

## Modifications to Rappahannock River Summary

### Overall

Changes to format (optional)

Modified text to address comments

Did not remove content but changed language

Reviewed and edited all sections

Added a Living Resource section with supporting tables and figures

#### 1. **Purpose and Scope** – minor modifications

#### 2. **Location**

2.1 **Watershed Physiography** - No changes

2.2 **Land Use** – minor modifications, some additional text.

2.3 **Tidal Waters and Stations** – minor modifications.

#### 3. **Tidal Water Quality Status**

Changed section heading title to “Water Quality Trends and Management Goals”. Changed the tables to a figure changes the table and figure numbering throughout the body of the text. All table and figure numbers have been updated and text references related to them as well. The tables can always go back into the document if preferred.

#### 4. **Tidal Water Quality Trends**

Reviewed all text, made minor modifications and additions to most parameter sections. Updated Figure numbering as indicated above.

#### 5. **Factors Affecting Trends**

5.1 **Watershed Factors** - Minor editorial changes.

5.1.1. **Effects of Physical Setting** - Minor editorial changes.

5.1.2. **Estimated Nutrient and Sediment Loads**

Added text describing Qian’s estimated load figures. Note rather than a separate section for each nutrient, all descriptions were combined into a single short paragraph since both the patterns and the statistical results for all parameters seemed similar. Added plots of CAST segment specific Progress Run loads with text describing results and contrasting them with Qian’s. Added a Table with statistical analysis of CAST Progress run loads similar to Qian’s (Table 4). Added Figure 21 and Table 4 and associated segment specific text describing trends in CAST loads.

**5.1.3. Expected Effects of Changing Watershed Conditions** - minor modifications.

**5.1.4. Best Management Practices (BMP) Implementation** minor modifications.

## **5.2 Living Resources**

Added this section of text and supporting tables and figures and placed Qian's text on SAV here.

**5.2.1. Phytoplankton Communities** – status and trends of phytoplankton

**5.2.2. Submerged Aquatic Vegetation** – Update Qian's section and text with data through 2020.

**5.2.3. Benthos** - status and trends of benthic communities.

## **6. Summary and Insights**

## **7. References**

**What now?**

- 1. Appendices**
- 2. Review and Comments**
- 3. Revise**
- 4. More in Insights**
- 5. Complete by end December/mid-January?**