| TABLE OF CONTENTS |  |
| --- | --- |
| CHAPTER 1: INTRODUCTION...................................................................................................... | 1 |
| CHAPTER 2: STATE BACKGROUND INFORMATION.............................................................. | 7 |
| CHAPTER 3: SURFACE WATER MONITORING........................................................................ | 10 |
|  3.1 Chesapeake Bay Monitoring Programs in Virginia………..................................... | 16 |
|  3.2 VDH Beach Monitoring Program............................................................................ | 19 |
|  3.3 Citizen and Non-Agency Water Quality Monitoring Program................................ | 24 |
| CHAPTER 4: SURFACE WATER QUALITY ASSESSMENT..................................................... | 35 |
| 4.1 Assessment Methodology......................................................................................... | 35 |
| 4.2 Statewide Water Quality Assessment Summary....................................................... | 46 |
| 4.3 Individual River Basin Assessment Results.............................................................. | 62 |
| 4.4 Freshwater Probabilistic Monitoring Results…........................................................ | 107 |
| 4.5 Estuarine Probabilistic Monitoring Results............................................................... | 149 |
| 4.6 Chesapeake Bay Assessment Results........................................................................ | 171 |
| CHAPTER 5: NONPOINT SOURCE ASSESSMENT.................................................................... | 196 |
| CHAPTER 6: GROUNDWATER PROGRAMS/ASSESSMENT................................................... | 213 |
| CHAPTER 7: WATER QUALITY PROGRAMS........................................................................... | 235 |
| 7.1 Water Pollution Control Programs (VPDES and TMDLs)....................................... | 235 |
| 7.2 303(d) Program Visions………………………………………………………….... | 246 |
| 7.3 Pollution Prevention Programs…………………………………………….............. | 265 |
| 7.4 Cost/Benefit Associated with the Construction Assistance Program........................ | 267 |
| 7.5 Public Health/Aquatic Life Concerns....................................................................... | 272 |
| 7.6 Coastal Resources Management Program Initiatives................................................ | 285 |
| 7.7 Chesapeake Bay Program Initiatives......................................................................... | 301 |
| 7.8 Wetlands Program Initiatives.................................................................................... | 306 |
| 7.9 Regional Water Quality Initiatives............................................................................ | 318 |
| APPENDICES |  |
| 1 Integrated List of All Waters in Virginia |  |
| 1a List of Category 5 Impaired Waters |  |
| 1b Supplemental List of Category 5 Waters Newly Impaired in 2022 |  |
| 1c List of Category 4A Impaired Waters |  |
| 2 Waters Identified for Delisting since 2020 Report |  |
| 3 Water Identified for Delisting since 2020 Report for Designated Use Removal |  |
| 4 Fact Sheets for Impaired Waters |  |
| 5 Clean Water Act References |  |
| 6 List of Significant Lakes |  |
| 7 Assessment Monitoring Station List |  |