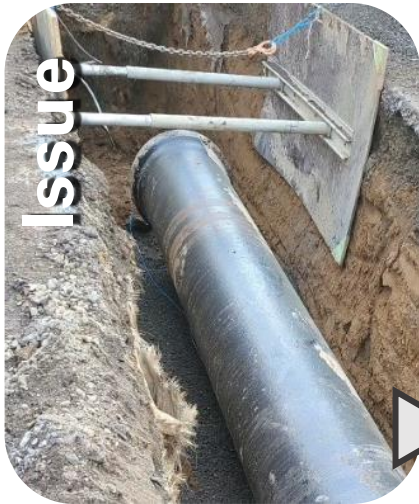


SEEPAGE CONTROL > TRENCH DAMS/ANTI-SEEP COLLARS

GRANT BUTTE WATER IMPROVEMENTS

GRESHAM, OR [COMPLETED FEBRUARY 2021]



The City of Gresham, OR draws potable water from the Grant Butte Reservoir and distributes through a system of 20-inch conveyance pipes. In 2016, the City commissioned a Water System Seismic Resilience Study to determine the potential for damage to buried pipelines resulting from seismically induced landslides. Results of the study identified the need to improve water supply piping, including the installation of larger diameter pipes buried at greater depths for seismic protection. With the new design consisting of steep longitudinal trench slopes through frequently saturated ground conditions, mitigation of potential seepage was of critical concern. Project plans and specifications called for trench dams constructed from

bentonite for seepage prevention, but the contractor was intrigued with the potential to save time and labor using AquaBlok instead. The 24 trench dams were originally estimated to take approximately one hour [each] to form, mix, place, and compact bentonite-soil fill. The recorded time for the first AquaBlok trench dam installation was only 11 seconds! The remaining trench dams were completed quickly, with overall labor savings with less personnel time spent in open trenches. And as an added benefit, the AquaBlok does not liquefy or crack due to seismic stresses. AquaBlok was a smart choice as a resilient and reliable solution.

GEOTECHNICAL sealing solutions

COMPOSITE BENTONITE AGGREGATE composed of a specific gradation of stone coated with sodium bentonite and a proprietary binder.



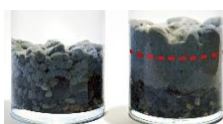
HOW AQUABLOK WORKS AquaBlok Composite particles expand when hydrated, transforming the material into the cohesive seal that self-compacts and conforms to uneven surfaces. The result is a natural and sustainable hydraulic barrier.



AquaBlok Dry



AquaBlok Hydrated



AquaBlok Hydrated [24 hr]

SEEPAGE
CONTROL

POND
SEALING

REPAIRS

For technical support or questions regarding geotechnical engineering applications, please contact

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