

HB 800 APP Facts.pdf

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Position: FAV

**HB 800 – Natural Resources – Waters of the State - Mobile Locator
Application
Delegate Jerry Clark**

Real Costs and Administrative Needs

The below information was provided the Virginia Marine Research Commission
Sheri Crocker – Chief, Administration and Finance
Todd Sperling – App Creator, Administration and Finance

Recommendations for creating an Mobile APP

- Create two – one for iPhone and one for Android. These are two completely separate apps, built on different platforms using different coding languages.
- Plan for yearly recurring costs. Apps need to be maintained and updated fairly frequently: at minimum 1x per year. This is true even if the app does not change; phones and underlying software will.

How long would it take realistically?

- At 40 hours per week, between 2 - 3 months per app to develop, test and get the app on board.

Expected Cost

- For the first year, about \$20,000.00 for each app.
- Subsequent years, \$5,000.00 or less per app for upgrades.

HB800.pdf

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HB800

Natural Resources – Waters
of the State - Mobile Locator
Application

Delegate Jerry Clark

Purpose of this Bill: Require DNR to develop a mobile APP for use by individuals on the waters of the State to aid the in the determination of their location in real time to:

- Natural Oyster Bars
- Yates Bars
- SAV Protection Zones
- Registered Pound Net Sites
- Public Shellfish Fishery Areas
- Aquaculture Leases
- Demonstration Leases
- Oyster Sanctuaries
- Current Regulations
- Other Areas the Dept. Deems Relevant

<https://apps.apple.com/us/app/vmrc-maps/id1103889712>

Open the Mac App Store to buy and



VMRC Maps 4+


Todd Sperling

Designed for iPad

★★★★★ 4.9 • 8 Ratings

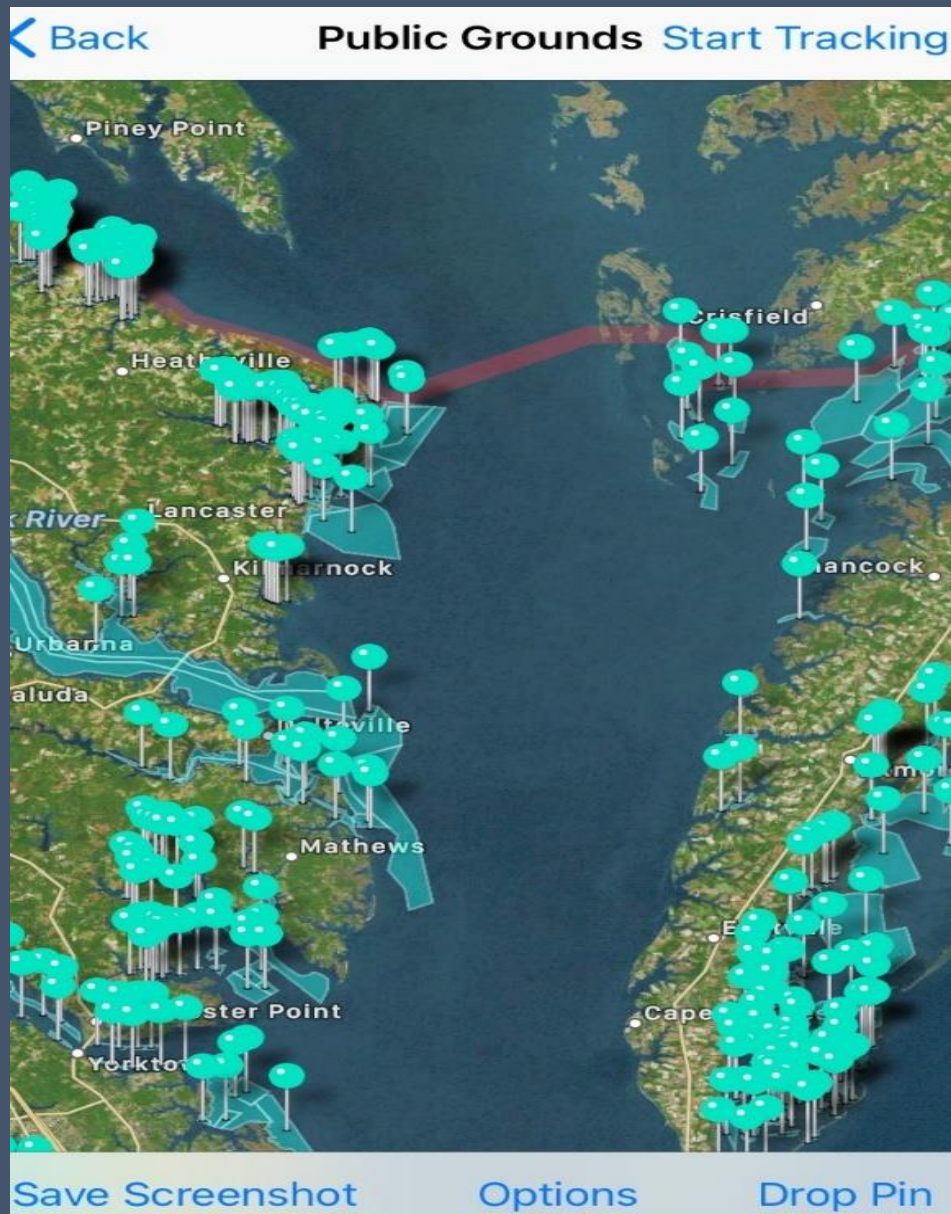
Free

Contents

 VMRC Maps	
Chesapeake Bay Maps	
About This App	>
Artificial Reefs	>
Open Oyster Harvest Areas	>
Public Clamming Grounds	>
Blue Crab Sanctuary	>
Fixed Fishing Devices	>
Private Dredge Permits	>
Condemnation Zones	>
Public Grounds	>
PRFC Jones Shore Area	>

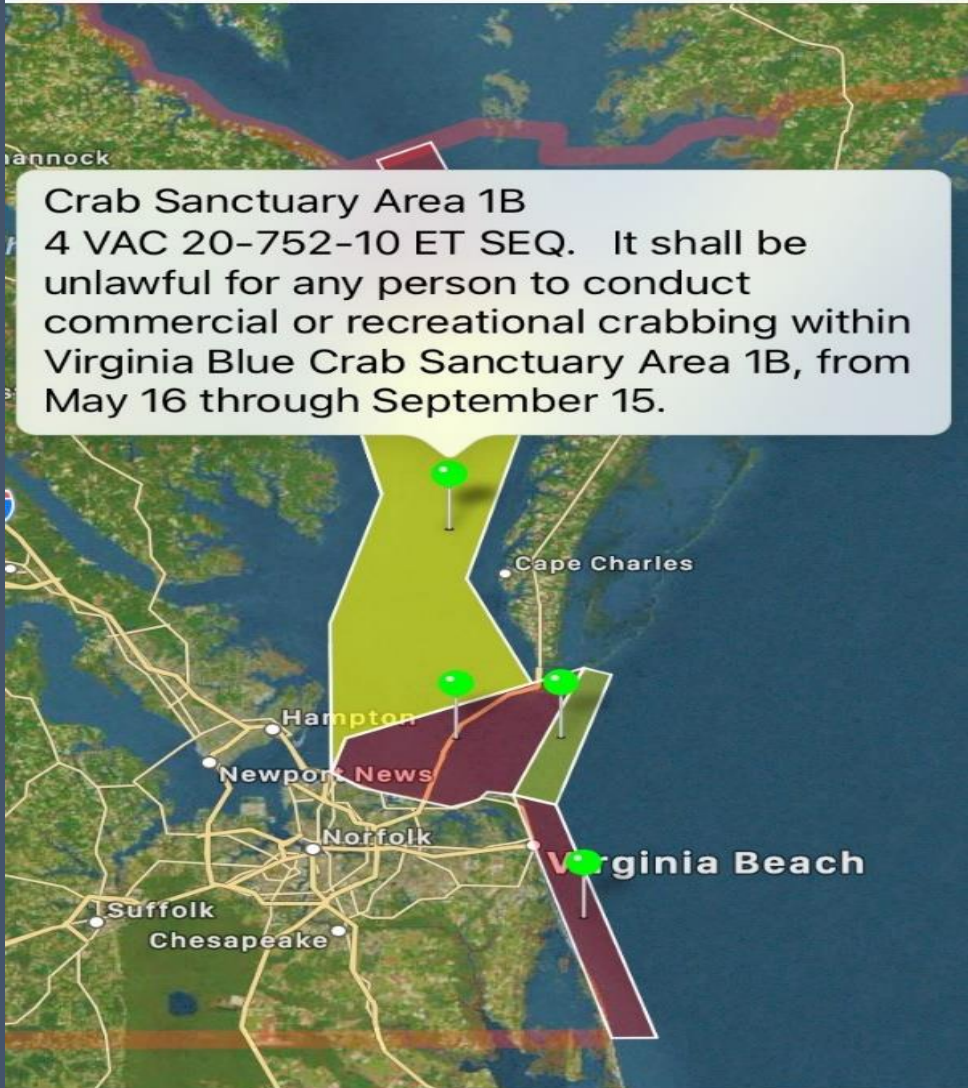
 VMRC Maps	
Oyster Ground Leases	
Oyster Ground Lease Applications	>
Leases Northern Area	>
Leases Middle Area	>
Leases Southern Area	>
Leases Eastern Shore	>
Online Resources	
Web-based Map	>
Oyster Harvest Regulation	>
Oyster Reporting Regulations	>
Options	
App Options	>

Open – Public Grounds



Sanctuary and Prohibited areas

[← Back](#) **Blue Crab Sanctuary** [Start Tracking](#)



Crab Sanctuary Area 1B
4 VAC 20-752-10 ET SEQ. It shall be unlawful for any person to conduct commercial or recreational crabbing within Virginia Blue Crab Sanctuary Area 1B, from May 16 through September 15.

[Save Screenshot](#) [Options](#) [Drop Pin](#)

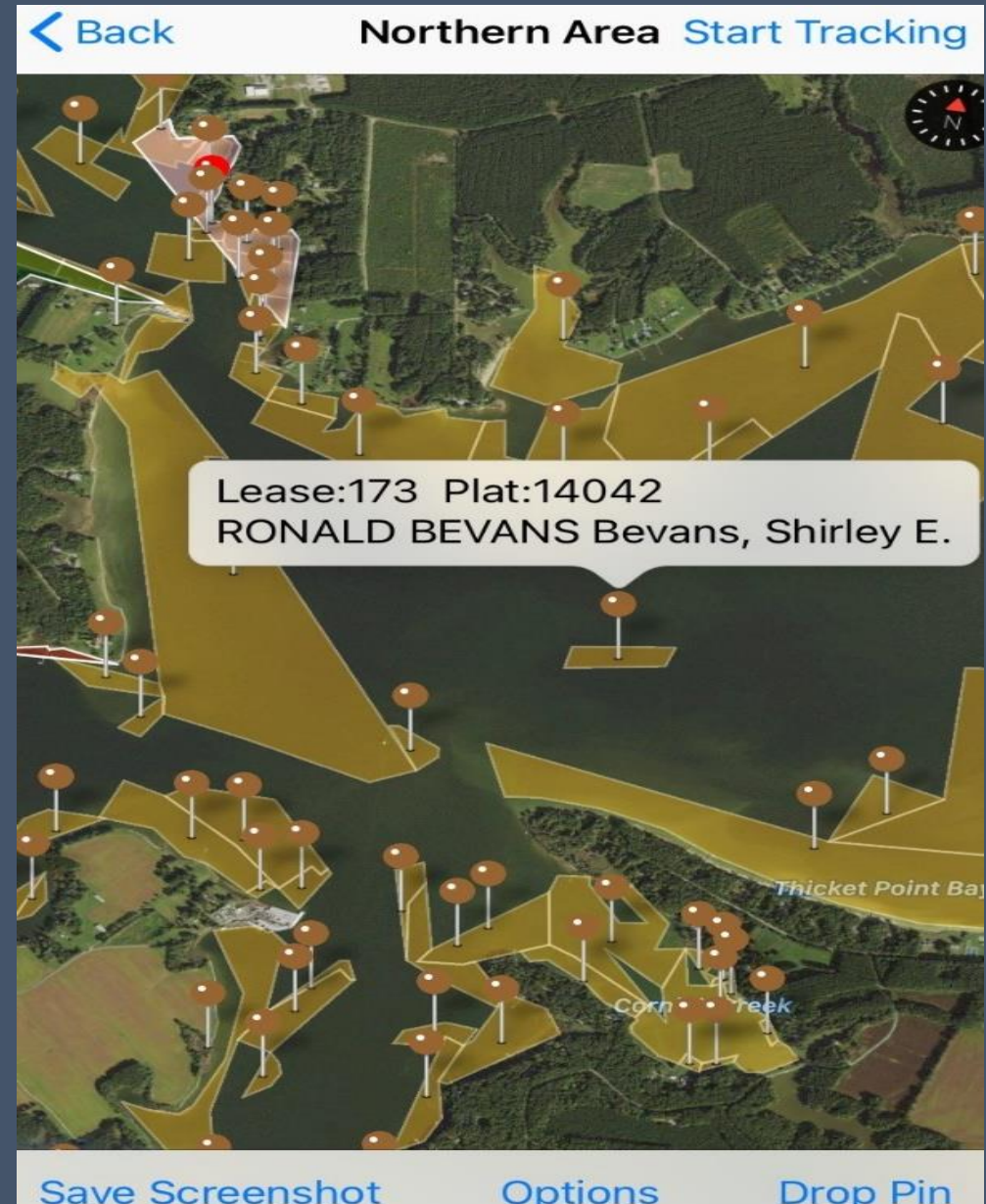
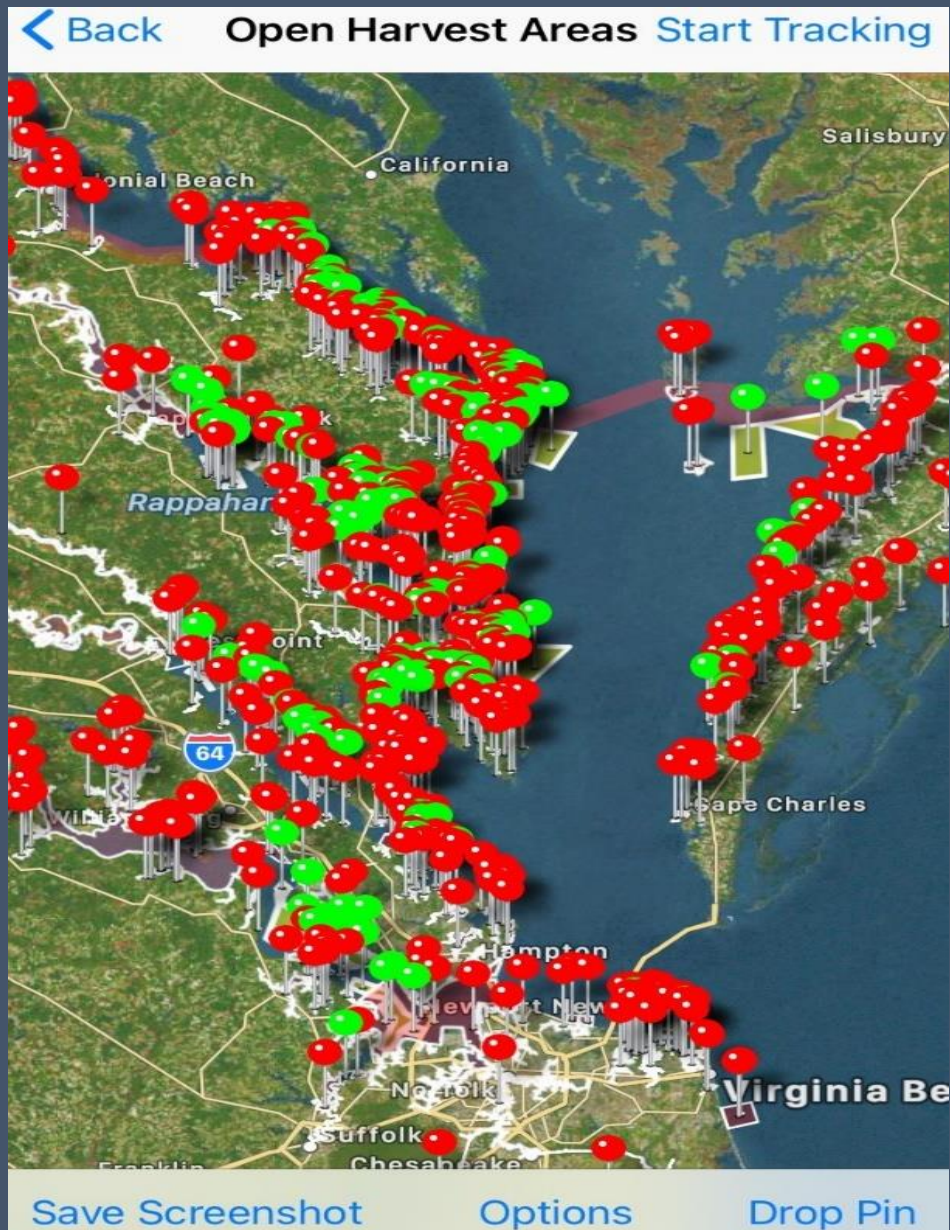
[← Back](#) **Condemnation Zones** [Start Tracking](#)



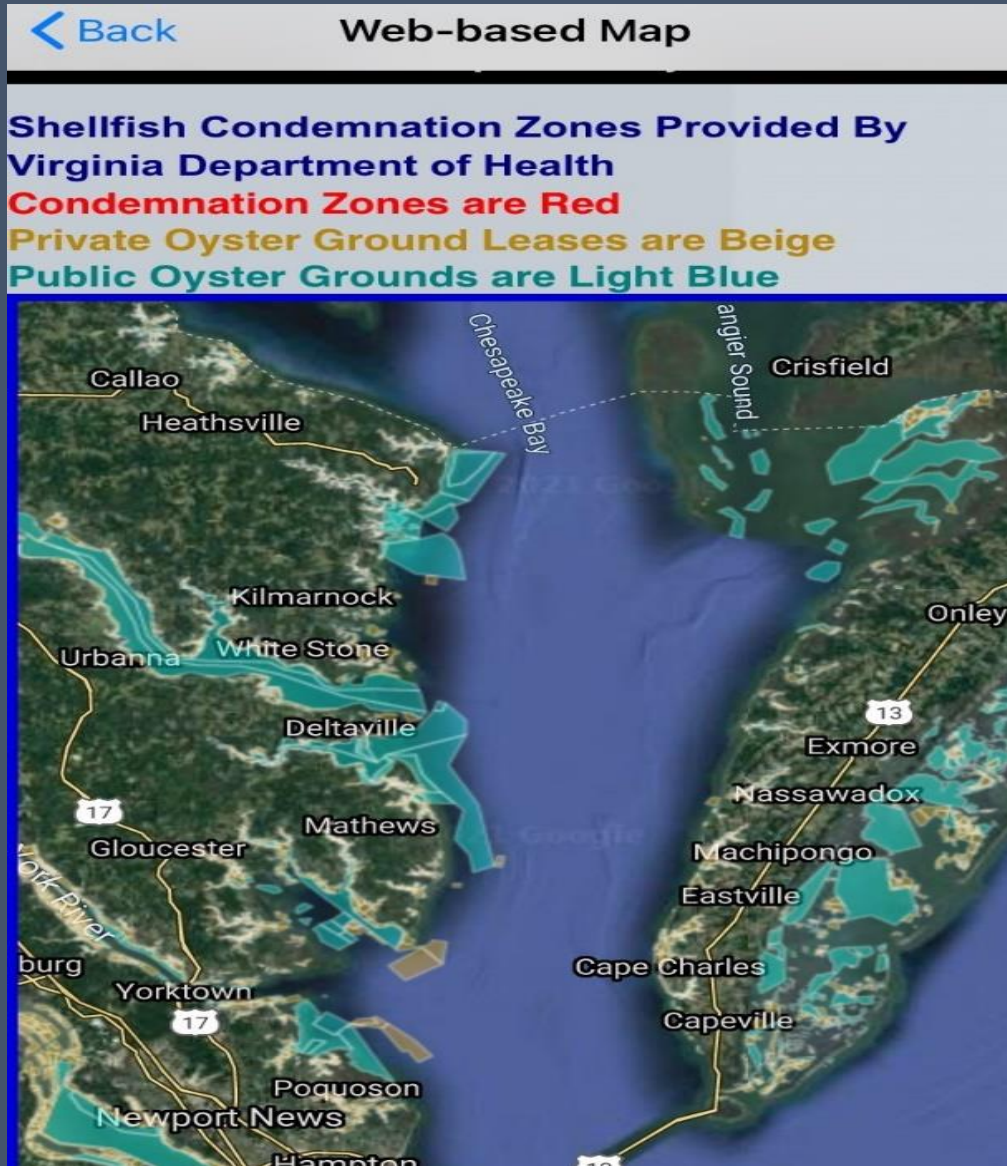
Zone: 078-086 B
Prohibited: Closed Year Round - No Relay Chesapeake Bay

[Save Screenshot](#) [Options](#) [Drop Pin](#)

Open Harvest and Lease Areas



Web-based Map and Regulations



[← Back](#) **Reporting Regulation**

Chapter 610. Pertaining to Commercial Fishing and Mandatory Harvest Reporting [Read Chapter >](#)

- Section 10**
Purpose
- Section 20**
Definitions
- Section 25**
Oyster aquaculture permit requirements
- Section 26**
Clam aquaculture permit requirements
- Section 30**
Commercial Fisherman Registration License; exceptions and requirements of authorized agents
- Section 40**
Registration procedures
- Section 50**
[Repealed]
- Section 60**
Mandatory harvest reporting

Benefits

- Easy access to regulations
- Avoid prohibited areas
- Locate specific markers
- Tracking of personal vessel movements
- Ability to drop PINS at specific locations
- Information on specific leases or lease applications

HB800_CBF_Support_AllisonColden.pdf

Uploaded by: Colden, Allison

Position: FAV



CHESAPEAKE BAY FOUNDATION

*Environmental Protection and Restoration
Environmental Education*

House Bill 800

Natural Resources - Waters of the State - Mobile Locator Application

Date: March 24, 2021	Position: SUPPORT
To: Senate Education, Health, and Environmental Affairs Committee	From: Dr. Allison Colden Maryland Fisheries Scientist

Chesapeake Bay Foundation (CBF) **SUPPORTS** HB 800 which would require the Maryland Department of Natural Resources (DNR) to develop a mobile phone application for determining a user's real time location relative to important regulatory areas and equipment. Such an application would aid all users of the Bay in understanding the rules and regulations that apply to the areas in which they are recreating or engaging in commercial harvest.

A clear understanding of geographic delineations of fishing laws is integral to compliance

Maryland's fishing laws include many important geographic delineations which prohibit or permit certain fishing activities in certain areas. These geographic delineations function to conserve and protect important fisheries habitats, like underwater grasses and restored oyster reefs, to indicate areas of the Bay bottom that have been leased from the state, or to protect public health by preventing harvest of seafood from polluted waters. The violation of regulations and laws associated with these areas can carry hefty fines or result in penalties as serious as a lifetime revocation of an individual's commercial or recreational fishing privileges. A clear understanding of the rules is fundamental to compliance.

A mobile application could provide a quick, easy way to orient fishermen to relevant laws and regulations

The importance of these management areas for resources conservation and the possibility of steep penalties for violating their rules underscores the need for an easy way for users to understand their geographic location and the regulations that they may be subject to in that area. The mobile application proposed in HB 800 would provide users of the Chesapeake Bay with a quick, easy way to find their location, determine if they are within a special management area, and understand the prohibitions or special protections that pertain to that area.

Virginia's mobile app, VMRC Maps, is a positive example of the potential for a Maryland-based app

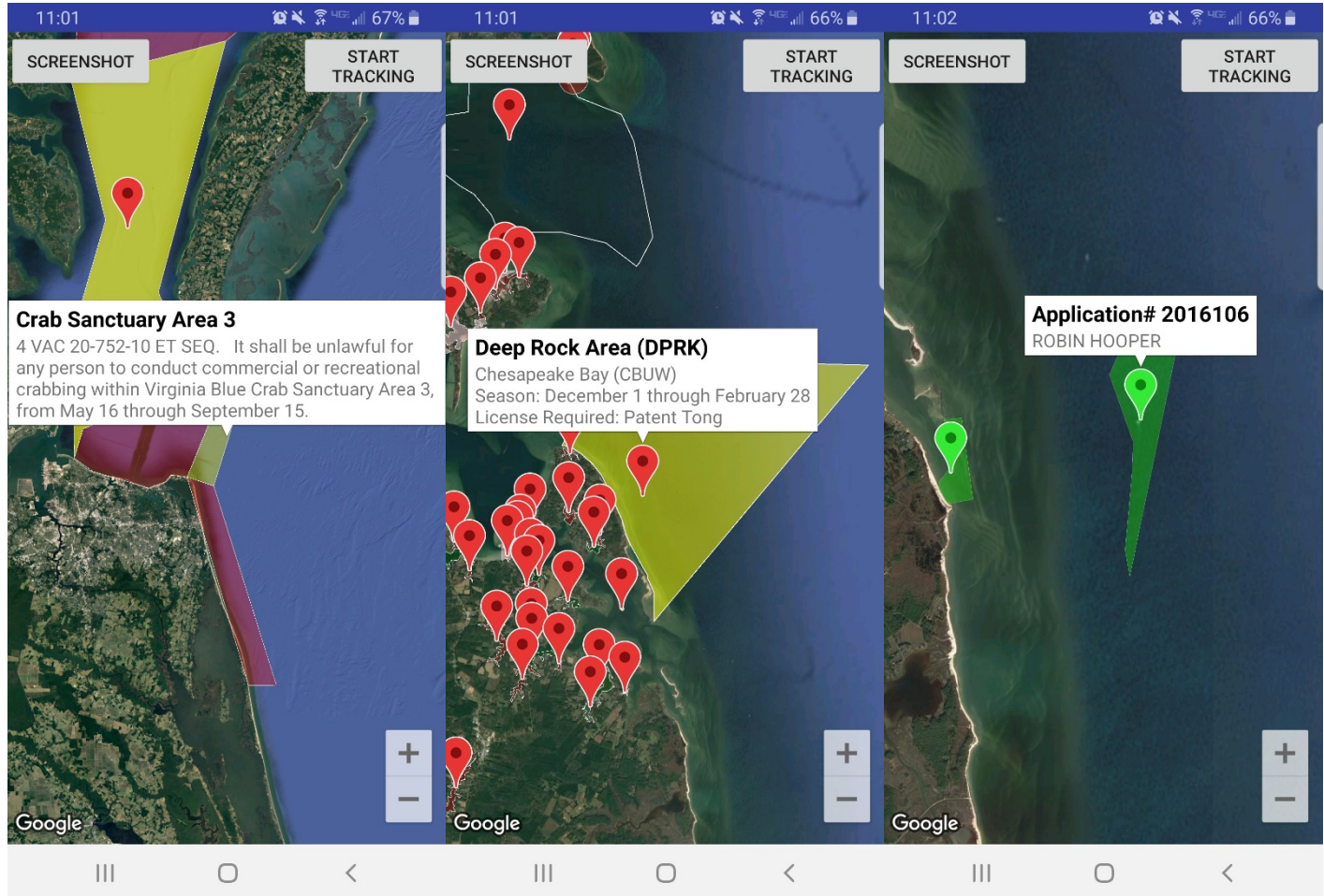
Virginia has had a similar mobile navigation application, called VMRC Maps, for over five years. The VMRC Maps application allows users to see artificial reef sites, oyster harvest areas, clamming grounds, fixed fishing devices, oyster lease grounds, among others. It allows the user to enable real-time tracking of their location using their device's built in GPS. Clicking on a management area in the app brings up a pop-up window describing the actions that are allowed or prohibited in that area and the type of license required to fish legally in that area.

Maryland Office • Philip Merrill Environmental Center • 6 Herndon Avenue • Annapolis • Maryland • 21403
Phone (410) 268-8816 • Fax (410) 280-3513

The Chesapeake Bay Foundation (CBF) is a non-profit environmental education and advocacy organization dedicated to the restoration and protection of the Chesapeake Bay. With over 300,000 members and e-subscribers, including over 109,000 in Maryland alone, CBF works to educate the public and to protect the interest of the Chesapeake and its resources.

Development of a similar app for Maryland recreational anglers, watermen, and other users of the Bay would provide greater clarity on the location and regulations of special management areas and increase effectiveness of enforcement of Maryland's natural resources laws.

CBF urges the Committee's FAVORABLE report on HB 800.



Screenshots from the Virginia VMRC Maps mobile application. From left: Location of a blue crab spawning sanctuary area indicating dates of closure; location of an open oyster harvest area indicating dates open to harvest and gear type allowed; location of a proposed oyster aquaculture lease with lease applicant name and application reference number.

For more information, please contact Robin Jessica Clark, Maryland Staff Attorney at rclark@cbf.org and 443.995.8753.

HB0800_DNR_SUP EHEA 3-24-2021.pdf

Uploaded by: McKitrick, James

Position: FAV



Larry Hogan, Governor
Boyd Rutherford, Lt. Governor
Jeannie Haddaway-Riccio, Secretary

March 24, 2021

The Honorable Paul G. Pinsky
Chair, Education, Health and Environmental Affairs Committee
2 West Miller Senate Office Building
Annapolis, MD 21401

The Honorable Cheryl C. Kagan
Vice Chair, Education, Health and Environmental Affairs Committee
2 West Miller Senate Office Building
Annapolis, MD 21401

Re: Letter of Support – House Bill 800 – Aquaculture Leases – Marking and Recording Requirements – Mobile Application

Dear Chair, Vice Chair and Committee Members,

The Maryland Department of Natural Resources supports House Bill 800. This bill would require the department to create a mobile app that provides specified fishery areas in real time to an end user.

The department supports providing the best information possible in user-friendly methods that reach our stakeholders and the public. While there is a high fiscal note for this initiative, it is possible it could be a part of our existing Major Information Technology Development Plan for replacing our recreational licensing system. However, this effort would not reach its final phase of development until 2023.

The department supports the amendments, which resolve the concerns over the proper location of the law in the Natural Resources Article, as the app would not be specific to aquaculture and also removes references to clam bars that do not exist and all fishing gear that is not tracked. The addition of the registered pound net sites is something that can be provided in an app.

The department believes new technologies are important in providing information, but any change would require resources and time necessary to investigate apps used by other jurisdictions, costs associated with them, as well as any enforcement-related issues that would need to be addressed.

Thank you for allowing the department to provide the above information on HB 800 for the committee's thoughtful consideration.

Respectfully submitted,

James W. McKitrick
Director, Legislative and Constituent Service

Contact: James McKitrick, Director, Legislative and Constituent Services
JamesW.McKitrick@maryland.gov ♦ 443-510-5013

HB800_CCAMD_EHE.pdf

Uploaded by: Sikorski, David

Position: FAV

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**RECREATIONAL ANGLERS
WORKING TO CONSERVE, PROMOTE, AND ENHANCE MARYLAND'S
MARINE RESOURCES**

March 24th, 2021

To: Honorable Paul G. Pinsky, Chair
Honorable Cheryl C. Kagan, Vice-Chair
Honorable Members of the Education, Health & Environmental Affairs
Committee

Re: House Bill 800 - Aquaculture Leases - Marking and Recording Requirements -
Mobile Application

CCA Maryland Position: SUPPORT

House Bill 800 requires Maryland Department of Natural Resources (DNR) to develop a mobile application that will allow users to understand their position on the water and the various uses which are permitted or prohibited in that location.

Development of such technology would assist anglers, watermen and other Bay users in ensuring that their actions are consistent with current regulations and statues. Knowledge of what is allowed is imperative to ensure that regulations consistent with the conservation and management of our shared natural resources and the protection of those which have been privately placed in aquaculture are effective and enforceable.

At this time, multiple apps, including the Access DNR app exist to provide users access to web-based information on what species may be harvested through recreational fishing, but we are unaware of any technology available through DNR that would allow a user to overlay their position with activities allowed in their location.

The DNR aquaculture siting tool currently provides for web browser-based use of a mapping system with multiple layers of information, but lacks mobile and location specific functionality at this time.

For these reasons, we respectfully request a favorable vote on House Bill 800.

For more information, please contact David Sikorski, Executive Director @ david@ccamd.org or (443)621-9186