

LeveeLock provides patented technology for advanced trenching that uses resilient, flexible, closed-cell polyurethane cut-off walls that improve infrastructure, performance and construction safety, while reducing project cost, excavation and environmental impact.

Core Competencies

- Cut-Off Wall Installation
- Groundwater Control
- Contaminant Containment
- Levee & Dam Stabilization
- Subsurface Barriers
- Construction Dewatering
- Closed-Cell Polyurethane Systems

Key Differentiators

- Patented Equipment & Technology
- Narrow-Profile Installation
- Reduced Excavation & Surface Disturbance
- Potentially Lower Installation Costs

Innovative Features

- **Deep, Narrow Trenching** – Custom equipment minimizes excavation and surface disturbance.
- **Air-Lift Trench Support** – Stabilizes narrow trenches in unconsolidated soils.
- **Geotextile Trench Envelope** – Provides a controlled installation environment.
- **Flexible, Resilient Polyurethane Barrier Materials** – Creates an impermeable, resilient subsurface wall inside a geotextile envelope.
- **Seismic Resilient Infrastructure** – Accommodates ground movement and seismic forces.

Applications

Impermeable Membrane-lined, Polyurethane-filled Cut-Off Walls:

- **Levee Stabilization** – Subsurface barriers for vulnerable levees and seismic conditions.
- **Groundwater Protection** – Diverts groundwater from critical facilities.
- **Contaminant Containment** – Limits migration from contaminated sites.

Deep Permeable Trench Liners:

- **Groundwater Treatment** – Supports filtration and contaminant removal.
- **Levee & Dam Drainage** – Controls phreatic water with minimal excavation.
- **Construction Dewatering** – Controls and redirects groundwater.

Patented Technology

LeveeLock's proprietary equipment and construction technology enable specialized installation of buried polyurethane barrier systems.

Patent Numbers:	
10,501,908	11,230,818
10,753,061	11,519,152
10,655,296	11,560,686
11,001,983	

LeveeLock's technology supports potential federal requirements in infrastructure protection, water resources, environmental remediation, critical-facility protection, and disaster resilience.