PA DEP Small Drinking Water Systems Engineering Services Program (ESP) Case Study

Client Name: Windsor Valley Mobile Home Park Location: York County, Pennsylvania Project Name: Water System Interconnection











Background:

The Windsor Valley Mobile Home Park (MHP) Public Water System (PWS) served approximately 47 people through 23 connections through a single well source.

Public Health Challenges:

Groundwater from the well source had a high potential to be influenced by surface water (prior to SWIP testing confirmation). Water quality was also deteriorating, with action level exceedences for lead and copper.

Capacity Issues:

Technical – The well source required a new treatment system to meet water quality standards. If the well was classified as a GUDI, filtration would be required, or the well would have to be abandoned and a replacement source developed.

Managerial – The MHP owner could not effectively operate and manage the system due to increased regulatory and compliance requirements and simply "wanted out of the water business."

Financial – Due to the small customer base (23 connections), the MHP owner could not undertake major system improvements in a cost-effective manner.

Actions:

- •An engineering assessment was completed to determine the most viable alternative to provide safe drinking water. An interconnection with the adjacent Red Lion Municipal Authority (RLMA; a viable PVVS) was identified as the most feasible option.
- A 1,400-foot, six-inch DIP main was designed, permitted, and constructed between the MHP and RLMA.
- •The PADEP Consolidation Construction Grant Program was used to fund 75% of the interconnection construction, with the owner providing 25% through in-kind services and a cash contribution.
- •Cooperative efforts of the federal, state, and local government entities contributed to the success of the project.

Outcomes:

- The interconnection was completed providing potable water meeting all safe drinking water requirements to the MHP customers.
- •The project complied with the consolidation recommendation of the PADEP-funded York County Water Supply Plan.
- RLMA now operates and maintains the system serving the MHP as a bulk-purchaser. The MHP is no longer a separate Community Water System.
 Customers in the MHP now pay affordable RLMA user rates and were not burdened with financing a large improvement project.

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