

## IAGI Member Monthly Project Profile

December 2025



- **Project Name - Town of Brookhaven – Cell 6 Phase H Landfill Cap Closure**
- **Owner – Town of Brookhaven, New York**
- **Installer – Atlantic Lining Company (ALCO)**

Atlantic Lining Company (ALCO), headquartered in New Jersey, recently completed a complex 23-acre landfill geomembrane cap closure for the Town of Brookhaven in Suffolk County, New York. The **Cell 6 Phase H Cap Closure Project** involved constructing a permanent, erosion-resistant cap system designed to meet the **NYSDEC** and **ARPA** environmental performance standards.



The project utilized **ClosureTurf® Advanced Revetment Technology**, a final closure system designed to provide long-term protection, efficient drainage, and enhanced environmental compliance.

The overall multilayered geosynthetic composite system included:

- **Geonet/composite drainage layer**
- **Geosynthetic clay liner (GCL)**
- **50-mil (1.27 mm) LLDPE MicroDrain® geomembrane**
- **Engineered turf (ClosureTurf®)**
- **Sand & Hydro-binder® Infill Treatment**

ClosureTurf® is a three-component system consisting of a structured geomembrane, engineered turf, and a specified infill material supplied by Watershed Geo. Additional project scope components included the installation of articulating concrete block (ACB), riprap swale construction and restoration, erosion control measures, hydroseeding, and topsoil placement in transition zones.

This engineered turf system has emerged as a viable option to traditional soil constructed and vegetated closure designs, offering superior performance and reduced maintenance.



## Project Challenges

The project presented several significant challenges:

- **Steep Slopes:** The 700-foot-long slopes with aggressive inclines complicated the deployment of geosynthetic layers and sand infill for the engineered turf system.
- **Limited Laydown Area:** A lack of nearby staging space required transporting materials from a location 1.5 miles away, adding logistical complexity.
- **Material Deployment:** Most geosynthetics were installed from the top of the slope, requiring precise coordination and specialized equipment.
- **Seaming & Quality Control:** All seams were thermally wedge welded, with extrusion welding for cross seams, T-welds, and patches. ALCO's crew performed extensive destructive and non-destructive testing to ensure the integrity of the 50-mil LLDPE liner system.



## Conclusion

The project was completed **on time and within budget**, thanks to ALCO's strong project management, highly skilled installation team, and close collaboration among all project stakeholders.

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## About ALCO

Based in Eastampton, NJ, **Atlantic Lining Company (ALCO)** has been a trusted leader in the geosynthetic containment industry for over 30 years. ALCO specializes in the installation of geomembranes and related systems for waste management, municipal water, industrial, and environmental containment applications.

Renowned for **quality, safety, and reliability**, ALCO is a proud member of the **International Association of Geosynthetic Installers (IAGI)** and employs numerous certified welding technicians.

