

HALLATON

ENVIRONMENTAL LININGS

Project Profile: City of Newark Reservoir

Owner: City of Newark, Delaware

Size: 38 acres

Location: Newark, Delaware

Design: 3:1 Slopes

16 oz Protective Geotextile

60 mil LLDPE Textured Liner

16 oz Protective Geotextile

Constraints:

- Expedited Construction Schedule
- Local and National Regulations
- Stringent Safety Concerns
- Neighboring Residents



Background:

In 2002, the City of Newark, Delaware broke ground to construct a 38 acre water storage reservoir to service area residents and businesses who received water from the public water system following a major drought in 1999. The reservoir construction was needed to add capacity to the Newark service area. The reservoir holds 317 million gallons of water and has a maximum depth of 70 feet. Hallaton, Inc. was the geosynthetics installation subcontractor who was contracted by the general contractor to install a liner system which comprised of a 16 oz geotextile subgrade protection cushion layer, a 60 Mil LLDPE textured liner, and a 16 oz geotextile cushion layer above the 60 Mil LLDPE textured liner. Fifty (50) pipe penetrations and concrete embeds to adhere the liner system to the water supply structure were all installed.

The project was completed in 2006. The site has been such a success that it has become a popular recreational area that is utilized by area residents for many special events including triathlons. The project was constructed at a cost of \$20 million dollars. The Newark Reservoir was the first completed reservoir constructed in the state of Delaware since 1932.

For more info

https://en.wikipedia.org/wiki/Newark_Reservoir



Contact Hallaton at:

Hallaton Inc / 1206 Sparks Rd / Sparks / MD 21152 / USA
410-583-7700 / www.hallaton.com



