

CHAMBERS DAM RESERVOIR

REMEDIATION PHASE II



PROJECT NAME

Chambers Reservoir

PROJECT DATE

2020

PROJECT LOCATION

Douglas County, CO

PROJECT APPLICATION

Raw Water Storage

PROJECT SPECS

AECOM for the Arapahoe County Water and Wastewater Authority, Centennial Colorado



VIAFLEX MATERIAL USED

1.83 million square feet of 16 oz. Geotextile and DuraSkrum N45BT - 45 mil Black/Tan scrim reinforced LLDPE Geomembrane

PROJECT RECOGNITION

2020 Top Project of the Year by the Colorado Contractors Association

PROJECT DESCRIPTION

Phase II of the Chambers Reservoir project consisted of upgrading an existing earthen raw water storage reservoir and fabricating and installing a 45 Mil Black / Tan - N45BT (Scrim reinforced LLDPE.) with a 16oz. geotextile underlayment for protection. Furthermore, 6,600 LF of black safety ladders were installed in various spots around the perimeter to ensure safety while accessing or egressing the reservoir.

LESSONS LEARNED

The use of the scrim reinforced LLDPE greatly reduced slope creep & wrinkles at the toe of slope that is common for reservoirs of this size. Furthermore, the use of intermittent berms across the floor prevented erosion and subgrade issues from rain events throughout the installation process.

HOW THE USE OF FABRICATION IMPROVED THIS PROJECT

Large prefabricated panels gave Viaflex Inc. the ability to maximize production and shorten the overall installation time greatly - something that was crucial to beat owner deadlines and the fall / winter weather common for Colorado.

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PROJECT IMAGES

