

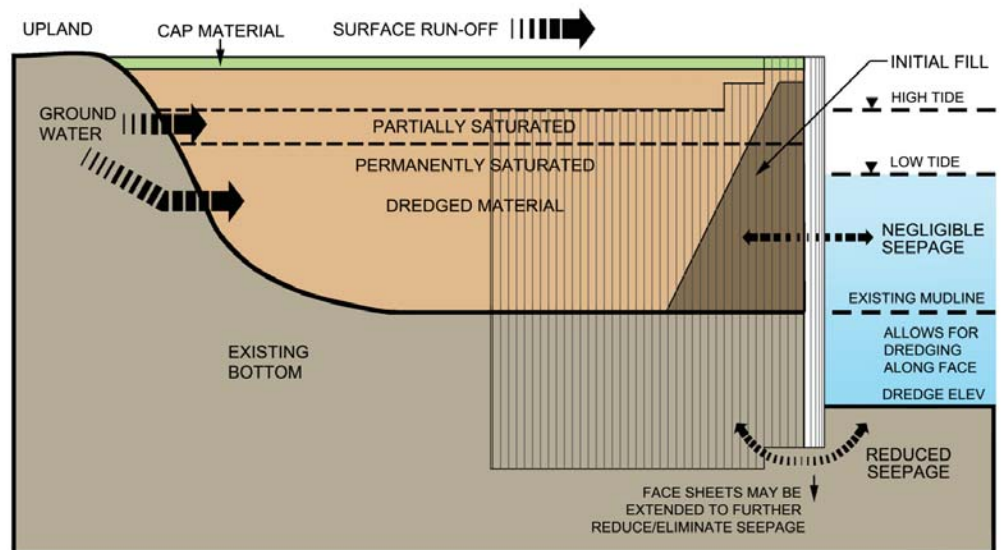
# OPEN CELL® Vertical Confined Disposal Facility

An innovative, cost-effective alternative to current methods of confined disposal of dredge materials

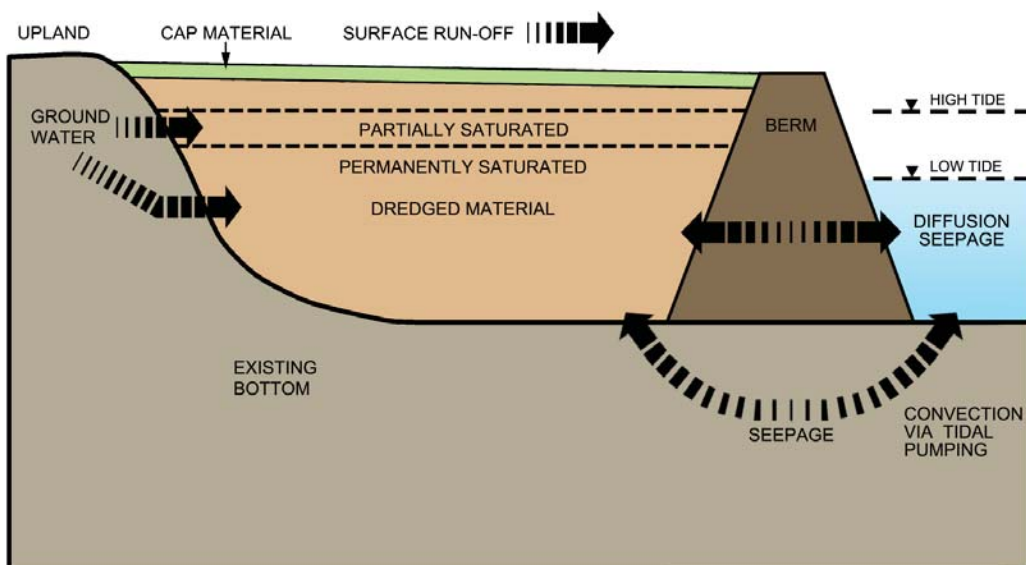
## Benefits of the OPEN CELL VCDF System

- Low maintenance, with a long design life
- Eliminates seepage through containment structure
- Reduces or eliminates contaminate migration under containment structure
- Reviewed and found effective by the U.S. Army Corps of Engineers (USACE)

## OPEN CELL Vertical Confined Disposal Facility (VCDF)



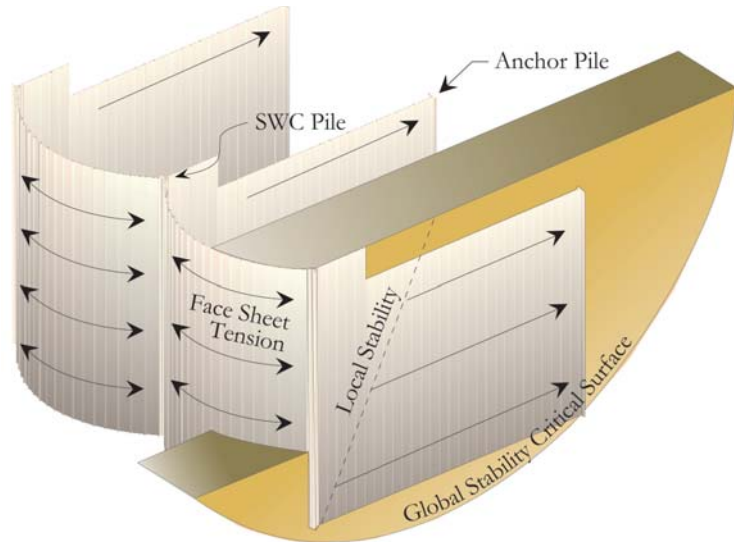
## Conventional Confined Disposal Facility (CDF)



The OPEN CELL system has distinct advantages for contaminated material disposal and post-fill development over a typical CDF.

## Additional Benefits of the OPEN CELL® VCDF System

- Well-suited to additional post-fill development
- Increases capacity and function of existing facilities
- Constructible in poor soil conditions and deeper water
- Provides a useable vertical face and the ability to dredge directly in front of containment wall
- High load capacity following fill consolidation
- High seismic stability



Typical OPEN CELL Structure

The USACE concluded in a 2011 report that the OPEN CELL system “can be effective for controlling environmental risk for containment of dredge material.” This report is available at [www.pndengineers.com](http://www.pndengineers.com).

