. HACH provides onsite equipment maintenance and calibration on a quarterly basis.

Chlorine pump failed June 26, 2020. System was down for only a few hours as a replacement pump was quickly installed.

Water Distribution System

PRV maintenance and Valve exercising was completed September 2019. Several issues were identified and appropriate repairs made.

Three water meters have been replaced (Lots 39, 4, 73); one new water tap installed (Lot 35).

Re-piping project continued in November 2019 with work completed on Coyote Court and Lot 32 to Lot 27 on Bear Path. (See detailed report under “Projects”



A persistent leak in the service line to the “out parcel” which has been a concern for quite some time was finally found and repaired in January 2020.

Water Sources

Spring 1 water flow (which had decreased to almost non-existent) was restored in September 2019. Excavation around the spring box revealed that the water inflow was plugged uphill from the spring box. A new inflow system was installed and although water began to flow plentifully into the cistern, no water flow to the water plant. A potential leak in the line has been pinpointed for repair.



Spring 2 water flow has slowed considerably in late June – earlier than the usual slowdown in the fall.

Domestic Water System Decree Compliance

C T Ritchey reservoir release of July 2019 – 15 Acre Feet in compliance with directive from Water Division Commissioner.

C T Ritchey fill – in priority February until March 1. Water flow in South Abeyta Creek was reasonable, but serious problem with getting the head gate open due to frozen silt and ash plus 4-5 feet of snow. Hand digging plus help with a tractor and backhoe resulted in success and the reservoir fill was accomplished



CDPHE Compliance

The RPZ's at Water Plant Certified in July 2019 as were the 12 Neptune T-10 double check water meters. RPZ certifications for Water Plant completed for 2020 in April 2020.

CDPHE Record of Approved Waterworks (RAW) was issued in September 2019. This is the final compliance document which details requirements for Chlorine minimum residual level, finished water tank minimum level, Maximum pH, Minimum Temp, etc. for appropriate disinfection of finished water.

The ***Backflow Prevention and Cross-Connection Control*** yearly report details all service connections and internal water supply systems. It identifies cross connections and specifies the methods of preventing potential backflow for each as well as required inspections and certifications. Report completed for the 2019 calendar year as required on May 1, 2020.

All MOR's (Monthly Operating Report) completed through May with no violations

All monthly Bacteriological Analysis reports completed with no violations

All quarterly distribution tank inspections completed under the Storage Tank Inspection Plan with no failures or violations to report.

Other

Marty Coca is our new representative for hands-on activity from our official Operator in Responsible Charge – Ramey Environmental. He replaces Terry Sykes.

June 2020 – NRCS work in the West Valley around the Spring 2 inlet and the water plant caused concern which has led to a plan for additional work at TVW expense to ensure protection of our Spring 2 water source.

Remaining Work/Projects

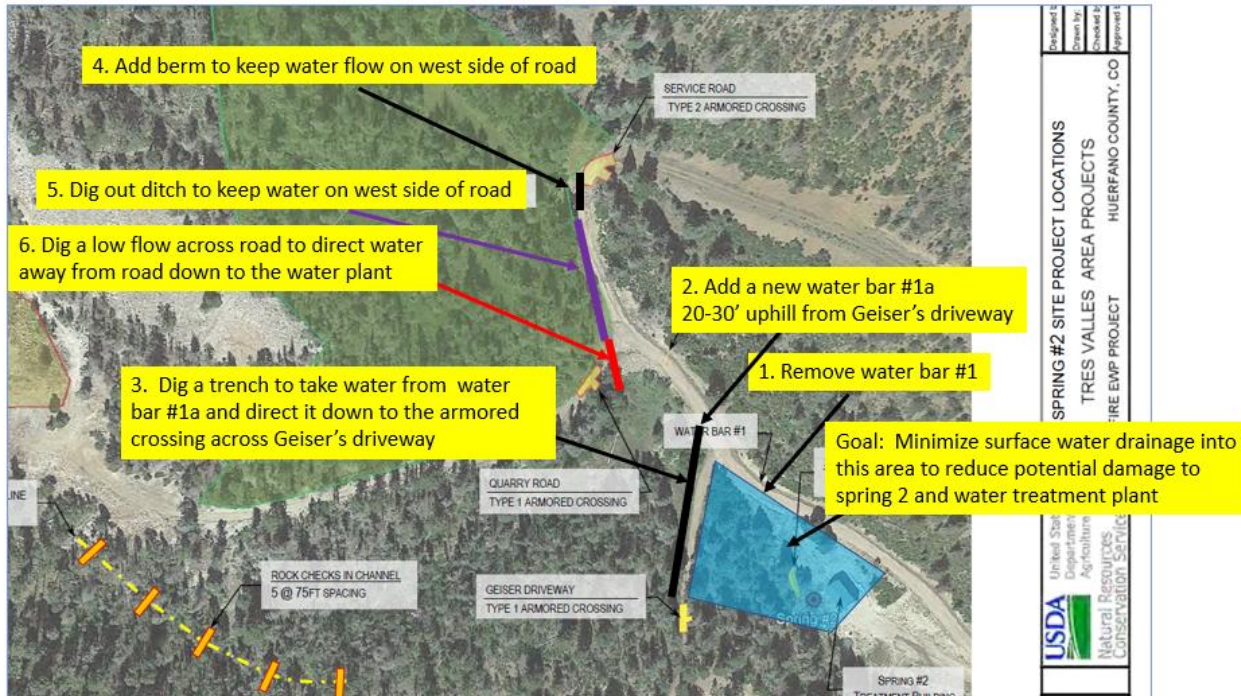
Project 1

Spring 1 – successfully pipe water from the spring box to the water treatment plant.

Current plans – repair the (presumed) piping leak (pinpointed - but trouble with getting “dig” scheduled). Must also remove the debris which collected in the spring box during spring thaw prior to further testing.

Project 2

Proceed with modifications to the work done by NCRS in the area of and above the Water Treatment Facility as detailed in proposal from Double M Excavating of June 17, 2020. This is necessary to ensure to the best of our ability the protection of Spring 2 and the Water Treatment Building itself.



Project 3

Decrease dependency on DSL for remote monitoring of the system. Find another cost-effective solution.

Project 4

Distribution System Re-piping/ Waterline Replacement. This 5-year project was initiated in 2015 and will be completed in 2020.

- Fall 2019:
 - a. Install 1330 feet of water pipe from 4-way junction up Coyote Ct. (\$15,113)
 - b. Install 1215 feet of water pipe from Lot #33 valve to Lot #32 (\$12,568)
 - c. Install 2800 feet of water pipe from Lot #32 to Lot #27 (\$28,180)
 - d. Total cost \$60,681 (includes \$5,000 contingency) from Capital Expenditure Fund
- Projected for 2020:
 - a. Install 1200 feet of pipe from Lot# 27 to Lot# 29, and 50 ft. tie-in at Red Fox Ct.
 - b. Estimated cost \$18,150 (includes \$5,000 contingency)

- c. Remainder of Capital Expenditure Fund and 2020 Capital Expenditure Fees will be used to replenish the reserve fund - \$32,915
- Project Summary
 - a. A total of 14,967 feet (2.83 miles) waterline replaced
 - b. Total cost \$246,587. \$11,363 less than 2015 business plan estimate.

Waterline Replacement Project Map

