

# CASE STUDY

## REMEDIATION TECHNOLOGIES



<b>PROJECT:</b>	Island End River Sediment Cap
<b>LOCATION:</b>	Boston, MA
<b>RCM SQUARE FT:</b>	35,000
<b>ORGANOCLAY:</b>	135,000 lbs
<b>CONTRACTOR:</b>	Sevenson Environmental Services, Inc.
<b>DESIGN CONSULTANT:</b>	Arcadis
<b>PRODUCTS:</b>	ORGANOCLAY <sup>®</sup> , REACTIVE CORE MAT <sup>®</sup> , TRITON <sup>®</sup> Marine Mattress

### THE CHALLENGE:

The project is situated on a former manufactured gas plant (MGP) site located adjacent to the Boston Harbor. Previous remedial work included dredge and disposal in CAD cell and cap. Persistent sheen resulting from gas ebullition was apparent.

### THE SOLUTION:

The remediation strategy included the placement of a modular reactive capping system, including Triton<sup>®</sup> Marine Mattresses used in conjunction with 135,000 lbs of Organoclay<sup>®</sup> bulk capping material and 35,000 square feet of Reactive Core Mat<sup>®</sup>, in order to prevent non-aqueous phase liquid (NAPL) contamination from reaching the surface waters. The modified mattress system utilizes Organoclay<sup>®</sup> filled within the Reactive Core Mat<sup>®</sup> to adsorb contaminants.



### OTHER JOBSITE IMAGES:



Mattress sections are filled with stone (stone size varies) and the geogrid is seamed shut. Reactive Core Mat is attached to the bottom of the mattress.



The Reactive Core Mat is filled with Organoclay, which is used to adsorb contaminants.



The mattress system's subaqueous installation is aided by divers to ensure proper positioning of the mattress sections.

CETCO provides a complete range of vapor mitigation and remediation products for soil, water, and sediment.



Remediation Technologies

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