

# **Rudee Inlet Watershed TMDL**

Technical Advisory Committee Meeting

Virginia Aquarium and Marine Science Center

Tuesday June 27, 2017

1:00 p.m. – 3:00 p.m.

## **Attending:**

A full list of meeting attendees is provided as Attachment 1.

## **Meeting Summary**

### **1. Introductions**

Rachel Hamm, VA-DEQ, welcomed members of the TMDL TAC and proceeded with attendee introductions.

### **2. Meeting Purpose**

Rachel Hamm provided a review of the TMDL process and the purpose of the TAC meeting.

### **3. TMDL Presentation**

Jian Shen and Mac Sisson from VIMS gave a presentation on observations, preliminary data analysis and initial source assessments for the TMDL watershed.

### **4. TAC Discussions, Questions and Action Items**

- VIMS used findings and analysis from the VIMS 2010 Report, *The Development Of A Management Tool To Assess Bacterial Impacts In Rudee Inlet, Virginia Beach*, as preliminary data for the Rudee Watershed TMDL <http://www.vims.edu/GreyLit/VIMS/sramsoe423.pdf>

- TAC discussions about boat discharges as potential sources of bacteria and nutrients.
  - Boat discharge rates are unknown and hard to quantify. Suggestions were made to review the Lynnhaven River TMDL and the NDZ Application to further define the loading from boats.
    - **Action Item:** Review and update loadings from boats.
  - The City of Virginia Beach and HRSD have partnered to provide free boat pump out services.
  - Slide 10, Spatial Map with Average Fecal Coliform loading, from the presentation was discussed. Areas around Lake Wesley (including Area 41) may be impacted by transient boat mooring inside Rudee Inlet that could be contributing to impairments. All waterfront property around Lake Wesley is private property and currently there is no public pump out facility available east of the Rudee Inlet Bridge. Discussions with property owners for a potential to add a pump out facility on private property will continue.
- TAC discussed the status of the No Discharge Zone application for the Rudee Inlet watershed area. Anne Schlegel, DEQ, believes the application is at EPA and cannot be approved until a pump out station is installed outside of the bridge area (i.e. Lake Wesley area).
  - **Action Item:** DEQ will review and provide an update on the NDZ.
- TAC discussions about wildlife observations in the watershed.
  - Salt Marsh Point was owned by the Navy and is now owned by the City of Virginia Beach. Wildlife observations (deer) have increased since the City of Virginia Beach acquired the property.
  - Ebird.org is a free website that citizens can report and access information about birds. Data maintained by the website include bird abundance by species and distribution.
  - Lake Holly has a large migratory goose population.
- TAC discussions about pet population and waste in the watershed.

- Land between Salt Marsh Point and Shadowlawn is a popular area for dog walking. This area is planned to be turned into a City of Virginia Beach dog park. There is also a small homeless population within the area.
- There are 760 registered dogs in the TMDL watershed. The City of Virginia Beach will provide VIMS with the location data in order to associate pet estimated loadings with hot spots.
  - **Action Item:** The City of Virginia Beach will provide pet registration numbers within the TMDL watershed to DEQ.
- TAC discussions about sources of nutrients within the watershed.
  - Lake Christine overflows to Lake Wesley. The consensus is the overflow is a pipe to subwatershed area 41 (western tip of Lake Wesley). Further investigation of this potential connectivity is suggested.
  - Is there an impact from the dredge spoil areas within the watershed? Jian estimates that this load is small in comparison to other factors. From his preliminary analysis, these waters are not strongly impacted by dredging practices but rather by stratification and the lack of exchange between the surface and bottom depths.
    - **Action Item:** Raul Gonzalez from HRSD will provide VIMS with nutrient data collected from two stations within Virginia Beach. These two stations will serve as the baseline loads for nutrients contributed within the residential areas.
- What are the United States Navy Boat Ramp contributions or loading?
  - **Action Item:** DEQ will review Navy permits to see if this facility is included in the Navy's MS4 permit.
- VDOT does not have a permit within the TMDL watershed. All MS4 stormwater regulated area is within the City of Virginia Beach.
  - The stormwater pipes and outfall locations for the City of Virginia Beach MS4 are available online. <https://gisapps.vbgov.com/map/>

- TAC discussed the Lynnhaven River Now Pearl Homes program as a technique to help with restoration of the Rudee Inlet TMDL watershed <http://www.lynnhavenrivernow.org/pearl-homes/>.

#### **Additional Action Items**

- **Action Item:** DEQ will provide Sanitary Sewer Overflow data to VIMS.
- **Action Item:** The City of Virginia Beach will review and provide VIMS with any private pump station information.

**5. The meeting was adjourned at 3:00 p.m.**

Attachment 1: TAC Meeting Attendee List.

<b>Rudee Inlet Watershed TMDL Technical Advisory Committee Meeting Tuesday, June 27, 2017</b>	
<b>Name</b>	<b>Affiliation</b>
Sean Bourgeois	Virginia Aquarium
Lindsey Frederick	Virginia Aquarium
Maureen Stedman	Virginia Aquarium
Mark Swingle	Virginia Aquarium
Shannon Reinheimer	Surfrider Association
Nick Gallegos	Surfrider Foundation
Charles (Chuck) F. Payne, III	Rudee Inlet Foundation
Katie Ripberger	Rudee Inlet Foundation
Corinna Green	City of Virginia Beach
Tara W. Gallagher	City of Virginia Beach
Melanie Coffey	City of Virginia Beach
Ashley Hall	Stantec (on behalf of VDOT)
Jill Sunderland	HRPDC
Chris Burbage	HRSD
Raul Gonzalez	HRSD
Roger Everton	VA-DEQ
Kristie Britt	VA-DEQ
Rachel Hamm	VA-DEQ
Anne Schlegel	VA-DEQ
Jian Shen	VIMS
Mac Sisson	VIMS