Hampton Roads Planning District Commission

Hampton Roads Coastal Resources Technical Assistance Program Final Report

Fiscal Year 2013 – 2014

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PEP 15-01 | January 2015
Grant #NA13NOS4190135 | Task 43

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HAMPTON ROADS COASTAL RESOURCES TECHNICAL ASSISTANCE PROGRAM

FISCAL YEAR 2013 – 2014
FINAL REPORT

This report was produced, in part, through financial assistance from the Virginia Coastal Zone Management Program in the Virginia Department of Environmental Quality through Grant No. NA13NOS4190135 from the National Oceanic and Atmospheric Administration. The views expressed herein are those of the authors and do not necessarily reflect the views of NOAA or any of its sub-agencies. Federal financial assistance to this project amounted to $60,000 or approximately fifty percent of the total project cost.

Preparation of this report was included in the HRPDC Unified Planning Work Program for FY 2013 – 2014, approved by the Commission at its Quarterly Commission Meeting of April 18, 2013, and in the HRPDC Unified Planning Work Program for FY 2014 – 2015, approved by the Commission at its Executive Committee Meeting of June 19, 2014.

Prepared by the staff of the
Hampton Roads Planning District Commission

JANUARY 2015

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REPORT DOCUMENTATION

TITLE:
Hampton Roads Coastal Resources Technical Assistance Program Fiscal Year 2013-2014

REPORT DATE
January 2015

GRANT/SPONSORING AGENCY
DEQ/NOAA/LOCAL FUNDS

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ABSTRACT

This report describes the environmental technical assistance program conducted by the Hampton Roads Planning District Commission during FY 2013 – 2014 through its Coastal Resources Management Program. This program encompasses environmental impact review, participation in state and federal programs, coordination of regional environmental programs addressing environmental issues, such as the Chesapeake Bay and wetlands, public information and education, and technical assistance to Hampton Roads localities. It contains representative examples of the technical work, comment letters, outreach materials, and associated materials generated and used in assisting the region's seventeen local governments, supporting the Virginia Coastal Zone Management Program, and working with the other Planning District Commissions in the Coastal Zone.

ACKNOWLEDGMENTS
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INTRODUCTION

In March 2013, the Hampton Roads Planning District Commission submitted a proposal to the Virginia Coastal Zone Management Program (VCZMP) for funding to continue the HRPDC's Technical Assistance Program. Through this program, the HRPDC provides technical assistance on a variety of environmental and coastal resources management issues to its seventeen member local governments and to coordinate their response to those issues.[1] It also provides assistance to the incorporated towns in the region as well as to a wide variety of non-governmental stakeholders. This Program has operated successfully with financial assistance from the Virginia Coastal Zone Management Program since the VCZMP's inception in 1986. In October 2013, the HRPDC was awarded financial assistance to maintain its Technical Assistance Program through September 2014; this award was later extended through December 2014. This report provides an overview of the activities and accomplishments of the Hampton Roads Technical Assistance (Regional Coastal Resources Management) Program during that period.

The Hampton Roads Technical Assistance Program is a comprehensive, interrelated initiative, providing on-call staff capability, a regional coordination mechanism, and related technical studies. It assists the region's localities on short-term local issues, ensures a collective response to regional, state and federal issues as they arise, and facilitates cooperation and coordination among the localities. The ideas for major technical studies, such as the Hampton Roads Tributary Strategy Program (including the Hampton Roads Watershed Roundtable), ongoing analysis of the impacts of the Chesapeake Bay Agreement and related regulatory initiatives, the regional green infrastructure project, coordination of regional involvement in the state's TMDL process, the Energy Efficiency and Conservation Block Grant Program and other energy issues, and the Commission's efforts related to climate change and sea level rise, as well as the staff follow-up to carry them to fruition, have been provided through the Technical Assistance Program.

Of particular significance, VCZMP funding for this program has provided seed money allowing the region to undertake new environmental initiatives, such as the Regional Water Supply, Groundwater, Wastewater and Stormwater Management Programs, including the public information and education components of each. These regional initiatives, which continue to evolve, are now institutionalized and have been enhanced through dedicated local funding. These regional programs are unique examples of intergovernmental cooperation in management of coastal resources in the Commonwealth.

The Hampton Roads Technical Assistance Program also enables the HRPDC to participate in and support a number of core elements of the Virginia Coastal Zone Management

[1] The Hampton Roads Planning District Commission consists of the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York, and the Town of Smithfield. Smithfield joined the HRPDC as a full member on July 1, 2014.

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Program, such as the environmental impact review program, wetlands and dune regulations, Chesapeake Bay Preservation Act (CBPA) regulations, air quality regulations, and the large number of state water quality programs. This participation results in cost savings to the state by educating localities collectively about state and federal initiatives and coordinating local government input to these efforts. Over the past twenty-eight (28) years, several hundred local government staff members from the region's sixteen local governments have received technical training in wetlands regulations and delineation, CBPA implementation, erosion and sediment control, stormwater management, low impact development and environmental site design, flood hazard management, geographic information systems, land conservation, sea level rise, watershed management, and comprehensive coastal resources management plans. Local government board members, staff from other PDCs, and representatives of the private sector have also participated. As a result, the effectiveness of local government implementation has increased.

Through review of environmental impact documents and coastal zone consistency determinations, the regional program has also facilitated rapid resolution of local government concerns with the impacts of state projects proposed by the Virginia Department of Transportation (VDOT), the Virginia Community College System, state supported colleges and universities, and others, as well as federal projects such as port security and inspection systems, harbor dredging, military facility construction and operations, Base Realignment and Closure decisions, encroachment issues, Coast Guard permits for marine events and operations, Outer Continental Shelf Energy Development, and related resource management programs.

The Technical Assistance Program allows the HRPDC to serve as a central source of environmental data and information, including water and wastewater data, soil surveys, historic aerial photographs, and regional land use data. HRPDC also houses and collects a wide variety of GIS datasets from various federal, state, and local partners, including LiDAR elevation data, as well as datasets developed by HRPDC staff.

The FY 2013 – 2014 Hampton Roads Technical Assistance Program enabled the region's localities to continue to address, in a comprehensive and integrated fashion, many aspects of coastal resources management - the Chesapeake Bay Program, implementation of the Albemarle-Pamlico National Estuary Program with North Carolina, environmental impact review, local comprehensive planning, CBPA and Chesapeake Bay TMDL implementation, wetlands protection, shoreline management, climate change/sea level rise and energy initiatives, public access, and environmental database development and analysis through the HRPDC's Geographic Information System (GIS). The program has allowed the continuation of regional support for and participation in the VCZMP, regional participation in other state and federal initiatives, completion of necessary technical studies, technical assistance to the region's localities, and conduct of public information and education activities.

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PROGRAM OBJECTIVES

At the outset of the FY 2013 – 2014 Hampton Roads Technical Assistance Program, the HRPDC, in cooperation with staff from its member local governments, established six (6) objectives for the Program. These overall objectives, while expanded in scope, have remained largely the same since program inception. They are:

1. To assist the localities of Hampton Roads Virginia to implement the recommendations of the Virginia Coastal Zone Management Program, related state and federal environmental management programs as well as the Chesapeake Bay Program and related state legislation and regulations.

2. To support the Commonwealth of Virginia in implementing the VCZMP through coordination of local and regional review of environmental impact assessments/statements, applications for state and federal environmental permits and related environmental documents and by serving as an information conduit between the state and localities on coastal resource management issues.

3. To complete regional environmental studies, necessary to support local government consideration of the Chesapeake Bay Agreement priorities, including development and implementation of the Chesapeake Bay Total Maximum Daily Load (TMDL).

4. To enable Hampton Roads, Virginia to continue to play an active role in the development, implementation and refinement of the Virginia Coastal Zone Management Program, Chesapeake Bay Agreement, Chesapeake Bay Preservation Act, and related environmental initiatives.

5. To improve the coordination and quality of local and regional decision-making concerning coastal and related environmental resources.

6. To increase public awareness of the value of coastal resources and of the local and regional efforts to manage them.

To accomplish these objectives, a comprehensive program was structured involving a range of activities in the following categories: VCZMP Program Support, Technical Studies, Local Assistance and Coordination, and Public Information and Education.

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PROGRAM ACCOMPLISHMENTS

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM SUPPORT

Environmental Impact Review

The HRPDC staff reviews and comments on all applications for state and federal regulatory permits and the associated Environmental Impact Assessments/Statements. Local staff representatives are regularly contacted to identify any concerns individual local governments may have with specific projects. On occasion, the Hampton Roads Planning District Commission may be informed on particular projects with significant regional or local impacts. Generally, no formal action is taken by the Commission as a result of this notification; however, historically, the Commission has requested more extensive HRPDC staff and local government review of particular issues. HRPDC staff responds to nearly all requests for comments from the Department of Environmental Quality (DEQ).

From October 1, 2013 through September 30, 2014, the HRPDC staff reviewed and commented on fifty-four (54) environmental impact assessments and statements for both state and federal projects. Projects reviewed in FY 2013 – 2014 ranged widely in complexity. The HRPDC, in cooperation with the localities, worked to ensure that these projects were coordinated and met local government requirements. HRPDC's responses are combined with any others from state agencies when DEQ makes its final determinations. While these determinations (and the collected comments) are conveyed back to HRPDC, DEQ staff does not generally identify any specific impacts to projects based on HRPDC staff comments. However, in several cases DEQ staff or staff from other state agencies has followed up with HRPDC staff to have comments clarified. An example from this grant year would be a U.S. Army Corps of Engineers project in Norfolk (DEQ#14-082F), which resulted in additional consultation between the Virginia Marine Resources Commission staff, HRPDC, and the City of Norfolk.

In addition to environmental impact reviews and assessments, HRPDC staff also reviews grant proposals for federal and state funding. These proposals are reviewed for local and regional impacts and significance, as well as to ensure that tasks are not duplicated. From October 1, 2013 through September 30, 2014, the HRPDC staff reviewed and commented on twenty-four (24) grant proposals.

Appendix A contains a listing of all projects and proposals reviewed through this program component during the period from October 1, 2013, through September 30, 2014, as well as sample comment letters on representative projects. To improve the information available for consideration by the Commission and to facilitate tracking of local and state actions on environmental documents, the HRPDC staff developed a database and reporting system during a previous grant year. All environmental documents reviewed since July 2001 have been entered into the database. HRPDC comment letters for the following projects are included in Appendix A:

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1) DEQ#13-188F, Center Point Intermodal Center Permit Modification, Kenyon Road Connector
2) DEQ#13-213F, Cascade East Apartments
3) DEQ#14-025F, Construction and Operation of a Small Arms Range Facility at Naval Weapons Station Yorktown
4) DEQ#14-054S, Construct a Consolidated Scientific Research Facility
5) DEQ#14-062F, Defense Logistics Agency Fuel Pier Replacement Project, Joint Base Langley-Eustis-Langley, Hampton
6) DEQ#14-082F, Fort Norfolk Shoreline Stabilization Project
7) DEQ#14-111F, Surry-Skiffes Creek-Whealton Powerline Project

Coordination of review and comment on environmental documents with the region's localities is frequently problematic, because of time constraints placed on the review process by the state and, in some cases, by project applicants who request expedited review from the state. Historically, environmental documents were distributed by the state to the Chief Administrative Officers in the localities. Internal distribution did not always go to the same local government staff person and frequently prevented the locality and the HRPDC from commenting within the state's time constraints. In May 2003, local government and HRPDC staff recommended that the region's Chief Administrative Officers designate specific staff persons to coordinate internal review of environmental documents. Following the internal designation of contact points, the DEQ was formally requested to distribute all documents to the designated staff contact/coordinator. After more than nine years of experience with the modified review system, it appears that the review process works much more efficiently.

Based on legislation enacted during the 1996 Session of the General Assembly, all public notices for Virginia Pollutant Discharge Elimination System, Ground Water Withdrawal, Virginia Water Protection, Hazardous Waste, and Air Emissions Permits are provided to local governments and PDCs for review. To facilitate this effort, the staff developed and maintains a tracking system and database for all five types of permits.

Participation in State and Federal Programs

Several state and federal environmental programs encourage use of PDCs as a cost effective mechanism for informing local governments and seeking their input for state and federal program development and accomplishment. For example, the Chesapeake Bay Program in both its 1996 and 2002 Local Government Participation Action Plans recommended better use of technical assistance providers, such as PDCs, to serve as vehicles to distribute information and outreach on Chesapeake Bay-related issues. It also suggested development of a network of local officials and staff with expertise in dealing with resource protection issues. Virginia's Regional Cooperation Act strongly recommends this type of role for PDCs. Several programs, including the Virginia Coastal Zone Management Program, do use the PDCs in this manner. Historically, NOAA's Section 312 evaluation of the Virginia Coastal Zone Management Program has recognized the benefits and cost-effectiveness of the

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network of PDCs in supporting the VCZMP and in assisting their member local governments. During the 2006 NOAA evaluation of the Virginia Coastal Zone Management Program, the Evaluation Team provided favorable comments on the role and activities of PDCs. Those comments were formalized in the final Section 312 Evaluation Report.

In the Hampton Roads region, the Hampton Roads Technical Assistance Program and its associated committees provide such a network. Both HRPDC staff and local government members of the HRPDC Advisory Committees frequently serve on state and federal advisory groups. On a regular basis, the participating localities request that the HRPDC staff serve as their representative to these advisory groups. Alternatively, the Committees may select a local government member to represent the region. In both cases, the HRPDC Committees provide all seventeen member localities with a mechanism to participate, at least indirectly, in the state or federal program(s). Also, data and information on Hampton Roads conditions are provided by the Hampton Roads representative (HRPDC or local government staff) to state and federal agencies on behalf of the localities, thus minimizing state and federal agency data collection and input costs. During FY 2013-2014, this program included regional participation on state panels addressing stormwater management, the Chesapeake Bay Program, and climate change.

The HRPDC staff worked closely with state and federal agencies on coordination of programs as they affect the Hampton Roads region. This work involved follow-up to previous studies conducted by the HRPDC with VCZMP-funding, serving on advisory committees supporting plan and regulatory development, and development of new cooperative initiatives involving state, local, federal and private entities.

Virginia Coastal Zone Management Program

During the grant period, the HRPDC staff continued to participate in Coastal Zone PDC meetings, contributing to the ongoing refinement of the Virginia Coastal Zone Management Program. The HRPDC staff participated in Coastal Policy Team meetings on March 26, 2014 and September 30, 2014. HRPDC also attended two Coastal PDC meetings during the term of the grant in November 2013 (hosted by the Richmond Regional PDC) and June 2014 (hosted by the Northern Virginia Regional Commission).

The Coastal PDCs provide a network linking all regional agencies and localities in the Coastal Zone to address environmental issues. Although somewhat more limited in scope, similar networks exist among the Coastal PDCs and their non-coastal counterparts in the southern watersheds insofar as interstate environmental issues with the State of North Carolina are concerned, and with their counterparts throughout the Chesapeake Bay Watershed on Chesapeake Bay related issues. The HRPDC staff has played an integral role in the development and enhancement of these larger networks as well.

Efforts to coordinate activities with the other Coastal PDCs in all facets of environmental planning continued throughout the year. Representative activities in 2014 focused on exchanging information among the PDCs on issues such as TMDLs, nonpoint source

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pollution management plans, the Community Rating System, and PDC studies and projects related to sea level rise and water quality.

Chesapeake Bay Program

The Hampton Roads Technical Assistance Program continues to support the HRPDC's participation, on behalf of its member localities, in the Chesapeake Bay Program. Beginning in FY 1998-1999, this element of the Program received greatly increased emphasis through several initiatives, including the renewal of the Chesapeake Bay Local Government Advisory Committee, establishment of a Metropolitan Areas Work Group, development of the Chesapeake Bay Agreement 2000 and development of new and revised Chesapeake Bay Program Implementation Strategies. The Commission's involvement with the Chesapeake Bay Program continued with the development of the Tributary Strategies and the Chesapeake Bay Watershed Model. Implementation of the Chesapeake Bay TMDL continues to be a major focus of HRPDC's environmental work.

In addition, both HRPDC and Hampton Roads local government staff maintain involvement on various federal and state advisory and regulatory committees. While this participation is often funded by other programs, the HRPDC provides a forum, through the Regional Environmental Committee, for those representatives to gather information and responses from other local governments in the region, and to convey information from these advisory groups back to the region.

SPECIAL PROJECTS AND TECHNICAL STUDIES

The HRPDC staff regularly coordinates with local and regional partners to identify timely and appropriate special projects or technical studies that address important regional issues. The HRPDC staff and regional advisory committees identify potential topics for special projects or technical studies during the grant application process, but often there are important issues that arise during the grant year, and this grant allows HRPDC staff to respond to those needs as they occur. Throughout the course of this grant, the HRPDC staff identified and completed work on three special projects. These projects were:

1) Continuation and completion of assistance to the Virginia Association of Counties regarding the impact of changing insurance industry practices on coastal communities
2) Revision and updating of regional maps to support the TapIt program promoting the use of reusable water bottles
3) Revision and updating of a regional digital elevation model to reflect newly acquired LiDAR elevation data

In May 2013 the HRPDC staff was contacted by staff from the Virginia Association of Counties (VACo) seeking assistance with assessing the impact of changing insurance industry practices on coastal communities. In particular, there were reports of insurance

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companies withdrawing or increasing the cost of homeowner's insurance in certain communities. The HRPDC staff was asked to assemble data and develop maps to illustrate the potential impact of these changes. During this grant project, the HRPDC finalized the collection and analysis of local property data and developed, in consultation with VACo, a final map design. Data was collected for forty-two (42) of forty-four (44) coastal cities and counties. Two maps, one showing areas and the total value of property within 2,500 feet of tidal waters and a second showing areas and the total value of property within one mile of tidal waters, were created for each community. A summary of the data showing the total impact on each city, county, planning district, and the coastal zone was also created. These products were incorporated into VACo's report to its members, which is available on the VACo website.[2] Two examples of the final maps and the local data summary are included in Appendix B.

The HRPDC manages askHRgreen.org, a regional environmental education campaign program that provides information on a wide variety of issues to local governments, businesses, and residents. AskHRgreen.org also maintains partnerships with many local, regional, state, and national environmental advocacy programs. One of these programs is TapIt, which promotes using tap water and reusable water bottles instead of bottled water. As part of this grant project, the HRPDC staff updated regional maps showing the locations and contact information for area businesses participating in the TapIt program; these businesses allow the general public to refill water bottles for free. This work involved verifying that these businesses were still open and that contact information was correct, creating a GIS layer showing the locations of these businesses, and creating new maps, which are available to the public on the askHRgreen.org website.[3] The maps are included in Appendix C.

One of the projects conducted under the HRPDC's FY11-12 technical assistance program was the creation of a seamless regional digital elevation model (DEM) that combined several sub-regional elevation datasets into a single layer. During the FY13-14 grant year, the HRPDC contributed to the acquisition of new Light Detection and Ranging (LiDAR) elevation data for eight localities in the eastern half of Hampton Roads which had been excluded from some previous data acquisition efforts. This new dataset is a significant improvement over previous datasets, incorporating higher resolution, better accuracy, and additional considerations, such as a requirement to acquire the data around low tide (a requirement that was included in the scope of work at the request of the HRPDC and other Virginia stakeholders, such as VIMS). The HRPDC staff has used this new data to update the regional digital elevation model, which has resulted in a more accurate layer with fewer gaps and errors. A description of the new DEM is included in Appendix D.

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[2] http://www.vaco.org/vaco-coastal-insurance-report/
[3] http://askhrgreen.org/wp-content/uploads/2014/07/TapIt-Map-070714.pdf

LOCAL ASSISTANCE AND COORDINATION

Technical Assistance

This element of the Hampton Roads Technical Assistance Program entails staff support and assistance to local governments and private entities as they address key coastal resources and other environmental issues such as TMDLs, habitat restoration, riparian buffer creation and protection, energy, climate change, aspects of the Chesapeake Bay Program, wetlands and dune protection, and nonpoint source pollution in their comprehensive planning process and related activities. Specific local projects to be addressed through this element are identified by the localities throughout the grant year. These requests encompass assistance on grant proposals, assistance on permit issues, identification of state or federal agencies that may be of assistance for local projects, information about legislation or regulations, identification of technical resources that may be useful to a locality in developing a study, and responding to an elected official's request for information. The localities and others frequently turn to the HRPDC for assistance on GIS mapping and analysis projects. Through this element of the program, the HRPDC staff also assists private entities, such as the Back Bay Restoration Foundation, Elizabeth River Project, Friends of Powhatan Creek, Hoffler Creek Wildlife Foundation, Lynnhaven River NOW, and others in their environmental planning and restoration initiatives. Aerial photographs and additional technical information on wetlands, hazardous waste sites, and soils are provided to private consultants. A specific example of local technical assistance is the provision of tide gauge data to James City County to assist with their discussions and planning for flooding and sea level rise.

The HRPDC staff continued to work with representatives of the affected local governments in their review, evaluation and use of recent PDC environmental management reports. The focus of this effort has been on the review and use of the region's green infrastructure plan, regional climate change research and analysis, and various stormwater and water resource management studies. Discussions have also taken place regarding the need for additional data, such as regional land use/land cover, elevation, and subsidence trends, to be collected for use in various technical analyses.

The HRPDC staff continued to advise the region's seventeen localities on environmental issues in conjunction with development of and revisions to local comprehensive plans, development regulations, and related issues. The primary issues addressed through this program continue to be state and federal Wetlands Regulatory Programs, Stormwater Management Programs, groundwater issues, and all facets of the Chesapeake Bay Program. Most of the region's member localities have received individual assistance through this program during the past year. An increasing emphasis of local government support on environmental issues has been in the legislative and regulatory arena. During FY 2013 – 2014, the areas of emphasis included stormwater management, groundwater issues, the Chesapeake Bay TMDL, sea level rise, and climate change.

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The HRPDC staff continued development and enhancement of the region's geographic information system (GIS). The HRPDC staff continued to work with the localities, other PDCs, and state agencies in both Virginia and North Carolina in coordination of GIS planning and implementation. With the HRPDC system now fully functional, a concerted effort is being made to take advantage of this technology in all HRPDC technical studies. GIS development activities have focused on support for ongoing grant-funded technical studies, comprehensive planning services, local government requests, and other ongoing HRPDC programs. A specific example is the organization and distribution of LiDAR data and derived products to individual local governments.

Regional Coordination Process

The Hampton Roads Technical Assistance Program enables the HRPDC to maintain a regional coordination process on environmental issues while also providing links to other ongoing regional environmental programs. Historically, this has been achieved through the Hampton Roads Joint Environmental Committee, which was comprised of the Chesapeake Bay Committee and the Regional Stormwater Management Committee. In August 2013, the Joint Environmental Committee voted to dissolve and adopt new by-laws as the Hampton Roads Regional Environmental Committee, which held its first meeting in September 2013. Through the Regional Environmental Committee, HRPDC staff support local governments in implementing legal requirements regulatory programs, such as the Chesapeake Bay Preservation Act, Chesapeake Bay TMDL, and Comprehensive Coastal Resource Management Plans. This process also helps the region by providing support for coastal resources management an environmental education.

During the course of the grant year, the HRPDC staff continued coordination of the ongoing consideration by the region's localities of various watershed issues. Because of issues associated with stormwater regulations and the Chesapeake Bay TMDL, the HRPDC staff and Committee continued to focus on them during the year. Sea level rise and flooding were also discussed several times during the course of the grant. The meetings usually include several main presentations and often include discussion of potential project ideas or responses to regulatory developments. Each meeting also closes with an opportunity for regional and local staff to provide status reports or ask questions on issues relevant to the committee.

The following points summarize the activities of the Hampton Roads Regional Environmental Committee during the year.

- October 3, 2013 –The Regional Environmental Committee heard presentations from two outside speakers, Mr. Clifton Bell (Brown and Caldwell) and Ms. Kelly Burks-Copes (U.S. Army Corps of Engineers). Mr. Bell's presentation was on a DEQ study on Chlorophyll-*a* and its potential implications for total maximum daily load requirements. Ms. Burks-Copes's presentation covered a study by the USACE Engineer Research and Development Center on the vulnerability of Naval Station Norfolk to flooding and sea level rise. The HRPDC staff also updated the Committee

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on its Section 309 grant project ("Land and Water Quality in Hampton Roads"), the status of upcoming VCZMP-funded grants, stormwater monitoring data for TMDLs, and the regional stormwater program budget.

- November 7, 2013 –This meeting featured briefings from the HRPDC staff and DEQ representatives. HRPDC staff updated the Committee on the HRPDC's Section 309 grant project, state-level discussions about nutrient trading regulations, and an effort led by the Virginia Association of Counties looking at homeowners insurance in coastal communities. DEQ representatives updated the Committee on various TMDLs in the region and stormwater program requirements.

- January 2, 2014 –This meeting featured updates from the HRPDC staff to the Committee on a circular developed by the U.S. Geological Survey (with HRPDC assistance) on land subsidence and sea level rise in the region, the status of various VCZMP-funded grants, and a grant opportunity from the Hurricane Sandy Coastal Resiliency Competitive Grant Program. The meeting also included a discussion on the regional legislative agenda and a listening session for the Committee to provide input as part of the Envision Hampton Roads regional strategic planning effort. presentations from HRPDC staff on the HRPDC 2040 Socioeconomic Forecast and a regional bacteria study. HRPDC staff also briefed the Committee on updates from the Coastal Zone Management Program and the status of several HRPDC-CZM grant projects.

- February 6, 2014 –This meeting featured a presentation from Ms. Jackie Rickards (Middle Peninsula PDC) on the MPPDC's Section 309 grant project efforts to date. The meeting also included updates from the HRPDC staff on the regional legislative agenda, VCZMP grants and other information on the VCZMP, the Hurricane Sandy Coastal Resiliency Grant Program, and information and events related to sea level rise and recurrent flooding.

- March 6, 2014 – This meeting featured two presentations from outside speakers. Ms. Justine Woodward (VMRC) gave a presentation to the Committee on the status of the living shoreline general permit, which was called for in SB964. Mr. Russ Baxter, DEQ, gave a presentation to the Committee on the upcoming revised Chesapeake Watershed Agreement and its differences from the previous agreement. The meeting also featured briefings from the HRPDC staff to the Committee on the HRPDC's FY15 Unified Planning Work Program, the results of the annual HRPDC retreat, regional environmental education efforts, and HRPDC VCZMP-funded grant projects and developments.

- April 3, 2014 – This meeting featured two presentations. Mr. Clay Bernick (Virginia Beach), a Committee member, gave a presentation on the City of Virginia Beach's North Landing River Greenway Management Plan and other greenways planning efforts. Mr. Jim Redick (Norfolk) gave a presentation on the efforts of the Secure Commonwealth Panel's Recurrent Flooding Subpanel. The meeting also included

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updates from the HRPDC staff on VCZMP-funded grant projects, potential program changes to the VCZMP, and sea level rise. The Committee also discussed the need for establishing official subcommittees on particular issues.

- May 1, 2014 – This meeting featured presentations from two local staff members. Mr. David Mergen (Chesapeake) gave a presentation on EPA's proposed changes to the definition of "Waters of the U.S." in the Clean Water Act; a discussion of potential regional comments followed the presentation. Mr. Kevin DuBois (Norfolk) gave a presentation to the Committee on the status of the Shoreline Management Best Management Practices Panel Report for the Chesapeake Bay Program. The meeting also included updates from the HRPDC staff on sea level rise and VCZMP grant opportunities and continued discussion regarding establishing official subcommittees.

- June 5, 2014 – This meeting featured a series of updates and briefings from the HRPDC staff on hazard mitigation assistance grants, draft regional comments on the definition of "Waters of the U.S," regional environmental education initiatives, sea level rise, VCZMP grant opportunities, and the HRPDC retreat. The Committee also voted in favor of establishing a regional technical environmental working group that would discuss issues such as TMDLs in greater detail than the full Committee.

- July 3, 2014 – This meeting featured a series of presentations and updates from the HRPDC staff. Topics of discussion included regional legislative priorities, sea level rise related events and projects, the Chesapeake Bay Program, VCZMP competitive grants for PDCs, the Envision Hampton Roads regional strategic planning effort, and a proposal from DEQ for the HRPDC to engage in long range environmental planning.

- August 7, 2014 – This meeting featured a presentation from the City of Virginia Beach and the HRPDC staff on a joint project on developing an example local sea level rise adaptation plan for the city. The meeting also featured updates from the HRPDC staff on sea level rise, LiDAR elevation data, regional trails, environmental education initiatives, an analysis on the state stormwater local assistance fund, and statewide land cover data. The Committee also voted to allocate funds for enhancement to the regional Permit Administration and Review System (PARS), a web-based tracking system for reporting stormwater BMPs in compliance with Municipal Separate Stormwater Sewer System (MS4) permits.

- September 4, 2014 – This meeting featured a presentation from Ms. Joan Salvati of the Department of Environmental Quality on upcoming compliance reviews for local Chesapeake Bay Preservation Act programs. The meeting also included discussions on regional comments on the proposed definition of "Waters of the U.S." and stormwater budget. The Committee also received updates from the HRPDC staff on several reports, including the askHRGreen.org final report, the regional stormwater cooperation summary, and the report on the HRPDC/Virginia Beach sea level rise

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planning effort. The HRPDC staff also led a visioning session with the Committee for the Envision Hampton Roads regional strategic planning effort.

Through the regional coordination process, the HRPDC works to ensure that local government planning and implementation activities in the areas of stormwater management, water supply and groundwater management, wastewater, Chesapeake Bay Preservation Act and Virginia Coastal Zone Management Program are coordinated and mutually supportive. The synergy inherent in this coordination process provides opportunities for local government innovation and enhancement of activities in each of these areas.

PUBLIC INFORMATION, EDUCATION AND TRAINING

An integral component of the Hampton Roads Technical Assistance Program is the provision of public information and education on environmental issues in the Hampton Roads region. Provision of public information and education was identified by the participating localities at the outset of the program in 1986 as a critical need that could be met cooperatively through the HRPDC. Since that time, the HRPDC staff has provided written communications and briefings to the Commission and a wide range of interest groups on environmental issues and has provided regular briefings to many of those groups. These efforts continued during the grant year.

To ensure that the members of the HRPDC are kept informed about the status of ongoing HRPDC environmental program activities and pending environmental issues that may affect the Hampton Roads region, Project Status Reports on the HRPDC Coastal Resources Management Program and related issues are included in the Monthly Agendas for the HRPDC Executive Committee and Commission Meetings. In addition to the written Agenda materials, the HRPDC staff also routinely briefs the Commission on environmental issues of importance. During the year, briefings were given to the HRPDC on the following topics: the Chesapeake Bay TMDL, climate change and sea level rise, the Sustainable Communities Regional Planning Grant Program and sustainability initiatives, stormwater management, solid waste, sanitary sewer overflows, the regional water supply plan, and HR Green, the HRPDC's environmental education and outreach program.

The HRPDC staff has provided briefings on regional environmental programs, environmental issues and state and federal regulations to a variety of groups. They include civic leagues, business and professional organizations, service clubs, schools and interest groups. The HRPDC staff has presented papers on related HRPDC technical studies and programs at several state, regional, and national conferences. A number of briefings were also provided to state agency Boards, Legislative Commissions, local government Planning Commissions, City Councils/County Boards, and Town Councils on regional environmental projects and issues.

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During the grant period, HRPDC staff represented the region in several major panels and presentations on environmental issues. These include stormwater management, the Chesapeake Bay TMDL, groundwater, climate change and sea level rise, water supply, and pesticides. A number of these presentations addressed multiple programs. Programs and activities covered included water supply planning, green infrastructure, TMDL regulations, pollution prevention, the overall HRPDC water resources program, watershed modeling, wetlands regulations, regional environmental education initiatives, and the regional stormwater management program. These meetings and presentations included:

- Presentation at annual meeting of the Virginia Rural Planning Caucus, "Living with Water: Managing Flood Risks Through Planning" – October 10, 2013

- Presentation and panel participation at 5th Annual Southeast Florida Regional Climate Leadership Summit , "Living with Water in Hampton Roads: Lessons from Ten Years of Storms, Flooding, and Sea Level Rise" – November 7, 2013

- Presentation at Safe Coast Virginia Event, "Adapting to Rising Seas: Learning to Live with Water in Hampton Roads" – November 16, 2013

- Presentation to Pruden Center Class, "What's Planning Got To Do With Me?" – December 11, 2013

- Presentation at Transportation Research Board Annual Meeting (with Sam Belfield, HRTPO), "Developing Partnerships to Prepare for Climate Change Impacts to Roadways Serving the Military" – January 13, 2014

- Presentation at NOAA Social Coast Forum 2014, "Connecting Sea Level Rise Research and Policy: The Hampton Roads Adaptation Forum" – February 19, 2014

- Presentation to Virginia Coastal Coalition Board, "Regional Planning for Sea Level Rise in Hampton Roads" – February 21, 2014

- Presentation at 2014 DEQ Environmental Excellence Conference, "Planning for Climate Change and Sea Level Rise in Hampton Roads" – March 12, 2014

- Presentation at 2014 Virginia Beach Watersheds Forum, "Planning for Climate Change and Sea Level Rise in Hampton Roads,"– March 13, 2014

- Presentation and panel participation at 2014 Environment Virginia Symposium, "Local Planning for Sea Level Rise: Challenges, Obstacles, and Opportunities" – April 8, 2014

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- Presentation to Portsmouth Partnership Board of Directors, "Regional Planning for Climate Change in Hampton Roads," – May 12, 2014

- Presentation and panel participation at Coastal States Organization/The Coastal Society Forum on Resilience, "Regional Planning for Coastal Resilience in Hampton Roads," – June 9, 2014

- Presentation to Old Dominion University class, "Regional Planning for Sea Level Rise in Hampton Roads: Connecting Science and Policy," – June 26, 2014

- Presentation at World Bank Climate Change Adaptation of Transport Workshop, "Regional Planning for Sea Level Rise in Hampton Roads," – June 30, 2014

- Presentation at Climate Adaptation for Coastal Communities Training, "Hampton Roads Regional Vulnerability to Sea Level Rise," – July 30, 2014

A copy of the presentation given at the Pruden Center on December 11, 2013 is included in Appendix E.

In August 2010, HRPDC replaced a quarterly newsletter with an online publication an e-mailed "HRPDC Weekly Update," which was distributed to nearly 4,000 individuals. In July 2011, the "HRPDC Weekly Update" was moved to a bi-weekly schedule and renamed the "Hampton Roads Update" and later renamed the "Hampton Roads e-Newsletter" in April 2012. The online publication was shifted to a list of news articles and reports from HRPDC staff directly accessible from the HRPDC website's homepage (www.hrpdcva.gov). To enhance the effectiveness of all HRPDC public information materials, HRPDC Special Reports on specific topics are also developed and distributed to supplement the regular newsletter. All newsletters and special reports are now distributed electronically. During this grant, HRPDC planning staff posted twenty (20) entries related to coastal management issues. Examples of these articles are included in Appendix F.

The HRPDC staff has devoted considerable attention and effort over the past year to the continued refinement of the Commission's web page (www.hrpdcva.gov). The website contains copies of all newsletters, complete copies of HRPDC technical reports and an overview of Commission activities. All Commission and most committee meeting agenda materials are now posted and available on the HRPDC website. It contains an extensive section devoted to the HRPDC's regional planning and water resources programs, including links to a number of other federal, state, local, and private sector sites. Efforts to further enhance the website remain ongoing. A Commission Action Summary is posted after each meeting, and the meetings can be viewed on YouTube in their entirety.[4]

Through the Hampton Roads Joint Environmental Committee and Regional Environmental Committee, HRPDC staff has provided, facilitated, or hosted training on a variety of topics

[4] https://www.youtube.com/user/HRPDC

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to localities. HRPDC also subscribes to and hosts a series a webinars provided by the American Planning Association (APA) and American Institute of Certified Planners (AICP). These webinars cover a variety of planning issues and provide Certification Maintenance (CM) credits to AICP planners. Two of the training events this past year also provided Continuing Education Credits (CECs) for Certified Floodplain Managers (CFMs). HRPDC staff publicizes and coordinates these training webinars and opportunities. In total, these training opportunities provided local staff with up to 31 AICP Certification Maintenance credits and 16.5 CFM Continuing Education Credits. The specific training opportunities are listed below.

Program Title	**Content Provider**	**Date**	**Credits**
Comprehensive Coastal Resource Management Plans	Virginia Institute of Marine Science	October 3, 2013	1.0 CM
AICP Webinar: Planning Ethics and the Law	AICP	October 9, 2013	1.5 CM Ethics
AICP Webinar: Smart Growth in Small Towns and Rural Areas	AICP	November 6, 2013	1.5 CM
AICP Webinar: Fiscal Impact Analysis as a Decision Support Tool	AICP	December 4, 2013	1.0 CM
AICP Webinar: Administering Zoning Codes	AICP	January 15, 2014	1.5 CM
AICP Webinar: Using Subdivision Regulations in the 21st Century	AICP	March 12, 2014	1.0 CM
Addressing Current and Future Vulnerability through Floodplain Management	HRPDC; ODU; Virginia Sea Grant	March 28, 2014	4.5 CEC
AICP Webinar: Jane Jacobs' Legacy and New Urbanism	AICP	May 14, 2014	1.0 CM
AICP Webinar: Introducing New Density to the Neighborhood	AICP	June 4, 2014	1.5 CM
AICP Webinar: 2014 Planning Law Review	AICP	June 25, 2014	1.5 CM Law
Climate Adaptation for Coastal Communities	NOAA/HRPDC	July 29-31, 2014	18.0 CM 12.0 CEC
AICP Webinar: Post-Disaster Recovery in a Changing Climate	AICP	September 24, 2014	1.5 CM

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CZM SUCCESS STORY: PLANNING FOR SEA LEVEL RISE IN HAMPTON ROADS

In October 2008, the HRPDC was awarded the first of four grants by the Virginia CZM Program to study the impacts of climate change on the Hampton Roads region and identify potential responses to those impacts (FY '08 Task 12.03). Additional grants were awarded in October 2009 (FY '09 Task 12.04), October 2010 (FY '10 Task 12.04), and October 2011 (FY '11 Task 51). This effort required considerable research and analysis, and resulted in four separate reports which are now available on the HRPDC's website. These reports included the results of significant GIS analyses and mapping efforts, and have formed part of the basis for an ongoing regional discussion of how local governments in Hampton Roads should respond to climate change impacts, particularly sea level rise, which was early on identified as one of the greatest concerns for this region. One of the most useful components of this effort has been the development of a set of maps showing the potential inundation impacts of various sea level rise scenarios; the latest version of these maps was included in the HRPDC's July 2013 Coastal Resiliency Final Report.

As a result of these grants, the HRPDC has developed a significant knowledge base and data relevant to climate change and sea level rise. This expertise has enabled the HRPDC staff to contribute to regional discussions on how best to plan for and adapt to flooding and sea level rise. In recognition of this importance, the HRPDC contributed $80,000 to a regional LiDAR elevation acquisition effort in partnership with the U.S. Geological Survey, the National Geospatial-Intelligence Agency, the Hampton Roads Sanitation District, Old Dominion University, and the Virginia Geographic Information Network. This new data will allow for updated flooding and sea level rise inundation maps and many other local and regional research projects and analyses. In addition, the HRPDC is now considering how to proceed with acquiring monitoring data on land subsidence as a way to address sea level rise and groundwater management issues.

CONCLUSIONS

Through the Hampton Roads Technical Assistance Program, the HRPDC has provided technical assistance to its member local governments and others; has delivered public information and education to the citizens and government officials of the region; has conducted important technical studies; and has coordinated a regional approach to participation in state and federal environmental programs, while also providing cost-effective support to the Virginia Coastal Zone Management Program.

The Hampton Roads Technical Assistance Program conducted through the VCZMP is a cost-effective solution to the need for environmental cooperation and coordination in the Hampton Roads Region of 3,000 square miles and 1.7 million residents. It provides a vehicle for the ten cities, six counties, eleven towns, and a number of state and federal agencies and others to exchange information and develop coordinated approaches to environmental management issues, while concurrently providing technical support for

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routine local government planning and management activities. Based on state and federal legislative and executive branch responses to comments and recommendations developed through this process, it is an effective means for the region's localities to communicate their views on environmental issues. It also provides a cost-effective means of ensuring that this region can participate in and support important environmental initiatives of the Commonwealth, such as the Virginia Coastal Zone Management Program and the Chesapeake Bay Program. It also appears to be a cost-effective mechanism for the Virginia Coastal Zone Management Program and related state environmental programs to use in communicating with and soliciting input from local government. Over the years, funding from the VCZMP through the Hampton Roads Technical Assistance Program has provided the region with the seed to establish a number of new regional programs in the areas of water supply planning and coordination, watershed management, stormwater management and environmental education. The HRPDC and its member local governments continue to believe that the Hampton Roads Technical Assistance Program is an extremely valuable and cost-effective approach to environmental planning and management in the Hampton Roads Region.

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APPENDIX A:
LISTING OF ENVIRONMENTAL IMPACT REVIEWS, PROPOSAL REVIEWS, AND REPRESENTATIVE COMMENT LETTERS

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2013 – 2014 Environmental Impact Reviews

Received	DEQ #	Name	Sponsor	Affected Localities	Sent
9/20/2013	13-170S	Parole Board Building	Department of General Services	Virginia Beach	10/21/2013
10/7/2013	13-176F	Joint Logistics Over-the-Shore Activities at Joint Expeditionary Base Little Creek-Fort Story	DOD/Department of the Navy	Virginia Beach	11/12/2013
10/10/2013	13-177F	Willoughby Spit and Vicinity Coastal Storm Damage Reduction Project	DOD/Dept. of the Army/Army Corps of Engineers	Norfolk	11/12/2013
10/18/2013	13-182F	Lynnhaven River Basin Ecosystem Restoration	DOD/Dept. of the Army/Army Corps of Engineers	Virginia Beach	11/12/2013
9/20/2013	13-169F	Waste Confidence Rule (Spent Fuel Storage After Licensed Life)	DOI/Nuclear Regulatory Commission	Surry County	11/13/2013
10/10/2013	13-178F	Chesapeake Energy Center Shoreline Erosion Repairs - Priority 1 Area	DOD/Dept. of the Army/Army Corps of Engineers	Chesapeake	11/13/2013
10/17/2013	13-180S	Baseball Batting Cage Facility	Old Dominion University	Norfolk	11/15/2013
10/31/2013	13-188F	Center Point Intermodal Center Permit Modification, Kenyon Road Connector	DOD/Dept. of the Army/Army Corps of Engineers	Suffolk	12/4/2013
11/5/2013	13-189F	Modifications to the Construction and Operation of a U.S. Army Reserve Center	DOD/Department of the Army	Suffolk	12/4/2013
11/14/2013	13-194F	Hurricane Sandy Related Geophysical & Geological Surveys Along the Atlantic to Identify OCS Sand Res	DOI/Bureau of Ocean Energy Management	Virginia Beach	12/16/2013
12/2/2013	13-200F	Integrated Natural Resources Management Plan, Camp Pendleton Collective Training Center	Department of Military Affairs	Virginia Beach	12/16/2013
11/18/2013	13-195F	Oyster Point Village	DOD/Dept. of the Army/Army Corps of Engineers	Newport News	12/19/2013
11/25/2013	13-196S	Foreman Field Visitor Locker Room Addition	Old Dominion University	Norfolk	12/19/2013
11/27/2013	13-202F	Ferry Point Jetty Maintenance at AFETA Camp Peary	Department of Defense	York County	12/20/2013
12/20/2013	13-213F	Cascade East Apartments	Department of Housing and Urban Development	Virginia Beach	1/16/2014
12/30/2013	13-215F	The Pointe at Pickett Farms Phase I Revised	Department of Housing and Urban Development	Norfolk	1/24/2014

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Received	DEQ #	Name	Sponsor	Affected Localities	Sent
1/2/2014	14-001F	Lee Hall Reservoir Dam Improvements Addendum	DOD/U.S. Army Corps of Engineers	Newport News; York County	2/4/2014
1/3/2014	14-002F	Bayville Creek SSD Dredging Project	DOD/U.S. Army Corps of Engineers	Virginia Beach	2/4/2014
1/7/2014	14-004S	Southeastern Virginia Training Center, Administrative Building	Behavioral Health and Developmental Services	Hampton	2/7/2014
1/16/2014	14-010F	Construct Airport Security Perimeter Road, Chesapeake Regional Airport	USDOT/Federal Aviation Administration	Chesapeake	2/12/2014
1/16/2014	14-011F	Integrated Cultural Resources Management Plan Revision, Facilities of the Virginia National Guard	Department of Military Affairs	Virginia Beach; Norfolk; Portsmouth	2/14/2014
1/31/2014	14-021S	Library - Phase II Project	Christopher Newport University	Newport News	2/26/2014
2/14/2014	14-025F	Construction and Operation of a Small Arms Range Facility at Naval Weapons Station Yorktown	DOD/Department of the Navy	York County; James City County	3/19/2014
3/7/2014	14-037F	Atlantic OCS Proposed Geologic and Geophysical Activities, Mid-Atlantic and South Atlantic Planning	DOI/Bureau of Ocean Energy Management	HRPDC	4/8/2014
3/13/2014	14-039F	Yadkin Sub-station Expansion Project	DOD - Army Corps of Engineers; Dominion Virginia	Chesapeake	4/16/2014
3/14/2014	14-041S	Suffolk Customer Service Relocation - Build-to-Suite Lease	Department of Motor Vehicles	Suffolk	4/16/2014
3/14/2014	14-042F	Final Feasibility Report and Integrated Environmental Assessment for the Lynnhaven River Basin Ecosy	DOD/U.S. Army	Virginia Beach	4/16/2014
4/1/2014	14-051F	The Morgan Phase II	U.S. Department of Housing & Urban Development	Chesapeake	4/23/2014
3/24/2014	14-044F	On-Airport Pavement Maintenance and General Repair, and Terminal Infill	USDOT/FAA/Norfolk International Airport	Norfolk	5/1/2014
4/8/2014	14-054S	Construct a Consolidated Scientific Research Facility	Virginia Institute of Marine Science	Gloucester	5/5/2014
4/16/2014	14-059F	USO Patriotic Festival and Oceanfront Air Show	DHS/U.S. Coast Guard	Virginia Beach	5/13/2014
4/17/2014	14-060F	Broad Creek V, Norfolk	U.S. Department of Housing & Urban Development	Norfolk	5/23/2014

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Received	DEQ #	Name	Sponsor	Affected Localities	Sent
4/18/2014	14-062F	Defense Logistics Agency Fuel Pier Replacement Project, Joint Base Langley-Eustis-Langley, Hampton	DOD/Army/Army Corps of Engineers	Hampton	5/23/2014
4/24/2014	14-063F	Marine Operations Center, Atlantic: Approach and Berthing Dredging Project	U.S. Army Corps of Engineers/NOAA	Norfolk	5/23/2014
5/1/2014	14-068S	Replace Brown Hall	Norfolk State University	Norfolk	5/23/2014
4/28/2014	14-066F	Columbia Gas Pipeline Abandonment (VM-132 Abandon)	DOE/Federal Energy Regulatory Commission	Chesapeake	5/27/2014
4/25/2014	14-065F	Port Messick Breakwater Project	U.S. Army Corps of Engineers	Poquoson	5/28/2014
5/8/2014	14-077F	Skiffes Creek Federal Navigation Channel, Maintenance Dredging	DOD/Army/Army Corps of Engineers	Newport News	5/28/2014
5/21/2014	14-079S	New Dining Hall	Old Dominion University	Norfolk	6/20/2014
5/22/2014	14-082F	Fort Norfolk Shoreline Stabilization Project	DOD/Dept. of the Army/Army Corps of Engineers	Norfolk	6/20/2014
6/5/2014	14-092F	Rosemont Crossing	U.S. Department of Housing and Urban Development	Virginia Beach	7/9/2014
6/7/2014	14-090F	Virginia Offshore Wind Technology Advancement Project	DOI/Bureau of Ocean Energy Management	Virginia Beach	7/9/2014
6/30/2014	14-104S	Outdoor Interpretive Areas, Signage, & Amenities Project	Jamestown-Yorktown Foundation	York County	7/30/2014
7/1/2014	14-107F	Chesapeake Energy Center Shoreline Erosion Repairs - Priority 2 Area, Priority 3 Area, & South Dike	DOD/Dept. of the Army/Army Corps of Engineers	Chesapeake	7/30/2014
7/14/2014	14-113F	Hadley Park at Greenbrier	Department of Housing and Urban Development	Chesapeake	8/8/2014
7/18/2014	14-115F	801 Main Street Senior Living Apartments	U.S. Department of Housing and Urban Development	Newport News	8/18/2014
7/21/2014	14-114S	Tennis Courts Project	Christopher Newport University	Newport News	8/18/2014
6/27/2014	14-103F	Army 2020 Force Structure Realignment	DOD/Army/Army Environmental Command	James City County	8/22/2014
7/24/2014	14-116S	Alumni House	Christopher Newport University	Newport News	9/3/2014
8/5/2014	14-123F	Spence Crossing	U.S. Department of Housing and Urban Development	Virginia Beach	9/3/2014

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Received	DEQ #	Name	Sponsor	Affected Localities	Sent
7/10/2014	14-111F	Surry-Skiffes Creek-Whealton Powerline Project	DOD/Dept. of the Army/Army Corps of Engineers	James City County; Newport News; York County	9/12/2014
8/21/2014	14-135F	Richneck Regional Water Quality Retrofit & Flood Control Project Addendum	DOD/Dept. of the Army/Army Corps of Engineers	York County	9/12/2014
8/8/2014	14-127F	Virginia Regional Commerce Park Phase II	DOD/Dept. of the Army/Army Corps of Engineers	Suffolk	9/15/2014
8/20/2014	14-134S	Accessibility Infrastructure	College of William and Mary	Williamsburg	9/23/2014

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2013 – 2014 Proposal Reviews

Date	Number	Title	Applicant	Program	Impact
10/23/2013	VA140823-0423175	Fire Station Construction in Capron, VA	Capron Volunteer Fire Department & First Aid Squad, Inc. (CVFD)	USDA - Rural Development Community Facilities Loan Program	Southampton County
1/2/2014	VA141218-0623760	NOAA 309 - Wetlands-Managing and Adapting Coastal Habitats to Preserve Ecologial Services with Increasing Sea Level and Development Pressure	VA Department of Environmental Quality	NOAA - Coastal Zone Management	Coastal Zone
1/2/2014	VA141218-0723760	FY 2014 NOAA Marine Debris Prevention through Education and Outreach	VA Department of Environmental Quality	NOAA - Habitat Conservation	Coastal Zone
1/2/2014	VA141218-0823760	NOAA 309 - Ocean Planning: Documenting Endangered Migratory Species for Offshore Energy Planning	VA Department of Environmental Quality	NOAA - Coastal Zone Management	Coastal Zone
1/21/2014	VA131226-0523620	Proposed FRHA Real Estate Purchase	Franklin Redevelopment and Housing Authority	USDA - Rural Redevelopment	City of Franklin
2/21/2014	VA141220-0923xxx	Chesapeake Bay Journal	Chesapeake Media Service, Inc.	Chesapeake Bay Program	Statewide
4/4/2014	VA140402-1023760	FY2014 Section 319(h) Nonpoint Source Implementation Grant	Virginia Dept. of Environmental Quality	EPA	Statewide
4/4/2014	VA140403-1123760	FY2015 Chesapeake Bay Monitoring Program	Virginia Dept. of Environmental Quality	EPA - Chesapeake Bay Program	Chesapeake Bay Watershed
4/28/2014	VA140418-1223760	VADEQ 2015-17 Wetlands Protection: Building Capacity for Wetland Program Protection of High Ecological Value Aquatic Resources in Virginia	Virginia Dept. of Environmental Quality	EPA	Statewide

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Date	Number	Title	Applicant	Program	Impact
5/19/2014	VA140516-1323710	Modeling the impact of water quality on SAV and other living resources in the tidal Chesapeake Bay	ODU Research Foundation	Chesapeake Bay Program	Chesapeake Bay watershed
5/20/2014	VA140520-0923760	29th Year VA CZM Implementation Application	Virginia Dept. of Environmental Quality	NOAA - Coastal Management Program	Coastal Zone
5/27/2014	VA140522-1423xxx	Composting for Community: A program to expand small-scale, community-based composting in the Mid-Atlantic	Institute for Self-Reliance	EPA - RCRA Solid Waste Program	Statewide
5/27/2014	VA140523-1523750	Virginia DEQ DERA3 Project	Virginia Dept. of Environmental Quality	EPA - National Clean Fuel Assistance Program	Statewide
6/6/2014	VA140522-1423760	FY 2014 VADEQ Technical Review and Services for Defense Environmental Restoration Program (DERP) Activities at Active DoD Facilities and Environmental Restoration at Base Closure Sites	Virginia Dept. of Environmental Quality	US Department of Defense	Statewide
6/6/2014	VA140530-1523760	FY2014-17 Chesapeake Bay Nonpoint Source Implementation Grant	Virginia Dept. of Environmental Quality	EPA - Chesapeake Bay Program	Chesapeake Bay watershed
6/6/2014	VA140530-1423760	National Air Toxics Trends Station (NATTS) Program	Virginia Dept. of Environmental Quality	EPA	Statewide
7/10/2014	VA140710-0223760	FY2014 State Revolving Loan Funds Capitalization Application	Virginia Dept. of Environmental Quality	EPA - Capitalization Grants for Clean Water State Revolving Funds	Statewide
8/5/2014	VA150805-0423760	FY2014-2016 Collaborative Fisheries Planning for Virginia's Offshore Wind Grant Application	Virginia DEQ - Department of Mines, Minerals & Energy	Bureau of Ocean Energy Management Renewable Energy Program	Coastal Virginia
8/11/2014	VA150804-0323760	FY2015-2018 Performance Partnership Grant Application	Virginia Dept. of Environmental Quality	EPA - Water Pollution Control State Program	Statewide

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Date	Number	Title	Applicant	Program	Impact
8/22/2014	VA150731-0523xxx	Chesapeake Bay Innovative Nutrient and Sediment Reduction Grants Program	National Fish and Wildlife Foundation	EPA - Chesapeake Bay Program	Chesapeake Bay watershed
8/22/2014	VA150731-0623xxx	Chesapeake Bay Small Watershed Grants Program	National Fish and Wildlife Foundation	EPA - Chesapeake Bay Program	Chesapeake Bay watershed
9/15/2014	VA150915-0723760	FY2014 Chesapeake Bay Regulatory & Accountabilty Program (CBRAP) Grant	Virginia Dept. of Environmental Quality	EPA - Chesapeake Bay Program	Chesapeake Bay watershed
10/7/2014	VA150924-0923740	East Downtown Norfolk: Planning a Revitalized Waterfront (FY15 Brownfields Area-Wide Planning Grant)	The Elizabeth River Project	EPA	Norfolk
10/7/2014	VA150924-0823740	Playground Celebrates the Navy's Oldest Shipyard	The Elizabeth River Project	National Park Service - National Maritime Heritage Grant Program	Portsmouth

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HAMPTON ROADS PDC
PLANNING DISTRICT COMMISSION
KENNETH I. WRIGHT, CHAIRMAN • CLYDE HAULMAN, VICE-CHAIR • JAMES O. McREYNOLDS – TREASURER
DWIGHT L. FARMER, EXECUTIVE DIRECTOR/SECRETARY

MEMBER JURISDICTIONS
CHESAPEAKE
FRANKLIN
GLOUCESTER
HAMPTON
ISLE OF WIGHT
JAMES CITY
NEWPORT NEWS
NORFOLK
POQUOSON
PORTSMOUTH
SOUTHAMPTON
SUFFOLK
SURRY
VIRGINIA BEACH
WILLIAMSBURG
YORK

December 3, 2013

Mr. John E. Fisher
Virginia Department of Environmental Quality
Office of Environmental Impact Review
629 East Main Street, 6th Floor
Richmond, VA 23219

RE: DEQ#13-188F, Center Point Intermodal Center Permit Modification, Kenyon Road Connector (ENV: GEN)

Dear Mr. Fisher,

Pursuant to your request, the staff of the HRPDC has reviewed the Federal Consistency Determination for the following project, Center Point Intermodal Center Permit Modification, Kenyon Road Connector, in the City of Suffolk. We have consulted with City staff regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies. The project descriptions states that the "Kenyon Road Connector will result in impacts to approximately 2.8 acres of RPA." Although public roads are exempt from the performance requirements of Suffolk's Chesapeake Bay Preservation Overlay District ordinance, (as long as they are "in accordance with the City's Erosion and Sedimentation Control and Stormwater Management Ordinance requirements"), public road projects must show that "the road alignment and design has been optimized, consistent with all applicable requirements, to prevent or otherwise minimize the encroachment in the RPA and to minimize the adverse effects on water quality," Suffolk Unified Development Ordinance Article 4, Section 31-415 (f)(3)(A)). The HRPDC staff understands that the applicant and City staff are working together to address this requirement.

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

Dwight L. Farmer

Dwight L. Farmer
Executive Director/Secretary

BJM/fw
Copy: Robert Goumas, SU
Brian Alperin, SU

DRAFT

HAMPTON ROADS PDC
PLANNING DISTRICT COMMISSION
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January 15, 2014

Mr. John E. Fisher
Virginia Department of Environmental Quality
Office of Environmental Impact Review
629 East Main Street, 6th Floor
Richmond, VA 23219

RE: DEQ#13-213F, Cascade East Apartments (ENV: GEN)

Dear Mr. Fisher,

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Federal Consistency Determination for the following project, Cascade East Apartments, in the City of Virginia Beach. We have consulted with City staff regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies. The determination implies that the project is located in the Chesapeake Bay Watershed; the proposed site is actually located in the Southern Watersheds of Virginia Beach. As such, the project is not subject to the City's Chesapeake Bay Preservation Area Ordinance. However, the project must comply with the City's Southern Watersheds Management Ordinance.

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

Dwight L. Farmer

Dwight L. Farmer
Executive Director/Secretary

BJM/fw

Copy: Clay Bernick, VB

DRAFT

HAMPTON ROADS PDC
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March 18, 2014

Mr. John E. Fisher
Virginia Department of Environmental Quality
Office of Environmental Impact Review
629 East Main Street, 6th Floor
Richmond, VA 23219

RE: DEQ#14-025F, Construction and Operation of a Small Arms Range Facility at Naval Weapons Station Yorktown (ENV: GEN)

Dear Mr. Fisher,

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Federal Consistency Determination (FCD) for the following project, Construction and Operation of a Small Arms Range Facility at Naval Weapons Station Yorktown, located in James City and York Counties. We have consulted with staff from both counties regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies. However, both counties have expressed concerns with the current design or placement of the facility and would prefer that the current plans be amended to address those concerns.

1) The current plans could cause significant noise impacts to the surrounding area. A residential development is currently proposed in York County less than half a mile from the proposed rifle range. Both Counties have requested that any noise impacts from the project be mitigated to the maximum extent practicable.
2) Interstate 64, located adjacent to both proposed ranges, will eventually be widened to four lanes in each direction from Newport News to Richmond. This should be addressed in the FCD and accounted for in the layout and placement of the ranges.
3) It appears that the construction of the rifle range will occur within a Chesapeake Bay Preservation Act (CBPA) Resource Protection Area (RPA). This is illustrated in Attachment A. According to York County's Code of Ordinances, RPAs "have an intrinsic water quality value due to the ecological and biological processes they perform or are sensitive to impacts, which may result in significant degradation to the quality of state waters." As such, York County and the HRPDC recommend that the range be constructed outside the limits of the RPA to the maximum extent practicable.

DRAFT

4) The construction of the rifle range and new pistol range facility will occur in the King Creek Watershed, which currently is impaired for both recreation (due to the presence of Enterococcus) and shellfishing (due to the presence of Fecal Coliform). A Bacterial Total Maximum Daily Load (TMDL) has been developed for the Queen Creek, King Creek, and Felgates Creek Watersheds. The text of the FCD mentions the use of septic tanks and leach field systems for on-site wastewater disposal. The HRPDC staff recommends that the Navy coordinate with York County to determine the optimal placement of any on-site wastewater facilities.
5) York County is also entirely located within the Chesapeake Bay Watershed, which is subject to the Chesapeake Bay TMDL. The HRPDC staff recommends that the Navy provide more detail on what stormwater management facilities will be used to mitigate water quality impacts.
6) York County staff reports that the project site is located within the County's Historical Resources Management Overlay District, which would normally require that the development undergo a Phase I archaeological study prior to construction. The HRPDC staff recommends that the Navy coordinate with York County to implement this policy to the maximum extent practicable.

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

Dwight L. Farmer

Dwight L. Farmer
Executive Director/Secretary

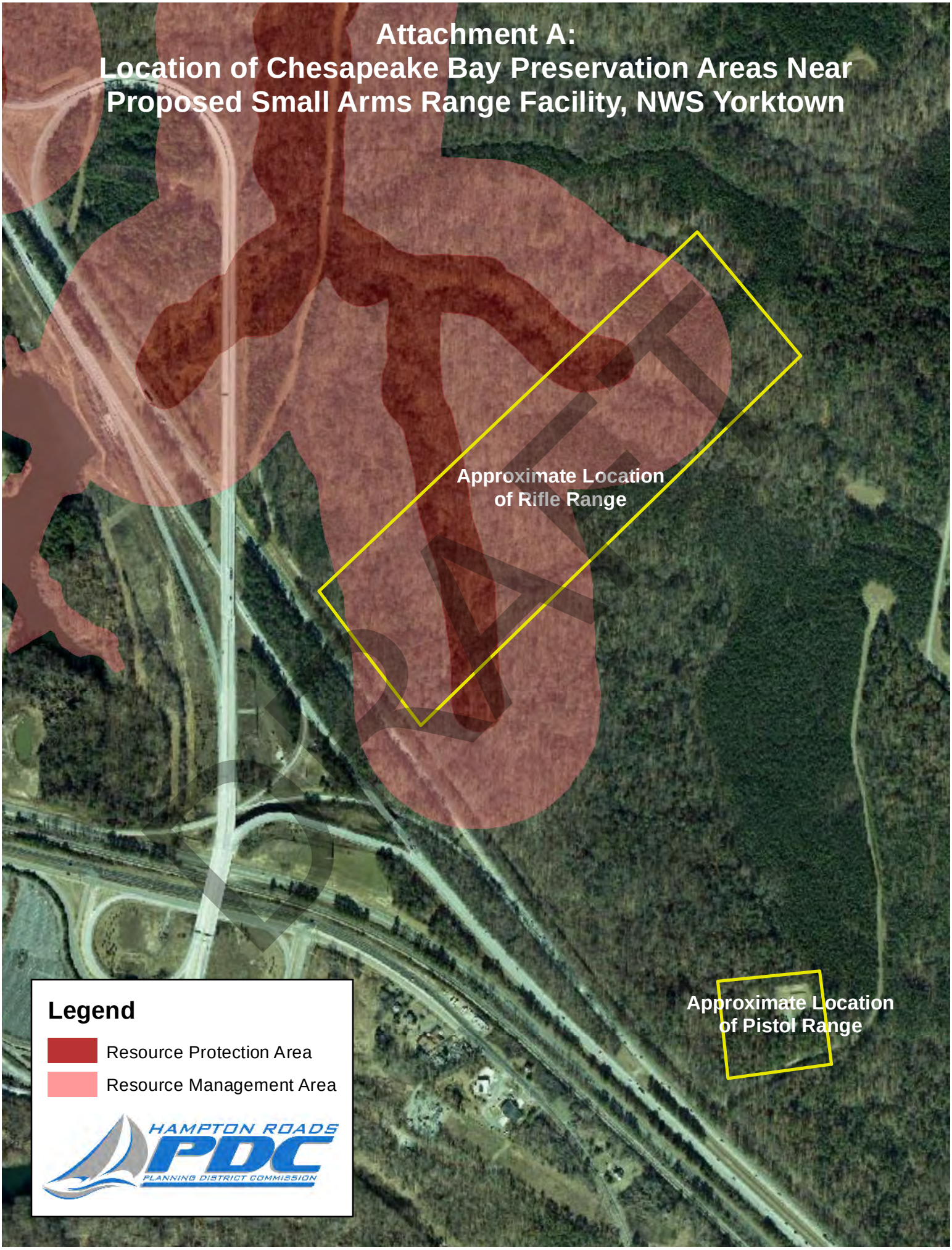
BJM/jcc

Attachment

Copy: Luke Vinciguerra, JC
Al Maddalena, YK

DRAFT

Attachment A:
Location of Chesapeake Bay Preservation Areas Near Proposed Small Arms Range Facility, NWS Yorktown



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May 2, 2014

Ms. Julia H. Wellman
Virginia Department of Environmental Quality
Office of Environmental Impact Review
629 East Main Street, 6th Floor
Richmond, VA 23219

RE: DEQ#14-054S, Construct a Consolidated Scientific Research Facility (ENV:GEN)

Dear Ms. Wellman,

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Environmental Impact Report for the following project, Construct a Consolidated Scientific Research Facility, at the Virginia Institute of Marine Science (VIMS) in Gloucester County. We have consulted with County staff regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies. We recommend that VIMS coordinate with Gloucester County to ensure that the project complies with local historic preservation policies and environmental ordinances, including Gloucester County's Chesapeake Bay Preservation Ordinance.

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

Dwight L. Farmer

Dwight L. Farmer
Executive Director/Secretary

BJM/jcc

Copy: Scott Rae, GL

DRAFT

HAMPTON ROADS PDC
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May 21, 2014

Ms. Julia H. Wellman
Virginia Department of Environmental Quality
Office of Environmental Impact Review
629 East Main Street, 6th Floor
Richmond, VA 23219

RE: DEQ#14-062F, Defense Logistics Agency Fuel Pier Replacement Project, Joint Base Langley-Eustis (Langley), Hampton (ENV:GEN)

Dear Ms. Wellman,

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Draft Environmental Assessment and the Federal Consistency Determination for the following project, Defense Logistics Agency Fuel Pier Replacement Project, Joint Base Langley-Eustis (Langley), in the City of Hampton. We have consulted with City staff regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies. However, Hampton City staff has indicated that tidal wetlands may be present on the site (the provided documentation states that none are present). HRPDC staff suggests that the applicant coordinate with city staff to address this issue and any other applicable local ordinance or permit requirements.

In addition, the Draft Environmental Assessment notes that the new pier "will be constructed at a height of 11 feet above mean lower low water (MLLW) to avoid submergence and related equipment damage during extreme storm events." This standard appears to have been determined based on past extreme high water levels. Given that the current pier has been in place for more than sixty years, HRPDC staff suggests that the new pier's design should take projected sea level rise into account when determining the appropriate design height. By 2075, sea level is projected to rise between 1.8 feet and 4.7 feet at the Sewell's Point Tide Gauge, based on the global sea level rise scenarios developed for the 2014 National Climate Assessment and local land movement trends.

DRAFT

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

Dwight L. Farmer

Dwight L. Farmer
Executive Director/Secretary

BJM/fw

Copy: David Stromberg, HA
Bruce Sturk, HA

DRAFT

HAMPTON ROADS PDC
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June 19, 2014

Mr. John E. Fisher
Virginia Department of Environmental Quality
Office of Environmental Impact Review
629 East Main Street, 6th Floor
Richmond, VA 23219

RE: DEQ#14-082F, Fort Norfolk Shoreline Stabilization Project (ENV: GEN)

Dear Mr. Fisher,

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Draft Environmental Assessment and Federal Consistency Determination for the following project, Fort Norfolk Shoreline Stabilization Project, in the City of Norfolk. We have consulted with City staff regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies. However, we have identified several issues that should be accounted for by the applicant. First, the consistency determination as written does not address whether the proposed project would be consistent with the Coastal Lands Management Enforceable Policy of the Virginia Coastal Zone Management Program. Although shoreline stabilization projects are considered "water dependent uses" and therefore allowed within areas that would be considered Resource Protection Areas, such projects are still required to comply with applicable erosion and sediment control and Chesapeake Bay Preservation Act performance standards.

Second, the proposed project will involve construction of a bulkhead and shoreline stabilization at elevations between mean low water and mean high water. Such areas are considered to be nonvegetated wetlands according to Norfolk's Wetlands and Coastal Primary Sand Dunes ordinance. Therefore, the applicant is required to apply for and receive a permit from the Norfolk Wetlands Board.

In addition, given that Norfolk is experiencing greater than average relative sea level rise, we recommend that the applicant incorporate both historic and projected sea level rise into the proposed project's design. We note that the provided documents refer to local tidal datums.

DRAFT

These datums are based on measurements from 1983-2001 and are considered to be representative of conditions in 1992. Since then mean sea level in Norfolk has risen nearly four (4) inches, and future sea level rise is projected to be significant.

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

Dwight L. Farmer

Dwight L. Farmer
Executive Director/Secretary

BJM/jc

Copy: Lee Rosenberg, NO
Kevin Du Bois, NO

DRAFT

HAMPTON ROADS PDC
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September 12, 2014

Mr. John E. Fisher
Virginia Department of Environmental Quality
Office of Environmental Impact Review
629 East Main Street, 6th Floor
Richmond, VA 23219

RE: DEQ#14-111F, Surry-Skiffes Creek-Whealton Powerline Project (ENV:GEN)

Dear Mr. Fisher,

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Federal Consistency Determination for the following project, Surry-Skiffes Creek-Whealton Powerline Project, which will pass through the cities of Hampton and Newport News and the counties of James City, Surry, and York. We have consulted with local staff regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies, as long as it complies with all applicable local codes and ordinances. The HRPDC staff concurs with the recommendations from James City County regarding contaminated soils, shoreline erosion, flood hazard areas, and impacts to archaeological, historic, and recreational resources, and suggests that Dominion consult with the County to address these issues.

We note that James City County has appealed a decision by the State Corporation Commission that asserts the switching station to be built in James City County is considered part of the transmission line for purposes of satisfying §56.46.1, which states the approval of transmission lines by the SCC satisfies "the requirements of §15.2-2232 and local zoning ordinances with respect to such transmission line[s]." Whether or not the ruling by the SCC is upheld, its determination that the switching station is part of the transmission line does not necessarily satisfy other sections of the Code of Virginia or the County Code. A plain reading of §56.46.1.A suggests that such an approval only satisfies local requirements related to comprehensive planning and zoning or, in other words, land use policy.

DRAFT

Approval pursuant to §56.46.1 does not appear to satisfy local requirements (adopted pursuant to state law) related to land disturbance and development, such as erosion and sediment control, stormwater management, or Chesapeake Bay Preservation. James City County's erosion and sediment control, stormwater management, and Chesapeake Bay Preservation ordinances are all separate from its zoning ordinance. We concur with the County's assessment that the actual transmission lines are exempt from the County's Chesapeake Bay Preservation ordinance and are subject to the linear project standards and provisions of §62.1-44.15:31. We also concur with the County's assessment that the switching station is distinct from the linear transmission lines for purposes of the Virginia Stormwater Management Act, Virginia Stormwater Management Program regulations, Chesapeake Bay Preservation Act, and Chesapeake Bay Preservation Area Designation and Management Regulations. As such, the switching station is subject to the County's stormwater management and erosion and sediment control ordinances, in addition to the County's Chesapeake Bay Preservation ordinance. We recommend that Dominion consult with the County to ensure that all local ordinance requirements are met.

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

Randy R. Keaton
Interim Executive Director

BJM/jc

Copy: Susan Kassel, NN
Al Maddalena, YK
Leanne Pollock, JC
Rhonda Russell, SY
David Stromberg, HA

DRAFT

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APPENDIX B:
VACO COASTAL INSURANCE TASK FORCE COASTAL COMMUNITIES DATA SUMMARY AND SAMPLE MAPS

DRAFT

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DRAFT

Coastal Communities Summary Spreadsheet – 1/2/14

Prepared by the staff of the Hampton Roads Planning District Commission
Contact: Benjamin McFarlane, AICP, Regional Planner
bmcfarlane@hrpdcva.gov
757-420-8300

DRAFT

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Accomack	41,111	$2,556,198,000	20,186	$1,484,377,000	58.1%	27,235	$1,740,123,000	68.1%
Alexandria	25,080	$18,010,442,000	5,767	$5,811,997,000	32.3%	14,049	$10,124,721,000	56.2%
Arlington	38,235	$25,543,902,000	2,118	$5,423,270,000	21.2%	7,085	$13,058,523,000	51.1%
Caroline	24,060	$1,907,885,000	3,544	$191,994,000	10.1%	5,277	$209,769,000	11.0%
Charles City	5,889	$331,765,000	915	$88,548,000	26.7%	1,576	$117,622,000	35.5%
Chesapeake	82,603	$17,564,930,000	25,068	$4,955,190,000	28.2%	47,574	$9,081,555,000	51.7%
Chesterfield	124,975	$22,506,418,000	2,568	$680,817,000	3.0%	6,946	$1,714,896,000	7.6%
Colonial Heights	7,612	$1,206,183,000	2,497	$517,165,000	42.9%	4,751	$816,800,000	67.7%
Fairfax	358,978	$140,624,358,000	14,655	$5,943,958,000	4.2%	31,648	$11,348,242,000	8.1%
Fredericksburg	8,206	$2,237,366,000	2,226	$545,209,000	24.4%	4,103	$1,130,322,000	50.5%
Gloucester	24,733	$2,967,695,000	11,497	$1,314,673,000	44.3%	15,199	$1,659,415,000	55.9%
Hampton	50,921	$10,986,533,000	21,327	$5,150,785,000	46.9%	33,424	$7,069,927,000	64.4%
Hanover	47,095	$8,762,019,000	152	$24,635,000	0.3%	271	$41,080,000	0.5%
Henrico	107,655	$25,321,908,000	474	$139,889,000	0.6%	1,190	$207,245,000	0.8%
Hopewell	10,412	$1,136,480,000	2,538	$364,079,000	32.0%	4,448	$589,821,000	51.9%
Isle of Wight	21,104	$3,501,133,000	7,549	$1,192,263,000	34.1%	11,620	$1,974,695,000	56.4%
James City	32,818	$9,166,352,000	4,634	$1,520,647,000	16.6%	9,449	$2,941,644,000	32.1%
King George	13,202	$1,908,598,000	3,591	$501,147,000	26.3%	4,772	$697,471,000	36.5%
King William	13,054	$1,883,441,000	4,673	$1,107,924,000	58.8%	6,113	$1,221,626,000	64.9%
Lancaster	15,824	$671,256,000	9,910	$472,415,000	70.4%	12,393	$545,544,000	81.3%
Mathews	10,161	$688,621,000	8,538	$626,181,000	90.9%	9,757	$673,991,000	97.9%

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Middlesex	14,033	$1,356,103,000	9,260	$946,929,000	69.8%	11,132	$1,170,803,000	86.3%
New Kent	16,698	$1,600,174,000	5,362	$237,614,000	14.8%	6,168	$314,945,000	19.7%
Newport News	54,387	$13,633,154,000	14,803	$4,557,314,000	33.4%	27,945	$7,016,464,000	51.5%
Norfolk	68,777	$13,514,529,000	42,150	$9,278,394,000	68.7%	64,639	$13,036,810,000	96.5%
Northampton	12,767	$610,806,000	5,353	$298,707,000	48.9%	7,611	$394,749,000	64.6%
Northumberland	19,940	$1,555,788,000	13,723	$1,202,316,000	77.3%	15,752	$1,301,036,000	83.6%
Petersburg	14,202	$1,721,127,000	1,548	$228,442,000	13.3%	4,034	$451,973,000	26.3%
Poquoson	5,531	$935,185,000	4,143	$731,818,000	78.3%	5,475	$926,731,000	99.1%
Portsmouth	36,210	$11,654,687,000	16,323	$7,796,066,000	66.9%	28,399	$10,461,503,000	89.8%
Prince George	13,682	$3,527,054,000	856	$1,656,743,000	47.0%	1,591	$1,742,731,000	49.4%
Prince William	143,763	$31,935,361,000	6,951	$1,740,334,000	5.4%	18,398	$3,893,377,000	12.2%
Richmond	69,823	$18,983,540,000	3,011	$3,101,850,000	16.3%	11,594	$6,470,222,000	34.1%
Richmond	7,794	$535,834,000	1,525	$103,830,000	19.4%	2,373	$152,090,000	28.4%
Spotsylvania	62,298	$8,264,291,000	1,184	$230,635,000	2.8%	2,273	$381,614,000	4.6%
Stafford	54,898	$9,319,973,000	2,850	$372,858,000	4.0%	6,399	$833,134,000	8.9%
Suffolk	39,292	$6,467,879,000	8,428	$1,962,008,000	30.3%	16,815	$3,656,326,000	56.5%
Surry	6,515	$510,594,000	1,273	$115,635,000	22.6%	1,873	$154,310,000	30.2%
Virginia Beach	159,361	$31,699,928,000	46,641	$10,468,936,000	33.0%	72,075	$17,169,030,000	54.2%
Westmoreland	26,858	$786,843,000	17,885	$507,785,000	64.5%	21,077	$571,265,000	72.6%
Williamsburg	4,466	$1,605,553,000	109	$37,296,000	2.3%	425	$148,087,000	9.2%
York	26,090	$7,313,566,000	7,808	$2,836,965,000	38.8%	12,951	$4,062,218,000	55.5%
Total	**1,921,113**	**$467,015,451,000**	**365,613**	**$86,469,636,000**	**18.5%**	**597,879**	**$141,274,446,000**	**30.3%**

* Data for the following coastal cities and counties was not yet available for this analysis: Essex County and King and Queen County.

** All property values have been rounded to the nearest thousand dollars.

DRAFT

Accomack-Northampton Planning District Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Accomack	41,111	$2,556,198,000	20,186	$1,484,377,000	58.1%	27,235	$1,740,123,000	68.1%
Northampton	12,767	$610,806,000	5,353	$298,707,000	48.9%	7,611	$394,749,000	64.6%
Total	**53,878**	**$3,167,004,000**	**25,539**	**$1,783,084,000**	**56.3%**	**34,846**	**$2,134,871,000**	**67.4%**

Crater Planning District Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Charles City	5,889	$331,765,000	915	$88,548,000	26.7%	1,576	$117,622,000	35.5%
Chesterfield	124,975	$22,506,418,000	2,568	$680,817,000	3.0%	6,946	$1,714,896,000	7.6%
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Hopewell	10,412	$1,136,480,000	2,538	$364,079,000	32.0%	4,448	$589,821,000	51.9%
Petersburg	14,202	$1,721,127,000	1,548	$228,442,000	13.3%	4,034	$451,973,000	26.3%
Prince George	13,682	$3,527,054,000	856	$1,656,743,000	47.0%	1,591	$1,742,731,000	49.4%
Surry	6,515	$510,594,000	1,273	$115,635,000	22.6%	1,873	$154,310,000	30.2%
Total	**183,287**	**$30,939,621,000**	**12,195**	**$3,651,429,000**	**11.8%**	**25,219**	**$5,588,153,000**	**18.1%**

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George Washington Regional Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Caroline	24,060	$1,907,885,000	3,544	$191,994,000	10.1%	5,277	$209,769,000	11.0%
Fredericksburg	8,206	$2,237,366,000	2,226	$545,209,000	24.4%	4,103	$1,130,322,000	50.5%
King George	13,202	$1,908,598,000	3,591	$501,147,000	26.3%	4,772	$697,471,000	36.5%
Spotsylvania	62,298	$8,264,291,000	1,184	$230,635,000	2.8%	2,273	$381,614,000	4.6%
Stafford	54,898	$9,319,973,000	2,850	$372,858,000	4.0%	6,399	$833,134,000	8.9%
Total	**162,664**	**$23,638,113,000**	**13,395**	**$1,841,842,000**	**7.8%**	**22,824**	**$3,252,309,000**	**13.8%**

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Hampton Roads Planning District Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Chesapeake	82,603	$17,564,930,000	25,068	$4,955,190,000	28.2%	47,574	$9,081,555,000	51.7%
Gloucester	24,733	$2,967,695,000	11,497	$1,314,673,000	44.3%	15,199	$1,659,415,000	55.9%
Hampton	50,921	$10,986,533,000	21,327	$5,150,785,000	46.9%	33,424	$7,069,927,000	64.4%
Isle of Wight	21,104	$3,501,133,000	7,549	$1,192,263,000	34.1%	11,620	$1,974,695,000	56.4%
James City	32,818	$9,166,352,000	4,634	$1,520,647,000	16.6%	9,449	$2,941,644,000	32.1%
Newport News	54,387	$13,633,154,000	14,803	$4,557,314,000	33.4%	27,945	$7,016,464,000	51.5%
Norfolk	68,777	$13,514,529,000	42,150	$9,278,394,000	68.7%	64,639	$13,036,810,000	96.5%
Poquoson	5,531	$935,185,000	4,143	$731,818,000	78.3%	5,475	$926,731,000	99.1%
Portsmouth	36,210	$11,654,687,000	16,323	$7,796,066,000	66.9%	28,399	$10,461,503,000	89.8%
Suffolk	39,292	$6,467,879,000	8,428	$1,962,008,000	30.3%	16,815	$3,656,326,000	56.5%
Surry	6,515	$510,594,000	1,273	$115,635,000	22.6%	1,873	$154,310,000	30.2%
Virginia Beach	159,361	$31,699,928,000	46,641	$10,468,936,000	33.0%	72,075	$17,169,030,000	54.2%
Williamsburg	4,466	$1,605,553,000	109	$37,296,000	2.3%	425	$148,087,000	9.2%
York	26,090	$7,313,566,000	7,808	$2,836,965,000	38.8%	12,951	$4,062,218,000	55.5%
Total	**612,808**	**$131,521,718,000**	**211,753**	**$51,917,991,000**	**39.5%**	**347,863**	**$79,358,715,000**	**60.3%**

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Middle Peninsula Planning District Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Gloucester	24,733	$2,967,695,000	11,497	$1,314,673,000	44.3%	15,199	$1,659,415,000	55.9%
King William	13,054	$1,883,441,000	4,673	$1,107,924,000	58.8%	6,113	$1,221,626,000	64.9%
Mathews	10,161	$688,621,000	8,538	$626,181,000	90.9%	9,757	$673,991,000	97.9%
Middlesex	14,033	$1,356,103,000	9,260	$946,929,000	69.8%	11,132	$1,170,803,000	86.3%
Total	**61,981**	**$6,895,860,000**	**33,968**	**$3,995,705,000**	**57.9%**	**42,201**	**$4,725,834,000**	**68.5%**

* Data for the following coastal cities and counties was not yet available for this analysis: Essex County and King and Queen County.

Northern Neck Planning District Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Lancaster	15,824	$671,256,000	9,910	$472,415,000	70.4%	12,393	$545,544,000	81.3%
Northumberland	19,940	$1,555,788,000	13,723	$1,202,316,000	77.3%	15,752	$1,301,036,000	83.6%
Richmond	7,794	$535,834,000	1,525	$103,830,000	19.4%	2,373	$152,090,000	28.4%
Westmoreland	26,858	$786,843,000	17,885	$507,785,000	64.5%	21,077	$571,265,000	72.6%
Total	**70,416**	**$3,549,721,000**	**43,043**	**$2,286,346,000**	**64.4%**	**51,595**	**$2,569,935,000**	**72.4%**

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Northern Virginia Regional Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Alexandria	25,080	$18,010,442,000	5,767	$5,811,997,000	32.3%	14,049	$10,124,721,000	56.2%
Arlington	38,235	$25,543,902,000	2,118	$5,423,270,000	21.2%	7,085	$13,058,523,000	51.1%
Fairfax	358,978	$140,624,358,000	14,655	$5,943,958,000	4.2%	31,648	$11,348,242,000	8.1%
Prince William	143,763	$31,935,361,000	6,951	$1,740,334,000	5.4%	18,398	$3,893,377,000	12.2%
Total	**566,056**	**$216,114,063,000**	**29,491**	**$18,919,559,000**	**8.8%**	**71,180**	**$38,424,862,000**	**17.8%**

Richmond Regional Planning District Commission

Locality	Total Number of Properties	Total Assessed Value of Improvements	Total Number of Properties within 2,500' of the Shoreline	Total Assessed Value of Properties within 2,500' of the Shoreline	% of Total Value	Total Number of Properties within One Mile of the Shoreline	Total Assessed Value of Properties within One Mile of the Shoreline	% of Total Value
Charles City	5,889	$331,765,000	915	$88,548,000	26.7%	1,576	$117,622,000	35.5%
Chesterfield	124,975	$22,506,418,000	2,568	$680,817,000	3.0%	6,946	$1,714,896,000	7.6%
Hanover	47,095	$8,762,019,000	152	$24,635,000	0.3%	271	$41,080,000	0.5%
Henrico	107,655	$25,321,908,000	474	$139,889,000	0.6%	1,190	$207,245,000	0.8%
New Kent	16,698	$1,600,174,000	5,362	$237,614,000	14.8%	6,168	$314,945,000	19.7%
Richmond	69,823	$18,983,540,000	3,011	$3,101,850,000	16.3%	11,594	$6,470,222,000	34.1%
Total	**372,135**	**$77,505,824,000**	**12,482**	**$4,273,352,000**	**5.5%**	**27,745**	**$8,866,009,000**	**11.4%**

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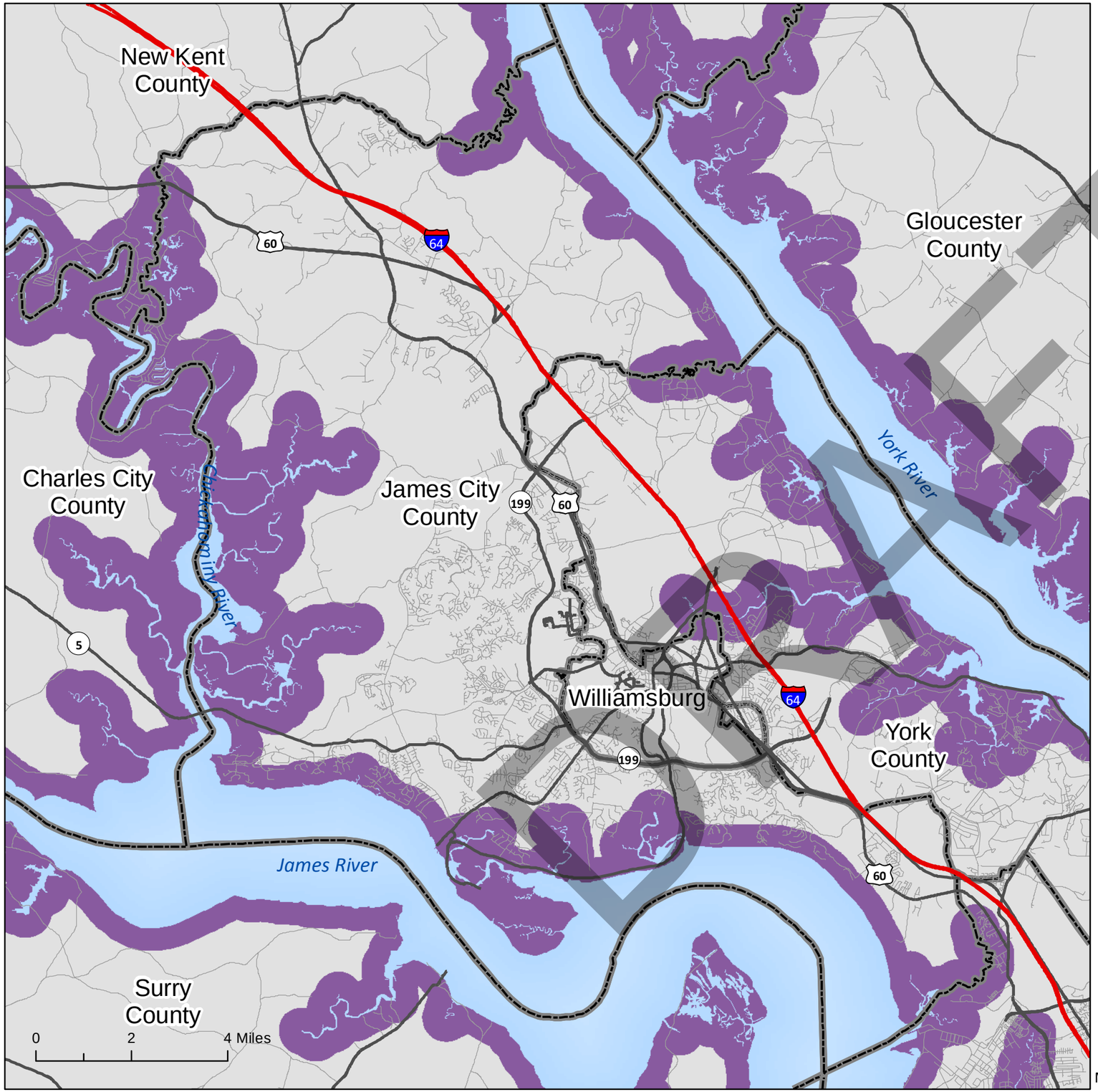
James City County

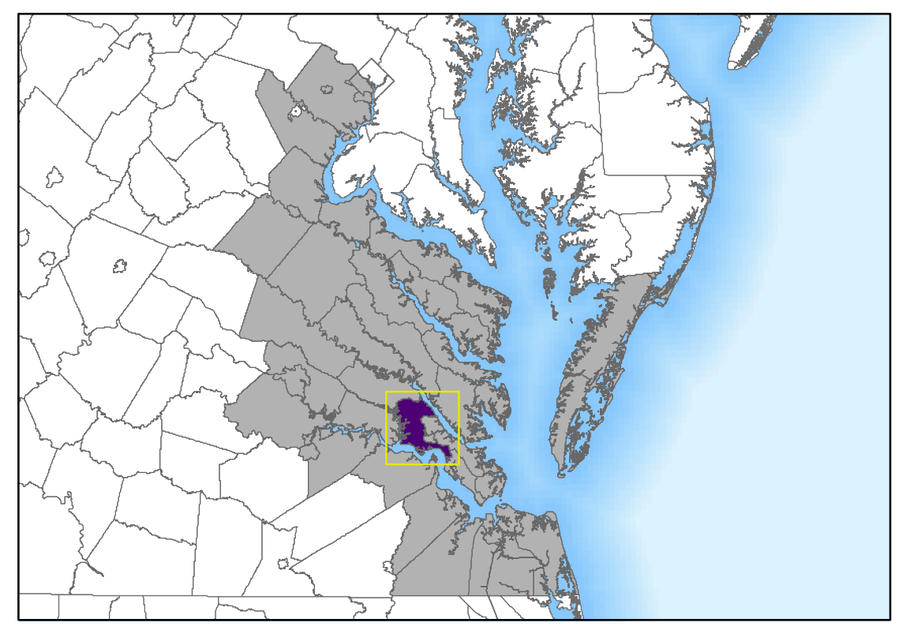
James City County is located on the Virginia Peninsula between the James and York Rivers. The County's estimated population as of July 2012 was 69,546. As of April 2011, the County's total assessed value of improvements was approximately $9.2 billion. Nearly thirty percent of the County's total land area is located within 2,500 feet of tidal waters.

# of parcels within 2,500 feet of tidal waters: **4,634***
Total assessed value: **$1,520,647,000***

* As of April 2011



Area Within 2,500 Feet of Tidal Waters



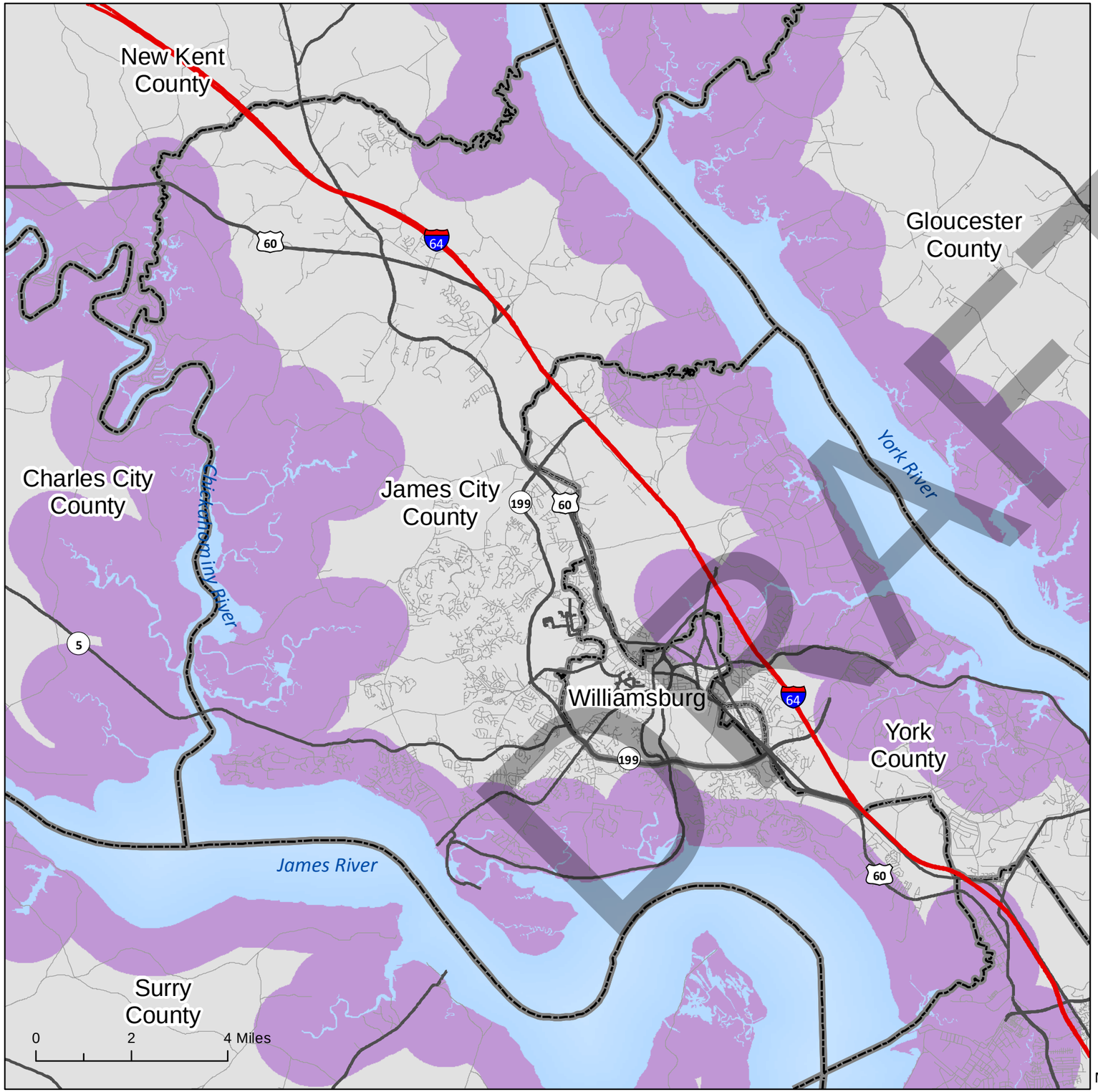
Map created December 11, 2013 by the staff of the Hampton Roads Planning District Commission

James City County

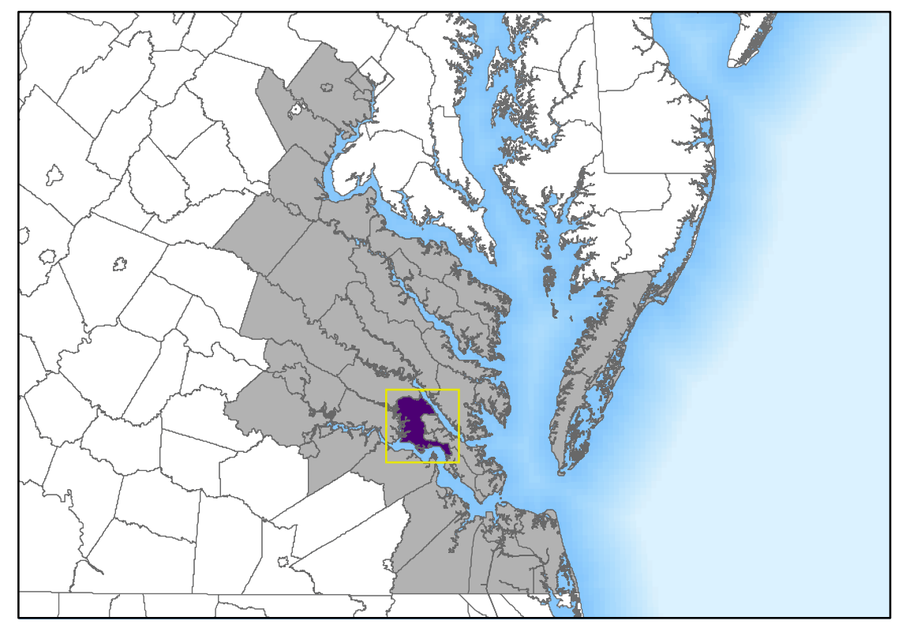
James City County is located on the Virginia Peninsula between the James and York Rivers. The County's estimated population as of July 2012 was 69,546. As of April 2011, the County's total assessed value of improvements was approximately $9.2 billion. Over forty-eight percent of the County's total land area is located within one mile of tidal waters.

# of parcels within one mile of tidal waters: **9,449***
Total assessed value: **$2,941,644,000***

* As of April 2011



Area Within One Mile of Tidal Waters



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Map created December 11, 2013 by the staff of the Hampton Roads Planning District Commission

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APPENDIX C:
GIS SAMPLE: ASKHRGREEN.ORG "TAPIT" MAPS

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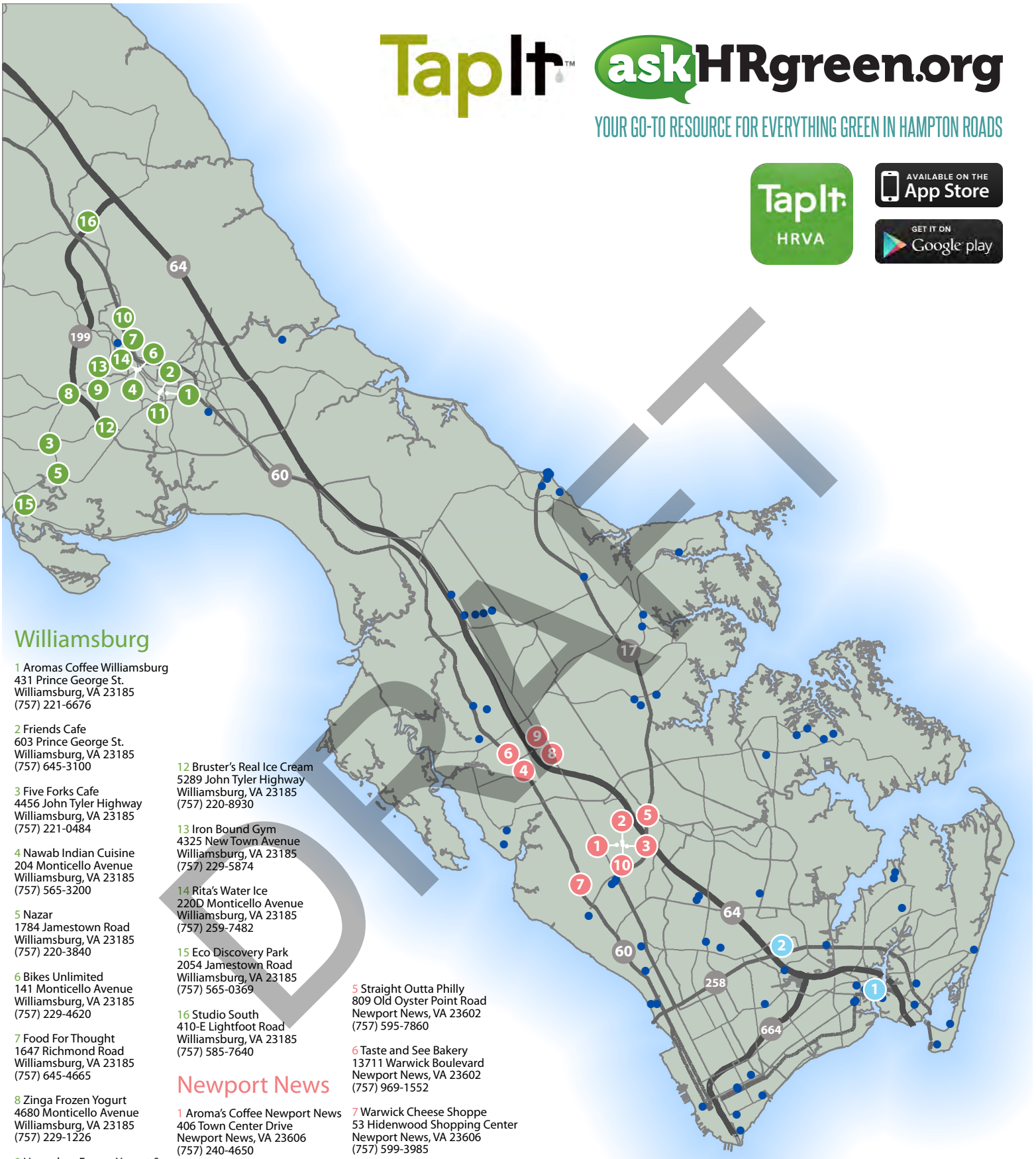


Williamsburg

1 Aromas Coffee Williamsburg
431 Prince George St.
Williamsburg, VA 23185
(757) 221-6676

2 Friends Cafe
603 Prince George St.
Williamsburg, VA 23185
(757) 645-3100

3 Five Forks Cafe
4456 John Tyler Highway
Williamsburg, VA 23185
(757) 221-0484

4 Nawab Indian Cuisine
204 Monticello Avenue
Williamsburg, VA 23185
(757) 565-3200

5 Nazar
1784 Jamestown Road
Williamsburg, VA 23185
(757) 220-3840

6 Bikes Unlimited
141 Monticello Avenue
Williamsburg, VA 23185
(757) 229-4620

7 Food For Thought
1647 Richmond Road
Williamsburg, VA 23185
(757) 645-4665

8 Zinga Frozen Yogurt
4680 Monticello Avenue
Williamsburg, VA 23185
(757) 229-1226

9 Honeybee Frozen Yogurt & Smoothies
5231-B Monticello Avenue
Williamsburg, VA 23185
(757) 903-2886

10 Sno To Go
2229 Richmond Road #2
Williamsburg, VA 23185
(757) 229-0017

11 The Pita Pit
249 Richmond Road
Williamsburg, VA 23185
(757) 565-7482

12 Bruster's Real Ice Cream
5289 John Tyler Highway
Williamsburg, VA 23185
(757) 220-8930

13 Iron Bound Gym
4325 New Town Avenue
Williamsburg, VA 23185
(757) 229-5874

14 Rita's Water Ice
220D Monticello Avenue
Williamsburg, VA 23185
(757) 259-7482

15 Eco Discovery Park
2054 Jamestown Road
Williamsburg, VA 23185
(757) 565-0369

16 Studio South
410-E Lightfoot Road
Williamsburg, VA 23185
(757) 585-7640

Newport News

1 Aroma's Coffee Newport News
406 Town Center Drive
Newport News, VA 23606
(757) 240-4650

2 Nawab Indian Cuisine
11712 Jefferson Avenue
Newport News, VA 23606
(757) 340-0235

3 Momo's Cafe
11801 Canon Boulevard
Newport News, VA 23606
(757) 240-5854

4 La Pena Horeb
13633 Warwick Boulevard
Newport News, VA 23602
(757) 969-5916

5 Straight Outta Philly
809 Old Oyster Point Road
Newport News, VA 23602
(757) 595-7860

6 Taste and See Bakery
13711 Warwick Boulevard
Newport News, VA 23602
(757) 969-1552

7 Warwick Cheese Shoppe
53 Hidenwood Shopping Center
Newport News, VA 23606
(757) 599-3985

8 Thai Papaya Restaurant
319-B Chatham Drive
Newport News, VA 23602
(757) 874-0646

9 HoneyBaked Ham Co. and Cafe
12551 Jefferson Avenue
Newport News, VA 23602
(757) 988-1888

10 Sisters Unique
701 Mariners Row
Newport News, VA 23606
(757) 595-9355

Hampton

1 Old Hampton Ice Cream Parlor
5 East Queens Way
Hampton, VA 23669
(757) 251-6678

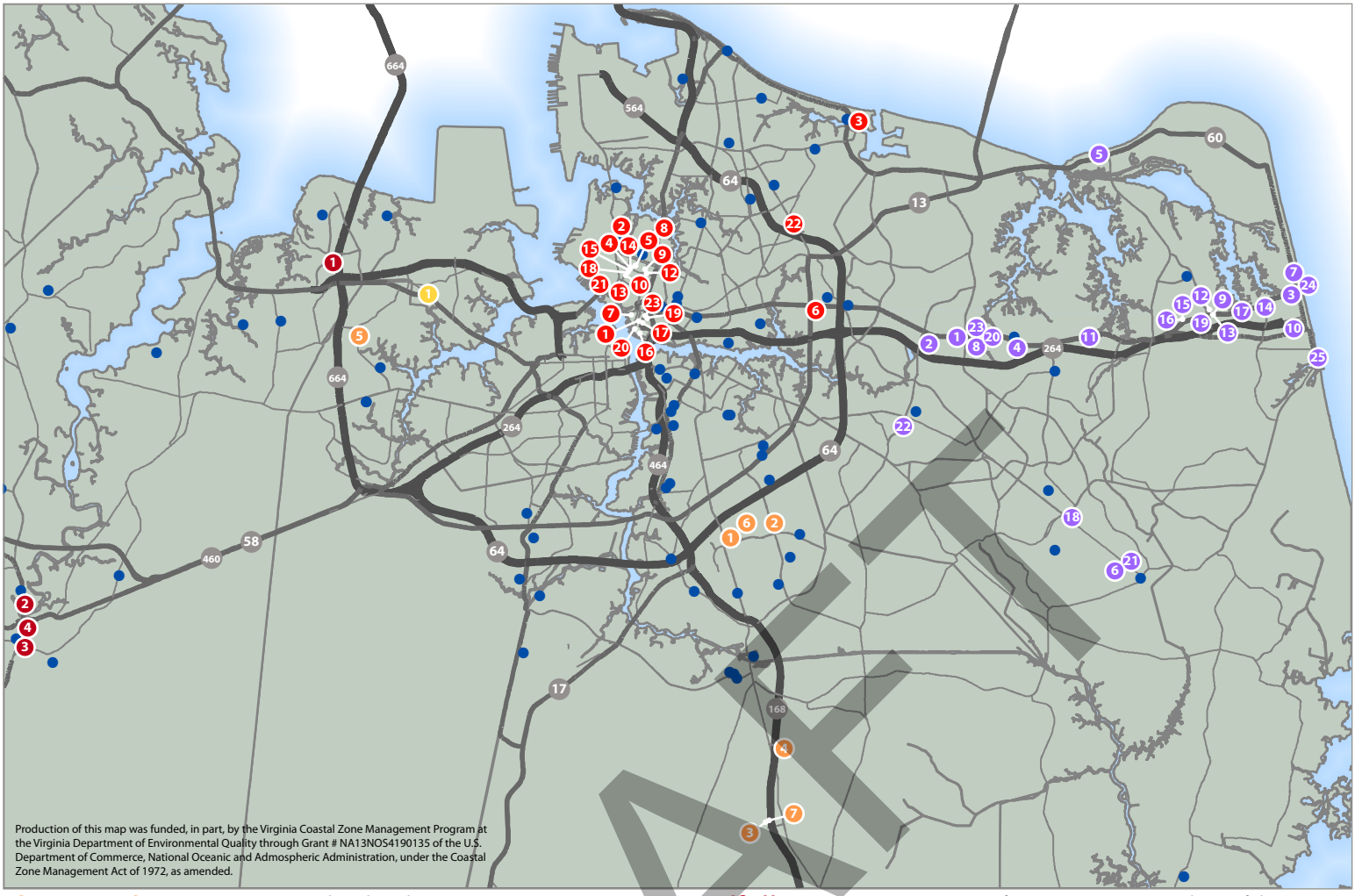
2 Park Lane Tavern
4200 Kilgore Avenue
Hampton, VA 23666
(757) 838-2748

1 TapIt Partner Location

Fountain/Municipal Location

www.askHRgreen.org/TapIt

Production of this map was funded, in part, by the Virginia Coastal Zone Management Program at the Virginia Department of Environmental Quality through Grant # NA13NOS4190135 of the U.S. Department of Commerce, National Oceanic and Admospheric Administration, under the Coastal Zone Management Act of 1972, as amended.



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Chesapeake

1 The Cutting Edge Cafe
1434 Sams Drive #102
Chesapeake, VA 22320
(757) 389-5754

2 Buffalo Wild Wings Grill & Bar
1308 Greenbrier Parkway
Chesapeake, VA 23320
(757) 263-4090

3 Caroline Cupcakery
1200 N. Battlefield Blvd. #106
Chesapeake, VA 23322
(757) 204-4775

4 The Skinny Dip
237 Hanbury Road East
Chesapeake, VA 23322
(757) 410-4710

5 Spaghetti Eddie's Pizza Cafe
3325 Taylor Road
Chesapeake, VA 23321
(757) 484-7301

6 Spaghetti Eddie's Pizza Cafe
733 Eden Way North
Chesapeake, VA 23320
(757) 410-5500

7 Buffalo Wild Wings Grill & Bar
216 Carmichael Way
Chesapeake, VA 23322
(757) 432-1326

Norfolk

1 Chocollage
201 College Place
Norfolk, VA 23510
(757) 533-5335

2 Borjo Coffeehouse
4416 Monarch Way
Norfolk, VA 23508
(757) 440-5800

3 East Beach Sandwich Company
4500 Pretty Lake Avenue
Norfolk, VA 23518
(757) 965-3022

4 Azar's Natural Foods Market & Cafe
2000 Colley Avenue
Norfolk, VA 23517
(757) 664-7955

5 Pelon's Baja Grill
738 West 22nd St.
Norfolk, VA 23517
(757) 961-4673

6 Nawab Indian Cuisine
888 N. Military Highway
Norfolk, VA 23502
(757) 455-8080

7 CURE Coffeehouse and Brasserie
503 Botetourt Street
Norfolk, VA 23510
(757) 321-0044

8 French Bakery & Delicatessen
4108 Granby Street
Norfolk, VA 23504
(757) 625-4936

9 Pasha Mezze
350 West 22nd St.
Norfolk, VA 23517
(757) 627-1318

10 Fair Grounds
806 Baldwin Ave.
Norfolk, VA 23517
(757) 640-2899

11 Hot House Yoga
738 West 22nd St.
Norfolk, VA 23517
(757) 622-0099

12 Norfolk Bicycle Works
314 West 21st St.
Norfolk, VA 23517
(757) 962-6766

13 Press 626 Cafe & Wine Bar
626 West Olney Road
Norfolk, VA 23507
(757) 282-6234

14 Carolina Cupcakery
2019 Colley Avenue
Norfolk, VA 23517
(757) 351-1545

15 Running Etc.
1707 Colley Avenue
Norfolk, VA 23517
(757) 627-1500

16 The Lizard Cafe
109 East Main St.
Norfolk, VA 23510
(757) 622-5973

17 Gym Downtown
259 Granby Street
Norfolk, VA 23510
(757) 321-4963

18 The Skinny Dip
1619 Colley Avenue
Norfolk, VA 23517
(757) 383-6400

19 Buffalo Wild Wings Grill & Bar
420 Monticello Avenue #150
Norfolk, VA 23510
(757) 965-3959

20 Nauticus
1 Waterside Drive
Norfolk, VA 23510
(757) 664-1005

21 Smartmouth Brewing Co.
1309 Raleigh Ave.
Norfolk, VA 23507
(757) 624-3939

22 Mystic Moon
3365 N. Military Highway
Norfolk, VA 23518
(757) 855-3280

23 Bobbie B's Deli
433 Granby Street
Norfolk, VA 23510
(757) 623-7444

Portsmouth

1 JoJacks Cafe
5700 Churchland Boulevard
Portsmouth, VA 23703
(757) 483-1483

Suffolk

1 U3C Italian Ice Cafe
7386 Harbour Towne Pkwy
Suffolk, VA 23435
(757) 967-0778

2 Rita's Water Ice
Suffolk Plaza Shopping Center
882 Main Street
Suffolk, VA 23434
(757) 928-0474

3 Rose's Coffee Cantina
149 North Main Street
Suffolk, VA 23434
(757) 923-9928

4 Mosaic Cafe and Catering
110 West Finney Ave.
Suffolk, VA 23434
(757) 538-5090

Virginia Beach

1 Sweet Temptations Dessert Cafe
4725 Virginia Beach Blvd.
Virginia Beach, VA 23462
(757) 354-2133

2 Virginia Beach Rock Gym
5049 Southern Boulevard
Virginia Beach, VA 23462
(757) 499-8347

3 Perked Up Coffee Cafe
3198 Pacific Avenue
Virginia Beach, VA 23451
(757) 422-0032

4 Azar's Natural Foods Market & Cafe
108 Prescott Ave.
Virginia Beach, VA 23452
(757) 486-7778

5 Cabo Cafe
2301 Red Tide Rd.
Virginia Beach, VA 23451
(757) 216-2095

6 SomBao Cafe
2476 Nimmo Pkwy #101
Virginia Beach, VA 23456
(757) 430-1066

7 Pelon's Baja Grill
3619 Pacific Avenue
Virginia Beach, VA 23451
(757) 417-3970

8 Daily Grind
168 Central Park Avenue
Virginia Beach, VA 23462
(757) 228-3907

9 Azar's Natural Foods Market & Cafe
1624 Laskin Road
Virginia Beach, VA 23451
(757) 422-2927

10 Bad Ass Coffee
619 18th Street
Virginia Beach, VA 23451
(757) 233-4007

11 Quintins Tea
3101 Virginia Beach Blvd.
Virginia Beach, VA 23452
(757) 340-0235

12 Nawab Indian Cuisine
756 First Colonial Rd.
Virginia Beach, VA 23451
(757) 491-8600

13 Blue Ridge Mountain Sports
1624 Laskin Road
Virginia Beach, VA 23451
(757) 422-2201

14 Bella Monte
121 Laskin Road Suite 100
Virginia Beach, VA 23452
(757) 425-6290

15 Hot House Yoga
1952 Laskin Road
Virginia Beach, VA 23462
(757) 354-2133

16 Running Etc.
1940 Laskin Road
Virginia Beach, VA 23454
(757) 491-2340

17 Freedom Surf Shop
1361 Laskin Road
Virginia Beach, VA 23451
(757) 491-0266

18 The Skinny Dip
3388 Princess Anne Road
Virginia Beach, VA 23456
(757) 689-3433

19 The Skinny Dip
541 Hilltop Plaza
Virginia Beach, VA 23454
(757) 648-8800

20 The Skinny Dip
4421 Virginia Beach Blvd.
Virginia Beach, VA 23462
(757) 395-4079

21 The Skinny Dip
1253 Nimmo Parkway
Virginia Beach, VA 23456
(757) 301-3970

22 The Skinny Dip
985 Providence Square Shopping Center
Virginia Beach, VA 23464
(757) 282-6556

23 Red Star Tavern
201 Town Center Drive
Virginia Beach, VA 23462
(757) 473-3295

24 33rd Street Cafe
3301 Atlantic Avenue
Virginia Beach, VA 23451
(757) 428-4585

25 Sunnyside Cafe & Restaurant
508 Atlantic Avenue
Virginia Beach, VA 23451
(757) 965-3033

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APPENDIX D:
UPDATE OF REGIONAL DIGITAL ELEVATION MODEL

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Update of Regional Digital Elevation Model (DEM) for Hampton Roads, Virginia

As part of the FY2011-2012 HRPDC Coastal Resources Technical Assistance Program, the HRPDC staff developed a seamless, high resolution regional digital elevation model for the Hampton Roads region. The need for this special project was driven by the lack of a regional scale high resolution model, which would render sea level rise vulnerability analyses less precise and accurate. The original regional DEM was compiled from eleven individual datasets, the vast majority of which were derived from LiDAR (Light Detection and Ranging) data. The resulting DEM was later used to help develop regional sea level rise inundation maps.

Partly as a result of the HRPDC's focus on sea level rise and flooding, the HRPDC decided in late 2013 to contribute funds to a federal agency-led proposal to acquire new LiDAR data for several localities in eastern Hampton Roads. The contributions from the HRPDC and other partners resulted in the geographic expansion of the project and the decision to gather data around projected low tide. The HRPDC acquired the data from the Virginia Geographic Information Network (VGIN) in August 2014, and immediately began working to incorporate this new data into the regional DEM. The updated DEM includes data from three datasets, compared to eleven for the previous version. These are described in the table below.

ELEVATION DATASETS USED IN UPDATED REGIONAL DEM

Coverage Area	Source or Provider
Eastern Hampton Roads (Chesapeake, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Virginia Beach, York County)	U.S. Geological Survey/National Geospatial-Intelligence Agency (with contributions from HRPDC, HRSD, and ODU)
Western Hampton Roads (Gloucester County, Isle of Wight County, James City County, Suffolk, Surry County, Williamsburg)	VGIN
Franklin and Southampton County	VGIN/FEMA

Similar standards used for the collection and processing of each of these datasets resulted in a much simpler process than in the first version. The final DEM has a horizontal resolution of five feet. The coordinate system is NAD 1983 HARN State Plane Virginia South. The vertical datum is the North American Vertical Datum of 1988. The final product is shown below.

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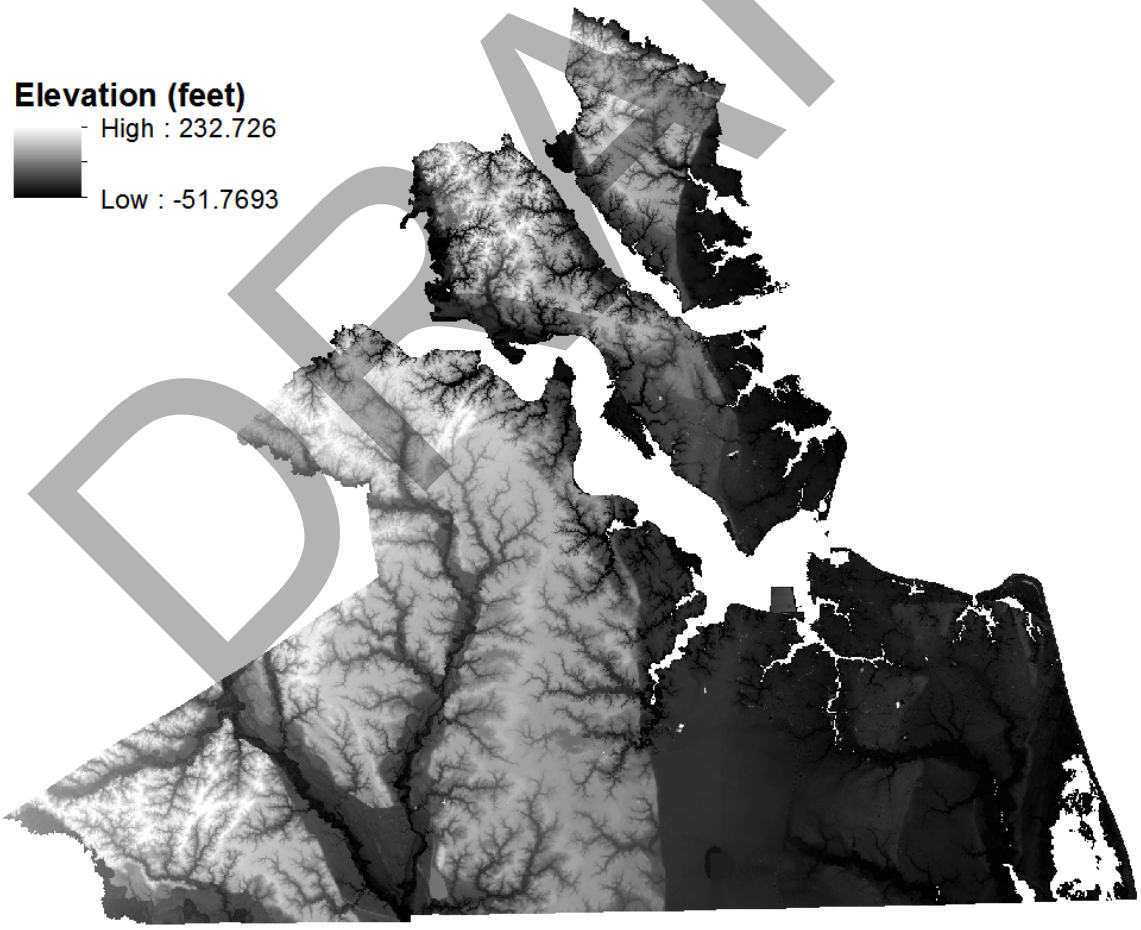
Franklin and Southampton **Western Hampton Roads** **Eastern Hampton Roads**

Updated Regional Digital Elevation Model for Hampton Roads, Virginia



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APPENDIX E:
PRESENTATION TO HIGH SCHOOL CLASS AT THE PRUDEN CENTER FOR INDUSTRY AND TECHNOLOGY, SUFFOLK, VIRGINIA

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WHAT'S PLANNING GOT TO DO WITH ME?

Ben McFarlane, AICP
Regional Planner

Jenny Tribo
Senior Water Resources Planner

ABOUT BEN

- Hometown: Seaford, VA
- College: University of Virginia, Charlottesville, VA
  - Major - Economics
  - Minor – Urban and Environmental Planning
- Graduate School: University of Virginia
  - Master's of Urban and Environmental Planning
- Employment
  - Hampton Roads Planning District Commission, Chesapeake, VA
  - University of Virginia School of Architecture
  - MMM Design Group
  - Virginia Institute of Marine Science

ABOUT JENNY

- Hometown: Little Rock, AR
- College: Drury College in Springfield, MO
  - Majors – Biology, Chemistry, and Environmental Studies
  - Minor – Global Studies
- Graduate School: Duke University
  - Master of Environmental Management
- Employment
  - Hampton Roads Planning District Commission, Chesapeake, VA
  - Tetra Tech, Inc., Research Triangle Park, NC
  - Sonoma Ecology Center, Sonoma, CA
  - U.S. Environmental Protection Agency, Region 5, Chicago, IL

PLANNING AS A CAREER

- What is planning?
  - "When government officials, business leaders, and citizens come together to build communities that enrich people's lives, that's planning." – *American Planning Association*
- Planning is the act of:
  - Assessing where we are (collecting data)
  - Deciding where we want to go (meeting and discussing goals)
  - Figuring out how we can get there (developing the plan)
  - Getting there (implementing the plan)

PLANNING AS A CAREER

- Who do planners work for?
  - Governments (local, state, federal)
  - Private companies (architectural, engineering, etc.)
  - Developers
  - Non-Profits (environmental, housing, community organizing), etc.

PLANNING AS A CAREER

- What kinds of planning are there?
  - Community
  - Land Use
  - Transportation
  - Environmental
  - Economic Development
  - Urban Design
  - Housing
  - Parks & Recreation
  - Historic Preservation

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PLANNING AS A CAREER

- What skills do planners use?
  - Facilitation
  - Engagement
  - Public Speaking
  - Data Analysis
  - GIS
  - Problem Solving
  - Research and Writing
- What knowledge do planners need?
  - Urban structure and systems
  - Plan-making processes
  - Laws and regulations
  - Economics

PLANNING AS A CAREER

- How are planners educated?
  - Getting a job as a planner generally requires at least a Bachelor's Degree, though not necessarily in planning
  - The Planning Accreditation Board accredits both undergraduate and graduate (master's) programs
  - A master's level graduate degree in planning is considered standard
  - Planners can also, after obtaining a degree and several years of experience, become Certified Planners by taking and passing the AICP Exam
- There are many jobs related to planning that do not require a four-year degree or a planning degree
  - Surveying
  - Geographic Information Systems

FOR MORE INFORMATION

- Organizations:
  - www.planning.org
  - www.apavirginia.org
  - www.planetizen.com
- Planning programs in Virginia:
  - UVA: http://www.arch.virginia.edu/academics/disciplines/planning
  - VCU: http://www.wilder.vcu.edu/academic/urban/index.html
  - VT: http://www.uap.vt.edu/index.html

WHAT IS THE HRPDC?

- 1 of 21 Regional Planning Agencies in Virginia
- State enabled; locally created
- 16 Cities & Counties; several Towns; 1.7 million people; 3,000 square miles; 5,000 miles shoreline
- Commission – 45 local elected officials & CAO
- Staff – Executive Director & 45 staff
- Funding – Local contributions, grants, and contracts
- Functions – Economics, Housing, Transportation, Environmental, Emergency Management
- Budget $12,000,000 +
- Role – Policy & Technical Analysis, Planning & Engineering Studies, Cooperative Problem Solving, Coordination

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WHAT DOES HRPDC DO?

- The Commission:
  - "**serves as a forum** for local and elected officials and chief administrators to **deliberate** and **decide** issues of **regional importance**"
- The Staff:
  - "provides the local governments and citizens of Hampton Roads credible and timely **planning, research, and analysis** on matters of mutual concern, and"
  - "**provides leadership and offers strategies and support services** to other public and private, local, and regional agencies, in their efforts to improve the region's quality of life."

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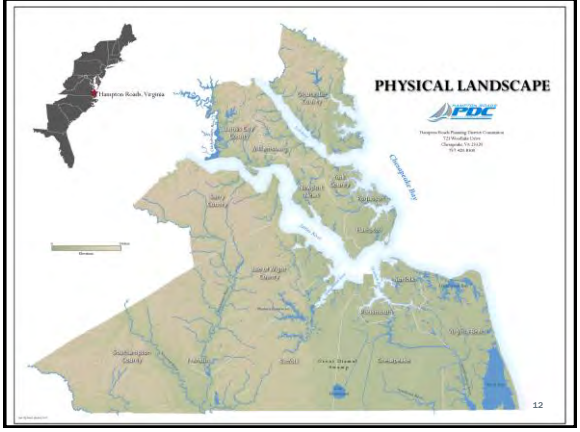

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- Regional Planner
  - Work with all sixteen Hampton Roads localities on both region-wide and locality specific projects
  - Work with state agencies on issues that involve regional programs
  - Many different types of plans, projects, and programs

BEN'S ROLE AT HRPDC
Regional Planning

- Coastal Zone Management
  - Regular meetings with local government staff and state agencies
  - Technical Assistance to localities on various issues
    - Environmental
    - Regulatory
    - Mapping/GIS
  - Environmental Impact Review

BEN'S PROJECTS

- Green Infrastructure
  - SWAMP (Southern Watershed Area Management Plan)
  - Hampton Roads Conservation Corridor Study
  - Green Infrastructure Plan for Hampton Roads

BEN'S PROJECTS

- Goal: Identify and prioritize a network of valuable conservation lands to achieve multiple benefits
  - Identify areas of high ecological value and high water quality protection value
  - Opportunities for connectivity

BEN'S PROJECTS

BEN'S PROJECTS

- Climate Change and Sea Level Rise
  - Grant from VCZMP starting in 2008
  - 4 reports completed
  - Research and GIS analysis
  - Coordination
  - Public Outreach
- What are the projected impacts of climate change and sea level rise on the region?
- What can we do to adapt to higher sea levels?

BEN'S PROJECTS

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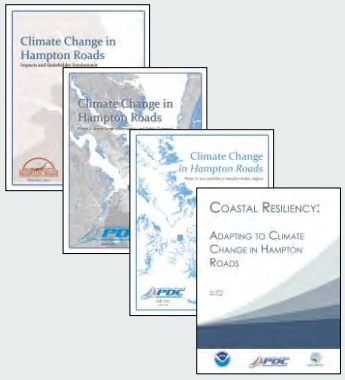
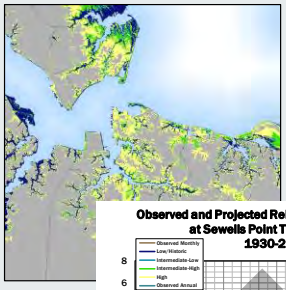
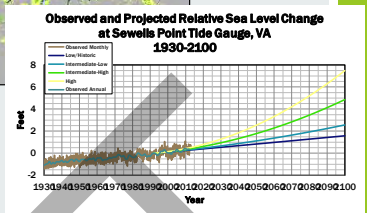


BEN'S PROJECTS





BEN'S PROJECTS

- Comprehensive Plans
  - Williamsburg
  - Gloucester County
  - Franklin
- Other Plans
  - Northwest River Watershed Plan (Chesapeake)

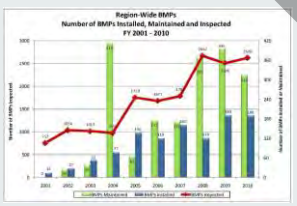
BEN'S PROJECTS

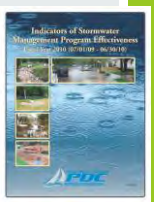
- Water Resources Planner
  - Work with all sixteen Hampton Roads localities on both region-wide and locality specific projects.
  - Work with state agencies on issues that involve regional programs.
  - Focus on water quality and stormwater management.

JENNY'S ROLE AT HRPDC

Senior Water Resources Planner

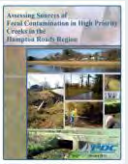
- Regional Stormwater Indicators
  - Annual summary of stormwater related activities throughout the Region.





JENNY'S PROJECTS

- Regional Bacterial Source Tracking Study
  - Goal: Identify methodologies for determining if the source of bacteria in waterbodies is human.
  - Case studies: Shingle Creek, Suffolk
    Moores Creek, York County
    Mill Dam Creek, Virginia Beach
  - Conclusions:
    - Identified testing procedures that work in Hampton Roads.
    - Developed a protocol to apply study to other watersheds.



JENNY'S PROJECTS

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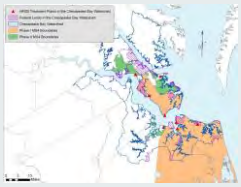
Chesapeake Bay Watershed Implementation for Hampton Roads

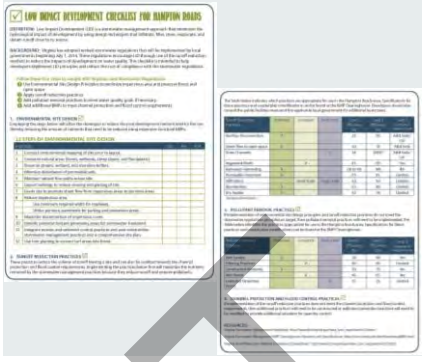
JENNY'S PROJECTS



	Pounds of nutrients removed compared to 2010 No BMPs		
Scenario	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)
Phase I WIP reductions	541,016	78,181	14,792,723
Regional Scenario	741,079	72,432	39,014,362
Percent of Target	>100%	93%	>100%

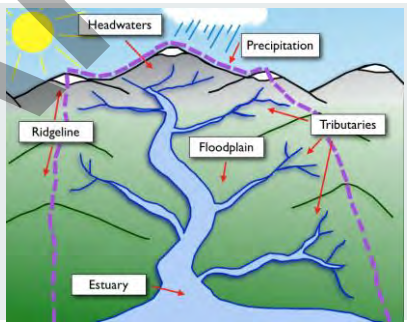
Low Impact Development Checklist

JENNY'S PROJECTS



WATERSHED PLANNING

WHAT IS A WATERSHED



WATERSHED SCALES

ORDER	DIGITS	NAME	UNIT SIZE
1	2	Region	200,000 mi^2
2	4	Subregion	20,000 mi^2
3	6	Basin	10,000 mi^2
4	8	Subbasin	1,000 mi^2
5	10	Watershed	60 mi^2 – 400 mi^2
6	12	Subwatershed	15 mi^2 – 59 mi^2

MAJOR WATERSHEDS IN VIRGINIA

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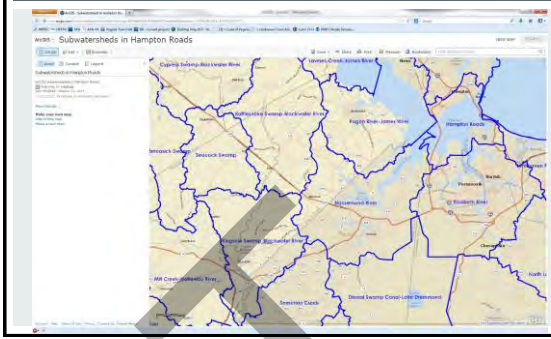
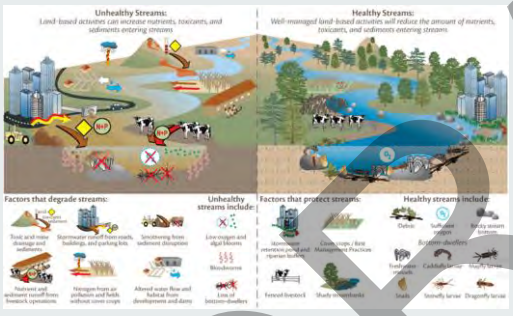
MAJOR WATERSHEDS IN HAMPTON ROADS

WHAT WATERSHED DO YOU LIVE IN?



WATERSHED PROTECTION



WATER QUALITY ASSESSMENT PROCESS

1. Identify Uses for Waterbodies
2. Establish Water Quality Standards
3. Monitor Water Quality
4. Identify Impaired Waters (303dlist)
5. Develop Pollutant Reduction Plan (TMDL)
6. Develop Plan to Reduce Pollutants (TMDL Implementation Plan)

IMPROVING WATER QUALITY THROUGH PLANNING

Development can function more like forest

- More trees & plants
- Less lawn & pavement
- Keep runoff on the site
- Remove the nutrients & sediments

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PLANNING AND WATER QUALITY

- In many if not most localities, responsibility for maintaining or improving water quality has been decoupled from planning
- Planning decisions can have a major impact on water quality due to the location and intensity of development
  - Certain areas are more sensitive than others (e.g. riparian buffers)
  - More impervious cover = lower water quality
- Impervious surfaces – parking lots, road, rooftops – have a direct, negative impact on watershed health
  - Runoff moves faster over impervious surfaces, causing shoreline erosion when it reaches waterways
  - Runoff does not infiltrate into the ground, resulting in more water

PLANNING AND WATER QUALITY

U.S. Environmental Protection Agency

- One-acre, single-family lots
- Typical low-density suburban development
- Impervious Cover: 20%
- Total Runoff: 149,600ft^2/yr
- Runoff/house: 18,700ft^2/yr

PLANNING AND WATER QUALITY

PLANNING AND WATER QUALITY

U.S. Environmental Protection Agency

- One quarter acre, single-family lots
- Medium-density suburban development
- Impervious Cover: 38%
- Total Runoff: 49,600ft^2/yr
- Runoff/house: 6,200ft^2/yr

PLANNING AND WATER QUALITY

PLANNING AND WATER QUALITY

U.S. Environmental Protection Agency

- 1/8-acre, single-family lots
- Medium-density urban development
- Impervious Cover: 65%
- Total Runoff: 39,600ft^2/yr
- Runoff/house: 4,950ft^2/yr

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PLANNING AND WATER QUALITY

PLANNING AND WATER QUALITY

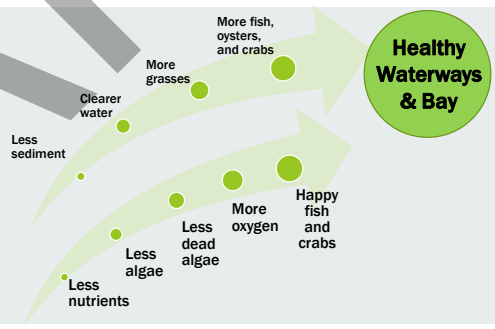
- Concentrating development in a small portion of a watershed can result in better overall water quality

ENVIRONMENTAL SITE DESIGN

12 STEPS OF ENVIRONMENTAL SITE DESIGN

	Practices	Yes	No	N/A
1	Conduct environmental mapping of site prior to layout.			
2	Conserve natural areas (forest, wetlands, steep slopes, and floodplains).			
3	Preserve stream, wetland, and shoreline buffers.			
4	Minimize disturbance of permeable soils.			
5	Maintain natural flow paths across site.			
6	Layout buildings to reduce clearing and grading of site.			
7	Grade site to promote sheet flow from impervious areas to pervious areas.			
8	Reduce impervious area.			
	Use minimum required width for roadways.			
	Utilize pervious pavements for parking and pedestrian areas.			
9	Maximize disconnection of impervious cover.			
10	Identify potential hotspot generating areas for stormwater treatment.			
11	Integrate erosion and sediment control practices and post construction stormwater management practices into a comprehensive site plan.			
12	Use tree planting to convert turf areas into forest.			

BENEFITS OF PLANNING FOR WATER QUALITY



CREATING A PLAN

The Scenario

- A property owner wants to develop a 15-acre property into a single-family home subdivision.
- The property consists of 10 acres of farmland and 5 acres of forests and wetlands bordering a creek.
- The underlying zoning designation for the property allows for 2 dwelling units per acre, for a total of 30 homes allowed overall.

MAPPING EXERCISE

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1. What is a neighborhood?
2. What do you like or dislike about your neighborhood?
   - Homes
   - Yards
   - Sidewalks
   - Parks
   - Amenities
3. What sort of neighborhood would you like to live in?

PLANNING DISCUSSION

- Break into groups (~5-7 students each)
- Select a note-taker
- Select a reporter

PLANNING AND MAPPING EXERCISE

- Discuss and select your three major neighborhood principles
  - Living with Nature
  - Waterfront Living
  - Walkable Community
  - Rural Living

PLANNING AND MAPPING EXERCISE

- Map!
  - Name your subdivision
  - Houses (30)
  - Driveways (at least 10' wide)
  - Roads (at least 25' wide)
  - Parks and Open Space
- Think about how you can incorporate environmental site design into your plan.
  - Calculate the area of impervious surface (houses, driveways, roads) as you go.

PLANNING AND MAPPING EXERCISE

- Discuss and identify any barriers and challenges, real or perceived, to implementing your plan.
- Do you think people would like to live in your subdivision?

PLANNING AND MAPPING EXERCISE

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APPENDIX F:
SAMPLE NEWS ARTICLES POSTED TO HRPDC WEBSITE

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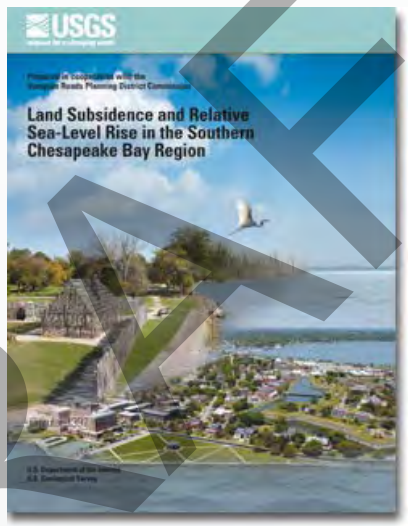
Sinking Land Increases Impacts of Sea Level Rise in Hampton Roads

Added on December 11, 2013 by Whitney Katchmark, Principal Water Resources Planner to Water Resources News

For the past five years, the HRPDC's work plan has focused on quantifying and evaluating the impacts of sea level rise in Hampton Roads. Since land subsidence - the compaction and settling of ground surface area - can increase flooding, alter coastal ecosystems and damage infrastructure, it is important for regional planners to understand why, where and how fast land subsidence is occurring. In Hampton Roads land subsidence is estimated at 1.1 to 4.8mm/year, which is over half of the measured relative sea level rise for the region.



HRPDC staff recently collaborated with the U.S. Geological Survey (USGS) to evaluate all types of land subsidence measurements in the region and determine why the region is sinking. This effort culminated in a USGS Circular, ***Land Subsidence and Relative Sea-Level Rise in the Southern Chesapeake Bay Region***, released to the public December 9, 2013. Table 3 of that circular, "Observed sea-level rise and subsidence in the southern Chesapeake Bay region," summarizes the measured rates of land subsidence from the 22 monitoring stations that have recorded data beginning in 1940. The report concludes that land subsidence in Hampton Roads is primarily a result of groundwater pumping and glacial isostatic adjustment, the flexing of the Earth's crust in response to glacier formation and melting.

With improvements to the existing groundwater model for the Virginia Coastal Plain aquifer system, future subsidence could be evaluated; however, additional monitoring data would be needed to calibrate the model and better understand how land subsidence varies within the region.

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Press Room
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What's New

Help Your Christmas Tree Give Back
December 18, 2014 - Katie Cullipher, Senior Envrionmental Education Planner

Continued Slow Growth in Employment
December 11, 2014 - James Clary, Senior Economist

HRPDC Staffer to Lead State Climate Change Workgroup
December 10, 2014 - Julia B. Hillegass, Public Information & Community Affairs Administrator

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Regional Committee to Plan for Flooding and Sea Level Rise

Added on March 26, 2014 by Benjamin McFarlane, Regional Planner to Planning News

Flooding can be caused by high tides, heavy rainfall, or coastal storms. Regardless of the cause, flooding causes major impacts to our communities. Many studies have analyzed the region's vulnerability to flooding and possible adaptation strategies, but these studies have focused on informing the debate rather than changing local policy. The next step will be to use this information to decide which policies need to be changed and projects need to be built.

Last Thursday, the region took this step when the HRPDC voted to establish a Special Committee to help the region plan for both recurrent flooding and sea level rise. This Committee will be responsible for developing policy and other recommendations for local governments, advocating for state and federal support, and serving as the primary regional contact for coordinating efforts with academic institutions and federal and state agencies. Initially, the members of the Committee will be local government staff from across Hampton Roads representing various departments (such planning, public works, and economic development). Other stakeholders, such as the military, will be invited and encouraged to participate.

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HRPDC Assists DCR with Virginia Outdoors Plan

Added on May 5, 2014 by Joe Turner, Communications Manager to Planning News

The Virginia Department of Conservation and Recreation (DCR) recently updated **The Virginia Outdoors Plan (VOP)**, Virginia's official guide for the planning of public outdoor recreation and land conservation. DCR called upon the HRPDC to help with updating the Hampton Roads portion of the plan. HRPDC Planning staff provided content review for the Hampton Roads chapter, verifying existing resources or planned projects across the region, as well as identifying high priority regional projects. The included maps were reviewed for accuracy and where appropriate, updated geographic information systems (GIS) data was provided. In addition, the HRPDC provided photos and also hosted two of the 42 meetings held across the state in 2012 to collect public comments for the plan's update.

The document highlights the natural resources and historical attractions Virginia has to offer and is updated every five years. This is the 10th such plan produced since 1965, and is the first to be completely paperless. It also debuts **VOP Mapper**, a user-friendly online tool for mapping outdoor recreation resources and conserved lands.

This plan promotes expanding tourism opportunities and the economy through outdoor recreation and land conservation. The VOP is required for Virginia to participate in the federal Land and Water Conservation Fund program. Virginia has received more than $76 million in grants through the National Park Service. DCR disperses these grant funds statewide for public outdoor recreation. More than 400 projects across the state have been made possible through this funding. Projects range from improvements at existing parks to land acquisitions for developing new parks.

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HRPDC Facilitates New Special Committee on Recurrent Flooding & Sea Level Rise

Added on June 25, 2014 by Whitney Katchmark to Water Resources News

The newly formed HRPDC Hampton Roads Special Committee on Recurrent Flooding and Sea Level Rise met for the first time on Friday, June 20th. The committee was established with three objectives:

1. Develop recommendations for local governments
2. Advocate for federal and state support
3. Serve as primary regional contact for coordinating efforts with federal agencies and academic institutions.

The committee developed a list of issues to tackle in support of the first objective including:

- Revise wetland mitigation policies to account for potential inundation of wetland banks including coordination with U.S. Army Corps of Engineers.
- Identify a tool to measure the resiliency of hard infrastructure assets.
- Integrate sea level rise into the Regional Hazard Mitigation Plan under revision.
- Assess the potential financial impact of sea level rise on local government revenues.
- Investigate the impact of sea level rise on economic development strategies especially the state's priorities.
- Integrate sea level rise into the planning and design of VDOT and HRTPO transportation projects.

The committee discussed HRPDC's plans to hold Dutch Dialogues in the region. The Dutch Dialogues have been held in New Orleans and St Louis and consist of work sessions between local stakeholders and Dutch experts on water management. The sessions focus on developing actions specific to a neighborhood scale problem that take a broad approach to managing sea level rise, stormwater, and groundwater to address both flooding and water quality problems. Reports from these efforts are available at http://dutchdialogues.com/.

The committee was also asked to review the draft charter for ODU's "Intergovernmental Planning Pilot Project" to address Hampton Roads Sea Level Rise Preparedness and Resilience. The committee will provide input on the local government role in this effort. Diane Kaufman from Senator Tim Kaine's office encouraged the committee members to attend the congressional workshop, "Hampton Roads Sea-Level Rise and Preparedness Action Items at the Federal Level", on June 30th where our congressmen and state and local elected officials will be discussing the needs of the region.

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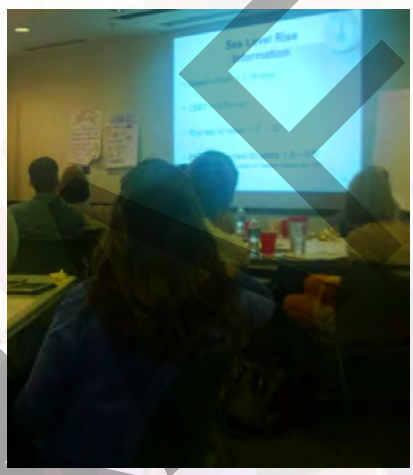
HRPDC Hosts Climate Adaptation Training for Local Staff

Added on August 11, 2014 by Ben McFarlane, Senior Regional Planner to Water Resources News

This past July local planners, engineers, and other staff from across Hampton Roads took advantage of a long month to participate in a workshop on Climate Adaptation for Coastal Communities. The training was provided by staff from the National Oceanic and Atmospheric Administration's Coastal Services Center, and hosted by the Hampton Roads PDC at Newport News Waterworks. In addition to NOAA and HRPDC, several other partners took part in planning and coordinating the training, including Wetlands Watch, the Virginia Coastal Zone Management Program, and the Chesapeake Bay National Estuarine Research Reserve. Over forty people attended the three-day training, including thirty-seven who attended for all three days. The training was provided through NOAA program funds and the HRPDC's existing Coastal Zone Management grants, so there was no cost to attendees. The training also provided continuing education credits to certified planners and floodplain managers.



Climate Adaptation for Coastal Communities was designed by NOAA to teach local practitioners about climate change impacts and tools and techniques they could use to address those impacts in their communities. The course featured a mix of presentations (including some from Hampton Roads communities) and hands-on activities that put concepts into use. Day 1 focused on climate change science, Day 2 focused on vulnerability and adaptation, and Day 3 focused on communications and implementation. The sessions highlighted local communities, with presentations including existing and projected climate conditions for Hampton Roads and local activities and programs Hampton Roads cities and counties already have in place. Activities included identifying climate stressors, scoping out and conducting qualitative vulnerability assessments, and identifying adaptation options.

Overall, the training was well received. The lessons learned should be carried over into local plans addressing climate change impacts on Hampton Roads communities, with several localities' efforts already underway or soon to begin.

DRAFT

Regional Trails Taking Shape in Hampton Roads

Added on August 12, 2014 by Sara Kidd, Senior Regional Planner to Planning News

Hampton Roads is home to a variety of trails for hikers, bikers, and boaters. Several of these trails have been completed while others are still under construction or in the planning phase. Recently, some exciting progress has been made on a few of the trails, bringing them a few steps closer to completion.

The **South Hampton Roads Trail (SHRT)** is a 41-mile proposed multi-use/bicycle route between Suffolk and Virginia Beach. Two sections of this trail are now on their way to construction. The planned section between the Driver and Pughsville neighborhoods in Suffolk has been funded and will begin construction later this year (see map). This portion of the SHRT is a rails-to-trails project and is known as the Suffolk Seaboard Coastline Trail locally. Also, a 1.8-mile rails-to-trail segment of the SHRT in the City of Portsmouth was recently approved for funding for both planning and construction phases for a multi-use path. Both HRPDC and HRTPO staff have been involved on the steering committee for this project.

The **Beaches to Bluegrass Trail (B2B)** is a statewide trail being planned by the Virginia Department of Conservation and Recreation (DCR) which traverses the entire state from the Cumberland Gap to the Virginia Beach oceanfront and Eastern Shore. The B2B seeks to connect existing multi-use trails where possible but for the interim (where there are gaps), on-road bike routes will be designated. The HRPDC approved a letter of support for the B2B in March 2014. The letter also expressed support for the B2B and SHRT sharing the same route through Hampton Roads where there is overlap. The final plan for the B2B will be available in the Fall of 2014.

The **Captain John Smith National Historic Trail (CAJO)** traces the historic routes of John Smith as he explored the Chesapeake Bay and its tributaries. The James River segment plan of the CAJO has recently been completed. In May 2014, the Nansemond segment in Suffolk was opened and dedicated along with a new informational kiosk at Bennett's Creek Park. Other kiosks will be installed in Suffolk at Sleepy Hole Park and Constant's Wharf. A new public kayak launch at Constant's Wharf is also slated for construction, which was funded through the Virginia Coastal Zone Management Program via the HRPDC. Other informational kiosks for the CAJO will be installed around the region in the future at Windsor Castle Park in Smithfield, Fort Monroe, Jamestown, Chippokes State Park, and York River State Park.

For a comprehensive list of all existing, planned, and proposed regional trails in Hampton Roads, please visit **our regional trails page**.

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