

MCWD Progress Meeting



May 13, 2020

To Protect and Enhance Kentucky's Environment

Public Service Commission

- Water Inspection on March 11
 - Multiple areas of deficiencies
 - Alliance Water Resources responded on April 14
- Update meeting with Alliance on April 28
- Received infrastructure plan on April 14



Division of Water

- DOW recently completed the Sanitary Survey for MCWD
 - A comprehensive review of the drinking water system including: source, treatment, distribution system, finished water source, pumps, monitoring and reporting, management and operation, and operator compliance.
- DOW identified 28 recommendations for MCWD including:
 - Correct the lack of pump redundancy;
 - Develop schedule to calibrate flow meters;
 - Improve water loss; and
 - Develop a plan to respond to water shortages, loss of service, and other system-specific emergencies.
- Alliance has been responsive to the findings in the Sanitary Survey.



Division of Water

- DOW recently completed a thorough assessment of MCWD's Source Water
 - Over the years, the Curtis Crum Reservoir has lost capacity due to siltation.
 - Without consistent inputs from Tug Fork, volume decreases in reservoir making system vulnerable to drought
 - Reservoir is used to settle sand and silt before pumping to the water treatment plant.
 - Inputs from Tug Fork to Reservoir have significantly reduced in the past 10 years
 - Pump failure at Tug Fork is likely recurring due to overwork and mechanical degradation from sand and silt.
- Actions needed to sustain longevity:
 - Develop raw water management plan that addresses operability of pump systems, water shortage during droughts, and use of interconnections.
 - Install raw water meter between Tug Fork and Curtis Crum reservoir.
 - Create additional pooling structure to ensure water depth in the reservoir.

