ENVIRONMENTALLY SUSTAINABLE CUTOFF WALL INSTALLATION

ECwall system
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Eco Clay Wall, or EC Wall in short, is a method to install underground cutoff walls by mixing in-situ soil with cutoff materials made of clay minerals. Highly homogeneous and impervious soil-clay walls are produced without generating spoils or wastes.

ADVANTAGES

SUSTAINABILITY
EC Wall minimizes the burden on the environment. Materials to be used are natural product — clay minerals. No spoils are generated in the process – a great advantage when applied to in-situ containment of contaminated soil.

CUTOFF CAPABILITY
The hydraulic conductivity of EC Wall is less than $10^{-7}$ cm/sec.

DURABILITY
Clay-based materials produce more durable cutoff walls than cement-based walls.

EARTHQUAKE RESISTANCE AND STABILITY
Plastic walls made of clay-based materials flexibly follow ground deformation without developing cracks. Wall quality is less deteriorated by earthquakes.

 ADSORPTION CAPABILITY
Clay materials, capable of adsorbing contaminants, deter migration of contaminants through the wall.

COST EFFICIENCY
EC Wall eliminates the cost of spoil handling and disposal.
INSTALLATION
EC Wall is applicable to most of the deep soil mixing techniques. It is particularly suitable for multiple-column soil-mixing wall technique (e.g. RSW method) or equal-thickness soil-mixing wall technique (e.g. TRD method).

APPLICATION
ECO CLAY WALL, with its superior imperviousness, earthquake resistance, and durability, is applied to cutoff walls for landfill, reservoir and containment of contaminated soil.

HYDRAULIC CONDUCTIVITY
EC Wall has a superior cutoff capability. The typical hydraulic conductivity of EC Wall is in the order of $10^{-8}$ to $10^{-9}$ cm/sec.
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