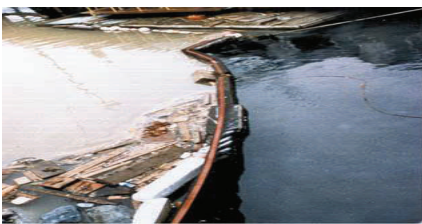


Silt Curtains, Turbidity Barriers and The Particulate Control System™ (PCS™)

Using the right technology for sediment containment



- Maintenance or Construction Dredging
- Chemical Remediation
- Construction & Demolition
- Settling Pond Enhancement
- Combined Systems (Particulate and Sound Control)



Gunderboom engineers, system design and installation specialists will design, deliver and install (if you prefer) systems for many different containment or discharge contaminant-reduction applications. Contact us to learn how we may help you.

For Silt Curtains, Turbidity Barriers, or Sediment and Chemical Containment Systems, such as the Gunderboom® Particulate Control System™ (PCS) or Contaminated Particulate Control System™ (CPCS), Gunderboom, Inc. can meet all of your requirements for fabric barriers—permeable or impermeable, sealed to the bottom or suspended above the bottom, in quiet waters or for challenging water currents, water level fluctuation and wave energy environments.

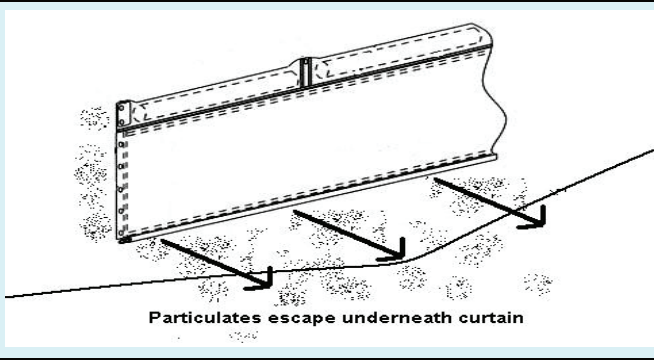
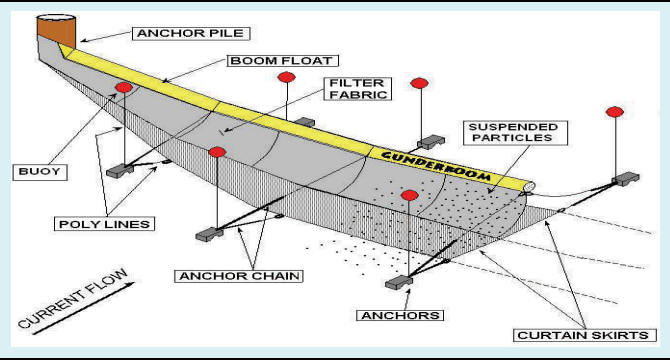
Standard silt curtains or turbidity barriers are not designed to be anchored at or sealed to the bottom. The presence of water currents or tidal water level fluctuation (which means water has to get into and out of the enclosed area), the presence of a curtain barrier from the water surface downward directs water and materials movement to escape below the curtain. For applications not requiring a bottom seal, Gunderboom can provide the right “off-the-shelf” design at minimal cost,

When dredge, demolition or construction-derived sediment and debris must be contained an **engineered, bottom-sealed, heavy duty (HD) turbidity barrier with proven performance results** should be specified. Gunderboom’s PCS or CPCS incorporates factors of water currents, water level fluctuation, bottom type, operations requirements, purpose of use, and performance requirements into the design and fabrication.

Gunderboom is the only company that combines marine engineering, fabrication, and operations capabilities to deliver specialized, high performance systems that can function effectively under extreme conditions and for the most demanding control requirements.



IS A SILT CURTAIN, TURBIDITY BARRIER, PCS or CPCS WHAT YOU NEED?

When you specify or ask for a <i>silt curtain or turbidity barrier</i> , what you are asking for:	When you specify or ask for a <i>Gunderboom® PCS or CPCS</i> or specify an engineered, bottom-sealing, heavy duty silt curtain or turbidity barrier what you are getting:
Prevents migration of suspended sediment in the upper water column.	Prevents migration of suspended sediment throughout the entire water column, including along the bottom.
Does not prevent migration of disturbed sediment or of suspended sediments below the curtain.	Contains disturbed sediment, even at the level of the river, lake or sea bed, not releasing it into the water body.
Can scour below the bottom of the curtain if there are ambient water currents or elevated current velocities below the curtain as the result of tidal water level fluctuations.	Maintains a bottom seal, thus preventing scour under the curtain. Tidal water fluctuation is accommodated by incorporation of permeable filter fabric selected to account for containment requirements and amount of water flow.
 <p style="text-align: center;">Particulates escape underneath curtain</p>	
Other than an impermeable curtain in calm waters, a silt curtain or turbidity barrier that does not seal with the bottom can allow released sediments and associated bacteria, suspended chemicals or light or dense, non-aqueous phase liquids to be released into the environment.	Design maintains seal and provides for water passage. Can be designed for containment of specific classes of chemicals of concern (COC's). For particularly challenging situations or chemical concentrations, a Gunderboom-developed curtain panel design incorporates replaceable filter material between layers of structural fabric.
<u>May</u> pass performance criteria if they are limited to “visual sediment plume,” or to downstream water column measurements within the upper water column or even depth-averaged.	Will meet more rigorous performance criteria requiring containment of disturbed, suspended or re-suspended sediments; and, if designed to do so, of associated bacteria or chemicals.

For basic applications, Gunderboom provides high quality, cost-effective “standard” silt curtains or turbidity barriers to meet your project or facility sediment control /containment needs.

For bottom-sealed curtains, challenging environments or application needs, chemical or bacteria-contaminated sediments, or, to meet demanding performance requirements, only Gunderboom has the unique experience, engineering and fabrication capabilities to meet the additional demands. Gunderboom can provide either installation guidance or installation services. For rugged and high performance systems that can function effectively under demanding conditions or to meet demanding performance requirements, contact us at 207-883-1777 or via info@gunderboom.com.

www.gunderboom.com