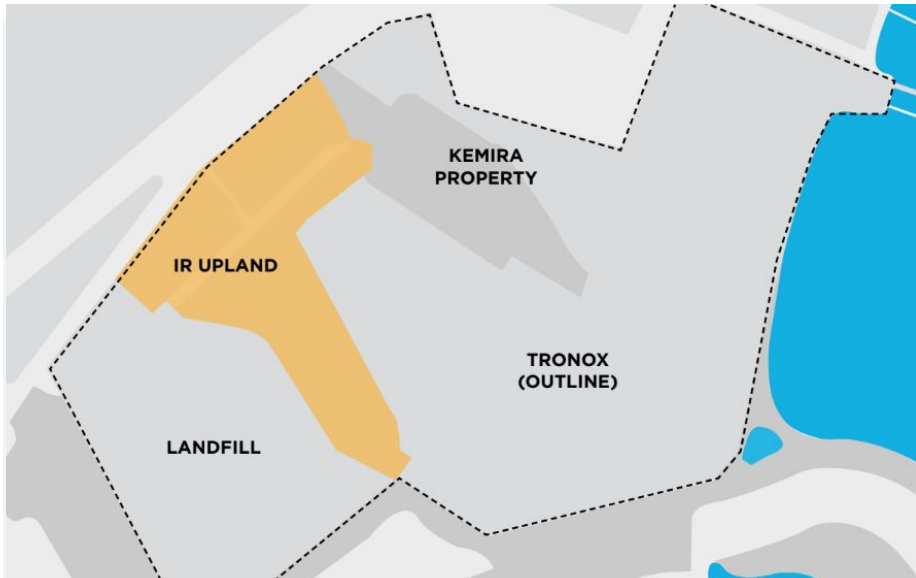


Sediment to Solutions: Innovative Reuse



Innovative Reuse (IR) of dredged material means using sediment removed from marine channels to develop or manufacture commercial, industrial, horticultural, agricultural, or other products. By repurposing this material, the Maryland Port Administration (MPA) and its partners maintain shipping channels while also providing materials for new products.

IR is a key component of the Dredged Material Management Program. With strong community support and increasing educational efforts, MPA continues to implement its IR strategy which provides clear policy, regulatory, and technical actions.

THE NEW INNOVATION HUB

In December 2022, the Maryland Port Administration (MPA) acquired 120+ acres of land adjacent to the Cox Creek Dredged Material Containment Facility (DMCF) to create space to develop and test IR concepts at scale. This property will help in capacity and demand planning to meet the 20-year demand.

Working with partners at the Maryland Department of the Environment, MPA will be developing plans for this new innovation hub. By investing in large-scale, long-term, innovative capacity recovery efforts, MPA is making a commitment to innovative reuse and its associated economic, environmental and social benefits.

INNOVATIVE REUSE GOAL

To make long-term, sustainable innovative reuse and beneficial use programs and projects to address capacity recovery an implemented component of the Dredged Material Management Program in Maryland and to promote the long-term viability of the Port of Baltimore.



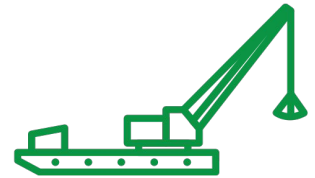
Innovative Use (IR)

The Innovative Reuse Committee (IRC) was created in 2006 to provide advice on the development of a strategy for recycling and reusing dredged material from the Baltimore Harbor. The IRC meets quarterly to receive updates and provide feedback on the MPA innovative reuse strategy goals and implementation.

Dredged Material can be used in:



- Roadway and construction materials
- Manufactured topsoil
- Brownfield reclamation
- Flood and coastal protection
- Habitat creation and restoration



Channeling Innovation

Efforts to explore feasible reuse applications for Harbor dredged material proceed with applied research and development projects that will help facilitate making large-scale IR a reality. Seven organizations have developed prototypes or proposals to use dredged material for commercial application, including:

COMPANY	PRODUCT DESCRIPTION
Belden-Eco Products	Ceramic bricks and permeable pavers
Northgate Environmental Management	Concrete traffic barriers and shoreline protection structures
FasTrak Express	Growing sod with re-engineered soil
Susquehanna Concrete Products	New concrete applications like retainer walls
Harford Industrial Minerals	Sustainable lightweight aggregate
CSI Environmental	Create and enhance coastal resiliency and eco-habitat protection with upland and shoreline berms
University of Maryland	Vegetative earth berms



Ceramic bricks



Concrete Barriers



Shoreline Structures



Sod with engineered soil

DO YOU HAVE AN INNOVATIVE REUSE PROJECT?

Interested in conducting dredged material IR exploration for your organization? Videos, forms and additional information about the dredged material sample application process can be found on the [MPA's Innovative Reuse website](#) below.



gis.anchorqea.com/MDOTMPA_IRBU

