

# Phase II Watershed Implementation Report for Hampton Roads PDC

## Regional Component

### **1) Regional Approach to WIP**

- a) Describe localities, federal and state agencies, and brief description of sectors in Hampton Roads.
- b) Include map of basins, segments, localities.
- c) Describe HRPDC two tier approach: Regional Steering Committee and local teams.

### **2) Regional Engagement**

This section will list interactions with local governments through Team meetings, regional meetings, webinars, hands-on training, and other coordination with local governments, federal facilities and State highways.

### **3) Regional Framework**

This section will describe the role of local governments, Soil Water Conservation Districts, State agencies that own property (DoF, VDOT, Universities, etc), Federal agencies that own property (DoD, etc), industrial NPDES permit holders, and HRSD.

### **4) Programmatic Strategies**

- a) BMP Decision Matrix
- b) On-going initiatives
  - i) Quantify programs and infrastructure created by NGOs.
  - ii) Quantify and encourage redevelopment.
  - iii) Encourage flexible credit trading program.
- c) Programs that should be researched, added to model
  - i) Air deposition (need more details) – what happens if power plants open or close? Would reducing vehicle miles count?
  - ii) SSOs
  - iii) Oyster Restoration
  - iv) No Discharge zones
  - v) Removing sediment behind dams?
  - vi) Effectiveness of education programs

### **5) Implementation Challenges**

This section will describe implementation challenges: authority and funding.

- a) Continued State funding of Ag BMP cost share.
- b) More State funding for Septic upgrades
- c) Allow Septic funding to be used for sewer connections.
- d) State requirements and timeline for Septic upgrades

- e) Simplify process to install BMPs in CBPA
- f) State funding to support regional BMPs.
- g) Extend implementation schedule for TMDL and/or SSO Consent Order to reduce fiscal stress on localities or provide federal funding for implementation. (reference EPA initiative)

## 6) Data and Research Needs

This section describes research needed to guide implementation strategy decisions so the specific programs and projects maximize water quality improvements.

- a) Water quality monitoring in Coastal Virginia to estimate urban loads.
  - i) Estimate loading rates and ratio of N, P, sediment
  - ii) Evaluate impact of extreme events
  - iii) Better analysis of most effective locations for BMPs.
- b) Revise segmentsheds in each basin to reflect hydrodynamics.
- c) Process for including local landuse data into 2017 model calibration.
- d) State needs to establish data requirements, format for data reporting, and schedule for TMDL milestones.
- e) Evaluation of BMPs effectiveness for nutrient and bacteria removal.
- f) Evaluation of BMPs effectiveness for nutrient removal and flood control.

## 7) Basin Level VAST data or quantified strategies (NEED to DECIDE)

Allocations, progress runs and strategies (BMP reduction analyses) will be presented and established at the **major basin scale** (James, York). Material will be presented in tables and will include subtotals by sector for each basin and subtotals for each basin.

## Local Components

### 1) Overview of the Local Team's process:

- a) Identify County's local Phase II WIP Team membership.
- b) Summarize Local team's work and commitment to meet Phase II WIP goals.  
Recommended items to include:
  - i) Coordination among local government departments, elected officials and decision makers, state and federal partners, key stakeholders
  - ii) Team's general approach to meeting reduction targets (criteria, objectives)
  - iii) Past successes
  - iv) Biggest future challenges

### 2) Identification of data discrepancies: Document discrepancies between State, CBP Bay Model, and local area data.

- a) Enter local landuse data into VAST.

- b) Create list of BMPs and program implementation based on local groundtruthing.

### 3) **Locality Strategies**

- a) **Funding Strategies:** Provide narrative strategies that describe expectations and process for creating funding framework by 2017. Examples of programmatic milestones:
  - i) Our locality is expecting that a new, more stringent permit will be issued by 20XX, and we are taking the following steps to be prepared to implement it.
  - ii) We expect to increase staff capacity by X FTEs by 2013 to accommodate the work required for increased implementation. (Try to be specific)
  - iii) We will develop and assess options for increasing revenues for our stormwater program in 2012.
  - iv) In 2012, we will identify revenues for consulting services to assist with the development of a funding system for implementation of our strategy.
  - v) In 2013, we will select an option for increasing revenues for our program and begin conducting rate studies and a public involvement process.
  - vi) For 2012, our implementation is built into our CIP and our 2013 CIP will recognize the need to accelerate progress to meet the 2025 goal.
- b) **Programmatic Strategies:** Provide narrative strategies that describe the types of BMPs and nutrient reduction programs that the locality will pursue. Provide guidance to the State on which BMPs your locality will focus on and which ones have less support or potential. The goal is provide the State (or HRPDC) enough information to create a basin level input deck that reflects the preferred implementation strategies of the localities in the basin. Examples of programmatic strategies:
  - i) In 2012, we will evaluate the potential of all public projects under development to increase nutrient removal.
  - ii) In 2012, we will evaluate our plan review process and ordinances to incorporate new stormwater regulatory requirements and include TMDL strategies where appropriate (tree planting, less parking).
  - iii) Have X% of public property; X% is impervious/pervious; install BMPs on most of it.
  - iv) Nutrient management on all public grounds (schools, parks) or no fertilizer on X acres.
  - v) Purchase and convert X acres of urban land to forested buffer for flood control.
  - vi) Upgrade approximately X acres of wet ponds.

### 4) **Area Implementation Tracking, Verification and Reporting Methods**

Briefly describe how local implementation actions will be tracked, verified and reported. Consider all sectors: urban land, septic, and agriculture.