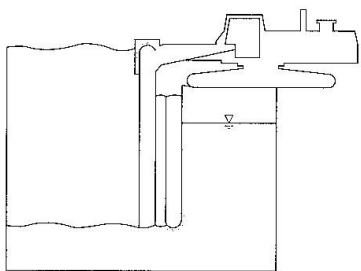


Subsurface Environmental Control



Horizontal's proprietary POLYWALL BARRIER SYSTEM has been successfully installed to cut off the migration of diesel fuel into the Little River in Star Lake, New York. The POLYWALL was used in conjunction with a LINEAR CONTAMINANT REMEDIATION SYSTEM to recover free product and control groundwater flow. The system was installed continuously along the river bank for a distance of 1,350 lineal feet to depths of 15 feet below ground surface with water table-free product interface at an average depth of four feet.

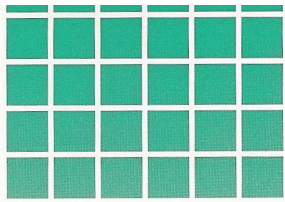
The POLYWALL BARRIER SYSTEM consists of equipment and materials that place continuous sheets of 40 to 100 mil High Density Polyethylene (HDPE) geomembrane vertically to depths of 30 feet and greater. Virtually any length or configuration of POLYWALL can be installed without concern over possible holes or windows inherent in other subsurface cutoff-containment structures.

The HDPE geomembrane is manufactured using the highest grade, high molecular weight polyethylene specifically formulated to be most resistant to sunlight, chemicals, toxic wastes and hydrocarbons. Sheets are joined together using a high performance, hydrophilic interlocking waterproof joint system that provides exceptional strength and environmental properties. These joints are not only impervious to fluids at initial installation but remain fluid tight for the life of the barrier.

The Polywall system can be combined with HSSI's LINEAR CONTAMINANT REMEDIATION SYSTEM (LCRS) and a wide variety of other in-situ and above-grade remediation systems. Other potential uses include prevention of seepage through levees, protection of wetlands and other sensitive areas, control of groundwater flow, and a wide variety of other civil and hydraulic engineering applications.



Innovative Solutions to Subsurface Environmental Management
DISCOVER • RECOVER • UTILIZE • CONTAIN • REMEDIATE



Polywall
BARRIER SYSTEM

U.S. PATENT
No. 5,118,230

*Other patents
pending*

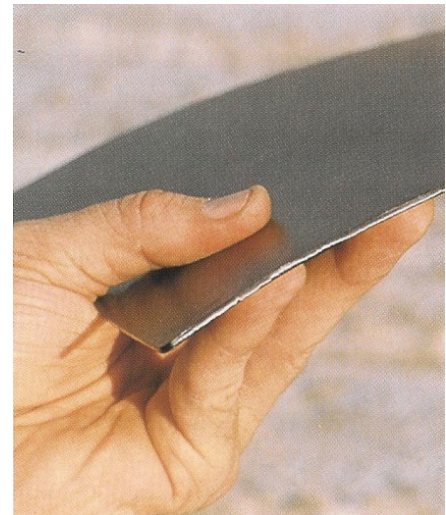
HSSI's innovative, subsurface environmental control technology, The POLYWALL BARRIER SYSTEM, offers a number of unique features over other types of barrier and containment walls:

- state-of-the-art construction and rapid installation make it ideal for emergency response applications
- lower cost than conventional techniques
- maintenance-free and inert, long service life and completely impermeable
- installed in continuous sheets of 40 to 100 mil thickness in a 14-inch wide trench
- interlocking waterproof joint system with hydrophilic joint sealant that can be visually inspected
- can accommodate irregular geometries/ topographies
- extremely effective in controlling subsurface environments through isolation, containment and separation
- can be installed in conjunction with HSSI's LINEAR CONTAMINANT REMEDIATION SYSTEM (LCRS) for groundwater capture and control and contaminant recovery
- many other applications, we specialize in custom designed projects and innovative solutions

HSSI is a unique blend of innovative, proprietary technologies combined with highly experienced professional, technical, and field personnel. Since 1987, we have provided our unique solutions to hundreds of projects in the United States and Canada since 1987. Please call us today and let us assist you with your next project. We can be reached toll free at 877-704-2281 or email us at info@horizontal.com. HSSI stands ready to assist you.



Installation of Polywall Barrier System at EPA Superfund site was 30 feet in depth and one mile in length. Picture depicts loading of a new Polywall segment.



The Polywall Barrier is available from 40-100 mil thickness



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