



Water Filtration Plant
Beaver Valley Water District

PERSONNEL

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Approximate Value: \$1,500,000

Water filtration was required to reduce turbidity of Kelly Creek source and provide a barrier for Giardia and Cryptosporidium.

Conventional rapid sand filtration was determined as the most cost effective method, with upflow adsorption clarifiers. The plant and finished water reservoir were designed and constructed in a very confined site by the old river intake and dam.

Plant capacity is 75 L/s with finished water storage of 1200m³. Target finished water turbidity is 0.3 NTU.

The plant has consistently produced finished water Turbidity below its target. The sand ballasted upflow clarifiers reduce the impacts of raw water turbidity spikes and protect the filters from overload. Upflow clarifiers were used because of their small footprint.



client
Beaver Valley Water District

project
Water Filtration Plant

services
Planning, Design,
Construction Inspection

year
2002

file
1.1710.0004.02