The Building Conservation Trust

The national marine habitat program of Coastal Conservation Association

CCA’s National Habitat Program
New CCA Maryland Habitat Committee

• Formed in February 2016
• Providing a forum to develop project ideas & encourage chapter participation in habitat projects
• Fundraising with BCT to support state habitat projects
• Raising awareness within recreational anglers on the need for habitat restoration and the issues surrounding oysters
• Focusing on building BCT partnerships. ex: CBF, MARI, Lehigh, Cemex
• Provide Opportunities for CCA Chapters to Connect with Communities

www.CCAMDHABITAT.com
Habitat Creates Positive Exposure

Appeals to More Than Just Fisherman!

- Creates a Green Image for Partnering Members by Playing a Role in Improving Chesapeake Ecosystem
- Creates Press Coverage Opportunities
- Builds Relationships through Community Events
- Community Outreach taking place in Schools
Bringing Maryland Into National Spotlight

TIDE is the award-winning National magazine of Coastal Conservation Association

CCA Maryland and BCT partner on COMMUNITY REEF BALL Deployment in the Chesapeake.

FEET WET AND HANDS DIRTY

The Living Reef Action Campaign gets kids get a hands-on experience restoring the Chesapeake Bay ecosystem.

A devastating BCT with decades of over-fishing, habitat destruction, and water pollution have left Maryland’s Chesapeake Bay system greatly stressed. Out of concern for these issues, the Living Reef Action Campaign was created by CCA Maryland, with the goal of increasing awareness of the need to restore the bay’s ecosystem.

This is a wonderful project that exemplifies our fair bay objetive to bring health and beauty back to the Chesapeake.

The campus wide, and nature friendly, reef balls that line the Chesapeake Bays' shoreline are designed to provide habitat for a variety of marine life. They provide a safe place for small marine life to live and grow.

The team designed the reef balls to last for years, and promote marine life growth.

The Living Reef Action Campaign focuses on rebuilding the Bay’s ocean population by encouraging hundreds of school age students to get their hands wet and help clean up the Bay, literally and figuratively. The students will be taught the importance of the bay and the environmental impact their actions have.

The team will work with local universities and schools to educate students about the importance of the bay and the need to save it.

July 25, 2016 was an exciting day for CCA Maryland and BCT as 72 students from each school level were able to participate in the deployment of the reef balls into the Chesapeake. The successful deployment is a result of the dedication of the Living Reef Action Campaign and the commitment of the students, teachers, and volunteers who worked on the project.

The reef balls will be placed in the bay to help restore the ecosystem. The team hopes that the reef balls will help to increase the number of fish and other marine life in the area.

“Thanks to the partnership forged by CCA Maryland, Chesapeake Bay Foundation, Carroll County Schools, and Washington University and Western Maryland, the Living Reef Action Campaign is an ongoing program that will continue to engage the kids of today to build a better future for the Chesapeake Bay.”
Building Lasting Relationships!

Recognized Lehigh Cement’s Commitment to Habitat
Providing Cement to Schools in support of Living Reef Action Campaign

The Carroll County Public School Administration and Building Conservation Trust recently recognized Lehigh’s commitment to Oyster Reef Restoration by presenting a student built Monument displaying the very first Reef Ball built in March 2015. The base holding the reef ball contained oyster shells that had been recycled from within the community.
The Chesapeake Initiative

By helping CCA Maryland’s Habitat Committee build new funding opportunities, you are helping BCT tackle marine conservation and restoration projects here in our Chesapeake Bay! By networking us into new partnerships for Habitat work, you will be supporting BCT’s Chesapeake Initiative where those new relationships and funds achieve lasting results right here in Maryland.

But we need your help!
CCA Expands Living Reef Action Campaign
New Habitat Trailer Promoting Stewardship
Living Reef Action Campaign Update

**Tangier Island Site Update**
- Stevenson University & Kent Island Scuba Dove on Sight 10.12.16
  Collected Video & Pictures for Creating an Awareness Promotion Video
to be in participating schools across the state.
- Data collected is being applied to Stevenson’s 3 year Study comparing the effect
  of Spat Seeded Reef Balls on water clarity and habitat development
- CCA continues to build reef balls at public and private schools across the state.
- Want the habitat trailer to come to a school near you? Contact us today!

**To Date:**
- 72 Reef Balls Deployed 7/28/16, All Seeded with Oysters
- 218 Reef Balls in Inventory as of 11.27.16
- Touched nearly 1000 Students Since Beginning
- Restored more than 4 Million Oysters to the Bay!

*(Recycled Oyster Shell & Seeded Reef Balls)*
Tilghman Reef Ball Growth

- Successful Oyster Growth, Crabs & Fish already utilizing Habitat

Stevenson estimated average Spat Set/Reef Ball on 7.28.16 to be:

**Top Layer 18 Balls:** 2032  
Size Range: 4.65 – 7.70mm

**Bottom Layer 18 Balls:** 1168

Approximately 115,200 Oysters Planted at Deployment
Tilghman Reef - Spat Growth

Oysters Estimated to Average 13.5mm in size after 75 days
Averaged 6.175mm at deployment

Click Picture for Dive Video
What’s Next
Tangier Sound Reef

324 Tons of Reef Material

37° 55.25’ N, 75° 56.58’ W
Donated Pipe & Hauling

Rinker Materials, a division of CEMEX Corp in Frederick, Maryland, has agreed to donate defective pipe including truck transportation to Baltimore/Curtis Bay harbor beginning in December 2016

- Pipe is new manufactured pipe that was damaged, un-sellable
- Pipe comes in 8 Ft. Lengths
- Larger diameter pipes will have small diameters seated inside to create more habitat
Bill of Material
December 2016 Planned Deployment

MARI & BCT anticipate Awarding a Deployment Contract to Smith Brothers Marine in Early December 2016

Project Valued at: $95k (deployment, material cost and trucking)

(98) lengths of piping available, each 8 ft long
Total weight: 646,900 lbs (323.5 Tons)
Engel Cooler Promotional Campaign

Engel Cooler will be running a national social media give away centered around the Tangier Sound Reef Project promoting the work MARI, Building Conservation Trust, Cemex and Engel Coolers are doing to create more Chesapeake Habitat. *More Details Coming Soon!*
2017 Upcoming Projects
2017 Tilghman Reef Deployment

Chesapeake Bay Foundation Oyster Restoration Team

2nd Living Reef Action Campaign Deployment at Tangier Island Site

- Late Spring 2017
- Deploying 144 Reef Balls all Seeded with Oyster Spat
- More than 230,000 oysters will be restored
2017 Turnbull Point Living Shoreline
BCT & South River Federation Proposed Partnership

Phase: Scope Development & Planning

- 700 LF of Shoreline Protection Required
- 2-3 Rows of ~175 Reef Balls/Row
- Exploring design plans of planting native grasses inside Reef Balls
- Engaging 3 Private Schools
- Forecast 4Q2017 Project Start
- Positioning for Grant Partnership
  BCT & South River Federation

Preliminary Construction Cost Estimate - $125K
The Chesapeake Initiative

How Can You Help?

Share Corporate & NGO Relationships to Create Funding Connections
Corporate Team Building Reef Ball Construction
Engaging More Schools
Get Involved by Volunteering to Help With Reef Balls

Contact Rick Elyar at relyar@ccamd.org or 410-977-3782