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

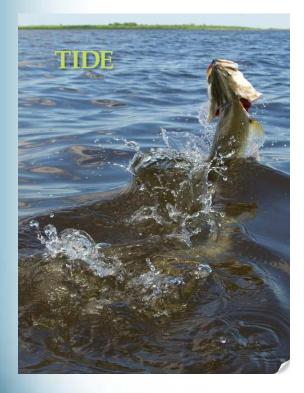
Appeals to More Than Just Fisherman!

- 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

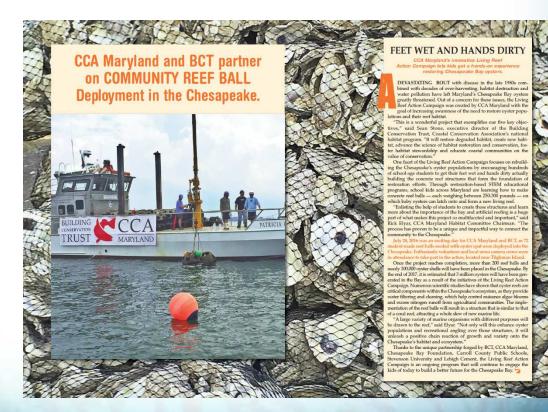




Bringing Maryland Into National Spotlight



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





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:2032Size Range: 4.65 – 7.70mmBottom Layer 18 Balls:1168

Approximately 115,200 Oysters Planted at Deployment





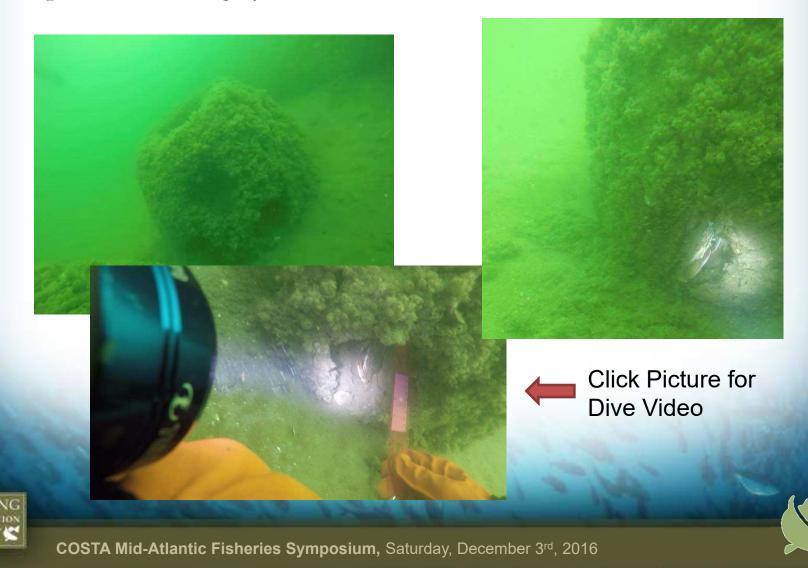




Tilghman Reef - Spat Growth

Oysters Estimated to Average 13.5mm in size after 75 days

Averaged 6.175mm at deployment



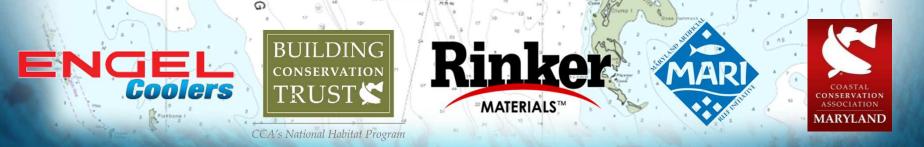
What's Next





Tangier Sound Reef324 Tons of ReefMaterial

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



