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**State of Delaware 2026 Combined Watershed  
Assessment Report (305(b)) and Determination  
for the Clean Water Act Section 303(d) List of  
Waters Needing TMDLs  
(The Integrated Report)**



**Division of Watershed Stewardship,  
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## Executive Summary

The State of Delaware's 2026 Combined Watershed Assessment Report (305(b)) and Determination for the Clean Water Act Section 303(d) List of Waters Needing a Total Maximum Daily Load (TMDL) (herein "the Integrated Report" or "IR2026") provides a statewide assessment of water resources, highlights Delaware's initiatives in water resources management, pollution control efforts and provides a list of waters that need a TMDLs or other restoration approaches to meet water quality standards. The document fulfills the reporting requirements set forth under Sections 305(b) and 303(d) of the Federal Clean water Act of 1977, as amended in 1981 and 1987 (33. U.S.C §§ 1251 *et seq.*). This Integrated Report summarizes statewide water quality assessments and includes tables to show the results of water quality analyses. The provided tables (Appendices B – E) show the designated use support findings for data from the period of January 1, 2020, through December 31, 2024, as well as the resulting Section 303(d) List of Waters Needing TMDLs.

The Delaware's Department of Natural Resources and Environmental Control (herein "DNREC" or "the Department") has been working closely with the Environmental Protection Agency (EPA) to update Delaware's 303(d) listing information in EPA's Assessment and Total Maximum Daily Load Tracking and Implementation System (ATTAINS) database. ATTAINS allows EPA and stakeholders to track the conditions of surface waters on a national scale. As part of that effort, the Department has been working to automate the assessment process, converting the tabular list of impaired waters into an updatable database that can export templates in a format more compatible with ATTAINS. The Department also strives to accurately document Assessment Units (AU) spatially so information can be easily accessed in Geographical Information Systems (GIS) and other mapping tools. This formatting has taken a significant amount of time to develop and is still being modified to enhance accuracy. Once completed, it will allow for easier integration with ATTAINS and Integrated Reports going forward.

For IR2026, there were 25 changes to the ATTAINS database as shown in Appendix C. Changes indicate any change in a parameter status since the previous cycle. Under the Clean Water Act, "listing" a waterbody is an indication that the waterbody is not fully meeting its designated use, thus "impaired", and needs further controls to support the designated use. Once listed, a TMDL or other restoration approach must be developed that will return the waterbody to supporting the designated use. Delisting a waterbody for a pollutant indicates that the pollutant is no longer causing an impairment and previously listed waterbody now supports a designated use and thus "attains the use." For the purposes of the Integrated Report, "segment" and "AUs" are interchangeable, describing a particular waterbody or portion of a waterbody. Assessments are conducted on parameters associated with specific segments/AUs. For example, one segment (which can be an entire waterbody or a section of larger waterbody) may be assessed for four Fish Consumption parameters (dieldrin, dioxin and furan compounds, and PCBs), nitrogen, phosphorous, and bacteria. That segment would thus have seven segment/parameter combinations.

In the past, the Integrated Reports used the single parameter "nutrients" for a combined assessment of nitrogen (N) and phosphorus (P). This parameter was refined in the 2024 cycle and replaced by "nitrogen (N)" and "phosphorus (P)" as independent parameters. Assessments in this cycle are thus based on N and P meeting threshold concentrations (i.e. 3 mg/L and 0.2 mg/L respectively) and will remain that way going forward.

For the Indian River, Indian River Bay, and Rehoboth Bay of the Inland Bays drainage basins, assessments in tidal waters were also based on Dissolved Inorganic Nitrogen (DIN) and Dissolved



Inorganic Phosphorus (DIP) concentrations meeting their seasonal criteria (i.e. 0.14 mg/L and 0.01 mg/L respectively from March-October) in addition to the N and P parameters.

For the first time, freshwater copper data were assessed using Biotic Ligan Model (BLM) in IR2026. Twenty-eight monitoring stations were not meeting freshwater copper criteria, causing 26 AUs associated with those stations to be listed for copper.

Dissolved Oxygen (DO) continues to be assessed using discrete (grab) samples. However, seven segments (DE010-001-01, DE040-002-01, DE120-002, DE140-L01, DE060-001, DE220-001, and DE280-E01) containing continuous monitoring stations maintained by the United States Geological Survey (USGS) were also assessed based on continuous dissolved oxygen criteria (4 mg/L or 3 mg/L for Murderkill River). If this criterion was violated by more than 1% of the continuous DO data, then the AU would be listed.

Overall, there are 1,532 different AU/parameter/use combinations. Of those assessed this cycle, 588 were meeting criteria, 177 were not meeting criteria or were the cause of listing, 16 were delisted, and eight were relisted from the previous cycle. Also, one AU/parameter/use combination was removed due to refinement from nutrient to Nitrogen and Phosphorus. Due to the lack of new data, there were 762 unassessed AU/parameter/use combinations. For those combinations that were not assessed, the previous cycle decisions remain in effect. A summary of changes in AU/parameter combinations is presented in Appendix C.

As in previous cycles, for the 2026 assessments, the Department incorporated the Fish Consumption Advisories that were previously issued by the Delaware Department of Health and Social Services (DHSS) and DNREC on February 20th, 2018. Although updated fish tissue data has been collected for all impaired watersheds within the state between 2019 and 2024, the data is still being analyzed for advisories. Preliminary results of the data assessments have shown that mean concentrations have not increased for contaminants of interest. As a result, the 2018 Fish Consumption Advisories are a conservative representation of current conditions and corresponding meal advice.

The Department has been using a strategy called the Watershed Approach to Toxics Assessment and Restoration (WATAR) to address toxic pollutant issues in Delaware. In March 2018, the Department issued a report entitled "An Evaluation of Clean Water Act Section 303(d) Listings of Delaware Waters Affected by Fish Consumption Advisories" (2018 IR, [Appendix Three](#)). The evaluation considered information gathered from the WATAR and Fish Tissue Advisory programs to perform detailed trend analyses of pollutants in fish tissue that aren't already incorporated into an existing TMDL (e.g. Delaware River PCB TMDL). The trend analyses showed that, in many cases, pollutants are expected to drop below health risk thresholds in a reasonable amount of time if the trajectory of the trend continues. As a result, the report recommended that several segments be placed into a new, Delaware-specific, category of impairment known as monitored natural recovery (mnr). That category is shown in this report as Category 5mnr. As suggested in the category name, expectations are that the aquatic systems are recovering naturally due to the reduction/removal of primary contaminant sources within the watersheds. The Department will continue to monitor fish tissue in those waters but expects the contaminant levels to decrease enough for future evaluations to recommend delisting those contaminants. This type of evaluation will continue as new/updated monitoring data is collected, and new segments/AUs will be placed into Category 5mnr when possible.

The aforementioned report, prepared with data collected up to 2016, also identified four waterbody segments where the trend analyses showed that concentrations of particular pollutants were increasing or were otherwise not expected to reach acceptable levels in the near future (Red Clay

Creek Mainstem, Delaware River, Upper Saint Jones, and Silver Lake (Dover). Consequently, the Department placed Red Clay Creek on its priority list for TMDL development. DNREC has since developed a boundary condition TMDL for dichloro-diphenyl-trichloroethane (DDT), dieldrin, and dioxins/furans in the Red Clay Creek Mainstem. The TMDL is currently being finalized and prepared for public notice/comment before final submittal. In general, listed contaminants in fish tissue data collected from the Saint Jones River and Silver Lake segments since publication of the 2016 IR, have consistently remained stable or have shown reductions, resulting in the assigning of those segments to category 5mnr. The Department has commenced the development of an Advanced Restoration Plan (ARP) to address all toxic impairments related to Fish Consumption in the entire St. Jones River Watershed, including dieldrin, dioxins/furans, Polychlorinated Biphenyls (PCBs), mercury, and DDT.

An ARP can be completed by states in advance of a TMDL if agreed upon by the EPA and so long as contaminant trends continue to show improvement towards attainment. DNREC's ARP framework was modeled after actions already being undertaken by its WATAR program. The documentation allows Delaware to take credit for its program's successes within the 303(d)-reporting structure and within its biannual Integrated Report. Waters with developed ARPs will move from Category 5 to Category 5r, indicating that an ARP has been developed and acknowledged by EPA. For Delaware to adequately document its actions that have resulted in contaminant reduction and to comply with Clean Water Act requirements, the Department has worked with the EPA to create its first ARP for one of its Category 5mnr waters (C&D Canal Watershed).

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***Appendix I: Public Participation***

Public Notice Documentation  
Submitted Comments

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## Abbreviations and Acronyms

**Table 1: Abbreviations and Acronyms used in this Integrated Report**

| Abbreviation/Acronym    | Term                                                                       |
|-------------------------|----------------------------------------------------------------------------|
| ALUS                    | Aquatic Life Use Support                                                   |
| ARP                     | Advance Restoration Plan                                                   |
| ATTAINS                 | Assessment and Total Maximum Daily Load Tracking and Implementation System |
| AU                      | assessment unit                                                            |
| BEACH Act               | Beaches Environmental Assessment and Coastal Health Act                    |
| BI                      | Biological Index                                                           |
| BLM                     | Biotic Ligand Model                                                        |
| C&D Canal               | Chesapeake and Delaware Canal                                              |
| CBP                     | Chesapeake Bay Program                                                     |
| CDF                     | Confined Disposal Facilities                                               |
| CFR                     | Code of Federal Regulations                                                |
| CIB                     | Center for the Inland Bays                                                 |
| CPI                     | Consumer Price Index                                                       |
| CTAC                    | Citizen and Technical Advisory Committee                                   |
| CWA                     | Clean Water Act                                                            |
| DDT                     | Dichloro-Diphenyl-Trichloroethane                                          |
| DelDOT                  | Delaware Department of Transportation                                      |
| DHSS                    | Department of Health and Social Services                                   |
| DO                      | Dissolved Oxygen                                                           |
| DIN                     | Dissolved Inorganic Nitrogen                                               |
| DIP                     | Dissolved Inorganic Phosphorous                                            |
| DNREC or the Department | Delaware Department of Natural Resources and Environmental Control         |
| DRBC                    | Delaware River Basin Commission                                            |
| ELS                     | Environmental Laboratory Section                                           |
| EPA                     | U.S. Environmental Protection Agency                                       |
| ERES                    | Waters of Exceptional Recreational or Ecological Significance              |
| FDA                     | U.S. Food and Drug Administration                                          |
| GAM                     | Generalized Additive Model                                                 |
| GAMN                    | General Assessment Monitoring Network                                      |
| GDP                     | Gross Domestic Product                                                     |
| GIS                     | Geographic Information Systems                                             |
| HI                      | Habitat Index                                                              |
| IBI                     | Index of Biotic Integrity                                                  |

| Abbreviation/Acronym | Term                                                                                                                                                           |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Integrated Report    | The State of Delaware 2026 Combined Watershed Assessment Report (305(b)) and Determination for the Clean Water Act Section 303(d) List of Waters Needing TMDLs |
| IR2026               | 2026 Integrated Report                                                                                                                                         |
| ISSC                 | Interstate Shellfish Sanitation Conference                                                                                                                     |
| LCL                  | Lower Confidence Limit                                                                                                                                         |
| mg/L                 | milligrams per liter                                                                                                                                           |
| µg/L                 | micrograms per liter                                                                                                                                           |
| mnr                  | Monitored Natural Recovery                                                                                                                                     |
| MS4                  | Municipal Separate Storm Sewer System                                                                                                                          |
| N                    | Nitrogen                                                                                                                                                       |
| NOAA                 | National Oceanic and Atmospheric Administration                                                                                                                |
| NPS                  | Nonpoint Source                                                                                                                                                |
| NSSP                 | National Shellfish Sanitation Program                                                                                                                          |
| P                    | Phosphorous                                                                                                                                                    |
| PCB                  | Polychlorinated Biphenyls                                                                                                                                      |
| ppt                  | parts per thousand                                                                                                                                             |
| SDA                  | Station Daily Average                                                                                                                                          |
| SOP                  | Standard Operating Procedure                                                                                                                                   |
| STORET               | STORage and RETrieval Data Warehouse                                                                                                                           |
| SWAPP                | Source Water Assessment and Protection Program                                                                                                                 |
| TKN                  | Total Kjeldahl Nitrogen                                                                                                                                        |
| TN                   | Total Nitrogen                                                                                                                                                 |
| TMDL                 | Total Maximum Daily Load                                                                                                                                       |
| TP                   | Total Phosphorous                                                                                                                                              |
| TSS                  | Total Suspended Solids                                                                                                                                         |
| UCL                  | Upper Confidence Limit                                                                                                                                         |
| URL                  | Uniform Resource Locator                                                                                                                                       |
| U.S.                 | United States                                                                                                                                                  |
| USACE                | U.S. Army Corps of Engineers                                                                                                                                   |
| WATAR                | Watershed Approach to Toxics Assessment and Restoration                                                                                                        |
| WQP                  | Water Quality Portal                                                                                                                                           |
| WQS                  | Water Quality Standards                                                                                                                                        |
| WQX                  | Water Quality Exchange                                                                                                                                         |
| WRC                  | University of Delaware Water Resources Center                                                                                                                  |

## 1. Introduction

The State of Delaware's 2026 Combined Watershed Assessment Report (305(b)) and Determination for the Clean Water Act Section 303(d) List of Waters needing a Total Maximum Daily Load (TMDL) (herein "the Integrated Report" or "IR2026") provides a statewide assessment of water resources, highlights Delaware's initiatives in water resources management, pollution control efforts and provides a list of waters that need a TMDL or other restoration approaches to meet water quality standards. The document fulfills the reporting requirements set forth under Sections 305(b) and 303(d) of the Federal Clean Water Act of 1977, as amended in 1981 and 1987 (33. U.S.C §§ 1251 *et seq.*). This Integrated Report summarizes statewide water quality assessments and includes tables to show the results of water quality analyses. The provided tables (Appendices B – E) show the designated use support findings for data from the period of January 1, 2020, through December 31, 2024, as well as the resulting Section 303(d) List of Waters Needing TMDLs.

To streamline the 2026 Integrated Report, many departmental programs and other resources not specifically required in the report are briefly described with URLs provided for further information.



## 2. Background

### 2.1 Total Waters

**Table 2: Total waters of Delaware**

|                                                         |                    |
|---------------------------------------------------------|--------------------|
| State Population <sup>1</sup>                           | 1,051,917          |
| State Surface Area                                      | 1,981 square miles |
| Number of Basins                                        | 5                  |
| Number of Watersheds                                    | 45                 |
| Perennial River Miles (NHD Code 46006) <sup>2</sup>     | 2,363              |
| Intermittent Stream Miles (NHD Code 46003) <sup>2</sup> | 1,093              |
| Ditches and Canals Miles (NHD Code 33600) <sup>2</sup>  | 1,014              |
| Number of Border Miles                                  | 87                 |
| Perennial Lake/Pond Acres <sup>2</sup>                  | 11,440             |
| Square Miles of Estuarine Waters <sup>3</sup>           | 783                |
| Number of Ocean Coastal Miles                           | 25                 |
| Acres of Nontidal Wetlands                              | 166,597            |
| Acres of Tidal Wetlands                                 | 129,754            |

<sup>1</sup> Population values from <https://www.census.gov/data/tables/time-series/demo/popest/2020s-counties-total.html>

<sup>2</sup> Values based on National Hydrography Dataset (NHD) Data for Delaware Waters.

<sup>3</sup> DRBC. 2020 Delaware River and Bay Water Quality Assessment. Delaware River Basin Commission. West Trenton, NJ. December 2020.

## 2.2 Water Pollution Control Programs

The Delaware Department of Natural Resources and Environmental Control (DNREC) has several programs related to water pollution control.

### **The Water Quality Standards (WQS) Program**

This program works with stakeholders and co-regulators to set the Designated Uses and Criteria for Delaware's waters to protect them as required under the Clean Water Act (CWA), Environmental Protection Agency (EPA) regulations and Delaware Code. The WQS Program updates DNREC's Surface Water Quality Standards (7 DE Admin. Code 7401) through the Triennial Review process (most recently completed on January 1, 2023), and completes the Integrated Report to meet its CWA Section 305(b) and 303(d) requirements every even number year.

### **State of Delaware Total Maximum Daily Load (TMDL) Program**

Section 303(d) of the Federal Clean Water Act (CWA) requires States to develop a list of water bodies for which existing pollution control activities are not sufficient to attain applicable water quality standards (303(d) List) and to develop Total Maximum Daily Loads (TMDLs) for pollutants of concern. A TMDL sets a limit on the amount of a pollutant that can be discharged into a waterbody such that water quality standards are met. The State of Delaware TMDL Program in association with the Watershed Approach to Toxics Assessment and Restoration (WATAR) Program develops TMDLs or other restoration approaches for those waters that don't meet their designated uses due to pollutants and are thus part of the 303(d) list of impaired waters. The TMDL program has completed TMDLs for most of the watersheds in the state for excessive nutrients and bacteria and continues to work with the WATAR program to develop new TMDLs and ARPs.

In March 2018, the Department issued a report entitled "An Evaluation of Clean Water Act Section 303(d) Listings of Delaware Waters Affected by Fish Consumption Advisories" (2018 IR, [Appendix Three](#)), which highlighted the tendency of some pollutants to drop below health risk level in a reasonable amount of time. This finding led to the creation of a Delaware-specific IR category – Category 5mnr (monitored natural recovery). This report also identified four AUs where the trend analyses showed that concentrations of pollutants are increasing or are otherwise not expected to reach acceptable levels in the near future (Red Clay Creek Mainstem, Upper Saint Jones, Silver Lake and Lower Saint Jones). Consequently, the Department has developed TMDL for DDT, dieldrin, and dioxins/furans in the Red Clay Creek, and is now finalizing the document for public comment. Also, the Department began developing an ARP for all listed toxics in the St Jones Watershed.

Additionally, the Department is updating nutrient TMDL for the Buntings Branch watershed. In 2014, Maryland Department of the Environment (MDE) revised its TMDLs for nitrogen and phosphorus for Bishopville Prong along four other tidal tributaries in Northern Coastal Bays system, Worcester County, Maryland, requesting a reduction in the upstream nutrient load from Buntings Branch. DNREC accepted EPA's recommendation to update its 2004 TMDL after confirming that implementing MDE's reductions would be sufficient to meet Delaware's applicable water quality standards and nutrient target values in Buntings Branch. As a result, DNREC is developing a new nutrient TMDL for Buntings Branch, which will meet Delaware's applicable Water Quality Standards and MDE's upstream load allocation.

### **The DNREC Division of Watershed Stewardship's Drainage Programs**

This program manages and implements regulatory and non-regulatory programs to improve drainage, stormwater, water quality and dam safety. The program partners with several

organizations including landowners, Tax Ditch Organizations, Federal, State and Local agencies to improve drainage and water quality across the state.

**DNREC Division of Watershed Stewardship's Nonpoint Source (NPS) Program**

The NPS program addresses nonpoint source pollution through educational programs, publications and partnerships with other Delaware organizations. The Delaware NPS Program also administers a competitive grant made possible through Section 319 of the Clean Water Act, providing funding for projects designed to reduce nonpoint source pollution.

**DNREC Division of Water's Wastewater, Stormwater (i.e. National Pollutant Discharge Elimination Systems permits), and Biosolids Management Programs**

These programs are housed within the Division of Water's Commercial and Government Services Section (CGS). The CGS Section regulates the construction/operation of wastewater treatment facilities, industrial stormwater facilities, and Municipal Separate Storm Sewer Systems (MS4). They work with individuals, municipalities and industries to ensure that wastewater, stormwater, and biosolids are managed appropriately and that residual wastes are beneficially reused.

**DNREC Division of Water's Residential Services Section (RSS)**

RSS is responsible for drinking water wells, septic systems and other residential activities that impact groundwater resources. The RSS Programs include the Wastewater Disposal Program, The Water Supply Program, Innovative/Alternative Systems and Private Water Wells.

**DNREC Division of Water's Resource Protection Section (RPS)**

RPS evaluates and protects the water resources of Delaware through technical assistance, field monitoring and sampling services, and regulatory implementation. The RPS Programs include the Professional Licensing Program, the Planning and Legal Group, the Resource Evaluation and Protection Program, The Compliance and Enforcement Program, and Grants Funding Resources.

More information about the programs discussed above can be found on DNREC's website using individual program's URL as listed in table 3.

**Table 3: DNREC water pollution control programs and web addresses**

| Program                                                  | Web Address                                                                                                                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Quality Standards                                  | <a href="https://dnrec.delaware.gov/watershed-stewardship/assessment/standards/">https://dnrec.delaware.gov/watershed-stewardship/assessment/standards/</a>                     |
| 305(b) Reports and 303(d) Lists                          | <a href="https://dnrec.delaware.gov/watershed-stewardship/assessment/reports/">https://dnrec.delaware.gov/watershed-stewardship/assessment/reports/</a>                         |
| Total Maximum Daily Loads                                | <a href="https://dnrec.delaware.gov/watershed-stewardship/assessment/tmdls/">https://dnrec.delaware.gov/watershed-stewardship/assessment/tmdls/</a>                             |
| Watershed Approach to Assessment and Restoration (WATAR) | <a href="https://dnrec.delaware.gov/waste-hazardous/remediation/watar/">https://dnrec.delaware.gov/waste-hazardous/remediation/watar/</a>                                       |
| Drainage Programs                                        | <a href="https://dnrec.delaware.gov/watershed-stewardship/drainage/">https://dnrec.delaware.gov/watershed-stewardship/drainage/</a>                                             |
| Nonpoint Source Program                                  | <a href="https://dnrec.delaware.gov/watershed-stewardship/nps/">https://dnrec.delaware.gov/watershed-stewardship/nps/</a>                                                       |
| Wastewater Treatment Facilities                          | <a href="https://dnrec.delaware.gov/water/commercial-government/wastewater-facilities/">https://dnrec.delaware.gov/water/commercial-government/wastewater-facilities/</a>       |
| Spray Irrigation Systems                                 | <a href="https://dnrec.delaware.gov/water/commercial-government/spray-irrigation-systems/">https://dnrec.delaware.gov/water/commercial-government/spray-irrigation-systems/</a> |
| Land Treatment of Waste                                  | <a href="https://dnrec.delaware.gov/water/commercial-government/land-treatment/">https://dnrec.delaware.gov/water/commercial-government/land-treatment/</a>                     |
| Underground Injection Systems                            | <a href="https://dnrec.delaware.gov/water/commercial-government/uic/">https://dnrec.delaware.gov/water/commercial-government/uic/</a>                                           |
| Municipal Separate Storm Sewer Systems (MS4s) Permits    | <a href="https://dnrec.delaware.gov/water/surface-water/npdes/municipal-storm-sewers/">https://dnrec.delaware.gov/water/surface-water/npdes/municipal-storm-sewers/</a>         |
| Residential Services Section                             | <a href="https://dnrec.delaware.gov/water/residential/">https://dnrec.delaware.gov/water/residential/</a>                                                                       |
| Resource Protection Section                              | <a href="https://dnrec.delaware.gov/water/resource-protection/">https://dnrec.delaware.gov/water/resource-protection/</a>                                                       |
| National Pollutant Discharge Elimination System (NPDES)  | <a href="https://dnrec.delaware.gov/water/commercial-government/npdes/">https://dnrec.delaware.gov/water/commercial-government/npdes/</a>                                       |

### Inter-agency and Inter-State partnerships

DNREC works closely with several external partners to address water quality issues that cross jurisdictional boundaries. For example, the Department works with the Delaware Department of Health and Social Services (DHSS) Division of Public Health to evaluate data for toxins in fish and then coordinate Fish Consumption advisories statewide. The Department works with the Nutrient Management Commission to manage and/or reduce nonpoint sources of nutrient inputs to Delaware's waters. DNREC also works closely with the Delaware Department of Transportation (DelDOT) to implement NPDES-related PCB TMDL requirements and to develop and implement MS4 permits in Kent County, New Castle County, and Sussex County.

The Department is an active member of the Delaware River Basin Commission that works in the Delaware River and Delaware Bay to regulate both flow and water quality. Delaware is also working closely with partners and stakeholders from six states and Washington DC to implement the Chesapeake Bay TMDL through Watershed Implementation Plans that will help restore the Chesapeake Bay's water quality.

## 2.3 Cost/Benefit Assessment

The objective of the CWA is “to restore and maintain the chemical, physical, and biological integrity of the Nation’s water’s” (33 U.S.C. §1251). Under Section §305(b) of the CWA, states are required to estimate the environmental, economic and social costs and benefits of activities needed to achieve the CWA objective. The DNREC is developing a robust cost/benefit estimate as required. The previous estimate used was compiled with the help of the University of Delaware Water Resources Agency (UD WRA, 2016). While the 2016 estimate was comprehensive, the lifespan of those estimates are dated. DNREC recognizes that quantifying the costs/benefits of the environmental, economic, and social costs needed to achieve the CWA objective are complex. Due to this complexity the following estimates are provided for the 2026 IR.

The State of Delaware expends a significant amount of financial and human resources towards a goal of ensuring that Delaware waters are drinkable, fishable, and swimmable. Despite being a small state, Delaware has extensive water resources including over 380 miles of coastline along the Atlantic Ocean and the Delaware River Estuary, 2,363 miles of perennial rivers and 1,093 miles of intermittent streams. These waters provide drinking water, recreational benefits, and environmental protection for Delawareans. They also provide substantial regional economic benefits.

According to the latest Marine Economy Report by the National Oceanic and Atmospheric Administration (NOAA), Delaware’s marine economy generates approximately \$1 billion in wages and contributes \$1.9 billion to the State’s Gross Domestic Product (GDP) – a 93% increase in a decade (NOAA, 2024). Researchers at the University of Delaware’s Water Resources Agency (WRA) have estimated that Delaware’s water resources contribute approximately \$7 billion to the regional economy, including about 70,000 jobs and over \$2 billion in wages (Narvaez and Kauffman, 2012).

Sustaining such an economic engine comes at a significant cost. As outlined within Section 2.2 of the 2026 IR, DNREC runs multiple programs, across multiple divisions, to monitor, assess, manage, regulate, and enforce water quality improvement throughout the State. These various programs cost the State of Delaware an approximate cost of \$9.3 million. These costs are a fraction of the actual cost of improving water quality in the State. A more accurate representation of fact would include other forms of benefits and costs that could be difficult to quantify in dollar terms.

## 2.4 Special State Concerns and Recommendations

### TMDLs and ARPs

DNREC has worked to manage water quality issues in and out Delaware's borders. Work performed includes TMDL development and implementation. This work involved partnership with stakeholders, including other state and federal agencies as well as non-governmental organizations. Toxics TMDLs for zinc have been implemented successfully in the Christina Basin, bringing zinc levels into compliance with applicable water quality standards. The Department also worked with internal and external partners to reduce the bioavailability of PCBs in Mirror Lake, leading to major reductions in PCBs within fish tissue evident in less than a year. Continued TMDL implementation is still needed to ensure lasting gains as well as achieve and maintain applicable standards in all Waters of the State.

The Department has been addressing the remaining waterbodies needing TMDLs or alternatives for toxic pollutants. The WATAR Program, described in Section 2.2 above, is involved in tracking pollution sources and using appropriate and cost-effective approaches to remediate. Based on DNREC's TMDL prioritization list, DNREC developed a TMDL to address DDT, dieldrin and dioxins/furans contamination in the Red Clay Creek this cycle. The Department also updated Buntings Branch nutrient TMDL to meet both Delaware nutrient target and Maryland's upstream nutrient target for Bishopville Prong. Both TMDLs are currently being prepared for public comment before being sent to EPA for approval.

The Department has also commenced the development of an ARP to address all toxic impairments related to Fish Consumption in the entire St. Jones River Watershed, including dieldrin, dioxins/furans, PCBs, mercury, and DDT, leveraging experience from the C&D Canal ARP development. The Department believes working to expand the successes and lessons learned from the WATAR program will be important to reduce impacts of pollution statewide.

### Climate Change

Due to its low-lying topography and coastal geography, Delaware is highly vulnerable to the impacts of climate change and as such, climate change remains an important issue long term in Delaware. Climate change impacts several aspects of Delaware including water quality, with increasing risk of saltwater intrusion to drinking water aquifer and rivers, more frequent and intense flooding that increases contamination of waterbodies, sea-level rise and heavier rain falls overwhelming storm drains and increasing contamination potential. The Department is leading Delaware's effort to reduce Greenhouse gas emission and increase the States's resilience. According to Delaware's Greenhouse Gas Inventory, Delaware has reduced Greenhouse Gas Emission by 30% with a 50% reduction goal by 2030 and achieving net zero status in 2050. The Department leads the State's Climate Actions and has several programs that help reduce Greenhouse emissions in general, with some being directly targeted towards water quality improvement. In 2021, Delaware started the Tree for Every Delawarean Initiative (TEDI) with a goal of planting one million trees in the state by 2030. TEDI provides funding and technical support for tree planting statewide, through an annual competitive grant process. According to the TEDI tracker, over 360,000 trees have been planted across the State. Trees help reduce runoffs, prevent erosion, filter pollutants, improve groundwater recharge, and moderate water temperature.

Delaware's climate efforts are based on the Delaware's Climate Action plan – the State's

blueprint for actionable strategies and goals to reduce greenhouse gas emissions, renewable energy production and protection of natural resources (including water resources), communities, and people from the impacts of climate change. The Department published the [2025 Delaware Climate Action Plan](#) in December 2025. This is an update to the 2021 plan, setting the direction for climate change solutions for the next couple of years.

### **Environmental Justice**

DNREC acknowledges the disproportionate impacts of environmental hazards on minority and low-income communities throughout the state. The Department has integrated environmental justice efforts into all its programs including permitting, contaminant cleanup, clean water and septic initiatives, and environmental monitoring in an effort to ensure that everyone has an equal seat at the table when decisions are now being made.

To further ensure wider dissemination of information and engage more Delaware residents, the Department is now translating public notices and other public engagement resources to multiple languages based on target audience. Beginning in the 2024 IR Cycle, the Department began translating all CWA related public notices to Spanish and Haitian Creole, with a goal of increasing awareness and understanding of Delaware's water quality status.



## 3. Monitoring Program

### 3.1 Surface Water Monitoring Program

The purpose of Delaware's Surface Water Quality Monitoring Program is to collect data on the chemical, physical and biological characteristics of Delaware's surface waters. The information that is collected under this program is used to:

- Describe general surface water quality conditions in the state.
- Identify long term trends in surface water quality.
- Determine the suitability of Delaware surface waters for Water Supply, Recreation, Fish and Aquatic Life, and other uses.
- Monitor achievement of Surface Water Quality Standards.
- Identify and prioritize high quality and degraded surface waters.
- Calculate annual nutrient loads and track progress toward achieving TMDL targets.
- Evaluate the overall success of Delaware's water quality management efforts.
- Inform decisions by other stakeholders and programs.

Delaware maintains a General Assessment Monitoring Network (GAMN) that currently has 134 stations. Twenty-one of the stations are monitored monthly and the remaining stations are monitored either six or twelve times per year on a rotating cycle. Each station is monitored for conventional parameters such as nutrients, bacteria, dissolved oxygen, pH, alkalinity, and hardness. Some stations are also monitored for dissolved metals. DNREC's Environmental Laboratory Section (ELS) collects and analyzes these samples in accordance to the Delaware Ambient Surface Water Quality Monitoring Program's Quality Assurance Program Plan (QAPrP)

(<https://documents.dnrec.delaware.gov/Watershed/Assessment/Monitoring/2024-Quality-Assurance-Program-Plan.pdf>) and their Quality Manual and associated Standard Operating Procedures (SOPs). During this cycle, the Department updated its QAPrP and it has been approved by the EPA. The data from this monitoring is uploaded into EPA's Water Quality Exchange (WQX) by ELS and publicly accessible through the National Water Quality Monitoring Council's Water Quality Portal (WQP) (<https://www.waterqualitydata.us/>) and used for this report and other efforts by interested parties.

More information about Delaware's Water Quality Monitoring Program is available online (<https://dnrec.delaware.gov/watershed-stewardship/assessment/water-quality-monitoring/>). In addition to uploading data to the WQX and publishing through the WQP, the Department also works in cooperation with the University of Delaware to share available water quality data in a more user-friendly format at the Delaware Water Quality Portal (<https://cema.udel.edu/applications/waterquality/>).



## 3.2 Ambient Groundwater Monitoring

DNREC's Division of Water monitors ambient groundwater quality around the state to help support the goals of the Department. The data collected through these efforts are used to address several objectives including:

- Monitoring long-term water-level trends in a statewide monitoring network and at allocated facilities.
- Establishing baseline water quality in watersheds throughout the state.
- Monitoring groundwater quality of permitted facilities.
- Making recommendations to the Department management for future policy considerations.

More details about groundwater monitoring can be found on the Division of Water's website (<https://dnrec.delaware.gov/water/resource-protection/water-quality-monitoring/>).

## 3.3 Public Health Issues

Previous EPA IR memos recommend that States should provide information on public health issues, especially as it relates to drinking water supply, beach use, and fish/shellfish advisories. The Department addresses public health issues through various programs related to drinking water supplies, beach use and fish/shellfish advisories.

### 3.3.1 Delaware Source Water Protection Program

The Source Water Assessment and Protection Program (SWAPP) was created by Congress as part of the Safe Drinking Water Act Amendments of 1996. The goal of the SWAPP is to better protect public drinking water resources by providing local and state governments, and the public with more information about those resources. The susceptibility of each source of public drinking water to various types of contamination will be determined and published. Congress has provided funding through the U.S. EPA to the states to support their efforts in conducting these assessments.

DNREC has the lead role in the development and implementation of the Delaware's SWAPP. DHSS Division of Public Health and the University of Delaware's Water Resources Agency, Institute for Public Administration, closely support its work. A SWAPP Citizen and Technical Advisory Committee (CTAC) was formed at the start of this program in 1998 and continues to assist in developing and implementing Delaware's SWAPP and ensures public involvement.

**Table 4: Programs and agencies supporting Delaware SWAPP**

| Program                                                                            | Web Address                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Delaware Source Water Protection Program                                           | <a href="http://delawaresourcewater.org/">http://delawaresourcewater.org/</a>                                                                                                                                       |
| Delaware Department of Natural Resources and Environmental Control                 | <a href="https://dnrec.delaware.gov/water/commercial-government/water-allocation/assessment-and-protection/">https://dnrec.delaware.gov/water/commercial-government/water-allocation/assessment-and-protection/</a> |
| Delaware Department of Health and Human Services Office of Drinking Water          | <a href="http://dhss.delaware.gov/dhss/dph/hsp/odw.html">http://dhss.delaware.gov/dhss/dph/hsp/odw.html</a>                                                                                                         |
| University of Delaware Water Resources Agency, Institute for Public Administration | <a href="http://www.wrc.udel.edu/">http://www.wrc.udel.edu/</a>                                                                                                                                                     |

### 3.3.2 Delaware's Recreational Beach Monitoring Program

DNREC's Recreational Water Program protects the health of swimmers in a number of ways:

- In the event of persistent water quality exceedances, shoreline surveys are conducted adjacent to recreational beaches to identify actual and potential sources of pollution.
- Water samples are collected at least weekly at all guarded beaches and some unguarded beaches during the swimming season (mid-May through mid-September).
- Water samples are analyzed to determine the levels of enterococci bacteria in recreational waters. Enterococcus is one of several indicator organisms that signal the presence of potentially harmful bacteria and viruses.
- Signs have been posted at popular public access points around Rehoboth Bay, Indian River Bay, Little Assawoman Bay, and Delaware Bay to educate potential swimmers of the risks associated with swimming in poor quality waters.
- The Program exhibits at health fairs and other public outreach events to display educational material and provide informational handouts to educate the public on the risk of illness from recreational water contact and to equip individuals to make informed decisions on recreational water activities, especially for those in the at-risk population for related illnesses, by explaining the risk and the steps that can be taken to reduce the risk, as well as to encourage the public to prevent fecal pollution of beaches and waterways.

Up to date information about swimming advisories, as well as educational information, is available online at <https://recwaters.dnrec.delaware.gov/>.

### 3.3.3 Fish Consumption Advisories

Fishing is an important activity in Delaware's inland and coastal waters. Among the benefits provided by fishing are quality recreational opportunities, direct and indirect input to the local economy, food for recreational anglers and food for the commercial marketplace. Fish are a good source of readily digestible protein, they are low in fat and sodium, and the unique type of fats found in fish are believed to provide cardiovascular benefits. Despite the general benefits of fishing and fish consumption, there is concern regarding the presence of chemical toxins in the flesh of finfish and shellfish taken from Delaware waters and the associated health risk to anglers and their families who consume their catch. The existence of chemicals in the edible portion of some fish has resulted in public advisories. These advisories are a result of joint action taken by the DNREC and the DHSS Division of Public Health.

Information about the latest advisories that are in effect is online at:

<https://dnrec.delaware.gov/fish-wildlife/fishing/consumption-advisories/>.

## 3.4 Wetlands Monitoring and Assessment Program

The goal of DNREC's Wetland Monitoring and Assessment Program (WMAP) is to track wetland acreage and assess the condition, or health, of wetlands and the functions and ecosystem benefits that wetlands provide. This information is used to inform the citizens of Delaware and to improve existing education, restoration, protection, and land use planning efforts. The Delaware Wetland

Management Plan guides the WMAP in the areas of protocol development, wetland monitoring and assessment activities, research, and application of information. Information is available at [https://www.epa.gov/sites/default/files/2021-05/documents/de\\_wetland\\_program\\_plan\\_2021-2025.pdf](https://www.epa.gov/sites/default/files/2021-05/documents/de_wetland_program_plan_2021-2025.pdf).

The WMAP works closely with other states through the EPA's Mid-Atlantic Wetlands Program to establish and conduct research methods and share information. Primary objectives include:

- Increase the acreage and function of wetlands statewide.
- Research how wetlands are being impacted by and how to prepare for rising water levels and increased storm events.
- Assess the current condition of wetlands by watershed and identify major stressors that are impacting wetlands.
- Perform research to improve our understanding of wetland functions, the impact of stressors, and the ecosystem services provided by wetlands to humans and the environment.
- Evaluate the performance of wetland restoration and other compensatory wetland mitigation in replacing wetland acreage and function.
- Educate other state agencies, partners, and the general public to improve efforts to protect and restore wetlands.
- Integrate monitoring and assessment data into watershed restoration plans and other conservation strategies.
- Meet requirements of the Clean Water Act.

**Projects below highlight the WMAP's productivity within the state and nation:**

- Developed Delaware's nationally recognized Monitoring and Assessment Protocols.
- Developed a collaborative Delaware Wetland Management Plan.
- Completed wetland health condition reports for all watersheds in Delaware from 1999-2021.
- Coordinates the update of statewide wetland maps and Status and Trends report every decade.
- Collaboratively developed restoration plans for the Nanticoke Watershed (2008) and the Inland Bays Watershed (2020).
- Hosts Delaware Wetlands Conference biennially for professionals and scientists throughout the Mid-Atlantic region.

Links to more information about Delaware's wetlands including Wetland Health Reports, the Delaware Wetland Management Plan, a review of Delaware's Wetland program and many other resources are online at: <https://dnrec.delaware.gov/watershed-stewardship/wetlands/>.

## 4. Assessment Methodologies and Results

### 4.1 Data and Guidance for Assessment

#### 4.1.1 Data Considered

Readily available data and information for the period of January 1, 2020, through December 31, 2024, were considered for the assessment of most designated uses. Data collected representing samples from lakes, rivers, streams, and estuaries were assessed using the same methods. Given that adequate water quality data may not be available in all cases, determinations of use attainment are made with an abundance of caution. Furthermore, a public request for data was made in advance of the assessment process. Data were used for assessment and listing purposes if they were sent to the Department by September 8, 2025, met the Tier-I data status of the Department's external data policy (<https://documents.dnrec.delaware.gov/Watershed/Assessment/External-Data-Policy.pdf>) and met the assessment methodology requirements described herein. The request was made via email to specific organizations, posted on the Department's website, and advertised in the News Journal.

#### 4.1.2 Data Quality and Quantity

The Department utilized a variety of internal and external sources for updating assessments. For data to be considered, quality assurance and control methods must be used for collection and analyses of samples. Data from DNREC's Environmental Laboratory Section (ELS) are considered usable since samples are collected and analyzed in accordance with the DNREC ELS Quality Manual and associated SOPs.

#### 4.1.3 Data Sources

##### 4.1.3.1 Internal Data Sources

The Department routinely collects water quality samples within GAMN stations throughout the state. DNREC's GAMN stations' data are collected and analyzed by the Department, but the data are hosted by the EPA and the USGS via the National Water Quality Portal (<https://www.waterqualitydata.us>). The analyzed parameters are joined with their respective Assessment Unit (AU) IDs, major basins, and watersheds. All analyses are performed to determine the assessment status in terms of the station location and associated with the appropriate AUs. These routine water quality samples provide the data for use in the 305(b) assessments. The Department considers data from the most recent five-year period, thus, at each station, there are usually data from 30 sampling dates or more. The Department considers small datasets on a case- by-case basis when evaluating water quality conditions.

##### 4.1.3.2 External Data Sources

External data sources include any data sources not outlined within the State of Delaware Ambient Surface Water Quality Monitoring Plan.

For the 2026 assessment, the Department considered any information received before September 8, 2025. External data was considered per the DNREC external data policy which is available at <https://documents.dnrec.delaware.gov/Watershed/Assessment/External-Data-Policy.pdf>. DNREC provides case-specific technical and science-based rationale for using or not using external data received for assessment purposes.

The DRBC prepares 305(b) assessment reports every two years for the Delaware River and

Delaware Bay. When provided, Delaware incorporates the most recent attainment determinations made by the DRBC for the shared waters of the Delaware River and Delaware Bay into its Integrated Report. Delaware continues to work cooperatively with the DRBC, member states and stakeholders to develop and implement TMDLs in waters of the Delaware River and Delaware Bay that are determined to be impaired.

The Chesapeake Bay Program (CBP) completes assessments for waters within the Chesapeake Bay watershed in cooperation with New York, Pennsylvania, Maryland, Virginia, West Virginia, Washington, D.C. and Delaware. Water quality criteria that are assessed by the CBP are dissolved oxygen, chlorophyll-a, and shallow water bay grasses/water clarity. The Upper Nanticoke River segment (NATF) specifically pertains to Delaware's waters. Details regarding those assessment results can be found in the Chesapeake Bay Water Quality Standards Attainment Indicator Application ([https://wqs.chesapeakebay.net/wqs\\_attainment\\_indicator/](https://wqs.chesapeakebay.net/wqs_attainment_indicator/)) as well as in the Water Quality Standards Attainment and Monitoring page for Chesapeake Progress (<https://www.chesapeakeprogress.com/clean-water/water-quality>).

#### **4.1.4 Use of EPA's Integrated Assessment Guidance when assessing monitoring data**

U.S. EPA has guidance for preparation of Integrated Reports at the following URL: <https://www.epa.gov/tmdl/integrated-reporting-guidance>. Delaware utilizes this guidance in its assessment process. The core recommendation of the guidance is to categorize all waters of the state according to the following five categories:

- Category 1: All designated uses are met.
- Category 2: Some of the designated uses are met but there is insufficient data to determine if remaining designated uses are met.
- Category 3: Insufficient data to determine whether any designated uses are met.
- Category 4: Water is impaired or threatened but a TMDL is not needed.
  - 4A: All TMDLs for this AU have been completed and EPA approved. Class 4A waters have all necessary TMDLs approved, but one or more impairments exist, despite the approved TMDLs.
  - 4B: Other required control measures are expected to result in the attainment of surface water quality standards in a reasonable period of time.
  - 4C: The impairment or threat is not caused by a pollutant.
- Category 5: Water is impaired or threatened and a TMDL is needed for at least one pollutant or stressor.
  - Category 5mnr: Delaware-specific category showing water is impaired, but contaminant trends support monitored natural recovery (mnr) for short term attainment of water quality goals.
  - Category 5R: Water is impaired, and an Advance Restoration Plan has been developed and acknowledged by EPA.

The Department created the sub-Category 5mnr based on recommendations in a March 2018 report titled "An Evaluation of Clean Water Act Section 303(d) listings of Delaware Waters Affected by Fish Consumption Advisories". That evaluation recommended that a subcategory of impaired waters be created for those segments where fish tissue contaminants were expected to reach target levels within approximately five to ten years without implementing a TMDL. As implied by the name, the Department plans to continue monitoring fish tissue in those waterbodies in accordance with Watershed Approach to Toxic

Assessment and Restoration (WATAR)/Fish Consumption Advisory program protocols until such time that the contaminants in the fish are no longer a concern. When the data supports removing the Fish Consumption advisories, the Department will consider that information for delisting decisions. The Department also pursues remediation and other regulatory efforts in affected watersheds in accordance with the WATAR program, as discussed in other sections of this report and online at <https://dnrec.delaware.gov/waste-hazardous/remediation/watar/>. Waters in Category 5mnr remain in EPA Category 5 and as such will require a TMDL at a future date if expected decreases do not actually occur. If trends continue to decrease, then an Advance Restoration Plan (ARP) will be developed, and the water will be moved to Category 5R.

The Department has worked with the EPA to transition Delaware's 305(b) assessment and 303(d) listing information into EPA's Assessment, TMDL Tracking and Implementation System (ATTAINS) database. This database allows EPA and stakeholders to track the conditions of the Nation's surface waters. As part of that effort, the Department has converted the tabular list of impaired waters into a format more compatible with the ATTAINS database and geographical information systems (GIS). The Department has now fully transitioned to ATTAINS but is continuing to update spatial and assessment data to more accurately represent Delaware's waters and conditions.

The Department assesses data for a varying suite of parameters based upon available data for each AU. Data is primarily collected at each of the identified monitoring stations throughout the state. Based on the assessment results, each AU/parameter combination is assigned the appropriate EPA category, as identified above. This gives the Department more information about specific parameters of concern and allows more detailed tracking of those concerns over time. Each of Delaware's monitored waterbody AUs are assigned to the appropriate category for each designated use and then get assigned a final categorization for the AU. If there are multiple stations within an AU and one or more show impairment, then the entire AU is considered impaired.

## 4.2 Assessment Methodology

Herein, the word "average" regarding any parameters means a daily average (if there are multiple samples per day). Otherwise, a discrete value is considered the "average" for that day.

It is important to distinguish between marine and freshwater. For the purpose of this methodology, and per Delaware's Surface Water Quality Standards, salinity less than 5 ppt is considered freshwater and salinity 5 ppt or above is considered to be marine water. Application of fresh or marine criteria in stations with fluctuating salinity conditions will be performed based on the current five-year salinity data. Stations' salinity data at the date/time of collection will be used when applying fresh vs marine water criteria, especially when applying for single sample.

While individual parameters within an AU can be meeting criteria/thresholds, for a designated use to be considered "fully supporting" all assessments for all stations' associated parameters that fall in the AU must meet their criteria/threshold. If any parameters at any of the stations fail, then the AU would fail and is considered "not fully supporting" for that designated use. For an AU to be "fully supporting," all parameters assessed for all identified designated uses must be meeting criteria/thresholds.



#### 4.2.1 Dissolved Oxygen Aquatic Life Use Support and Assessments of DO Criteria Attainment

The following types of Dissolved Oxygen (DO) data were available and used for analysis:

- Field measurements taken by personnel using handheld DO probes; and
- Continuous monitoring data collected using multiparameter monitoring systems that are typically deployed for several days, weeks, or months. In order to get a more accurate picture of dissolved oxygen dynamics and other water quality parameters, the Department continues to increase its use of continuous monitoring systems.

For purposes of DO compliance in an assessment unit, where there is no continuous monitoring data, the field measurements for that day (as available) are representative of the daily average. The methodology used to determine if DO Aquatic Life Use Support (ALUS) is meeting criteria consists of comparing measured DO concentrations, represented as the minimum DO concentration and the daily average DO concentration, to two different standards. DO concentrations are considered to meet ALUS if the 10th percentile of available daily average data is above the applicable criteria of 5.0 mg/L for marine waters and 5.5 mg/L for fresh waters. The statewide minimum DO criterion for surface waters is 4.0 mg/L (at any time).

Daily average dissolved oxygen criteria in the Murderkill River from Route 1 bridge to the confluence with Delaware Bay from May 16 to September 30 shall not be lower than 3 mg/L, while one hour minimum DO shall not be lower 1 mg/L. For data period from October 1 to May 15, the State DO criteria applies.

For continuous DO data, stations were considered compliant if the minimum criterion was not violated by more than 1% of the measurements. In addition, daily averages were computed from the continuous monitoring data and 10<sup>th</sup> percentile of the daily average were compared with applicable above mentioned fresh or marine water criterion. Hence, when analyzing continuous DO data, concentrations were considered to meet ALUS if minimum DO criterion was not violated by more than 1% of continuous DO measurement or 10<sup>th</sup> percentile of daily average were greater than the fresh or marine waters criteria.

The 10th percentile of available discrete DO data is the lowest dissolved oxygen concentrations of the field measurement collected from a station. For example, if 10th percentile from one station equals 5.5 mg/L, then one would assume the lowest 10% of that station's data are equal to or lower than 5.5. If X10 value is lower than criteria, then the station fails to comply with the criteria. Comparing that value (i.e. X10) with the criteria is the stringent approach.

In summary, if the following conditions are met for all stations within an AU, the AU is considered "fully supporting" ALUS for dissolved oxygen, and if any station within an AU is not meeting those conditions, then the AU is considered "not fully supporting" ALUS. In summary, the following represent conditions in which a station or AU would not meet ALUS:

- If the 10th percentile DO from a station is lower than the daily average DO criteria – 5 mg/L for marine and 5.5 mg/L for freshwater.
- If two or more samples from a station in five years are less than the minimum DO criteria i.e., 4 mg/L throughout the state or in case of Murderkill River Watershed, from May 16 to September 30, daily average of 3 mg/L and hourly minimum of 1

mg/L, from Oct 1 to May 15 the State criteria would apply.

- If the minimum DO criteria is violated by more than 1% of continuous monitoring data from a station or 10<sup>th</sup> percentile of daily average from continuous monitoring are lower than fresh or marine water criteria.
- If one or more sampling stations in a specific AU are not meeting the above-mentioned criteria, then that AU will be considered impaired in terms of DO.

## 4.2.2 Nutrient Enrichment Assessment

From a statewide perspective, nutrient over enrichment is one of the leading causes of water quality impairment. While nutrients are essential to the health of aquatic ecosystems, excessive nutrient loadings to surface waters can lead to an undesirable proliferation of aquatic flora, which in turn can result in oxygen depletion and associated impacts to fish and macroinvertebrate populations. Excessive aquatic plant growth can also preclude or seriously curtail water dependent activities such as fishing and boating when plant densities become so great that uses are not physically possible.

### 4.2.2.1 Total Nitrogen and Total Phosphorus Assessment

For most of the waters of the state, the Department has developed and implemented nutrient TMDLs to achieve DO targets. The state utilizes threshold values of 3 mg/L for total nitrogen and 0.2 mg/L for total phosphorus to meet TMDL goals. These threshold values were developed in order to implement the narrative provisions in Delaware's Surface Water Quality Standards. For stations with sampling events on at least ten different days during the five-year assessment period, data were averaged, and lower confidence limits calculated at 95% confidence level (i.e.  $\alpha = 0.05$ ) were compared to the threshold values.

- Stations whose lower confidence limit for the 5-year average total nitrogen or total phosphorus levels were above established threshold levels will not be fully supporting the Aquatic Life use.
- AUs with one or more stations whose lower confidence limit for the average nutrient concentrations were above the established threshold values do not fully support the Aquatic Life use.

Any of the following conditions will also result in an AU being listed as impaired:

1. Documented cases of nuisance algal blooms or excessive macrophyte growth. These cases violate Section 4.1.1.3 of Delaware's Surface Water Quality Standards which require waters of the state to be free from substances that may result in a dominance of nuisance species.
2. If detailed, site-specific monitoring studies indicated a strong linkage between nutrient levels and indicators of eutrophication such as high chlorophyll-a concentrations, extreme daily variation in DO levels, and high sediment oxygen demand.
3. For waters of exceptional recreational or ecological significance (ERES), if a long-term trend analysis indicates a statistically significant increase in nutrient levels over time. Such increases are inconsistent with the short-term goal of "holding the line" on water quality in ERES waters. Such increases are also inconsistent with the long-term goal of restoring those waters, to the extent feasible, to their natural state.

### 4.2.2.2 Dissolved Nutrient Assessment in Inland Bays

For tidal portions of the Indian River, Indian River Bay, and Rehoboth Bay watersheds, the



water quality criterion for dissolved inorganic nitrogen is a seasonal average of 0.14 mg/L, and for dissolved inorganic phosphorus a seasonal average of 0.01 mg/L. For stations where sampling events occurred on at least ten different days during the assessment period, the available data for the period between March 1 and October 31 from each station were averaged and 95% confidence level were calculated. The lower confidence limit is compared to the above seasonal criteria to assess attainment of desired dissolved nutrient levels in those waters. AUs with one or more stations whose lower confidence limit were above the seasonal criteria, do not fully support the Aquatic Life use.

#### **4.2.3 Assessments of Total Suspended Solids in the Tidal Inland Bays Watershed**

For tidal portions of the Indian River, Indian River Bay, and Rehoboth Bay watersheds, the water quality criterion for total suspended solids (TSS) is a seasonal average of 20mg/L between March 1 and October 31. For those stations where sampling events occurred on at least ten different days during the assessment period, the available data for the months of March through October from each station were averaged and 95% confidence level were calculated. The lower confidence limit on the averages was compared to the above value to assess attainment of desired TSS levels in these waters. AUs with one or more stations whose lower confidence limits were above the seasonal criteria, do not fully support the Aquatic Life use.

#### **4.2.4 Temperature Assessments**

Delaware's Surface Water Quality Standards indicate that, in freshwater, no human induced increase of the daily maximum temperature above 86 degrees F (30.0 degrees C) shall be allowed. For marine waters, no human-induced increase of the daily maximum temperature above 87 degrees F (30.6 degrees C) shall be allowed. Stations for which two or more sampling events were above the criteria and whose AUs receive thermal discharges do not support of the Aquatic Life use.

#### **4.2.5 Aquatic Life Assessments for Toxicity**

Currently, the Department performs water column data assessment for ammonia, copper, lead, arsenic, and zinc at certain monitoring stations. Per Delaware regulation, acute aquatic life criteria for toxic pollutants are applied as one-hour average concentrations not to be exceeded more than once in any three-year period. Chronic criteria for toxic pollutants are applied as four-day average concentrations not to be exceeded more than once in any three-year period. Some criteria are based on a formula that accounts for factors like pH, hardness, temperature or in the case of the Biotic Ligand Model (BLM), multiple chemicals of interest. The Department collects additional required parameters to calculate criteria and toxic chemicals at the same date and time. While some other chemical criteria are based on measured quantities of the pollutant alone. For this cycle, formulas were used for ammonia, lead, copper, and zinc in freshwater; fixed criteria were used for copper, zinc and lead in marine waters; and fixed criteria were used for arsenic in fresh and marine waters. Single sample analysis was performed for all toxics data, and meeting or not meeting of criteria was based on comparison of relevant criteria at the time of measurement. For tidally influenced sites, salinity data collected at the time of sampling was used to determine the appropriate criteria (fresh or marine) to compare the toxicity measurement against. Where two or more sampling events were above the fixed or calculated criteria in three years at a station within an AU, it was determined that the Aquatic Life use was not fully supported in the AU for the pollutant of interest.

#### 4.2.5.1 Ammonia Assessment

In freshwater, ammonia's toxicity is controlled by both the temperature and pH of the water. Delaware's ammonia criteria should not be exceeded more than one time in a three- year period. Equation 1 was used to determine chronic ammonia criteria for each sampling event at each station. A station was deemed not supporting for the ALUS if two or more sampling results within three years from that same station resulted in exceedances of the calculated criteria.

Equation 1:

$$CCC = 0.8876 \times \left( \frac{0.0278}{1 + 10^{7.688 - pH}} + \frac{1.1994}{1 + 10^{pH - 7.688}} \right) \times (2.126 \times 10^{0.028 \times (20 - \text{MAX}(T, 7))})$$

Where:

CCC = Ammonia Chronic Criteria

pH= pH of interest

T= temperature degrees Celsius

#### 4.2.5.2 Zinc Assessment

Freshwater zinc acute and chronic criteria were based on hardness and were calculated using Equations 2 and 3 below. Measured freshwater dissolved zinc concentrations was compared to the calculated acute and chronic criteria using Equations 2 and 3 below. When two or more sampling events from the same station resulted in exceedances of the calculated criteria within three years, the station was deemed not supporting for ALUS. A marine zinc chronic criterion of 81 µg/L was used for waters with salinity greater than 5 ppt (i.e. marine).

Equation 2:

$$\text{Zinc Acute Criteria} = 0.978 \times \text{EXP}^{(0.8473 \times \text{LN}(\text{hardness}) + 0.884)}$$

Equation 3

$$\text{Zinc Chronic Criteria} = 0.986 \times \text{EXP}^{(0.8473 \times \text{LN}(\text{hardness}) + 0.884)}$$

Where:

EXP = e = 2.71828

LN = natural log base e

#### 4.2.5.3 Copper Assessment

The dissolved copper criterion for marine waters is fixed at 3.1 µg/L. When two or more sampling events from the same station resulted in exceedances of the criteria within three years, the station was deemed not supporting for ALUS.

For freshwater, EPA has an approved BLM to be used to calculate the freshwater copper criterion. BLM is a predictive model requiring the input of water temperature, pH, Humic Acid (HA) fraction, dissolved organic carbon, major cations (calcium, magnesium, sodium, and potassium), major anions (sulphate and chloride), alkalinity, and sulfide data. A Humic Acid fraction of 10% and sulfide of 1.0E-10 mg/L was used to run the model.

#### 4.2.5.4 Lead Assessment

Similar to zinc, the dissolved lead freshwater criteria are based on hardness in surface water and were calculated using equations 4 and 5 below. Measured lead concentrations were compared with the calculated acute and chronic criteria using Equations 4 and 5 below.

Equation 4:

$$\text{Lead Acute Criteria} = (1.46203 - \ln(\text{Hardness})) \times 0.145712 \times \text{EXP}^{(1.273 \times \text{LN}(\text{hardness}) - 1.46)}$$

Equation 5:

$$\text{Lead Chronic Criteri} = (1.46203 - \ln(\text{Hardness})) \times 0.145712 \times \text{EXP}^{(1.273 \times \text{LN}(\text{hardness}) - 4.705)}$$

Lead data for marine waters were compared with the marine acute and chronic criteria of 210 µg/L and 8.1 µg/L, respectively. Water column lead data were compared with the forementioned criteria and when two or more samples exceeded the criteria it was deemed not supporting Aquatic Life.

#### 4.2.5.5 Arsenic Assessment

Delaware's acute and chronic surface water quality standards for dissolved arsenic in freshwater are 340 µg/L and 150 µg/L, respectively. For marine waters those standards are 69 µg/L and 36 µg/L, respectively. Water column dissolved arsenic data were compared with the forementioned criteria and when two or more samples exceeded the criteria in three years, it was deemed not supporting Aquatic Life.

Dissolved arsenic concentrations in freshwater stations in Brandywine Creek, Red Clay Creek, White Clay Creek, and Christina River were assessed for Public Water Supply use as well. The stations' dissolved arsenic concentrations were compared with EPA drinking water criterion maximum contaminated level (MCL) value of 10 µg/L. When 2 or more measurements exceeded that criterion, the station does not fully support Public Water Supply uses.

### 4.2.6 Primary Contact Recreation Use Assessments

Because Delaware has designated all surface waters of the state for both primary and secondary contact recreation uses, the more stringent primary contact recreational use standard was utilized for listing decisions. Water samples were collected and analyzed for total enterococcus fecal indicator bacteria multiple times each year at each monitoring station. Sampling for primary contact designated use is designed to capture the ambient bacterial water quality condition to represent the condition of the associated AU.

Where at least ten sampling events occurred on different days during the assessment period, the geometric mean and single-sample value of the available enterococcus (colonies/100 mL) data for each monitoring station were compared to the criteria shown in Table 6. For determination of fresh or marine criteria for single-sample value, salinity data collected at the time of sampling was used for any tidally influenced site. When the geometric mean was greater than the criteria or when more than ten percent of samples for a monitoring station were more than the single-sample value, the assessment unit was considered not supporting for the primary contact recreation designated use.

**Table 5: Delaware's Primary Contact Recreation Criteria**

| Water Type | Single-sample value<br>(Enterococcus colonies/100 ml)<br>Criteria for Primary Contact<br>Use | Geometric Mean<br>(Enterococcus colonies/100 ml)<br>Criteria for Primary Contact<br>Use |
|------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Fresh      | 185                                                                                          | 100                                                                                     |
| Marine     | 104                                                                                          | 35                                                                                      |

In addition, samples were collected for all guarded beaches and many unguarded beaches throughout the state. Sampling occurs more frequently from mid-May through mid-September as part of beach monitoring activities pursuant to the Beaches Environmental Assessment and Coastal Health (BEACH) Act but includes both BEACH Act and non-BEACH Act recreational beaches. The assessment of the water quality at recreational beaches for primary contact recreation use is not designed to monitor ambient water quality of an AU, rather this sampling focuses on the condition of nearshore waters. These conditions can vary spatially and temporally, based on nearby inputs such as wildlife, resuspension of indicator bacteria in shoreline sediment and other environmental factors. In order to determine these inputs, the state conducted extensive sanitary surveys of these recreational beaches to identify both point and nonpoint sources of bacteria, including whether the source is of anthropogenic or wildlife origins. The result of this work has shown that beaches are not impacted by point sources, with inputs instead originating primarily from wildlife. Delaware's narrative criteria for primary contact recreation identify that the numeric standards apply to "enterococcus bacteria determined by the Department to be of non-wildlife origin based on best scientific judgment using available information." For the reasons stated above, data collected for designated beaches is used by the state for notification to the public of short-term changes in water quality and not for long-term assessments of ambient water quality to determine impairments of assessment units.

#### 4.2.7 Assessment of Harvestable Shellfish Waters Use Support

Delaware is a member of the Interstate Shellfish Sanitation Conference (ISSC), the administrative body of the National Shellfish Sanitation Program (NSSP). Delaware's Shellfish Sanitation Regulations are administered as per ISSC/NSSP standards and practices. Section 3.2.1.3 of said regulations specifies data collection/closure criteria for Delaware shellfish waters, which include parameters constituting administrative closure of shellfish waters. Parameters that would trigger administrative closures in compliance with ISSC/NSSP standards may include theoretical pollution loading, sanitary shoreline survey information and numerical coliform data. All Delaware shellfish waters designated as other-than-Approved, which may include Prohibited, Seasonally Approved, Conditionally Approved, or Restricted, are so designated based on administrative decisions. Specifically, these criteria include:

- Theoretical pollution loading, which is determined to be the potential for intermittent pollution discharges, making detection of said theoretical releases non-detectable via conventional sampling methodology.
- Sanitary shoreline survey findings, which indicate potential for theoretical pollution loading, also non-detectable via conventional sampling methodology.
- The dilution of theoretical virus discharges from point sources; however, not corresponding to increases in total coliform levels.

In order to comply with ISSC/NSSP requirements, Delaware samples all shellfish waters not administratively closed for fecal coliform bacteria. Delaware's Shellfish Program is assessed under the auspices of the U.S. Food and Drug Administration, as per ISSC/NSSP standards and practices, and submits bacteriological water quality data to the U.S. Food and Drug Administration to demonstrate compliance.

To assess the harvestable shellfish designated use, the Department considers the data and reports to FDA for waters that are not administratively closed. Waters that were administratively closed for shellfish harvesting as a result of coliform exceedances during the assessment period were assessed as Category 5. During this assessment period, no waters were administratively closed for shellfish harvesting due to coliform exceedances.

#### **4.2.8 Listing Criteria for Waters and Fish Consumption Advisories**

DNREC utilizes fish tissue and water data for toxic contaminant listing purposes. In developing Delaware's Integrated 305(b) Report and 303(d) List, the issuance of any Fish Consumption advisory will be interpreted as a violation of Section 4.5.9.2.3 and Section 4.1.1.3 of Delaware's Surface Water Quality Standards. Those two narrative provisions provide that:

- 1 Waters of the state shall be maintained to prevent adverse toxic effects on human health resulting from ingestion of chemically contaminated aquatic organisms.
- 2 Any pollutants, including those of a thermal, toxic, corrosive, bacteriological, radiological, or other nature, that may interfere with attainment and maintenance of designated uses of the water, may impart undesirable odors, tastes, or colors to the water or to aquatic life found therein, may endanger public health, or may result in dominance of nuisance species.

##### **4.2.8.1 Fish tissue data**

Fish tissue data evaluations and risk assessments were conducted in accordance with Delaware's Technical Procedures for Evaluating Human Health Risk Associated with the Consumption of Chemically Contaminated Fish and Shellfish (DNREC 2017).

In general, individual fish sample weights and lengths were recorded in the field at each sample location. Fish samples were subsequently prepared for contaminant analysis by filleting or otherwise retaining the edible portions to be analyzed and then homogenizing the resulting subsamples to produce a uniform sample (per species, per location). The homogenized tissue samples are shipped to a contracted commercial laboratory for chemical analysis.

Delaware's risk assessment procedures consider both cancer and non-cancer effects and also consider different receptors including an average adult angler, women of childbearing age, and young children. It is important to note that Delaware's procedures assume that health risk among various chemicals is additive, meaning that the risk associated with individual chemicals in the fish tissue combine to produce an aggregate risk for all chemicals in the fish tissue. Aggregate risk for cancer is considered separately from aggregate risk for non-cancer effects.

A key feature of Delaware's technical procedure is to back-calculate a "safe" number of meals that can be consumed per unit of time while maintaining an aggregate cancer risk and non-cancer risk at low levels. "Low levels" in Delaware's procedures equate to an aggregate cancer risk less than 1-in- 100,000 (i.e.,  $10^{-5}$ ) and an aggregate non-cancer risk less than 1

(i.e., Hazard Index < 1).

One benefit of considering aggregate risk is that the contribution of each chemical to the aggregate risk can then be easily calculated. Chemicals responsible for greater than 10% of the aggregate risk are referred to as "risk drivers". Knowing the risk drivers is important from a water quality and waste remediation perspective because it provides focus for regulatory and non-regulatory programs.

All AUs for which Fish Consumption advisories are in place as of the publishing of the Integrated Report were considered not supporting Fish Consumption designated use for each of the risk driving chemicals of concern included in each advisory, hence listed on Delaware's 303(d) list. If Fish Consumption advisories are lifted/removed, or any chemical of concern is removed from an advisory for more than one [consecutive] monitoring cycle, then the chemical/segment pair will be removed from Delaware's 303(d) list for the Fish Consumption designated use.

#### 4.2.8.2 Surface water data

Occasionally, surface water is collected and analyzed for toxic contaminants in addition to, or in lieu of, fish tissue. Samples are generally collected as grab samples, which represent a "snapshot" of information (specific to that place/time/conditions). The data is useful (along with sediment and/or fish tissue data) for contaminant trackback studies, for understanding partitioning behavior of chemical contaminants and for calculation of site specific BAFs and BSAFs. Surface water data can also be used to justify the impairment of an AU. In such cases, however, it is important to assess water quality criteria exceedances in terms of magnitude (the measured concentration), duration (the averaging period associated with the criterion) and frequency (how often the criterion can be exceeded).

Per Delaware regulation, acute aquatic life criteria are applied as one-hour average concentrations not to be exceeded more than once in any three-year period. Chronic criteria are applied as four-day average concentrations not to be exceeded more than once in any three-year period. Human health water quality criteria are expressed in terms of concentration only. They do not explicitly include duration and frequency. However, human health water quality criteria are designed to protect against long-term exposure to low concentrations. For instance, in the case of toxic pollutants that are known or probable human carcinogens, the assumed exposure duration is a lifetime (i.e., 70 years for the average individual). The frequency implicit in these criteria is continuous. Taken together, these factors are normally used to interpret human health water quality criteria as annual averages.

When appropriate quality and quantity of surface water sample data is available for comparison to applicable criteria, and when criteria are exceeded at the specified frequency over the specified duration, then a segment may be considered a candidate for listing. Within the context of this methodology, a candidate for listing means simply that additional factors need to be considered to make a final use support determination. DNREC seeks to make the best possible scientific determination based upon the totality of information available at the time. The analysis and integration of this information ultimately depend on the application of sound science and professional judgment. Some factors that may be considered in making a final determination include, but are not limited to:

- The magnitude of any exceedance (e.g., 2 times the criterion vs 20 times the criterion);
- The number and density of surface water quality data points included in the

assessment/AU (e.g., 30 samples over one river mile vs 3 samples over one river mile);

- Weather/water body conditions at the time that data was collected (e.g., high flow/turbid water vs. low flow/clear water);
- The existence of fish tissue data and associated human health risk assessment from the subject water body (fish bioaccumulate contaminants over time and space, not just a “snapshot”); and/or
- The potential to collect fish tissue samples during the next monitoring cycle.

#### **4.2.9 Assessments of Aquatic Life Use Support using site-specific data that results from environmental assessments and other programs**

In the normal course of business, the Department requests, receives and evaluates water quality data for various environmental programs. Similar data may also come from other parties (e.g., state, federal or local agencies). The Department compares those site-specific studies’ water quality data with the applicable water quality standard(s) and makes assessment and listing decisions for the affected AUs.

- If we are trying to avoid the categories, what about:
- If the data show no water quality criteria are exceeded and no uses are impaired, no further listing action will be taken.
- If the data are ambiguous or inconclusive, the AU will be listed and due to insufficient will be further examined to determine designated use support.
- If water quality criteria are exceeded or uses are impaired as a result of a contaminated site, and the owners of the site are making substantial progress (as determined by the Department) toward correcting the pollution problem, the AU will be listed with a low priority for a TMDL.
- If it appears that there is a water quality problem related to a contaminated site, and substantial progress is not likely in the near future, the AU will be listed in Category 5 (impaired and requiring TMDL).

#### **4.2.10 Assessments of Biology and Habitat**

Beginning in 1991, DNREC has used biological and habitat indices to assess and classify the health of perennial, non-tidal streams throughout the State. The biological index (BI), also known as an index of biotic integrity (IBI), is a multi-metric approach (Barbour, et.al., 1999) with metrics calculated based on the abundance and diversity of macroinvertebrates found in the stream. The habitat index (HI) consists of abiotic and biotic structural characteristics of the stream and the contiguous land known to influence the structure and function of the biological community in the stream. Both the biological and habitat indices result in multiple metric scores that places the stream into condition classification categories of “excellent,” “good,” “moderately degraded” or “severely degraded.” Sites that are classified as moderately or severely degraded have historically been recommended for inclusion in the State’s 303(d) list of impaired waters.

Delaware’s habitat and biology assessments primarily took place in the 1990s and early 2000s. Due to more pressing contaminant concerns in the state, work on habitat and biology indices stalled, and some stream segments have not been re-evaluated in nearly 20 years. DNREC, with the assistance of the EPA Region 3, has made it a priority to revitalize Delaware’s Habitat and Biology Program.

Between 2022 and 2025, more than 70 existing and new sites in the Piedmont ecoregion have been evaluated for stream health. Geologically, Delaware exists within two ecoregions,

the Northern Piedmont and the Middle-Atlantic Coastal Plain, and the protocols used in assessing stream health are specific to each ecoregion. With 3 years of new data to characterize and assess streams, Delaware has been working with EPA to develop a new statistically valid IBI for the Piedmont region. As of November 2025, the IBI development is showing much progress but is still in the exploratory stage. The government shutdown in October and November delayed progress. It is anticipated that the Piedmont IBI will be tested, calibrated and finalized by the end of 2026. A re-evaluation of Coastal Plain ecoregion of Delaware is expected to begin once the Piedmont region has been completed.

As new or updated assessments are developed, appropriate measures will be taken to address these listings. If it is determined that establishment of a TMDL is not required because there is no longer an impairment or and impairment/threat is not caused by a pollutant, the Department may change the status of habitat assessment and/or biological integrity parameters in those AUs accordingly (as noted in Table 7) and address water quality issues through restoration efforts as funding is available. If specific pollutants can be determined, TMDLs, ARPs or other actions will be taken to address them.

#### **4.2.11 Setting Priorities for Water Quality Limited Assessment Units Still Needing TMDLs**

The Department has set TMDL and ARP priority rankings for assessment units that remain in Category 5 or 5mnr. Justification for the priority rankings is outlined below. For AUs in Category 5mnr, concentrations of toxic contaminants of concern in fish tissue are expected to drop below screening criteria within approximately five to ten years. As such, a priority ranking of “Low” is assigned, and ARPs will be drafted as new monitoring data become available from WATAR and DNRECs Fish Consumption Advisory Program. To date, all AU/parameter pairs listed prior to 2014 have been evaluated for a Category 5mnr designation. For AUs in Category 5, priority is given to the segments where information is sufficient to develop TMDLs, where the magnitude of exceedances is greatest, and/or where DNREC has otherwise committed to extending its resources (e.g., addressing “low” priority pollutants from an AU at the same time as addressing a “high” priority pollutant from the same AU).

As an example, in 2018, Delaware prioritized development of TMDLs for Red Clay Creek dioxins/furans and St. Jones River and Silver Lake dioxins/furans based upon increasing contaminant trends in fish tissue (e.g. DNREC assigned those segment/contaminant pairings a “high” priority). In the Red Clay Creek, two other contaminant impairments (dieldrin and DDX) had been previously assigned a “low” priority ranking. Regardless, Delaware prepared the TMDL calculations and associated report for all three contaminant impairments in the Red Clay Creek at the same time.

As another example, St. Jones River fish data collected in 2019 exhibited a decreasing trend of dioxins/furans in both prioritized (“high”) segments. Consequently, the segment/contaminant pairings were changed to a category 5mnr, which prompted development of an ARP instead of a TMDL. Additionally, but “low” priority, St. Jones River segments will also be included in the ARP documentation, since the watershed information is already being gathered. This practice promotes efficiency in addressing all of Delaware’s toxic contaminant listings/impairments.



#### 4.2.12 Rationale Used to Designate a Lower Category for Assessment Units Previously Designated for TMDL Development

The Department may move AU/Parameter combination from prior 303(d) Lists (equivalent to Category 5) to another category based on any of the following factors and will document the reasons for doing so on a case-by-case basis. Once a TMDL has been approved by the EPA, it is in place until it has been rescinded by the Department following applicable Departmental procedures.

**Table 6: Lower listing category designation rationale**

| Factor                                                                                                                                                                                                                                                                                                                                                  | Listing category                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The assessment and interpretation of more recent or more accurate data demonstrate that the applicable WQS(s) is being met.                                                                                                                                                                                                                             | Move to Category 1                                                                                                                                                          |
| The results of more sophisticated water quality modeling demonstrate that the applicable WQS(s) is being met.                                                                                                                                                                                                                                           | Move to Category 1                                                                                                                                                          |
| Demonstration that flaws in the original analysis of data and information led to the water being incorrectly listed.                                                                                                                                                                                                                                    | Move to Category 1                                                                                                                                                          |
| The development of a new listing methodology, consistent with state WQSs and federal listing requirements, and a reassessment of the data that led to the prior listing, concluding that WQSs are now attained.                                                                                                                                         | Move to appropriate category                                                                                                                                                |
| A demonstration pursuant to 40 CFR 130.7(b)(1)(ii) that there are effluent limitations required by state or local authorities that are more stringent than technology-based effluent limitations required by the CWA and that these more stringent effluent limitations will result in the attainment of WQSs for the pollutant causing the impairment. | Move to category 4A or 4B until data and analysis support move to Category 1                                                                                                |
| A demonstration pursuant to 40 CFR 130.7(b)(1)(iii) that there are other pollution control requirements required by state, local, or federal authority that will result in attainment of WQSs for a specific pollutant(s) within a reasonable time.                                                                                                     | Move to category 4B until data and analysis either support move to Category 1 or a return to Category 5 if attainment of WQS is no longer expected within a reasonable time |
| Documentation that the state included on a previous Section 303(d) List an impaired water that was not required to be listed by EPA regulations, e.g., waters where there is no pollutant associated with the impairment.                                                                                                                               | Move to Category 1 or Category 4C as appropriate                                                                                                                            |
| Approval or establishment by EPA of a TMDL since the last Section 303(d) List.                                                                                                                                                                                                                                                                          | Move to Category 4A until data and analysis support move to Category 1                                                                                                      |

Other factors may also be used to change categories on a case-by-case basis, subject to EPA approval and appropriate stakeholder involvement.

### 4.2.13 Flow Charts for Designated Use Attainment

Figure 1: Assessment of Aquatic Life Use Support Using Dissolved Oxygen Criteria

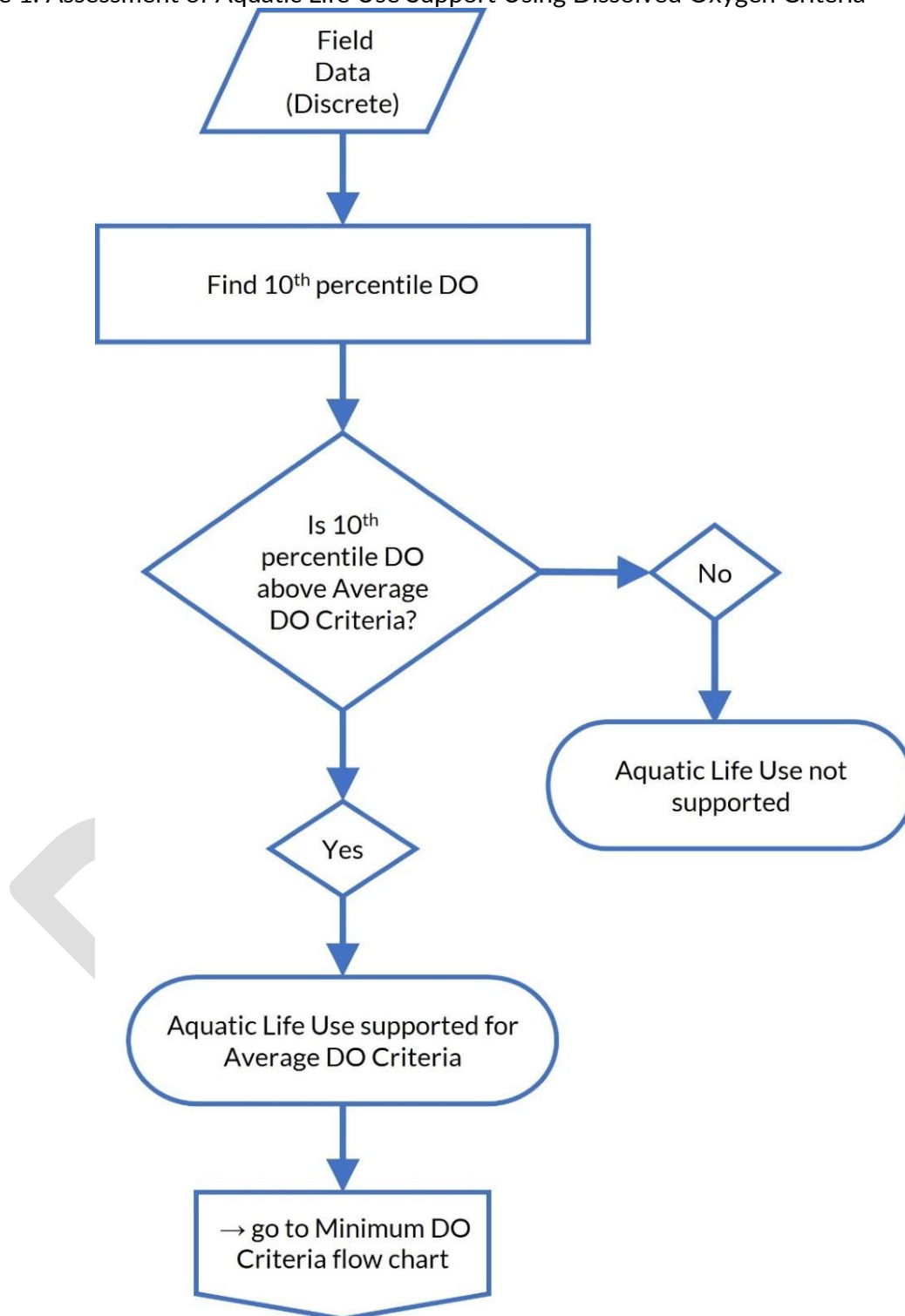


Figure 2: Assessment of Aquatic Life Use Support Using Minimum Dissolved Oxygen Criteria and Continuous Monitoring Data

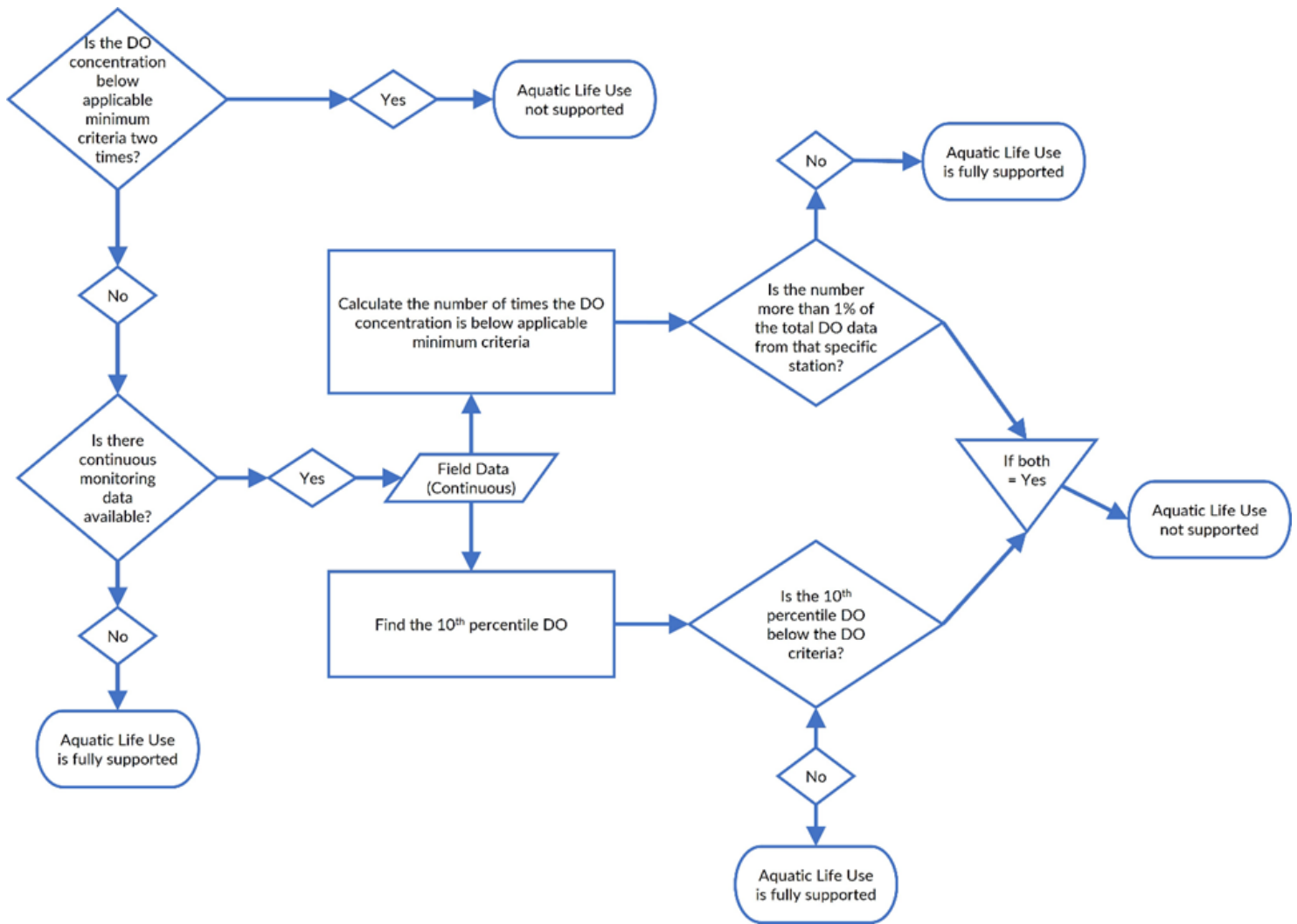
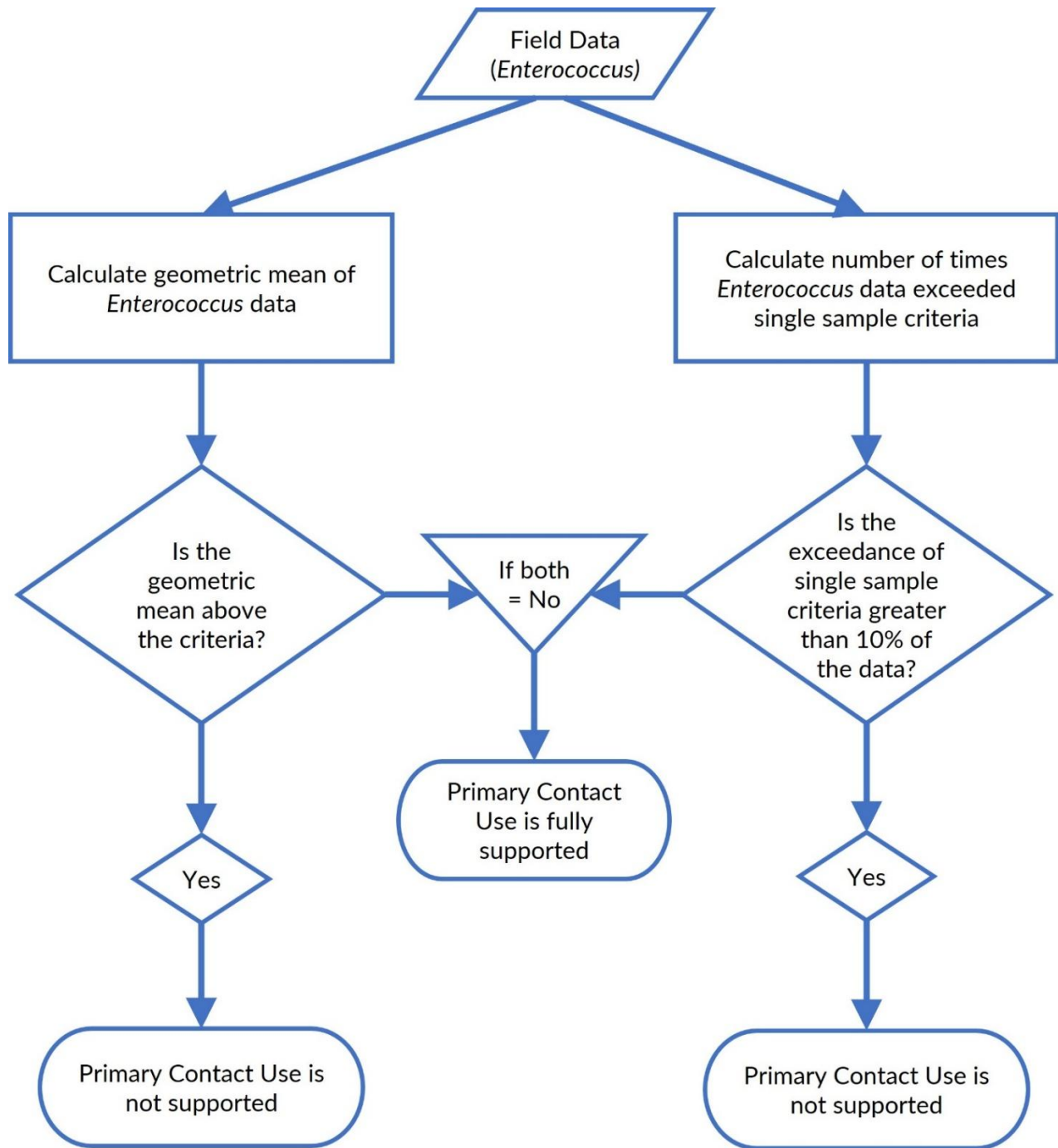


Figure 3: Assessment of Primary Contact Use Support for Assessment Units Outside of the Recreational Waters Program



## 4.3 Assessment Results

### 4.3.1 Dissolved Oxygen in Surface Water and Listing Criteria

#### 4.3.1.1 Discrete (Grab Sample) Dissolved Oxygen and Listing Criteria

DO concentrations were compared with the minimum criteria of 4 mg/L throughout the State (except 3 mg/L in Murderkill River Watershed), 10th percentile of 5.5 mg/L freshwater and 5.0 mg/L marine water concentrations. The result of analyzed data is presented in Appendix B.

#### 4.3.1.2 Continuous Dissolved Oxygen in Surface Water and Listing Criteria

In addition to discrete DO data, seven segments were also assessed based on continuous DO monitoring data provided by the USGS. These segments were DE010-001-01, DE040-002-01, DE120-002, DE140-L01, DE060-001, DE220-001 and DE280-E01. The criteria stated a minimum DO level of 4 mg/L, or 3 mg/L in the Murderkill River Watershed, could not be violated by more than 1% to be considered attaining. In addition, 10th percentile of daily average DO could not violate the forementioned fresh and marine criteria. Four continuous water quality monitoring stations in AUs DE010-001-01, DE120-002, DE220-001, and DE060-001 were not meeting continuous DO criteria. Out of those four, DE010-001-01 (AU in Appoquinimink Watershed), DE120-002 (AU in Christina River Watershed), and DE060-001 (AU in Broadkill River Watershed) were listed as not meeting based on the continuous DO criteria. The result of analyzed data is presented in Appendix B.

#### 4.3.1.3 Center for Inland Bays Continuous Dissolved Oxygen in Surface Water

The Delaware Center for the Inland Bays (CIB) provided continuous bottom water (i.e. 6 inches above the bottom sediment) DO data for seven sites in Delaware's Inland Bays (see details of all sites in Appendix H). This data was collected in accordance with an EPA approved Quality Assurance Plan. However, the data was considered Tier-II Supporting Data per the External Data Policy. While Wharton's Bluff station was considered Tier-II, the data was used as supplemental information for the 2026 cycle. Wharton's Bluff is in Indian River - AU DE140-004. The AU has had a history of fish kills resulting in Wharton's Bluff data being used in the IR2022 and IR2024 cycles for a DO listing decision. In this cycle, the Department continued to use Wharton's Bluff data as supplemental information for their listing decision. The Department will continue collaborating with the CIB on DO monitoring projects to offer insight into station placement and representativeness of ambient conditions. The Department has analyzed the data provided by CIB and the results can be found in Appendix H.

The Department's analysis of Wharton's Bluff site data showed there were 24059 continuous DO data records for this cycle. Assessment of the data showed that 12.5% of the available data from the site did not meet the minimum concentration of DO criteria and the segment DE140-004 was listed only based on this information. The result of analyzed data is presented in Appendix B.

### 4.3.2 Nutrients in Surface Water and Listing Criteria

In the past, Delaware's Integrated Reports assessed the parameter "nutrients" which was refined in 2024 and replaced by "nitrogen (N)" and "phosphorus (P)." For the 2026 IR cycle,

Delaware's assessments of segments were thus based on Total Nitrogen (TN) and Total Phosphorus (TP) meeting threshold concentrations of 3 mg/L and 0.2 mg/L respectively. In the Inland Bays, in addition to TN and TP, assessments were also based on Dissolved Inorganic Nitrogen (DIN) and Dissolved Inorganic Phosphorus (DIP) concentrations meeting their respective seasonal criteria of 0.14 mg/L and 0.01 mg/L.

#### *4.2.2.2 Total Nitrogen and Total Phosphorus in Surface Water*

Out of the 135 water quality monitoring stations, lower confidence limit value for TN concentration was greater than the TN threshold of 3 mg/L at 32 monitoring stations. The lower confidence value for TP was greater than 0.2 mg/L at 2 monitoring stations. For this cycle, those stations with lower confidence limit value greater than the threshold for TN and TP were identified as not meeting the threshold. The result of analyzed data is presented in Appendix B.

#### *4.2.2.3 Inland Bays Dissolved Nutrient in Surface Water*

The tidal portions of the Inland Bays drainage basin have seasonal (March to October) DIN and DIP criteria. Out of the 14 monitoring stations, DIN was greater than the criteria in 5 monitoring stations, whereas DIP was higher than the criteria at 2 monitoring stations. The result of analyzed data is presented in Appendix B.

### **4.3.3 Total Suspended Solids in Inland Bays Water and Listing Criteria**

Delaware has seasonal (March to October) total suspended solids criteria in tidal portions of Inland Bays drainage basin. Out of 14 water quality monitoring stations, lower confidence limit for total suspended solids was greater than the seasonal criteria at 6 monitoring stations and those stations were listed in this cycle. The result of analyzed data is presented in Appendix B.

### **4.3.4 Toxic Chemical in Surface Water and Listing Criteria**

#### *4.3.4.1 Ammonia in Surface*

Ammonia criteria were calculated based on water pH and temperature. Single sample ammonia criteria were calculated and compared with ammonia concentration measured during each single sample event. There were no AUs listed based on ammonia. The result of analyzed data is presented in Appendix B.

#### *4.3.4.2 Zinc in Surface Water and Listing Criteria*

Fresh and marine water zinc concentrations were compared with the respective criteria. Zinc exceeded the criteria at one monitoring station and was listed in this cycle. The result of analyzed data is presented in Appendix B.

#### *4.3.4.3 Copper in Surface Water and Listing Criteria*

Copper in marine water was compared with the marine copper criteria. During the present cycle marine copper concentration exceeded the criteria at three monitoring stations and were listed in this cycle. The result of analyzed data is presented in Appendix B.

Biotic Ligand Model (BLM) was used to compute freshwater copper criteria using single sample values of 10 different parameters, i.e. temperature, pH, dissolved organic carbon, calcium, magnesium, sodium, potassium, sulfate, chloride, and alkalinity. BLM model predicted that 28 monitoring stations exceeded the copper criteria and those were listed in this cycle. The result is presented in Appendix B.



#### *4.3.4.4 Lead in Surface Water and Listing Criteria*

Lead concentrations were compared with the fresh and marine lead criteria at 75 monitoring stations. Out of 75, 2 freshwater monitoring stations exceeded freshwater lead criteria. The Department believes further review of the stations is needed before placing them in Category 5. For this cycle they are placed in Category 3 for further review and determination in the 2028 IR cycle. The result of analyzed data is presented in Appendix B.

#### *4.3.4.5 Arsenic in Surface Water and Listing Criteria*

Dissolved arsenic was a new parameter assessed for the Public Water Supply designated use in IR2026. Previously, dissolved arsenic was assessed in several locations related to the Fish Consumption designated use, but it was determined that the Fish, Aquatic Life, and Wildlife designated use was more appropriate based on the Department's current methodology. None of the concentrations exceeded the criteria for Fish, Aquatic Life, and Wildlife designated and Public Water Supply uses, hence there were no listings based on arsenic concentration in this cycle. The result of analyzed data is presented in Appendix B.

### **4.3.5 Enterococcus Bacteria in Surface Water**

Enterococcus bacteria in surface water were analyzed using single sample and geometric mean criteria. If the sample failed either one of the criteria, then the station was listed. For this cycle, out of 135 stations sampled, 117 stations were not meeting criteria and hence listed. The result of analyzed data is presented in Appendix B.

### **4.3.6 Toxic Pollutants in Fish Tissue**

As in the previous two cycles, no new updates to Fish Consumption advisories were used in the 2026 assessments. Instead, the Department incorporated the Fish Tissue Advisories that were last updated by the DHSS and DNREC on February 20th, 2018. Although updated fish tissue data has been collected for all impaired watersheds within the state between 2019 and 2024, the data is still being analyzed, and risk assessments are being conducted to determine advisories. Preliminary results of the data assessments have shown that, for the contaminants of interest, mean concentrations have not increased. Hence, the 2018 fish advisories are a conservative representation of current conditions and corresponding meal advice.

The Department has been using a WATAR strategy to address toxic pollutant issues in Delaware. In March 2018, the Department issued a report entitled "An Evaluation of Clean Water Act Section 303(d) Listings of Delaware Waters Affected by Fish Consumption Advisories." The evaluation considered information gathered from the WATAR and Fish Tissue Advisories programs to perform detailed trend analyses of pollutants in fish tissue that aren't already incorporated into an existing TMDL (e.g. Delaware River PCB TMDL). The trend analyses showed that, in many cases, pollutants are expected to drop below health risk thresholds in a reasonable amount of time if the trajectory of the trend continues. As a result, the report recommended that several segments be placed into a new, Delaware-specific category of impairment known as monitored natural recovery (mnr). That category is shown in this report as Category 5mnr. As suggested in the category name, expectations are that the aquatic systems are recovering naturally due to the reduction/removal of primary contaminant sources within the watersheds. The Department will continue to monitor fish tissue in those waters but expects the contaminant levels to decrease enough for future evaluations to recommend delisting those contaminants. This type of evaluation will continue with data from other watersheds, and new watersheds will be placed into Category 5mnr when justified.

The aforementioned report also identified four AUs where the trend analyses showed that concentrations of pollutants are increasing or are otherwise not expected to reach acceptable levels in the near future (Red Clay Creek Mainstem, Upper Saint Jones, Silver Lake and Lower Saint Jones). Red Clay Creek Mainstem remains in Category 5, and the Department is currently developing TMDL for the impairments. Since March 2018, the Upper Saint Jones, Silver Lake, and Lower Saint Jones impairments have shown reductions in contaminant concentrations. Consequently, they are included within Category 5mnr, and the Department has commenced the development of an ARP for the entire St. Jones watershed.

An ARP can be completed by states in advance of a TMDL if agreed upon by the EPA and so long as contaminant trends continue to show improvement towards attainment. DNREC's ARP framework was modeled after actions already being undertaken by its WATAR program. The documentation allows Delaware to take credit for its program's successes within the 303(d)-reporting structure and within its biannual Integrated Report. Waters with developed ARPs will move from Category 5mnr to Category 5r, indicating that an ARP has been developed and acknowledged by EPA. For Delaware to adequately document its actions that have resulted in contaminant reduction and to comply with Clean Water Act requirements, the Department has worked with the EPA to create its first ARP for one of its Category 5mnr waters (C&D Canal Watershed). More information about specific ARPs is summarized below, including updated trend plots, where appropriate.

#### *4.3.6.1 Advanced Restoration Plan (ARP) for Chesapeake and Delaware Canal (C&D Canal) Watershed*

On September 4, 2024, EPA provided acknowledgement/concurrence with DNREC's ARP for the C&D Canal Watershed. The C&D Canal Watershed was assigned to DNREC's Category 5mnr in 2018 for dioxins/furans (aka TCDD TEQs or DxF TEQs) and dieldrin. PCBs are also included in the C&D Canal Watershed evaluation and restoration plan, even though the watershed is also part of the Delaware River and Bay PCB TMDL.

Delaware's action items as documented in the C&D Canal ARP include:

- Continued implementation of the WATAR program.
- Continued fish tissue monitoring in the C&D Canal Watershed every 5 to 6 years.
- Assistance with jurisdictional implementation of PCB Pollutant Minimization Plans as required by NPDES and MS4 permits.
- Interagency coordination with the State of Maryland who shares the watershed with Delaware.
- Monitoring of continued or new regulatory actions by DNREC's Remediation Section at sites with continued sources of pollutants of concern.
- Regular re-evaluation of trends as data is collected, with adaptive management approaches, if necessary.
- Updates on watershed activities and new trend plots in WATAR Annual Reports and/or Integrated Reports, as necessary.

Additional fish tissue data was collected as part of routine monitoring in 2024. Per the action items noted above, new fish tissue contaminant trend plots have been prepared and are presented in figure 1. The target level for DxF TEQs is less than 0.35 pptr. The target level for dieldrin is less than 3 ppb. The target level for PCBs is less than 27 ppb.



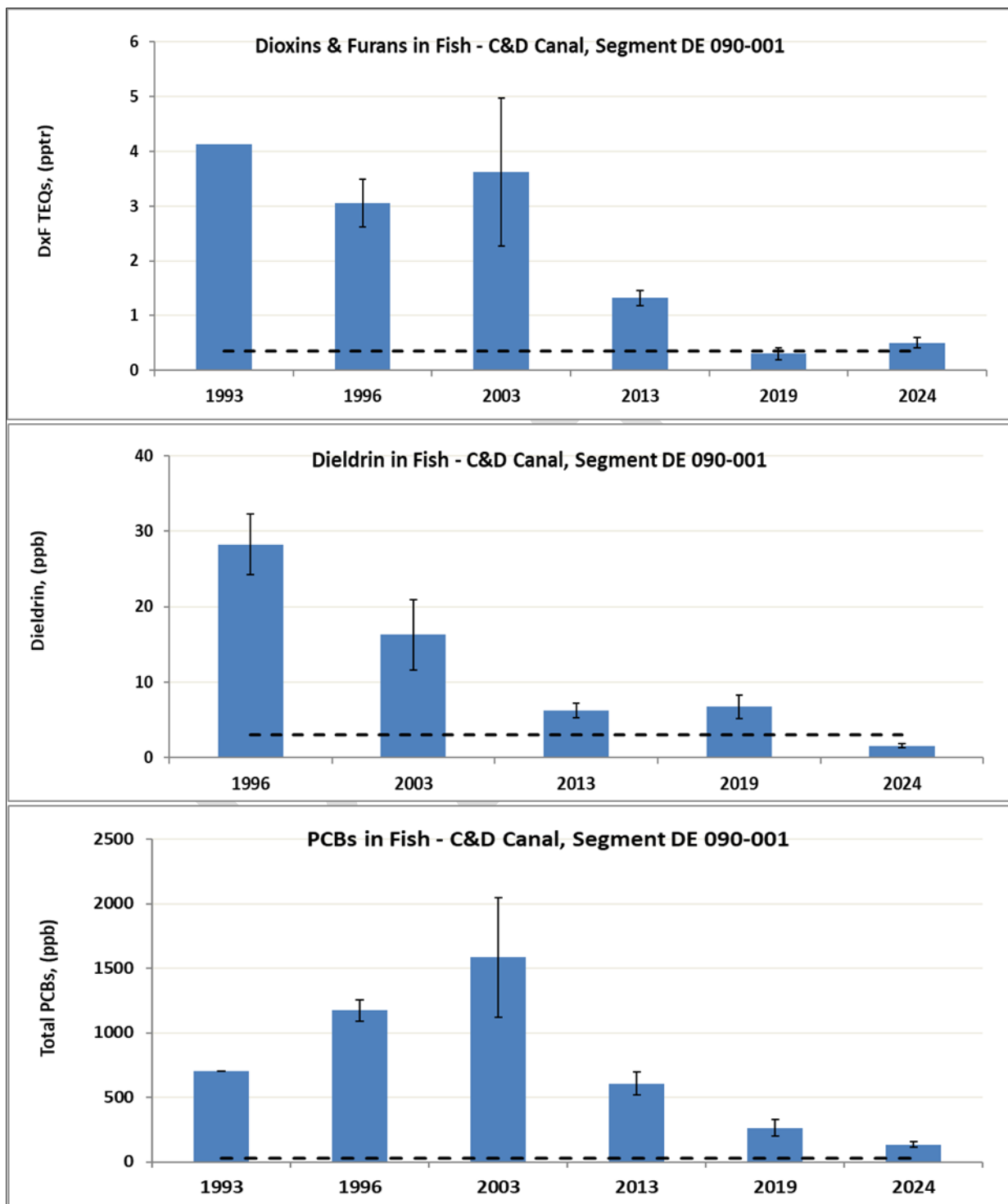


Figure 4: fish tissue contaminant trend plots for Dioxins & Furans, Dieldrin, and PCBs in the C&D Canal (DE090-001)

In addition, DNREC coordinated with the United States Army Corps of Engineers (USACE) in May 2024 to collect appropriate data to ensure that the draining and modification of one of its former Confined Disposal Facilities (CDF) within the watershed would not impact water quality. Specifically, a former facility located along Cox Neck Rd in Delaware City is intended to be rehabilitated for use to store dredged sediments related to USACE's C&D Canal

Navigation Maintenance Project and Delaware City's Branch Canal. In accordance with the C&D Canal Watershed ARP, DNREC requested that the existing ponded water be sampled and analyzed prior to its discharge to the C&D Canal. Additionally, DNREC requested that samples of the existing sediment in the former CDF be analyzed to ensure that excavation and subsequent berm construction would not expose potentially buried contaminants from prior dredging activities to construction workers or ecological receptors in the watershed

#### **4.3.7 Overview of Assessment Unit and Listing Support for Water Quality Parameters**

During the current Integrated Report cycle, ten water quality parameters were analyzed to identify whether the water body supports identified designated uses. For the first time, freshwater copper data was assessed using biotic ligand model (BLM). BLM was used to calculate single sample freshwater copper criteria. Appendix B shows the assessment units or segments "meeting or not meeting" for freshwater copper.

There were 16 AU/parameter combinations in the 2026 assessments that are now meeting criteria or threshold and were delisted. Conversely, there were eight AU/parameter combinations identified as causes of impairment and relisted in the current cycle. It is important to note that seven AU/parameter combinations for ammonia and copper were removed last cycle due to being assessed under the wrong criteria based on salinity and were returned this cycle and assessed using appropriate criteria. Because of this, they appear as "added" in ATTAINS but have remained in DNREC's internal database.

A new designated use was also included for seven AUs assessed for arsenic this cycle. These AUs now have the Fish, Aquatic Life, and Wildlife use and the Public Water Supply use associated with them and are meeting criteria for both.

Due to the lack of new data, 762 AU/parameter combinations were not assessed, and the last assessed cycle's decisions remain in effect. A summary of changes in AU/parameter combinations is presented in Appendix C. A summary of assessment results by designated use is presented in Appendix D.

#### **4.4 Trends Analysis for Surface Waters**

As an integral part of tracking watershed progress toward achieving TMDL targets, DNREC performs trend analysis of nutrients periodically. With the availability of more data, a new trend analysis was performed this cycle, and the result is presented in this section. The trend analysis of nutrient condition (concentration and load) was performed for various locations throughout the State. Delaware's TMDL targets for TN and TP are 3 mg/l and 0.2 mg/l respectively. For this report, the estimation of the direction and magnitude of trends in TN and TP concentrations as well as their associated uncertainties are presented. The analysis was performed using an R statistical package called "Exploration and Graphics for RivEr Trends (EGRET)" (Hirsch and DeCicco, 2014). This package was built based on a multiple regression method called "Weighted Regressions on Time, Discharge, and Season (WRTDS)", (Hirsch et al, 2010). As the name indicates, the WRTDS method estimates daily concentration by establishing a regression relationship among concentration, stream flow, and time of the year (season). The authors described the method as being able to "detect and describe temporal trends that may not conform to linear or quadratic functional forms. This method does not only provide estimates of the time series of annual mean concentration and fluxes, but also time series of "flow-normalized" mean concentration and fluxes which

integrate over the probability distribution of discharge to remove the effect of interannual streamflow variability” (Hirsch et al, 2015). Furthermore, the new add-on package to EGRET, EGRETci - Exploration and Graphics for RivEr Trends Confidence Intervals (Hirsch et al, 2016) for analyzing uncertainties associated with the estimated trends, was also performed with the results included. The WRTDS method is a widely accepted tool for trend analysis and is used by the USGS to assess water quality changes regularly in non-tidal tributaries of the Chesapeake Bay Watershed.

The WRTDS method uses two types of long-term data records - the daily stream flow measurements and water quality samples collected at freshwater stream sites. Nutrients and Flow data from twelve C1 monitoring sites in Delaware, located in the freshwater stream segments and co-located with the USGS stream gauging stations, were used for this analysis. Figure 5 shows the location of the selected C1 sites, and Table 8 lists the C1 sites and nearby USGS stream gaging stations.

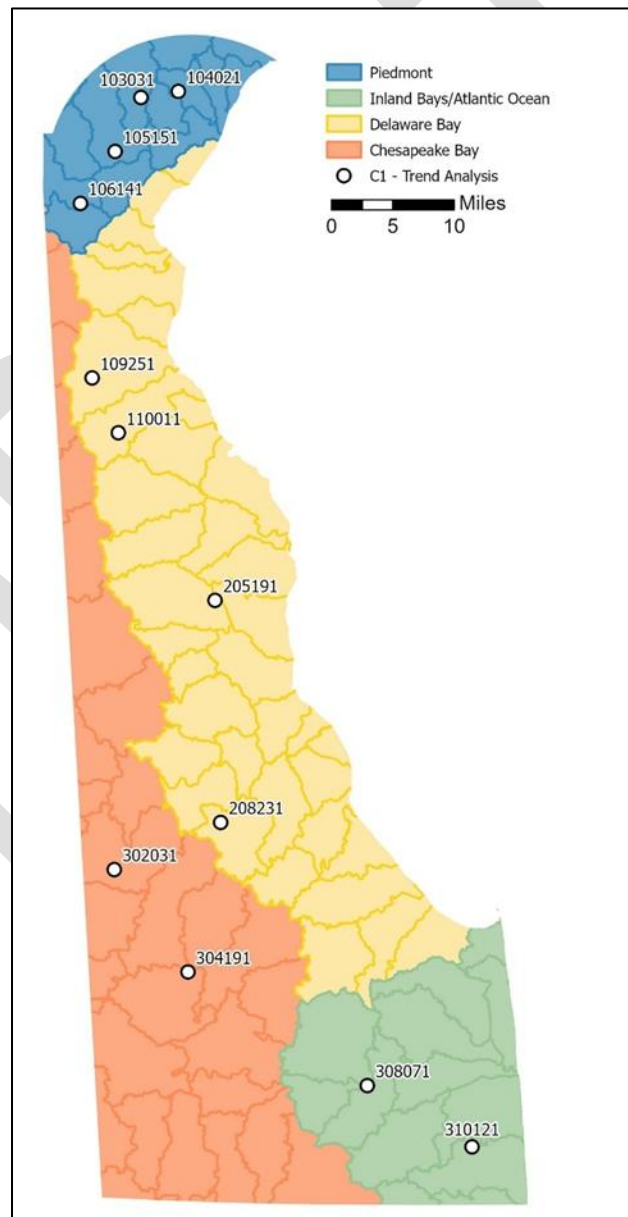


Figure 5: The Selected Twelve C1 Monitoring Sites used in WRTDS for Trend Analysis

Nitrogen and phosphorus concentration data were loaded directly into R-software through EGRET package from the Water Quality Portal (formerly STORET) under National Water Quality Monitoring Council (<https://www.waterqualitydata.us/>). Flow data from appropriate USGS gages were also directly retrieved in the R-software (<https://waterdata.usgs.gov/state/Delaware/>). This analysis focused on Total Nitrogen (TN) and Total Phosphorus (TP). Non-detect values were taken out and duplicates were averaged before performing the trend analysis. It should be noted that prior to 2005, TN was not directly measured, instead, nitrogen species including nitrate-nitrite nitrogen, ammonia nitrogen, organic nitrogen, and/or total Kjeldahl nitrogen (TKN) were measured. Therefore, for the data collected prior to 2005, TN was computed as the sum of the concentrations of nitrate-nitrogen and TKN. TP was directly measured throughout the recorded period.

**Table 7: Selected C1 Monitoring Sites and Their Co-located USGS Stream Gage Sites**

| C1 Site ID | Location Description                                                             | USGS Stream Gage ID | USGS Stream Gage Name                   | Drainage Area (mi <sup>2</sup> ) |
|------------|----------------------------------------------------------------------------------|---------------------|-----------------------------------------|----------------------------------|
| 103031     | Red Clay Creek at Lancaster Pike (Rt. 48)                                        | 1480000             | RED CLAY CREEK AT WOODDALE, DE          | 47.0                             |
| 104021     | Brandywine River at New Bridge Rd. (Rd. 279)                                     | 1481500             | BRANDYWINE CREEK AT WILMINGTON, DE      | 314.0                            |
| 105151     | White Clay Creek at Delaware Park Blvd.                                          | 1479000             | WHITE CLAY CREEK NEAR NEWARK, DE        | 89.1                             |
| 106141     | Christina River at Sunset Lake Rd. (Rt. 72)                                      | 1478000             | CHRISTINA RIVER AT COOCHS BRIDGE, DE    | 20.5                             |
| 109251     | Appoquinimink River's tributary, Deep Creek Branch at Summit Bridge Rd. (Rt. 71) | 1483155             | SILVER LAKE TRIBUTARY AT MIDDLETOWN, DE | 1.7                              |
| 110011     | Blackbird Creek at Blackbird Station Rd. (Rd. 463)                               | 1483200             | BLACKBIRD CREEK AT BLACKBIRD, DE        | 4.1                              |
| 205191     | St. Jones River at Silver Lake at Spillway (Dover City Park)                     | 1483700             | ST JONES RIVER AT DOVER, DE             | 31.9                             |
| 208231     | Beaverdam Branch at Deep Grass Ln. (Rd. 384), Mispillion River                   | 1484100             | BEAVERDAM BRANCH AT HOUSTON, DE         | 3.0                              |
| 302034     | Marshyhope Creek at Fishers Bridge Rd. (Rd. 308)                                 | 1488500             | MARSHYHOPE CREEK NEAR ADAMSVILLE, DE    | 46.8                             |
| 304191     | Nanticoke River at Rifle Range Rd. (Rd. 545)                                     | 1487000             | NANTICOKE RIVER NEAR BRIDGEVILLE, DE    | 75.4                             |
| 308071     | Indian River at Millsboro Pond outlet at John Williams Hwy. (Rt. 24)             | 1484525             | MILLSBORO POND OUTLET AT MILLSBORO, DE  | 61.7                             |
| 310121     | Little Assawoman Bay, Beaver Dam Ditch at Beaver Dam Rd. (Rd. 368)               | 1484695             | BEAVERDAM DITCH NEAR MILLVILLE, DE      | 2.2                              |

The period of the data record used for the analysis varies from site to site and this information is listed in Table 9. For stream flow data, the record length is determined by the sampled TN and TP record length. The daily mean flow records were obtained from the USGS website (<https://maps.waterdata.usgs.gov/mapper/index.html>).

The direction of the estimated TN and TP trends are presented in Table 9, and the uncertainties of the estimates in terms of likelihood (in arrow forms) are also included. TN

shows strong improving condition at four sites in Red Clay Creek, White Clay Creek, Christina River, and Beaverdam Ditch of Little Assawoman Bay, while Blackbird Creek and Silver Lake at St. Jones River show improving condition. A worsening condition or strong upward trend was observed at three sites in Beaverdam Branch - Mispillion River, Appoquinimink River, and Marshyhope Creek. For TP, a strong improving trend was seen at three sites in White Clay Creek, Brandywine River, and Christina River, while three sites in Red Clay Creek, Blackbird Creek, and Beaverdam Branch - Mispillion River showed improving condition. A worsening condition or upward trend for TP was identified at Appoquinimink River site.

Changes in TN and TP concentrations with discharge, monthly fluctuation in TN and TP concentrations, overall discharge statistics, and estimated TN and TP trends plots for individual sites are presented in Figures F1 through F36 in Appendix F. From Figure F1 to F36, each site's changes in TN or TP concentration, changes in discharge, and trend results are represented by three figures. For example, Figures F1 through F3 highlight the Red Clay Creek Watershed. Figures F1 and F2 showed changes in TN and TP concentrations with flow (discharge) in  $\text{m}^3/\text{s}$  (top left panel), changes in TN and TP concentrations from 1998 to 2024 (top right panel), monthly variation in TN and TP concentrations over the duration (bottom left panel), changes in discharge during sampling event vs overall discharge at the station (bottom right panel). Then Figure F3 showed trend results for TN and TP in the watershed. The depiction of concentration changes with discharge, overall discharge at the site, and trends are presented accordingly for other sites in the subsequent figures.

**Table 8: Trend Analysis Results for TN and TP Concentrations at the C1 Monitoring Sites**

| C1 Site ID | Location description                                                 | Period (water year) | TN Trend |                            | TP Trend |                            |
|------------|----------------------------------------------------------------------|---------------------|----------|----------------------------|----------|----------------------------|
| 103031     | Red Clay Creek at Lancaster Pike (Rt. 48)                            | 1999 - 2024         | ↓↓       | Very Likely Downward Trend | ↓        | Likely Downward Trend      |
| 104021     | Brandywine Creek at New Bridge Rd. (Rd. 279)                         | 1999 - 2024         | ■        | No Trend                   | ↓↓       | Very Likely Downward Trend |
| 105151     | White Clay Creek at Delaware Park Blvd.                              | 1999 - 2024         | ↓↓       | Very Likely Downward Trend | ↓↓       | Very Likely Downward Trend |
| 106141     | Christina River at Sunset Lake Rd. (Rt. 72)                          | 1999 - 2024         | ■        | No Trend                   | ↓↓       | Very Likely Downward Trend |
| 109251     | Deep Creek Br. at Summit Bridge Rd. (Rt. 71), of Appoquinimink River | 2008 - 2024         | ↑↑       | Very Likely Upward Trend   | ↑↑       | Very Likely Upward Trend   |
| 110011     | Blackbird Creek at Blackbird Station Rd. (Rd. 463)                   | 2002 - 2024         | ↓        | Likely Downward Trend      | ↓        | Likely Downward Trend      |
| 205191     | Silver Lake at Spillway (Dover City Park) of St. Jones River         | 1999 - 2024         | ↓        | Likely Downward Trend      | ↑        | Likely Upward Trend        |
| 208231     | Beaverdam Branch at Deep Grass Ln. (Rd. 384), Mispillion River       | 1999 - 2024         | ↑↑       | Very Likely Upward Trend   | ↓        | Likely Downward Trend      |
| 302034     | Marshyhope Creek at Fishers Bridge Rd. (Rd. 308)                     | 1998 - 2023         | ↑↑       | Very Likely Upward Trend   | ■        | No Trend                   |
| 304191     | Nanticoke River at Rifle Range Rd. (Rd. 545)                         | 1999 - 2024         | ■        | No Trend                   | ↑        | Likely Upward Trend        |
| 308071     | Millsboro Pond at John Williams Hwy. (Rt. 24)                        | 1999 - 2024         | ■        | No Trend                   | ■        | No Trend                   |
| 310121     | Beaver Dam Ditch at Beaver Dam Rd. (Rd. 368) in Little Assawoman Bay | 1999 - 2023         | ↓↓       | Very Likely Downward Trend | ■        | No Trend                   |

The Department also performs trend analysis for nutrients at the tidal stations of the Inland Bays periodically. The last analysis was carried out in 2020 using the Generalized Additive Model (GAM). Detailed explanation of the statistical methods and models for Generalized Additive Model to Analyze Long Term Total Nitrogen and Phosphorus Concentrations can be found in the 2020 Integrated Report, while the summary is as follows:

*The Generalized Additive Model (GAM) was used to analyze long term (1998 – 2019) TN and TP trends in the fourteen tidal stations of Inland Bays. TN concentrations were decreasing in most of the stations except in station 306181 at Swan Creek. Decreasing trends of TN and TP in tidal stations of the Inland Bays can be attributed to full implementation of the requirements of the Inland Bays TMDLs for point sources and its partial implementation for the nonpoint sources. Even though TN concentration were decreasing, four of the stations' concentration were higher than the target value of 1 mg/L in Inland Bays, whereas some of the stations' recent years concentrations were higher than target value. The trend of TP concentration followed the flow pattern. TP concentrations in most of the stations were higher during peak flow, thus were cyclic in nature following flow events throughout the twenty years. Similar to TN concentrations, TP concentrations in recent years in some of the stations were higher than the target value*

of 0.1 mg/L. Linear regression modeling techniques are more frequently used to identify long term trends in the water quality data, which sometime miss the temporal cycling trend or temporal changes in the data. GAM analysis of tidal stations data with the inclusion of smooth functions allows the model shapes from linear to nonlinear, including patterns that changes direction over time, thus helped to identify changes of concentration over time in the Inland Bays.

#### 4.5 Long Term Changes in Water Quality Parameters

The abstract from Paudel and Brown's 2022 paper "Long Term (1998–2019) Changes in Water Quality Parameters as a Function of Freshwater Inflow in a River–Bay Continuum" highlights a study conducted to understand long-term changes in water quality as a function of freshwater inflow in Inland Bays. The full manuscript and analysis can be found at this URL: <https://doi.org/10.3390/hydrology9080138>.

*"Freshwater inflow is important in transporting nutrients to a bay. We hypothesized that freshwater inflow was transporting dissolved nitrogen and phosphorus to the Delaware's Inland Bays. We analyzed long term (1998- 2019) water quality data collected from Indian River, Indian River Bay, Lewes-Rehoboth Canal, Little Assawoman Bay and Rehoboth Bay watersheds. Freshwater inflow altered nitrite+nitrate (N-NO<sub>2</sub>\_3) concentrations in all but Lewes-Rehoboth Canal watershed, whereas phosphate (P-PO<sub>4</sub>) concentrations in all watersheds were altered by freshwater inflow and metabolic processes in the water. The average N-NO<sub>2</sub>\_3 and P-PO<sub>4</sub> were higher than the standard (0.14 and 0.01 mg/L for N-NO<sub>2</sub>\_3+NH<sub>4</sub>-N and P-PO<sub>4</sub>, respectively) for growing seasons (March-October) i.e., 0.83±0.14 & 0.09 mg/L in Indian River; 0.79±0.10 & 0.06 mg/L in Indian River Bay; 0.21±0.15 & 0.09 mg/L in Lewes- Rehoboth Canal; 0.49±0.10 & 0.11 mg/L in Little Assawoman Bay; 1.0±0.08 & 0.06 mg/L in Rehoboth Bay. Average total suspended solids in the Indian River (33 mg/L), Indian River Bay (22 mg/L), and Lewes-Rehoboth Canal (31 mg/L) were higher than the standard concentrations, i.e., 20 mg/L for the Inland Bays. With the evidence of higher dissolved nutrients and low dissolved oxygen concentrations, need for nutrient load reduction and water quality monitoring are paramount for the sustainable management of Inland Bays."*

#### 4.6 Groundwater Assessment

A groundwater data report "Re-assessment of water quality from potable wells in the surficial aquifer in the Indian River Bay watershed, Sussex County, Delaware: Results of sampling, 2024, with comparisons to previous sampling in 2001–2003" has been submitted to U.S. EPA Region 3 pursuant to 305(b) reporting obligations for groundwater quality. This report, received from the Division of Water is included in IR2026 as Appendix G to supplement the Department's overall 305(b) assessment. This information cannot be utilized in surface water assessments conducted for the IR but can serve as supplemental information about water quality conditions in that watershed.

The Division of Water has been working to establish a new and improved framework for the systematic characterization of spatial, temporal, and aquifer-specific trends in ambient groundwater quality. The new framework puts a focus on the surficial aquifer, and the water-quality data collected from domestic wells in the Indian River Bay watershed are in alignment with this objective.

The reassessment showed that groundwater in this watershed remained diluted, slightly acidic, and dominated by calcium, magnesium, and sodium cations balanced by chloride, bicarbonate, and nitrate anions. Most of the samples were oxic, with low iron concentrations, and reflected geochemical conditions shaped by both natural processes and anthropogenic inputs. The report also highlights slight improvement in nitrate contamination with concentrations

exceeding the U.S. EPA's Primary Maximum Contaminant Level (10 mg/L) in 25.5% of wells in 2024 compared to 32% in 2001–2003. This indicates localized improvement but persistent nonpoint-source influence.

## 5. Public Participation

The Department informs the public regarding process and progress of this Integrated Report using its website, an email list of interested parties and public notices placed in local newspapers. Interested parties have 30 days from the start of the public notice process (March 4<sup>th</sup>, 2026) to provide comments via email. Key comments will be excerpted with the Department's responses in bold italics below.

Original public comments will be included in Appendix I.

## 6. References

- Martha Corrozi Narvaez and Gerald Kauffman. 2012. "Economic Benefits and Jobs Provided by Delaware Watersheds". University of Delaware Institute for Public Administration, Newark, DE. Available at: <https://www.wrc.udel.edu/wp-content/uploads/2021/02/Economic-Benefits-and-Jobs-from-Delaware-Watersheds-2012.pdf>
- National Oceanic and Atmospheric Administration (NOAA), Office for Coastal Management. 2024. "NOAA Regional and State Report on the U.S. Marine Economy.", Charleston, SC: NOAA Office for Coastal Management. Available at: <https://coast.noaa.gov/data/digitalcoast/pdf/econ-report-regional-state.pdf>
- University of Delaware Water Resources Agency 2016. "Economic Benefits of Improved Water Quality in Delaware", Newark, Delaware.



## Appendices

The following appendices contain supplemental materials that support the 2026 Integrated Report.

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## Appendix A: Assessment Unit and Stations Associations

Table A1: Assessment Unit Coding System

Reference table showing the major assessment group coding in relation to Delaware's major basins and historic watersheds. The number associated with the historic watershed name corresponds to a location on the watershed map.

| Major Basin    | Historic Watershed (Number) | Major AU Grouping |
|----------------|-----------------------------|-------------------|
| Piedmont       | Brandywine Creek (3)        | DE040             |
|                | Christina River (6)         | DE120             |
|                | Naamans Creek (1)           | DE230             |
|                | Red Clay Creek (4)          | DE260             |
|                | Shellpot Creek (2)          | DE300             |
|                | White Clay Creek (5)        | DE320             |
| Chesapeake Bay | Broad Creek (35)            | DE050             |
|                | C&D West (25)               | DE090             |
|                | C&D West (25)               | DE100             |
|                | Bohenia Creek (26)          | DE100             |
|                | Sasafrass River (27)        | DE100             |
|                | Chester River (28)          | DE100             |
|                | Choptank River (29)         | DE110             |
|                | Marshyhope Creek (30)       | DE200             |
|                | Nanticoke River (31)        | DE240             |
|                | Gum Branch (32)             | DE240             |
|                | Gravelly Branch (33)        | DE240             |
|                | Deep Creek (34)             | DE240             |
|                | Pocomoke River (37)         | DE250             |
| Delaware Bay   | Appoquinimink River (12)    | DE010             |
|                | Army Creek (8)              | DE020             |
|                | Blackbird Creek (13)        | DE030             |
|                | Broadkill River (22)        | DE060             |
|                | Cedar Creek (21)            | DE080             |
|                | C&D East (11)               | DE090             |
|                | Dragon Run Creek (10)       | DE130             |
|                | Leipsic River (16)          | DE160             |
|                | Broadkill River (22)        | DE170             |
|                | Little River/Creek (17)     | DE190             |
|                | Misphillion River (20)      | DE210             |
|                | Murderkill River (19)       | DE220             |
|                | Red Lion Creek (9)          | DE270             |
|                | Saint Jones River (18)      | DE290             |
|                | Smyrna River (15)           | DE310             |
|                | Delaware River (7)          | DE330             |

| Major Basin | Historic Watershed (Number)   | Major AU Grouping |
|-------------|-------------------------------|-------------------|
|             | Delaware Bay (14)             | DE340             |
| Inland Bays | Buntings Branch (43)          | DE070             |
|             | Indian River (40)             | DE140             |
|             | Indian River Bay (42)         | DE140             |
|             | Iron Branch (41)              | DE150             |
|             | Lewes and Rehoboth Canal (38) | DE170             |
|             | Little Assawoman Bay (45)     | DE180             |
|             | Rehoboth Bay (39)             | DE280             |
|             | Assawoman Bay (44)            | DE350             |

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Figure A1: Delaware's Historic Watersheds.

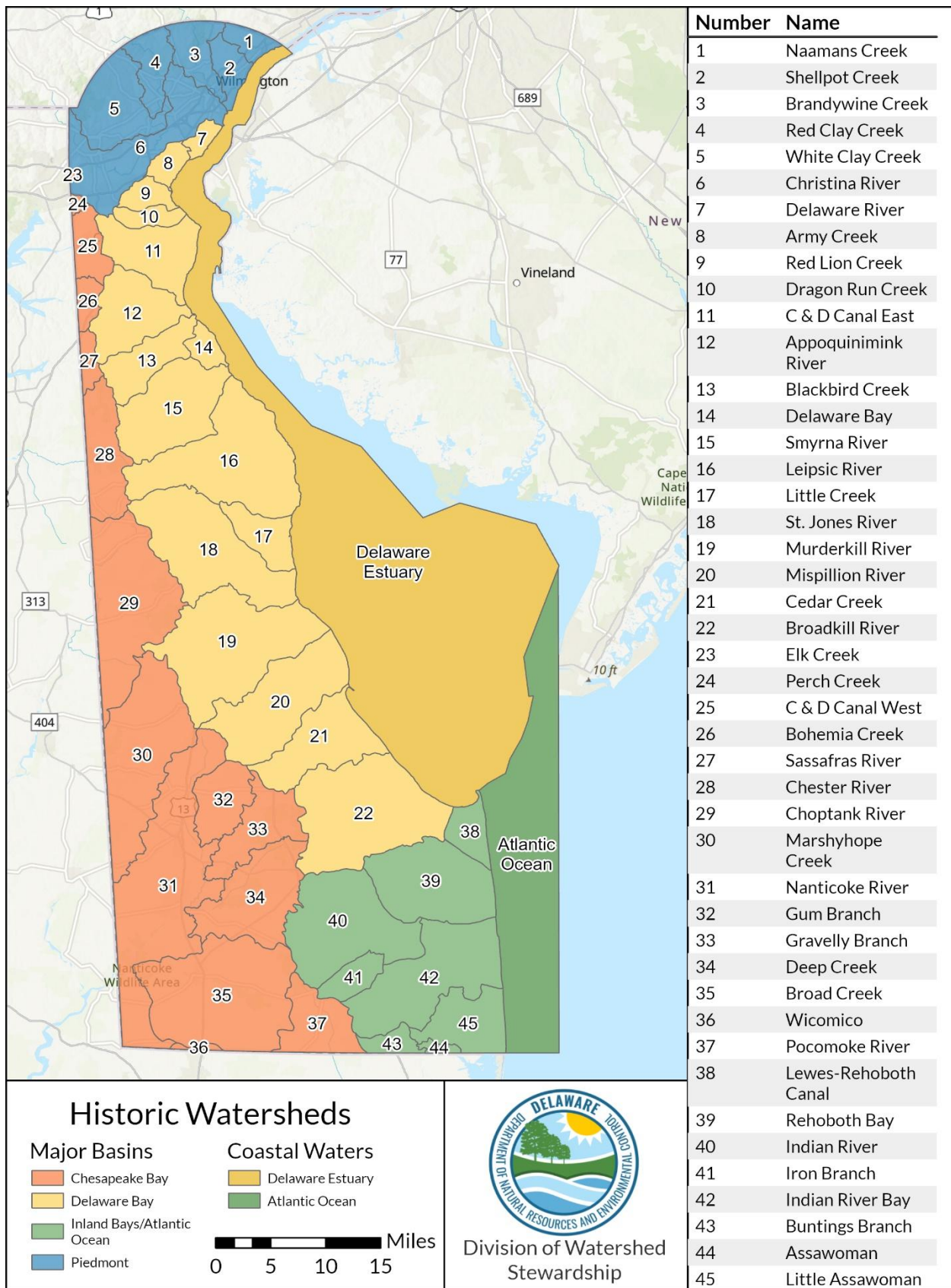


Table A2: Assessment Unit Descriptions

Reference table showing assessment units, water type and location descriptions.

| Assessment Unit ID | Assessment Unit Name                             | Location Description                                                                                           | Water Type          | Size  | Units |
|--------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------|-------|-------|
| DE010-001-01       | Lower Appoquinimink River                        | Saline Tidal Reach, excluding Hangman's Run                                                                    | STREAM/CREEK/RIVER  | 4.5   | Miles |
| DE010-001-02       | Upper Appoquinimink River                        | Freshwater Tidal Reach                                                                                         | STREAM/CREEK/RIVER  | 5.3   | Miles |
| DE010-001-03-01    | Drawyer Creek                                    | From the headwaters of Drawyer Creek to the confluence with the Appoquinimink River, including Shallcross Lake | STREAM/CREEK/RIVER  | 2.1   | Miles |
| DE010-001-03-02    | Drawyer Creek                                    | Tributary of Drawyer Creek--from the confluence of the headwaters to the confluence with the mainstem          | STREAM/CREEK/RIVER  | 2.2   | Miles |
| DE010-001-03-03    | Drawyer Creek                                    | Western tributary of the headwaters of Drawyer Creek to its confluence                                         | STREAM/CREEK/RIVER  | 2.3   | Miles |
| DE010-001-03-04    | Drawyer Creek                                    | Tidal Portion                                                                                                  | STREAM/CREEK/RIVER  | 4.5   | Miles |
| DE010-002-01-01    | Wiggins Mill Pond to confluence with Silver Lake | From the headwaters of Wiggins Mill Pond to the confluence with Noxontown Pond                                 | STREAM/CREEK/RIVER  | 2.2   | Miles |
| DE010-002-01-02    | Wiggins Mill Pond to confluence with Silver Lake | From the confluence of the headwaters of Wiggins Mill Pond to the confluence with Noxontown Pond               | STREAM/CREEK/RIVER  | 1.4   | Miles |
| DE010-002-02-01    | Deep Creek to confluence with Silver Lake        | From the headwaters of Deep Creek to confluence with Silver Lake, excluding Silver Lake                        | STREAM/CREEK/RIVER  | 2.4   | Miles |
| DE010-002-02-02    | Deep Creek to confluence with Silver Lake        | First western tributary after the headwaters of Silver Lake                                                    | STREAM/CREEK/RIVER  | 2.2   | Miles |
| DE010-002-02-03    | Deep Creek to confluence with Silver Lake        | Deep Creek. -- from the confluence of the headwaters to Appoquinimink River                                    | STREAM/CREEK/RIVER  | 1.8   | Miles |
| DE010-L01          | Noxontown Pond                                   | Pond southwest of Odessa                                                                                       | LAKE/RESERVOIR/POND | 178.3 | Acres |
| DE010-L02          | Silver Lake                                      | Lake adjacent to Middletown, below Deep Creek                                                                  | LAKE/RESERVOIR/POND | 41.3  | Acres |
| DE010-L03          | Shallcross Lake                                  | Lake above Drawyer Creek                                                                                       | LAKE/RESERVOIR/POND | 50.1  | Acres |

| Assessment Unit ID | Assessment Unit Name                                                                                    | Location Description                                                                              | Water Type         | Size | Units |
|--------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE020-001-01       | Lower Army Creek                                                                                        | Segment from Route 13 to mouth at Delaware River tidal freshwater segment                         | STREAM/CREEK/RIVER | 2.4  | Miles |
| DE020-002          | Upper Army Creek                                                                                        | Nontidal segment from headwaters to Route 13                                                      | STREAM/CREEK/RIVER | 1.3  | Miles |
| DE020-003-01       | Lower Army Creek                                                                                        | First tributary on Army Creek after the headwaters                                                | STREAM/CREEK/RIVER | 0.8  | Miles |
| DE020-003-02       | Tributary to Army Creek                                                                                 | Unnamed Tributary to Army Creek, monitored by STORET station 114051                               | STREAM/CREEK/RIVER | 0.7  | Miles |
| DE020-003-03       | Tributary to Army Creek                                                                                 | Unnamed Tributary to Army Creek monitored by STORET Station 114041                                | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE030-001          | Lower Blackbird                                                                                         | Tidal segment from Route 13 to mouth of the Delaware River                                        | STREAM/CREEK/RIVER | 12.5 | Miles |
| DE030-002-01       | Upper Blackbird                                                                                         | Nontidal segment from headwaters to Route 13                                                      | STREAM/CREEK/RIVER | 0.9  | Miles |
| DE030-002-02       | Upper Blackbird                                                                                         | First eastern tributary after the headwaters to the confluence with Blackbird Creek               | STREAM/CREEK/RIVER | 2.5  | Miles |
| DE030-002-03       | Upper Blackbird                                                                                         | Upper Blackbird Creek--from the confluence of the headwaters to the confluence with Barlow Branch | STREAM/CREEK/RIVER | 3.5  | Miles |
| DE030-003          | Sandom Branch tributaries on the mainstem                                                               | Sandom Branch to the confluence with Blackbird Creek (upper half)                                 | STREAM/CREEK/RIVER | 1.2  | Miles |
| DE040-001          | Lower Brandywine                                                                                        | Mainstem Lower Brandywine                                                                         | STREAM/CREEK/RIVER | 3.8  | Miles |
| DE040-002-01       | Upper Brandywine                                                                                        | From State Line to Wilmington                                                                     | STREAM/CREEK/RIVER | 6.9  | Miles |
| DE040-003-01       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Eastern tributary of Beaver Creek, from headwaters to the confluence with mainstem Beaver Creek   | STREAM/CREEK/RIVER | 2.4  | Miles |
| DE040-003-02       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Tributary originating in Pennsylvania on the western side of Brandywine Creek                     | STREAM/CREEK/RIVER | 0.7  | Miles |

| Assessment Unit ID | Assessment Unit Name                                                                                    | Location Description                                                                             | Water Type         | Size | Units |
|--------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE040-003-03       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Tributary of Brandywine Creek, off Route 100 (near PA-DE border)                                 | STREAM/CREEK/RIVER | 1.4  | Miles |
| DE040-003-04       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Tributary of Brandywine Creek just below Beaver Creek                                            | STREAM/CREEK/RIVER | 0.5  | Miles |
| DE040-003-05       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Eastern tributary of the headwaters of Rocky Run (upper half)                                    | STREAM/CREEK/RIVER | 1.0  | Miles |
| DE040-003-06       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Eastern tributary of the headwaters of Rocky Run (lower half)                                    | STREAM/CREEK/RIVER | 1.0  | Miles |
| DE040-003-07       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | From the confluence of the headwaters of Wilson Run to the next larger stream order (lower half) | STREAM/CREEK/RIVER | 0.7  | Miles |
| DE040-003-08       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | From the confluence of the headwaters of Wilson Run to the next larger stream order (upper half) | STREAM/CREEK/RIVER | 1.5  | Miles |
| DE040-003-09       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Wilson Run, from start of the third order stream to the confluence with Brandywine Creek         | STREAM/CREEK/RIVER | 1.0  | Miles |
| DE040-003-10       | Brandywine Creek tributary from the headwaters at PA-DE line to the confluence with the Christina River | Tributary of Wilson Run on Montchanin Road from the headwaters to the first confluence           | STREAM/CREEK/RIVER | 0.5  | Miles |

| Assessment Unit ID | Assessment Unit Name | Location Description                                                                                          | Water Type         | Size | Units |
|--------------------|----------------------|---------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE050-001-01       | Lower Broad Creek    | Lower Broad Creek, including Collins and Culvert Ditch, Holly Ditch, and Rossakatum and Cooper Branches       | STREAM/CREEK/RIVER | 22.3 | Miles |
| DE050-001-02       | Lower Broad Creek    | Cooper Branch--from the start of the third order stream on Rossakatum Branch to the confluence of Broad Creek | STREAM/CREEK/RIVER | 2.6  | Miles |
| DE050-002-01       | Tussocky Branch      | Tributary west of Laurel, excluding Portsville and Tussock Ponds                                              | STREAM/CREEK/RIVER | 4.0  | Miles |
| DE050-002-02       | Tussocky Branch      | Tussocky Branch--from the confluence of Mill Creek to the confluence with Broad Creek                         | STREAM/CREEK/RIVER | 3.0  | Miles |
| DE050-003          | Little Creek         | Tributary south of Laurel, excluding Horsey's Pond                                                            | STREAM/CREEK/RIVER | 2.4  | Miles |
| DE050-004-01       | Chipman Pond Branch  | Tributary northeast of Laurel, excluding Chipman Pond                                                         | STREAM/CREEK/RIVER | 5.9  | Miles |
| DE050-004-02       | Chipman Pond Branch  | Jobs Ditch--from the headwaters to the confluence with Dukes and Jobs Branch                                  | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE050-004-03       | Chipman Pond Branch  | Mirey Branch--from the start of the third order stream to the confluence with Elliott Pond Branch             | STREAM/CREEK/RIVER | 2.1  | Miles |
| DE050-004-04       | Chipman Pond Branch  | Dukes Ditch--from the headwaters to the confluence with Dukes and Jobs Branch                                 | STREAM/CREEK/RIVER | 2.5  | Miles |
| DE050-005-01       | James Branch         | James Branch, including Pepper Pond Branch, Hitch Pond Branch, and Grays Branch                               | STREAM/CREEK/RIVER | 17.8 | Miles |
| DE050-005-02-01    | Trussum Pond Branch  | From the headwaters to the confluence with James Branch, excluding Trussum Pond                               | STREAM/CREEK/RIVER | 3.2  | Miles |
| DE050-005-02-02    | Trussum Pond Branch  | Wards Branch--from the confluence of the headwaters to the confluence with James Branch                       | STREAM/CREEK/RIVER | 3.5  | Miles |



| Assessment Unit ID | Assessment Unit Name  | Location Description                                                                        | Water Type          | Size | Units |
|--------------------|-----------------------|---------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE050-006-01       | Trap Pond Branch      | From the headwaters of Trap Pond including Saunders and Thompson Branches                   | STREAM/CREEK/RIVER  | 7.2  | Miles |
| DE050-006-03       | Raccoon Prong         | Headwaters of Raccoon Pond and Trap Pond                                                    | STREAM/CREEK/RIVER  | 5.3  | Miles |
| DE050-L01          | Portsville Pond       | Pond west of Laurel on Tussocky Branch                                                      | LAKE/RESERVOIR/POND | 17.6 | Acres |
| DE050-L02          | Tussock Pond          | Pond southwest of Laurel                                                                    | LAKE/RESERVOIR/POND | 6.3  | Acres |
| DE050-L03          | Horseys Pond          | Pond south of Laurel on Little Creek tributary                                              | LAKE/RESERVOIR/POND | 58.3 | Acres |
| DE050-L04          | Records Pond          | Pond adjacent to Laurel                                                                     | LAKE/RESERVOIR/POND | 83.9 | Acres |
| DE050-L05          | Chipman Pond          | Pond located north of Laurel on Chipman Branch                                              | LAKE/RESERVOIR/POND | 54.8 | Acres |
| DE050-L06          | Trussum Pond          | Pond southeast of Laurel on James Branch                                                    | LAKE/RESERVOIR/POND | 55.0 | Acres |
| DE050-L07          | Trap Pond             | Pond east of Laurel on Hitch Pond Branch                                                    | LAKE/RESERVOIR/POND | 94.6 | Acres |
| DE050-L08          | Raccoon Pond          | Pond east of Laurel on Hitch Pond Branch                                                    | LAKE/RESERVOIR/POND | 17.5 | Acres |
| DE060-001          | Lower Broadkill       | From the confluence with Beaver Dam Creek to mouth at Delaware Bay, excluding Red Mill Pond | STREAM/CREEK/RIVER  | 8.2  | Miles |
| DE060-002          | Beaverdam Creek       | From the headwaters to the confluence with Broadkill River                                  | STREAM/CREEK/RIVER  | 8.7  | Miles |
| DE060-003          | Upper Broadkill River | Broadkill River from below Waggamons Pond to the confluence with Beaver Dam Creek           | STREAM/CREEK/RIVER  | 4.8  | Miles |
| DE060-004          | Round Pole Branch     | Tributary from the headwaters to confluence with Upper Broadkill River                      | STREAM/CREEK/RIVER  | 4.9  | Miles |
| DE060-005-01       | Ingrams Branch        | From the headwaters to Waggamons Pond, including Diamond Pond                               | STREAM/CREEK/RIVER  | 7.6  | Miles |
| DE060-005-02       | Ingrams Branch        | Ingrams Branch-- western tributary of the headwaters                                        | STREAM/CREEK/RIVER  | 1.7  | Miles |
| DE060-006          | Pemberton Branch      | From the headwaters to Waggamons Pond                                                       | STREAM/CREEK/RIVER  | 4.5  | Miles |

| Assessment Unit ID | Assessment Unit Name                    | Location Description                                                                                                                     | Water Type          | Size  | Units |
|--------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|-------|
| DE060-007-01       | Lower Red Mill Branch                   | From Red Mill Pond to the confluence with Lower Broadkill River                                                                          | STREAM/CREEK/RIVER  | 5.9   | Miles |
| DE060-007-02-01    | Martin Branch                           | From the headwaters to Red Mill Pond                                                                                                     | STREAM/CREEK/RIVER  | 2.0   | Miles |
| DE060-007-02-02    | Martin Branch                           | Tributary above Red Mill Pond--from start of the second order stream to the confluence with Red Mill Pond                                | STREAM/CREEK/RIVER  | 0.4   | Miles |
| DE060-007-03       | Heronwood Branch                        | From the headwaters to Red Mill Pond                                                                                                     | STREAM/CREEK/RIVER  | 0.9   | Miles |
| DE060-008          | Primehook Creek                         | Entire Creek                                                                                                                             | STREAM/CREEK/RIVER  | 7.6   | Miles |
| DE060-L01          | Red Mill Pond                           | Pond located on Martin Branch                                                                                                            | LAKE/RESERVOIR/POND | 191.6 | Acres |
| DE060-L02          | Waggamons Pond                          | Pond adjacent to Milton                                                                                                                  | LAKE/RESERVOIR/POND | 41.6  | Acres |
| DE060-L03          | Waples Pond and Reynolds Pond           | Ponds located on Sowbridge Branch of Primehook Creek                                                                                     | LAKE/RESERVOIR/POND | 93.6  | Acres |
| DE070-001          | Buntings Branch                         | From the headwaters of Sandy Branch to Buntings Branch to the MD-DE State line                                                           | STREAM/CREEK/RIVER  | 4.8   | Miles |
| DE080-001          | Lower Cedar Creek                       | Tidal segment from Cedar Creek Mill Pond to mouth at Delaware Bay                                                                        | STREAM/CREEK/RIVER  | 9.4   | Miles |
| DE080-002          | Upper Cedar Creek                       | From the headwaters to Cedar Creek Mill Pond, including Church Branch and Cedar Mill Pond, Cabbage Pond, Clendaniel Pond and Hudson Pond | STREAM/CREEK/RIVER  | 12.1  | Miles |
| DE080-003          | Slaughter Creek                         | From the headwaters to The Confluence with Cedar Creek                                                                                   | STREAM/CREEK/RIVER  | 10.6  | Miles |
| DE090-001          | C&D Canal                               | C&D Canal from the MD Line to Delaware River                                                                                             | STREAM/CREEK/RIVER  | 11.9  | Miles |
| DE090-002-01       | Chesapeake & Delaware Canal tributaries | Scott Run-- from the headwaters to the confluence with Chesapeake & Delaware Canal                                                       | STREAM/CREEK/RIVER  | 5.7   | Miles |
| DE090-002-02       | Chesapeake & Delaware Canal tributaries | Crystal Run--from the headwaters to the confluence with Chesapeake & Delaware Canal                                                      | STREAM/CREEK/RIVER  | 1.8   | Miles |

| Assessment Unit ID | Assessment Unit Name                    | Location Description                                                                                   | Water Type          | Size  | Units |
|--------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------|-------|-------|
| DE090-002-03       | Chesapeake & Delaware Canal tributaries | Joy Run--from the headwaters to the confluence with Chesapeake & Delaware Canal                        | STREAM/CREEK/RIVER  | 2.6   | Miles |
| DE090-002-04       | Chesapeake & Delaware Canal tributaries | Eastern tributary on Lums Pond--from the headwaters to the confluence with Lums Pond                   | STREAM/CREEK/RIVER  | 0.4   | Miles |
| DE090-002-05       | Chesapeake & Delaware Canal tributaries | Unnamed Tributary referred to as "Southsat Creek," outflowing from Lums Pond to C&D Canal              | STREAM/CREEK/RIVER  | 0.8   | Miles |
| DE090-L01          | Lums Pond                               | Pond south of Newark                                                                                   | LAKE/RESERVOIR/POND | 197.6 | Acres |
| DE100-001-01       | Cypress Branch, including tributaries   | Mainstem                                                                                               | STREAM/CREEK/RIVER  | 2.9   | Miles |
| DE100-001-02       | Cypress Branch, including tributaries   | Cypress Branch--from the confluence of Black Stallion Ditch to the MD-DE line                          | STREAM/CREEK/RIVER  | 2.6   | Miles |
| DE100-001-03       | Cypress Branch, including tributaries   | Tributary of Cypress Branch--from the confluence of the headwaters to the confluence with the mainstem | STREAM/CREEK/RIVER  | 1.5   | Miles |
| DE100-002-01       | Sewell Branch, including tributaries    | Mainstem                                                                                               | STREAM/CREEK/RIVER  | 4.5   | Miles |
| DE100-002-02       | Sewell Branch, including tributaries    | From the confluence of the headwaters to the confluence with Sewell Branch                             | STREAM/CREEK/RIVER  | 0.9   | Miles |
| DE100-003-01       | Gravelly Run, including tributaries     | Mainstem                                                                                               | STREAM/CREEK/RIVER  | 1.6   | Miles |
| DE100-003-02       | Gravelly Run, including tributaries     | Gravelly Run--from the confluence of Jamison Branch to the MD-DE line                                  | STREAM/CREEK/RIVER  | 1.1   | Miles |
| DE100-003-03       | Gravelly Run, including tributaries     | Tributary of Gravelly Run--from the headwaters to the confluence with the mainstem                     | STREAM/CREEK/RIVER  | 0.7   | Miles |

| Assessment Unit ID | Assessment Unit Name                | Location Description                                                                                    | Water Type         | Size | Units |
|--------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE100-003-04       | Gravelly Run, including tributaries | Tributary of Gravelly Run--first western tributary upstream of Gravelly Run                             | STREAM/CREEK/RIVER | 1.3  | Miles |
| DE100-003-05       | Gravelly Run, including tributaries | Tributary of Gravelly Run--second eastern tributary from the headwaters of Gravelly Run to the mainstem | STREAM/CREEK/RIVER | 1.3  | Miles |
| DE100-003-06       | Gravelly Run, including tributaries | Gravelly Run--from the start of the third order stream to the confluence with Jamison Branch            | STREAM/CREEK/RIVER | 1.0  | Miles |
| DE100-004-01       | Elk River tributaries               | First eastern tributary after the headwaters of Great Bohemia Creek                                     | STREAM/CREEK/RIVER | 1.6  | Miles |
| DE100-004-02       | Elk River tributaries               | Eastern tributary of the headwaters of Back Creek to its confluence                                     | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE100-005-01       | Sassafras River tributaries         | Western tributary of the headwaters of Sassafras River to its confluence                                | STREAM/CREEK/RIVER | 2.3  | Miles |
| DE100-005-02       | Sassafras River tributaries         | From the confluence of the headwaters of Sassafras River to the next larger stream order                | STREAM/CREEK/RIVER | 1.2  | Miles |
| DE110-001-01       | Tappahanna Ditch                    | Mainstem                                                                                                | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE110-001-02       | Tappahanna Ditch                    | From start of the fourth order stream to the confluence with Tidy Island Creek                          | STREAM/CREEK/RIVER | 3.3  | Miles |
| DE110-001-03       | Tappahanna Ditch                    | Start of third order stream on Tappahanna Ditch to the confluence of the next larger stream order       | STREAM/CREEK/RIVER | 3.0  | Miles |
| DE110-001-04       | Tappahanna Ditch                    | First western tributary after the headwaters of Tappahanna Ditch to its confluence                      | STREAM/CREEK/RIVER | 0.9  | Miles |
| DE110-001-05       | Tappahanna Ditch                    | Tidy Island Creek--from the confluence with Tappahanna Ditch to the MD-DE line                          | STREAM/CREEK/RIVER | 0.6  | Miles |

| Assessment Unit ID | Assessment Unit Name | Location Description                                                                                         | Water Type         | Size | Units |
|--------------------|----------------------|--------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE110-001-06       | Tappahanna Ditch     | Choptank River--from the start of the third order stream to the confluence with Choptank River               | STREAM/CREEK/RIVER | 0.9  | Miles |
| DE110-001-07       | Tappahanna Ditch     | Seventh eastern tributary upstream of Tappahanna Ditch                                                       | STREAM/CREEK/RIVER | 1.4  | Miles |
| DE110-001-08       | Tappahanna Ditch     | Tributary of Tappahanna Ditch--western tributary of the headwaters to its confluence                         | STREAM/CREEK/RIVER | 0.3  | Miles |
| DE110-001-09       | Tappahanna Ditch     | Second western tributary after the headwaters of Tappahanna Ditch to its confluence                          | STREAM/CREEK/RIVER | 0.8  | Miles |
| DE110-002-02       | Culbreth Marsh Ditch | Luther Marvel Prong--from the confluence of the headwaters to the confluence with Culbreth Marsh Ditch       | STREAM/CREEK/RIVER | 1.2  | Miles |
| DE110-002-03       | Culbreth Marsh Ditch | From the confluence of Powell Ditch to the confluence with Ross Prong                                        | STREAM/CREEK/RIVER | 1.3  | Miles |
| DE110-002-04       | Culbreth Marsh Ditch | Culbreth Marsh Ditch--from start of the fourth order stream to the confluence with Mud Millpond (lower half) | STREAM/CREEK/RIVER | 1.7  | Miles |
| DE110-002-05       | Culbreth Marsh Ditch | Culbreth Marsh Ditch--from start of the fourth order stream to the confluence with Mud Millpond (upper half) | STREAM/CREEK/RIVER | 2.0  | Miles |
| DE110-002-06       | Culbreth Marsh Ditch | Culbreth Marsh Ditch--from the confluence of Ross Prong to the confluence with the next larger stream order  | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE110-002-07       | Culbreth Marsh Ditch | Culbreth Marsh Ditch--from the confluence of Mud Millpond to the confluence of Cow Marsh Creek               | STREAM/CREEK/RIVER | 2.0  | Miles |
| DE110-002-08       | Culbreth Marsh Ditch | Third western tributary upstream of Culbreth Marsh Ditch                                                     | STREAM/CREEK/RIVER | 1.8  | Miles |

| Assessment Unit ID | Assessment Unit Name | Location Description                                                                                                   | Water Type         | Size | Units |
|--------------------|----------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE110-002-09       | Culbreth Marsh Ditch | Ross Prong--from the confluence of the headwaters to the confluence with Culbreth Marsh Ditch                          | STREAM/CREEK/RIVER | 2.6  | Miles |
| DE110-003-01       | Cow Marsh Creek      | Mainstem                                                                                                               | STREAM/CREEK/RIVER | 1.6  | Miles |
| DE110-003-02       | Cow Marsh Creek      | First upstream tributary on Meredith Branch                                                                            | STREAM/CREEK/RIVER | 0.4  | Miles |
| DE110-003-03       | Cow Marsh Creek      | From the confluence of the headwaters of Sangston Prong to the confluence Gravelly Branch                              | STREAM/CREEK/RIVER | 2.0  | Miles |
| DE110-003-04       | Cow Marsh Creek      | Tributary of Gary Mill Pond Branch--from the confluence of the headwaters to the confluence with Gary Mill Pond Branch | STREAM/CREEK/RIVER | 0.5  | Miles |
| DE110-003-05       | Cow Marsh Creek      | First eastern tributary after the headwaters of Wildcat Branch                                                         | STREAM/CREEK/RIVER | 0.9  | Miles |
| DE110-003-06       | Cow Marsh Creek      | Willow Grove Prong--from the start of the third order stream to the confluence with Cow Marsh Creek                    | STREAM/CREEK/RIVER | 1.2  | Miles |
| DE110-003-07       | Cow Marsh Creek      | Tributary of Cow Marsh Creek--first eastern tributary upstream of Cow Marsh Creek                                      | STREAM/CREEK/RIVER | 1.4  | Miles |
| DE110-003-08       | Cow Marsh Creek      | Cow Marsh Ditch--from start of third order stream to the confluence with Cow Marsh Creek                               | STREAM/CREEK/RIVER | 1.4  | Miles |
| DE110-003-09       | Cow Marsh Creek      | Cow Marsh Ditch--from the confluence of the headwaters to the confluence with the next larger stream order             | STREAM/CREEK/RIVER | 1.6  | Miles |
| DE110-003-10       | Cow Marsh Creek      | Bullock Prong--mainstem to the confluence with Price Prong                                                             | STREAM/CREEK/RIVER | 1.5  | Miles |
| DE110-003-11       | Cow Marsh Creek      | Third tributary upstream of Cow Marsh Ditch--from the headwaters to the confluence with Cow Marsh Ditch                | STREAM/CREEK/RIVER | 2.4  | Miles |

| Assessment Unit ID | Assessment Unit Name  | Location Description                                                                                                   | Water Type          | Size | Units |
|--------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE110-003-12       | Cow Marsh Creek       | Iron Mine Prong--from the confluence of Black Swamp to the next larger stream order                                    | STREAM/CREEK/RIVER  | 4.1  | Miles |
| DE110-003-13       | Cow Marsh Creek       | Meredith Branch--from the start of the third stream order to the confluence with the next larger stream order          | STREAM/CREEK/RIVER  | 2.2  | Miles |
| DE110-003-14       | Cow Marsh Creek       | White Marsh Branch--from the start of the third order stream to the confluence with Gravelly Branch and Sangston Prong | STREAM/CREEK/RIVER  | 3.1  | Miles |
| DE110-003-15       | Cow Marsh Creek       | Cow Marsh Creek--from the confluence of Iron Mine Prong to the confluence with Choptank River                          | STREAM/CREEK/RIVER  | 5.0  | Miles |
| DE110-L01          | Mud Mill Pond         | Pond south of Marydel                                                                                                  | LAKE/RESERVOIR/POND | 39.8 | Acres |
| DE120-001          | Lower Christina River | Mainstem Lower Christina River                                                                                         | STREAM/CREEK/RIVER  | 1.7  | Miles |
| DE120-002          | Mid Christina River   | Between White Clay Creek and Brandywine River                                                                          | STREAM/CREEK/RIVER  | 7.0  | Miles |
| DE120-003-01       | Upper Christina River | Mainstem Upper Christina River                                                                                         | STREAM/CREEK/RIVER  | 6.6  | Miles |
| DE120-003-02-01    | Lower Christina Creek | Tributary from Smalleys Pond overflow to White Clay Creek                                                              | STREAM/CREEK/RIVER  | 1.0  | Miles |
| DE120-003-03       | Upper Christina River | Tributary downstream of Smalleys Pond on the Christina River                                                           | STREAM/CREEK/RIVER  | 0.7  | Miles |
| DE120-004-01       | Lower Christina Creek | Mainstem Lower Christina Creek                                                                                         | STREAM/CREEK/RIVER  | 3.0  | Miles |
| DE120-004-02       | Lower Christina Creek | From the confluence of West Branch Christina River to the confluence with the mainstem                                 | STREAM/CREEK/RIVER  | 6.7  | Miles |
| DE120-004-02-01    | Belltown Run          | From the headwaters above Becks Pond to the confluence with the Christina River                                        | STREAM/CREEK/RIVER  | 4.7  | Miles |
| DE120-004-02-03    | Belltown Run          | Western tributary of the headwaters of Belltown Run to its confluence                                                  | STREAM/CREEK/RIVER  | 0.8  | Miles |

| Assessment Unit ID | Assessment Unit Name             | Location Description                                                                                                      | Water Type         | Size | Units |
|--------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE120-004-03-01    | Muddy Run                        | From the headwaters above Sunset Pond to the confluence with Belltown Run below Becks Pond                                | STREAM/CREEK/RIVER | 7.5  | Miles |
| DE120-004-03-02    | Muddy Run                        | From the headwaters of Iron Hill Run to the next larger stream order                                                      | STREAM/CREEK/RIVER | 1.5  | Miles |
| DE120-004-03-03    | Muddy Run                        | Eastern tributary of the headwaters of Iron Hill Run to the next larger stream order                                      | STREAM/CREEK/RIVER | 0.5  | Miles |
| DE120-004-03-04    | Muddy Run                        | Eastern tributary above Sunset Pond to the confluence of the next larger stream order                                     | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE120-005-01       | West Branch                      | West Branch including Persimmon Run and Stine Haskell Branch                                                              | STREAM/CREEK/RIVER | 3.2  | Miles |
| DE120-006-01       | Upper Christina Creek            | Mainstem Upper Christina Creek                                                                                            | STREAM/CREEK/RIVER | 1.4  | Miles |
| DE120-006-02       | Upper Christina Creek            | From the confluence of the headwaters of Upper Christina River to the confluence of West Branch                           | STREAM/CREEK/RIVER | 4.8  | Miles |
| DE120-006-03       | Upper Christina Creek            | First western tributary after the headwaters of the Upper Christina River to mainstem Upper Christina River ( upper half) | STREAM/CREEK/RIVER | 0.5  | Miles |
| DE120-006-04       | Upper Christina Creek            | First western tributary after the headwaters of the Upper Christina River to mainstem Upper Christina River ( lower half) | STREAM/CREEK/RIVER | 0.4  | Miles |
| DE120-007-01-01    | Little Mill Creek and Willow Run | From the confluence of Willow Run and Chestnut Run to the confluence with the Christina River                             | STREAM/CREEK/RIVER | 0.5  | Miles |
| DE120-007-01-02    | Little Mill Creek and Willow Run | First western tributary after the headwaters of Little Mill Creek to the confluence with mainstem Little Mill Creek       | STREAM/CREEK/RIVER | 1.9  | Miles |



| Assessment Unit ID | Assessment Unit Name             | Location Description                                                                                  | Water Type          | Size | Units |
|--------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE120-007-01-03    | Little Mill Creek and Willow Run | From the headwaters of Willow Run to the confluence with the Christina River                          | STREAM/CREEK/RIVER  | 0.3  | Miles |
| DE120-007-01-04    | Little Mill Creek and Willow Run | From the confluence of the headwaters of Little Mill Creek to the confluence of Chestnut Run          | STREAM/CREEK/RIVER  | 2.9  | Miles |
| DE120-007-01-05    | Little Mill Creek and Willow Run | Little Mill Creek--from the confluence of Chestnut Run to the confluence with the Christina River     | STREAM/CREEK/RIVER  | 3.5  | Miles |
| DE120-007-02-01    | Chestnut Run                     | From the headwaters of Chestnut Run to the confluence with the Christina River                        | STREAM/CREEK/RIVER  | 1.3  | Miles |
| DE120-007-02-02    | Chestnut Run                     | Eastern tributary of the headwaters of Chestnut Run to the confluence of the next larger stream order | STREAM/CREEK/RIVER  | 1.0  | Miles |
| DE120-007-02-03    | Chestnut Run                     | Left tributary of the headwaters of Chestnut Run to the confluence of the next larger stream order    | STREAM/CREEK/RIVER  | 0.4  | Miles |
| DE120-L01          | Smalleys Pond                    | Smalleys Pond east of Newark                                                                          | LAKE/RESERVOIR/POND | 17.6 | Acres |
| DE120-L02          | Becks Pond                       | Becks Pond southeast of Newark                                                                        | LAKE/RESERVOIR/POND | 27.8 | Acres |
| DE120-L03          | Sunset Pond                      | Sunset Pond south of Newark                                                                           | LAKE/RESERVOIR/POND | 45.5 | Acres |
| DE130-001          | Lower Dragon Run Creek           | From dam at the water supply pond to the mouth of Delaware River                                      | STREAM/CREEK/RIVER  | 3.2  | Miles |
| DE130-002-01       | Upper Dragon Run Creek           | From headwaters to water supply pond                                                                  | STREAM/CREEK/RIVER  | 0.4  | Miles |
| DE130-002-02       | Upper Dragon Run Creek           | From the confluence of the headwaters to the water supply dam                                         | STREAM/CREEK/RIVER  | 4.1  | Miles |
| DE140-001          | White Creek                      | Saline tidal waters extending from the north end of Assawoman Canal to the Indian River Bay           | STREAM/CREEK/RIVER  | 4.1  | Miles |

| Assessment Unit ID | Assessment Unit Name                | Location Description                                                                                                                            | Water Type         | Size | Units        |
|--------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|--------------|
| DE140-002          | Blackwater Creek                    | Saline tidal waters from the headwaters to the confluence with Indian River Bay                                                                 | STREAM/CREEK/RIVER | 7.2  | Miles        |
| DE140-003          | Pepper Creek, including tributaries | Pepper Creek including Vines Creek McCrays Branch, and Deep Hole Branch                                                                         | STREAM/CREEK/RIVER | 22.5 | Miles        |
| DE140-004          | Indian River                        | Saline tidal portion of river from Millsboro Pond to Power Plant intake                                                                         | STREAM/CREEK/RIVER | 3.9  | Miles        |
| DE140-005          | Swan Creek                          | Freshwater tidal river from the headwaters of Swan Creek to the confluence with Indian River                                                    | STREAM/CREEK/RIVER | 6.5  | Miles        |
| DE140-006          | Stockley Branch                     | From the confluence of Alms House Ditch with Stockley Branch to the confluence with Millsboro Pond                                              | STREAM/CREEK/RIVER | 4.8  | Miles        |
| DE140-007          | Eli Walls Tax Ditch                 | From the headwaters of McGee Ditch, Eli Walls Tax Ditch, and Gills Branch to the confluence with Morris Millpond                                | STREAM/CREEK/RIVER | 11.3 | Miles        |
| DE140-008          | Deep Branch, including tributary    | Deep Branch, including Peterkins Branch, White Oak Swamp Ditch, Sockorockets Ditch, Welsh Branch, and Simpler Branch                            | STREAM/CREEK/RIVER | 15.5 | Miles        |
| DE140-009-01       | Mirey Branch, including tributaries | Mirey Branch, including Sheep Pen Ditch, and Narrow Drain                                                                                       | STREAM/CREEK/RIVER | 10.7 | Miles        |
| DE140-009-02       | Mirey Branch, including tributaries | Mirey Branch-- from the confluence of the headwaters to the confluence with Sheep Pen Ditch                                                     | STREAM/CREEK/RIVER | 5.9  | Miles        |
| DE140-010          | Betts Pond Branch                   | From the headwaters of the tributaries of Ingrams Pond and Betts Pond to the confluence with Millsboro Pond, excluding Betts and Millsboro Pond | STREAM/CREEK/RIVER | 16.1 | Miles        |
| DE140-E01          | Lower Indian River Bay              | From inlet to Pepper Creek                                                                                                                      | BAY                | 12.3 | Square Miles |

| Assessment Unit ID | Assessment Unit Name                                                            | Location Description                                                                                   | Water Type          | Size  | Units        |
|--------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------|-------|--------------|
| DE140-E02          | Upper Indian River Bay                                                          | Upper portion of estuary from power plant cooling water intake to Pepper Creek, including Island Creek | BAY                 | 1.0   | Square Miles |
| DE140-L01          | Millsboro Pond                                                                  | Pond north of Millsboro                                                                                | LAKE/RESERVOIR/POND | 134.0 | Acres        |
| DE140-L02          | Betts Pond                                                                      | Pond northwest of Millsboro                                                                            | LAKE/RESERVOIR/POND | 32.9  | Acres        |
| DE140-L03          | Ingrams Pond                                                                    | Pond west of Millsboro                                                                                 | LAKE/RESERVOIR/POND | 57.3  | Acres        |
| DE140-L04          | Morris Mill Pond                                                                | Pond between Millsboro and Georgetown                                                                  | LAKE/RESERVOIR/POND | 44.2  | Acres        |
| DE150-001-01       | Iron Branch                                                                     | From the headwaters of Iron Branch and Whartons Branch to the confluence with Indian River             | STREAM/CREEK/RIVER  | 7.1   | Miles        |
| DE150-001-02       | Iron Branch                                                                     | Whartons Ditch--from the start of the third order stream to the confluence with Whartons Branch        | STREAM/CREEK/RIVER  | 3.6   | Miles        |
| DE160-001          | Lower Leipsic River                                                             | From dam at Garrisons Lake to mouth at Delaware River                                                  | STREAM/CREEK/RIVER  | 13.1  | Miles        |
| DE160-002-01       | Upper Leipsic River                                                             | From headwaters to Garrisons Lake, excluding Masseys Mill Pond                                         | STREAM/CREEK/RIVER  | 1.3   | Miles        |
| DE160-002-02       | Upper Leipsic River                                                             | From the start of the third order stream on Pinks Branch to the confluence with Garrison Lake          | STREAM/CREEK/RIVER  | 3.3   | Miles        |
| DE160-002-03       | Upper Leipsic River                                                             | Tributary of Leipsic River--from the confluence of the headwaters to the confluence with Leipsic River | STREAM/CREEK/RIVER  | 0.9   | Miles        |
| DE160-003-01       | Leipsic River tributary from the dam at Garrisons Lake to mouth at Delaware Bay | From the confluence of the headwaters of Alston Branch to the confluence Leipsic River                 | STREAM/CREEK/RIVER  | 1.7   | Miles        |
| DE160-003-02       | Leipsic River tributary from the dam at Garrisons Lake to mouth at Delaware Bay | Tributary of Leipsic River--eastern tributary of the headwaters to its confluence                      | STREAM/CREEK/RIVER  | 1.3   | Miles        |
| DE160-003-03       | Dyke Branch                                                                     | Dyke Branch from headwaters to confluence with Leipsic River                                           | STREAM/CREEK/RIVER  | 4.9   | Miles        |

| Assessment Unit ID | Assessment Unit Name     | Location Description                                                                                                   | Water Type          | Size | Units        |
|--------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------|------|--------------|
| DE160-004          | Muddy Branch             | Muddy Branch from headwaters to the confluence with Leipsic River                                                      | STREAM/CREEK/RIVER  | 7.8  | Miles        |
| DE160-L01          | Garrisons Lake           | Lake south of Smyrna                                                                                                   | LAKE/RESERVOIR/POND | 83.8 | Acres        |
| DE160-L02          | Masseys Mill Pond        | Pond south of Clayton                                                                                                  | LAKE/RESERVOIR/POND | 38.6 | Acres        |
| DE170-001          | Lewes and Rehoboth Canal | Tidal waters from the confluence of Delaware Bay to the confluence with Rehoboth Bay                                   | STREAM/CREEK/RIVER  | 9.0  | Miles        |
| DE180-001          | Little Assawoman Canal   | Saline tidal waters from the confluence with White Creek to the confluence with little Assawoman Bay                   | STREAM/CREEK/RIVER  | 4.3  | Miles        |
| DE180-002-01       | Miller Creek             | From the headwaters of Miller Creek to the confluence with Little Assawoman bay                                        | STREAM/CREEK/RIVER  | 4.1  | Miles        |
| DE180-002-02       | Miller Creek             | Beaver Dam Ditch--from the confluence of Blackwater Creek to the confluence with the next larger stream order          | STREAM/CREEK/RIVER  | 5.2  | Miles        |
| DE180-003-01       | Dirickson Creek          | From the headwaters of Dirickson Creek to the confluence with Little Assawoman bay                                     | STREAM/CREEK/RIVER  | 3.7  | Miles        |
| DE180-003-02       | Dirickson Creek          | Bearhole Ditch--from the confluence. of the headwaters to the confluence with Batson Branch                            | STREAM/CREEK/RIVER  | 2.5  | Miles        |
| DE180-003-03       | Dirickson Creek          | Agricultural Ditch--from the confluence of the headwaters to the confluence with Dirickson Creek                       | STREAM/CREEK/RIVER  | 3.0  | Miles        |
| DE180-E01          | Little Assawoman Bay     | Estuary from the confluence with Assawoman Canal to the confluence with Assawoman Bay                                  | BAY                 | 2.4  | Square Miles |
| DE190-001-01       | Lower Little River       | From the confluence of Upper Little River and Pipe Elm Branch with the Lower Little River to the mouth at Delaware Bay | STREAM/CREEK/RIVER  | 2.4  | Miles        |

| Assessment Unit ID | Assessment Unit Name                                               | Location Description                                                                                     | Water Type         | Size | Units |
|--------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE190-001-02-01    | Upper Little River                                                 | From the headwaters to the confluence with Lower Little River                                            | STREAM/CREEK/RIVER | 3.7  | Miles |
| DE190-001-02-02    | Upper Little River                                                 | Morgan Branch--from the confluence of the headwaters to the confluence with the next larger stream order | STREAM/CREEK/RIVER | 1.9  | Miles |
| DE190-001-02-03    | Upper Little River                                                 | Start of the third order stream near the headwaters of Little River to the confluence with Morgan Branch | STREAM/CREEK/RIVER | 2.1  | Miles |
| DE190-001-03       | Pipe Elm Branch                                                    | From the headwaters to the confluence with Little River                                                  | STREAM/CREEK/RIVER | 2.5  | Miles |
| DE200-001-01       | Marshyhope Creek                                                   | From the headwaters to the State Line                                                                    | STREAM/CREEK/RIVER | 3.4  | Miles |
| DE200-001-02       | Marshyhope Creek                                                   | Tributary to Black Arm Prong--third tributary upstream of Black Arm Prong                                | STREAM/CREEK/RIVER | 0.6  | Miles |
| DE200-001-03       | Marshyhope Creek                                                   | Marshyhope Creek--from the confluence of Prospect Branch to the confluence with the MD-DE line           | STREAM/CREEK/RIVER | 9.1  | Miles |
| DE200-001-04       | Marshyhope Creek                                                   | From the confluence of Black Prong and Marshyhope Ditch to the confluence of Prospect Branch             | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE200-002-01       | Marshyhope Creek tributaries from the headwaters to the State line | Marshyhope Ditch                                                                                         | STREAM/CREEK/RIVER | 2.7  | Miles |
| DE200-002-02       | Marshyhope Creek tributaries from the headwaters to the State line | First tributary upstream of Prong No. 2--from the eastern headwater to its confluence                    | STREAM/CREEK/RIVER | 1.7  | Miles |
| DE200-002-03       | Marshyhope Creek tributaries from the headwaters to the State line | Point Branch--from the headwaters to the confluence with the first tributary downstream                  | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE200-002-04       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary of Tomahawk Branch--third eastern tributary downstream of the headwaters                       | STREAM/CREEK/RIVER | 0.7  | Miles |

| Assessment Unit ID | Assessment Unit Name                                               | Location Description                                                                                         | Water Type         | Size | Units |
|--------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE200-002-05       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary of Tomahawk Branch--first eastern tributary upstream                                               | STREAM/CREEK/RIVER | 0.6  | Miles |
| DE200-002-06       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary of Salisbury Creek--from the MD-DE line to the confluence with Salisbury Creek                     | STREAM/CREEK/RIVER | 0.9  | Miles |
| DE200-002-07       | Marshyhope Creek tributaries from the headwaters to the State line | Salisbury Creek--from the start of the third order stream to the confluence with Cattail Branch (upper half) | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE200-002-08       | Marshyhope Creek tributaries from the headwaters to the State line | Salisbury Creek--from the start of the third order stream to the confluence with Cattail Branch (lower half) | STREAM/CREEK/RIVER | 0.8  | Miles |
| DE200-002-09       | Marshyhope Creek tributaries from the headwaters to the State line | Prospect Branch--western tributary of the headwaters to its confluence                                       | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE200-002-10       | Marshyhope Creek tributaries from the headwaters to the State line | Prong No. 2--from the start of the third order stream to the confluence with Bright-Haines Glade Branch      | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE200-002-11       | Marshyhope Creek tributaries from the headwaters to the State line | From the confluence of the headwaters of Green Branch to the confluence with Marshyhope Creek                | STREAM/CREEK/RIVER | 5.2  | Miles |
| DE200-002-12       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary of Salisbury Creek--from the MD-DE line to the confluence with Salisbury Creek                     | STREAM/CREEK/RIVER | 1.3  | Miles |
| DE200-002-13       | Marshyhope Creek tributaries from the headwaters to the State line | Short and Hall Ditch--from the confluence of the headwaters of with Marshyhope Creek                         | STREAM/CREEK/RIVER | 1.4  | Miles |
| DE200-002-14       | Marshyhope Creek tributaries from the headwaters to the State line | Brights Branch--from the start of the third order stream to the MD-DE line                                   | STREAM/CREEK/RIVER | 1.4  | Miles |

| Assessment Unit ID | Assessment Unit Name                                               | Location Description                                                                                                              | Water Type         | Size | Units |
|--------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE200-002-15       | Marshyhope Creek tributaries from the headwaters to the State line | Bright-Haines Glade Branch--from the start of the fourth order stream and Prospect Branch to the confluence with Marshyhope Creek | STREAM/CREEK/RIVER | 1.2  | Miles |
| DE200-002-16       | Marshyhope Creek tributaries from the headwaters to the State line | Cattail Branch--from the start of the fourth order stream to the confluence with Salisbury Creek (upper half)                     | STREAM/CREEK/RIVER | 1.5  | Miles |
| DE200-002-17       | Marshyhope Creek tributaries from the headwaters to the State line | Cattail Branch--from the start of the fourth order stream to the confluence with Salisbury Creek (lower half)                     | STREAM/CREEK/RIVER | 1.3  | Miles |
| DE200-002-18       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary to Black Arm Prong--second tributary after the headwaters                                                               | STREAM/CREEK/RIVER | 0.6  | Miles |
| DE200-002-19       | Marshyhope Creek tributaries from the headwaters to the State line | Eastern tributary of the headwaters of Cattail Branch to its confluence                                                           | STREAM/CREEK/RIVER | 0.7  | Miles |
| DE200-002-21       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary to Cattail Branch--fourth western tributary downstream of the headwaters of Cattail Branch                              | STREAM/CREEK/RIVER | 0.7  | Miles |
| DE200-002-23       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary to Cattail Branch--third western tributary upstream of Salisbury Creek                                                  | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE200-002-24       | Marshyhope Creek tributaries from the headwaters to the State line | Tributary to Tomahawk Branch--first western tributary after the headwaters                                                        | STREAM/CREEK/RIVER | 1.6  | Miles |
| DE210-001          | Lower Mispillion                                                   | From dam at Silver Lake to mouth at Delaware Bay                                                                                  | STREAM/CREEK/RIVER | 11.5 | Miles |
| DE210-002-01       | Upper Mispillion                                                   | From the headwaters to Silver Lake in Milford, excluding Silver, Haven, and Griffith Lakes; Blairs, Abbotts, and Tub Mill Ponds   | STREAM/CREEK/RIVER | 1.3  | Miles |

| Assessment Unit ID | Assessment Unit Name                                          | Location Description                                                                                  | Water Type          | Size | Units |
|--------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE210-002-02       | Upper Mispillion                                              | Tantrough Branch--from the headwaters to the confluence with Blairs Pond                              | STREAM/CREEK/RIVER  | 4.1  | Miles |
| DE210-002-03       | Upper Mispillion                                              | Beaverdam Branch--western tributary of the headwaters to its confluence                               | STREAM/CREEK/RIVER  | 3.2  | Miles |
| DE210-003          | Johnson Branch including its tributaries                      | Johnson Branch--from the confluence of the headwaters to the confluence with Haven Lake               | STREAM/CREEK/RIVER  | 5.3  | Miles |
| DE210-004          | Mispillion River tributary from the headwaters to Silver Lake | Lednum Branch---eastern tributary of the headwaters to its confluence                                 | STREAM/CREEK/RIVER  | 1.7  | Miles |
| DE210-005          | Mispillion Tributaries From Dam At Silver Lake To The Mouth   | King's Causeway Branch                                                                                | STREAM/CREEK/RIVER  | 2.2  | Miles |
| DE210-L01          | Tub Mill Pond                                                 | Pond north of Milford                                                                                 | LAKE/RESERVOIR/POND | 10.3 | Acres |
| DE210-L02          | Silver Lake                                                   | Silver Lake at Milford                                                                                | LAKE/RESERVOIR/POND | 29.0 | Acres |
| DE210-L03          | Haven Lake                                                    | Lake west of Milford; upstream of Silver Lake                                                         | LAKE/RESERVOIR/POND | 85.4 | Acres |
| DE210-L04          | Griffith Lake                                                 | Lake west of Milford; upstream of Haven Lake                                                          | LAKE/RESERVOIR/POND | 39.2 | Acres |
| DE210-L05          | Blairs Pond                                                   | Pond southwest of Milford                                                                             | LAKE/RESERVOIR/POND | 31.2 | Acres |
| DE210-L06          | Abbotts Mill Pond                                             | Pond southwest of Milford                                                                             | LAKE/RESERVOIR/POND | 15.9 | Acres |
| DE220-001          | Lower Murderkill                                              | From the confluence with Spring Creek to the mouth at Delaware Bay                                    | STREAM/CREEK/RIVER  | 7.6  | Miles |
| DE220-002-01       | Spring Creek                                                  | From the headwaters to the confluence with Murderkill River, excluding Andrews Lake and McGinnis Pond | STREAM/CREEK/RIVER  | 14.7 | Miles |
| DE220-002-02       | Spring Creek                                                  | Tributary of Hudson River--from the headwaters to the confluence with the next larger stream order    | STREAM/CREEK/RIVER  | 0.6  | Miles |
| DE220-002-03       | Spring Creek                                                  | Pratt Branch--eastern tributary of the headwaters to its confluence                                   | STREAM/CREEK/RIVER  | 0.8  | Miles |



| Assessment Unit ID | Assessment Unit Name   | Location Description                                                                                                   | Water Type          | Size | Units |
|--------------------|------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE220-002-04       | Double Run             | Double Run to the confluence with Spring Creek.                                                                        | STREAM/CREEK/RIVER  | 5.9  | Miles |
| DE220-003-01       | Mid Murderkill River   | From McCauley and Coursey Pond to the confluence with Spring Creek                                                     | STREAM/CREEK/RIVER  | 9.1  | Miles |
| DE220-003-02       | Mid Murderkill River   | Ash Gut-- from the headwaters to the confluence with the next larger stream order                                      | STREAM/CREEK/RIVER  | 1.2  | Miles |
| DE220-004-01       | Browns Branch          | From the headwaters adjacent to Harrington to the confluence with McCauley Pond                                        | STREAM/CREEK/RIVER  | 7.7  | Miles |
| DE220-004-02       | Browns Branch          | Tributary of Browns Branch-- from the confluence of the headwaters wtot he confluence with Browns Branch               | STREAM/CREEK/RIVER  | 1.8  | Miles |
| DE220-005-01       | Upper Murderkill River | From the headwaters to the confluence with Coursey pond, excluding Killens and Coursey Ponds                           | STREAM/CREEK/RIVER  | 5.9  | Miles |
| DE220-005-02       | Upper Murderkill River | Spring Branch--tributary on Coursey Pond                                                                               | STREAM/CREEK/RIVER  | 3.3  | Miles |
| DE220-005-03       | Upper Murderkill River | Fan Branch--from the headwaters to the confluence with Murderkill River                                                | STREAM/CREEK/RIVER  | 2.6  | Miles |
| DE220-005-04       | Upper Murderkill River | Tributary of Black Swamp Creek--from the headwaters to its confluence                                                  | STREAM/CREEK/RIVER  | 0.8  | Miles |
| DE220-005-05       | Upper Murderkill River | Beaver Dam Branch--from the confluence of the headwaters to the confluence with Murderkill River and Black Swamp Creek | STREAM/CREEK/RIVER  | 1.5  | Miles |
| DE220-005-06       | Upper Murderkill River | Black Swamp Creek--from the headwaters of Black Swamp to the confluence with the next larger stream order              | STREAM/CREEK/RIVER  | 1.7  | Miles |
| DE220-L01          | McGinnis Pond          | Pond east of Viola                                                                                                     | LAKE/RESERVOIR/POND | 38.3 | Acres |
| DE220-L02          | Andrews Lake           | Pond West of Frederica                                                                                                 | LAKE/RESERVOIR/POND | 20.7 | Acres |

| Assessment Unit ID | Assessment Unit Name          | Location Description                                                                                                  | Water Type          | Size | Units |
|--------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE220-L03          | Coursey Pond                  | Pond southwest of Frederica                                                                                           | LAKE/RESERVOIR/POND | 59.8 | Acres |
| DE220-L04          | Killens Pond                  | Pond southwest of Felton                                                                                              | LAKE/RESERVOIR/POND | 78.9 | Acres |
| DE220-L05          | McCauley Pond                 | Pond northeast of Harrington                                                                                          | LAKE/RESERVOIR/POND | 57.2 | Acres |
| DE230-001-01       | Lower Naamans Creek           | From the mouth at the Delaware River, upstream to the first railroad bridge crossing                                  | STREAM/CREEK/RIVER  | 0.4  | Miles |
| DE230-001-02-01    | North Branch and South Branch | Upper Naamans Creek, including all tributaries on the North Branch and South Branch                                   | STREAM/CREEK/RIVER  | 7.6  | Miles |
| DE230-001-02-02    | North Branch and South Branch | First tributary after the headwaters of South Naamans Creek to the mainstem                                           | STREAM/CREEK/RIVER  | 1.1  | Miles |
| DE240-001          | Lower Nanticoke River         | From the head of tide in Middleford to the MD-DE State line                                                           | STREAM/CREEK/RIVER  | 13.1 | Miles |
| DE240-002-01       | Upper Nanticoke River         | From the headwaters of the Nanticoke River to the head of tide at Middleford                                          | STREAM/CREEK/RIVER  | 8.9  | Miles |
| DE240-002-02       | Upper Nanticoke River         | Tributary of White Marsh Branch--first western tributary downstream of the headwaters of White Marsh Branch           | STREAM/CREEK/RIVER  | 2.3  | Miles |
| DE240-002-03       | Upper Nanticoke River         | Kent-Sussex Line Branch--from the start of the third order stream to the confluence with Nanticoke River (lower half) | STREAM/CREEK/RIVER  | 1.7  | Miles |
| DE240-002-04       | Upper Nanticoke River         | Kent-Sussex Line Branch--from the start of the third order stream to the confluence with Nanticoke River (upper half) | STREAM/CREEK/RIVER  | 1.9  | Miles |
| DE240-002-05       | Upper Nanticoke River         | Nanticoke Branch--from the confluence of Polk Branch to the confluence with Gum Branch                                | STREAM/CREEK/RIVER  | 3.4  | Miles |

| Assessment Unit ID | Assessment Unit Name  | Location Description                                                                                                        | Water Type         | Size | Units |
|--------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE240-002-06       | Upper Nanticoke River | Grubby Neck Branch--from the confluence of Polk Branch to the confluence with Gum Branch                                    | STREAM/CREEK/RIVER | 0.4  | Miles |
| DE240-002-07       | Upper Nanticoke River | Nanticoke Branch--from the confluence of Kent-Sussex Line Branch to the confluence with Cart Branch                         | STREAM/CREEK/RIVER | 4.0  | Miles |
| DE240-002-08       | Upper Nanticoke River | Nanticoke River--from the start of the third order stream to the confluence with Kent-Sussex Line Branch.                   | STREAM/CREEK/RIVER | 3.2  | Miles |
| DE240-002-09       | Upper Nanticoke River | Tributary to Marsh Branch--first eastern tributary after the headwaters to its confluence                                   | STREAM/CREEK/RIVER | 0.3  | Miles |
| DE240-003          | Clear Brook Branch    | From the headwaters of Clear Brook, Friedel Prong, and Bucks Branch to the confluence with Williams Pond                    | STREAM/CREEK/RIVER | 15.2 | Miles |
| DE240-004-01       | Deep Creek Branch     | From the headwaters above Concord Pond to the confluence with the Nanticoke River, excluding Concord Pond                   | STREAM/CREEK/RIVER | 6.4  | Miles |
| DE240-004-02       | Deep Creek Branch     | McColleys Branch--from the confluence of New Ditch to the confluence with Deep Creek                                        | STREAM/CREEK/RIVER | 2.4  | Miles |
| DE240-004-03       | Deep Creek Branch     | Deep Creek--from the start of the third order stream to the confluence with Deep Creek and McColleys Branch                 | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE240-004-04       | Deep Creek Branch     | Tyndall Branch--from the start of the third order stream on Stoney Creek to the confluence of Tyndall Branch and Deep Creek | STREAM/CREEK/RIVER | 5.6  | Miles |

| Assessment Unit ID | Assessment Unit Name                | Location Description                                                                                                         | Water Type         | Size | Units |
|--------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE240-005-01       | Gravelly Branch                     | From the headwaters of Gravelly Branch above Collins Pond to the confluence with the Nanticoke River, excluding Collins Pond | STREAM/CREEK/RIVER | 5.8  | Miles |
| DE240-005-02       | Gravelly Branch                     | Prong No. 1--from the start of fourth order stream to the confluence with Gravelly Branch on Nanticoke River                 | STREAM/CREEK/RIVER | 2.0  | Miles |
| DE240-005-03       | Gravelly Branch                     | Maple Branch-- from the start of the third order stream to the confluence with Prong No. 1                                   | STREAM/CREEK/RIVER | 0.7  | Miles |
| DE240-005-04       | Gravelly Branch                     | Maple Branch-- from the start of the third order stream to the confluence with Prong No. 1                                   | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE240-006-01       | Bridgeville Branch                  | From the headwaters of Bridgeville Branch to the confluence with Nanticoke River                                             | STREAM/CREEK/RIVER | 3.6  | Miles |
| DE240-006-02       | Bridgeville Branch                  | Bridgeville Branch---from the start of the third order stream to the confluence with Nanticoke River                         | STREAM/CREEK/RIVER | 2.1  | Miles |
| DE240-007-01       | Gum Branch                          | From the headwaters located northeast of Woodland Ferry to the confluence with Nanticoke River                               | STREAM/CREEK/RIVER | 3.8  | Miles |
| DE240-007-02       | Gum Branch                          | Gum Branch.--from the start of the third order stream to the confluence with Nanticoke River                                 | STREAM/CREEK/RIVER | 2.2  | Miles |
| DE240-008          | Lewes Creek                         | Lewes Creek, including Butler Mill Branch and Chapel Branch                                                                  | STREAM/CREEK/RIVER | 10.9 | Miles |
| DE240-010-01       | Gum Branch on Upper Nanticoke River | Gum Branch--from the confluence of Stallion Head Branch to the confluence with West Branch Gum Branch                        | STREAM/CREEK/RIVER | 3.3  | Miles |

| Assessment Unit ID | Assessment Unit Name                                               | Location Description                                                                                           | Water Type          | Size | Units |
|--------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE240-010-02       | Gum Branch on Upper Nanticoke River                                | Toms Dam Branch--from the start of the third order stream to the confluence with Gum Branch                    | STREAM/CREEK/RIVER  | 4.5  | Miles |
| DE240-L01          | Craigs Pond                                                        | Pond southwest of Seaford and below Butler Mill Branch                                                         | LAKE/RESERVOIR/POND | 16.5 | Acres |
| DE240-L02          | Concord Pond                                                       | Pond east of Seaford on Deep Creek Branch                                                                      | LAKE/RESERVOIR/POND | 77.7 | Acres |
| DE240-L04          | Williams Pond                                                      | Pond located in Seaford and below Middleford                                                                   | LAKE/RESERVOIR/POND | 86.2 | Acres |
| DE240-L05          | Hearns Pond                                                        | Pond located north of Seaford on Clear Brook Branch                                                            | LAKE/RESERVOIR/POND | 61.0 | Acres |
| DE250-001-01       | Pocomoke River                                                     | Pocomoke River, from headwaters to the MD-DE State line                                                        | STREAM/CREEK/RIVER  | 4.7  | Miles |
| DE250-001-02       | Pocomoke River                                                     | Pocomoke River--from the confluence of Bald Cypress Branch and Gum Branch to the MD-DE line                    | STREAM/CREEK/RIVER  | 1.0  | Miles |
| DE250-001-03       | Pocomoke River                                                     | Pocomoke River--from start of the third order stream to the confluence with Bald Cypress Branch and Gum Branch | STREAM/CREEK/RIVER  | 5.1  | Miles |
| DE250-002          | Pocomoke River tributaries from the headwaters to MD-DE State line | Bald Cypress Branch--from the confluence of the headwaters to the confluence with the next larger stream order | STREAM/CREEK/RIVER  | 3.6  | Miles |
| DE260-001-02       | Red Clay Creek Mainstem                                            | From the confluence of West Branch Red Clay Creek to the confluence with White Clay Creek (lower half)         | STREAM/CREEK/RIVER  | 6.3  | Miles |
| DE260-001-03       | Red Clay Creek Mainstem                                            | From the confluence of West Branch Red Clay Creek to the confluence with White Clay Creek (upper half)         | STREAM/CREEK/RIVER  | 6.5  | Miles |
| DE260-002-01       | Burroughs Run                                                      | From PA-DE line to the confluence with Red Clay Creek                                                          | STREAM/CREEK/RIVER  | 2.7  | Miles |

| Assessment Unit ID | Assessment Unit Name                                                        | Location Description                                                                                                                              | Water Type          | Size  | Units        |
|--------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|--------------|
| DE260-003-01       | Red Clay Creek tributaries located in the watershed but NOT on the mainstem | Second tributary below Burroughs Run to the confluence with Red Clay Creek                                                                        | STREAM/CREEK/RIVER  | 1.3   | Miles        |
| DE260-003-02       | Red Clay Creek tributaries located in the watershed but NOT on the mainstem | Western tributary of the headwaters of Hyde Run to the confluence with the next larger stream order                                               | STREAM/CREEK/RIVER  | 1.5   | Miles        |
| DE260-L01          | Hoopes Reservoir                                                            | Hoopes Reservoir                                                                                                                                  | LAKE/RESERVOIR/POND | 187.9 | Acres        |
| DE270-001-01-01    | Lower Red Lion                                                              | From U.S. Route 13 to the mouth at Delaware River                                                                                                 | STREAM/CREEK/RIVER  | 2.3   | Miles        |
| DE270-001-01-02    | Lower Red Lion                                                              | First tributary downstream of Doll Run from the headwaters to the confluence with Red Lion Creek                                                  | STREAM/CREEK/RIVER  | 1.1   | Miles        |
| DE270-001-02-01    | Upper Red Lion                                                              | From the headwaters to the location where Route 13 intersects Red Lion Creek                                                                      | STREAM/CREEK/RIVER  | 3.1   | Miles        |
| DE270-001-02-02    | Upper Red Lion                                                              | First tributary after the headwaters of Red Lion Creek                                                                                            | STREAM/CREEK/RIVER  | 1.0   | Miles        |
| DE280-001-01-01    | Chapel Branch                                                               | From the headwaters of Chapel Branch to the confluence of Herring Creek, including Hopkins Prong, Unity Branch, Phillips Branch, and Guinea Creek | STREAM/CREEK/RIVER  | 17.6  | Miles        |
| DE280-001-01-02    | Chapel Branch                                                               | Chapel Branch--from the start of the second order stream to the confluence with Herring Creek                                                     | STREAM/CREEK/RIVER  | 4.5   | Miles        |
| DE280-002          | Love Creek, including tributaries                                           | Love Creek, Bundicks Branch and Goslee Creek to the confluence with Rehoboth Bay                                                                  | STREAM/CREEK/RIVER  | 11.3  | Miles        |
| DE280-E01          | Rehoboth Bay                                                                | Near coastal waters extending north from the confluence with Indian River Bay at Burton Island                                                    | BAY                 | 13.9  | Square Miles |
| DE280-L01          | Burton Pond                                                                 | Pond northeast of Millsboro                                                                                                                       | LAKE/RESERVOIR/POND | 40.3  | Acres        |

| Assessment Unit ID | Assessment Unit Name | Location Description                                                                                          | Water Type         | Size | Units |
|--------------------|----------------------|---------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE290-001-01       | Lower Saint Jones    | From Old Lebanon Bridge to the mouth of Delaware Bay                                                          | STREAM/CREEK/RIVER | 7.6  | Miles |
| DE290-001-02-01    | Upper Saint Jones    | From the dam at Silver Lake to Old Lebanon Bridge at Road 357                                                 | STREAM/CREEK/RIVER | 5.2  | Miles |
| DE290-001-02-02    | Upper Saint Jones    | Tributary of Silver Lake in Dover                                                                             | STREAM/CREEK/RIVER | 0.5  | Miles |
| DE290-001-02-03    | Upper Saint Jones    | Puncheon Branch--from the confluence of the headwaters to the confluence with the Saint Jones River           | STREAM/CREEK/RIVER | 3.4  | Miles |
| DE290-002-01       | Isaac Branch         | From the headwaters to the confluence with Saint Jones River, excluding Moores Lake                           | STREAM/CREEK/RIVER | 8.4  | Miles |
| DE290-002-02       | Isaac Branch         | From the confluence of Allabands Mill Stream to the confluence with Saint Jones River                         | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE290-002-03       | Isaac Branch         | From the confluence of the headwaters of Almhouse Branch to the confluence of Isaac Branch                    | STREAM/CREEK/RIVER | 3.6  | Miles |
| DE290-002-04       | Isaac Branch         | Second tributary upstream of Wyoming Lake on Isaac Branch                                                     | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE290-003-01       | Fork Branch          | From the headwaters to Silver Lake in Dover                                                                   | STREAM/CREEK/RIVER | 2.7  | Miles |
| DE290-003-02       | Fork Branch          | Cahoon Branch--from the confluence of the headwaters to the confluence with the next larger stream order      | STREAM/CREEK/RIVER | 2.2  | Miles |
| DE290-003-03       | Fork Branch          | Maidstone Branch- from the confluence of the third order stream to the confluence with Cahoon Branch          | STREAM/CREEK/RIVER | 2.9  | Miles |
| DE290-003-04       | Fork Branch          | Tributary to Maidstone Branch---from the confluence of the headwaters to the confluence with Maidstone Branch | STREAM/CREEK/RIVER | 0.5  | Miles |

| Assessment Unit ID | Assessment Unit Name | Location Description                                                                              | Water Type          | Size  | Units |
|--------------------|----------------------|---------------------------------------------------------------------------------------------------|---------------------|-------|-------|
| DE290-003-05       | Fork Branch          | Fork Branch--from the start of the third order stream to the confluence with Silver Lake in Dover | STREAM/CREEK/RIVER  | 6.2   | Miles |
| DE290-003-06       | Fork Branch          | From the start of the third order stream on Cahoon Branch to the confluence with Maidstone Branch | STREAM/CREEK/RIVER  | 2.3   | Miles |
| DE290-004-01       | Tidbury Branch       | From below Derby Pond to the confluence with the Saint Jones River                                | STREAM/CREEK/RIVER  | 4.8   | Miles |
| DE290-004-02       | Tidbury Branch       | From the confluence of the headwaters of Tidbury Creek to the confluence with Derby Pond          | STREAM/CREEK/RIVER  | 3.1   | Miles |
| DE290-004-03       | Tidbury Branch       | Tributary of Tidbury Creek--from the headwaters to the confluence with Tidbury Creek              | STREAM/CREEK/RIVER  | 0.9   | Miles |
| DE290-004-04       | Tidbury Branch       | Red House Branch--from the confluence of the headwaters to the confluence with Derby Pond         | STREAM/CREEK/RIVER  | 1.4   | Miles |
| DE290-L01          | Moore's Lake         | Lake east of Camden                                                                               | LAKE/RESERVOIR/POND | 29.8  | Acres |
| DE290-L02          | Silver Lake          | Silver Lake at Dover                                                                              | LAKE/RESERVOIR/POND | 168.5 | Acres |
| DE290-L03          | Derby Pond           | Pond south of Wyoming                                                                             | LAKE/RESERVOIR/POND | 23.0  | Acres |
| DE290-L04          | Isaac Branch         | Wyoming Mill Pond                                                                                 | LAKE/RESERVOIR/POND | 47.0  | Acres |
| DE300-001-01       | Lower Shellpot Creek | From the head of tide below the east set of railroad tracks to the mouth of the Delaware River    | STREAM/CREEK/RIVER  | 1.2   | Miles |
| DE300-001-02-01    | Upper Shellpot Creek | From the headwaters to the head of tide below the east set of railroad tracks                     | STREAM/CREEK/RIVER  | 6.6   | Miles |
| DE300-001-02-02    | Upper Shellpot Creek | Western tributary of the headwaters to the confluence of the next larger stream order             | STREAM/CREEK/RIVER  | 1.6   | Miles |



| Assessment Unit ID | Assessment Unit Name                                                        | Location Description                                                                                        | Water Type         | Size | Units |
|--------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|------|-------|
| DE300-001-02-03    | Upper Shellpot Creek                                                        | From the headwaters of Matson Run to the confluence with mainstem Shellpot Creek                            | STREAM/CREEK/RIVER | 1.9  | Miles |
| DE300-001-03-01    | Shellpot Creek tributaries located in the watershed but NOT on the mainstem | Western tributary of the headwaters of Stoney Creek to the confluence with mainstem Stoney Creek            | STREAM/CREEK/RIVER | 0.9  | Miles |
| DE300-001-03-02    | Shellpot Creek tributaries located in the watershed but NOT on the mainstem | From the confluence of the headwaters of Stoney Creek to the mouth of the Delaware River                    | STREAM/CREEK/RIVER | 1.8  | Miles |
| DE310-001          | Lower Smyrna River                                                          | From the head of tide to the Delaware River                                                                 | STREAM/CREEK/RIVER | 7.2  | Miles |
| DE310-002-01       | Mill Creek                                                                  | From the headwaters to Lake Como                                                                            | STREAM/CREEK/RIVER | 1.1  | Miles |
| DE310-002-02       | Mill Creek                                                                  | Providence Creek--from the confluence of the headwaters of Mill Creek to the confluence with Lake Como      | STREAM/CREEK/RIVER | 4.5  | Miles |
| DE310-003-01       | Smyrna River tributary                                                      | Tributaries from the headwaters to the confluence with Delaware Bay                                         | STREAM/CREEK/RIVER | 0.8  | Miles |
| DE310-003-02       | Smyrna River tributary                                                      | From the confluence of the headwaters of Paw Paw Branch to the confluence with Providence Creek             | STREAM/CREEK/RIVER | 3.0  | Miles |
| DE310-003-03       | Smyrna River tributary                                                      | First eastern tributary after the headwaters of Paw Paw Branch to the confluence with Smyrna River          | STREAM/CREEK/RIVER | 1.6  | Miles |
| DE310-003-04       | Smyrna River tributary                                                      | Eastern tributary of the headwaters of Sawmill Branch to its confluence                                     | STREAM/CREEK/RIVER | 0.7  | Miles |
| DE310-003-05       | Smyrna River tributary                                                      | Sawmill Branch--from the confluence of the headwaters to the next larger stream order                       | STREAM/CREEK/RIVER | 5.5  | Miles |
| DE310-003-06       | Duck Creek                                                                  | Duck Creek from (but not including) Duck Creek Pond to the confluence with Mill Creek and the Smyrna River. | STREAM/CREEK/RIVER | 3.6  | Miles |

| Assessment Unit ID | Assessment Unit Name      | Location Description                                                                                     | Water Type          | Size | Units |
|--------------------|---------------------------|----------------------------------------------------------------------------------------------------------|---------------------|------|-------|
| DE310-L01          | Lake Como                 | Lake Como in Smyrna                                                                                      | LAKE/RESERVOIR/POND | 52.7 | Acres |
| DE320-001-01       | White Clay Creek Mainstem | White Clay Creek from the PA-DE line to the confluence with the Christina River                          | STREAM/CREEK/RIVER  | 11.7 | Miles |
| DE320-001-03       | White Clay Creek Mainstem | Tidal White Clay from the River mouth to Rt4                                                             | STREAM/CREEK/RIVER  | 3.0  | Miles |
| DE320-002-02       | Mill Creek                | From the confluence of the headwaters of Mill Creek to the confluence with the next larger stream order  | STREAM/CREEK/RIVER  | 1.8  | Miles |
| DE320-002-03       | Mill Creek                | Second western tributary-- From the headwaters of mainstem Mill Creek                                    | STREAM/CREEK/RIVER  | 0.0  | Miles |
| DE320-002-04       | Mill Creek                | From the confluence of the headwaters of Mill Creek to the confluence with White Clay Creek (upper half) | STREAM/CREEK/RIVER  | 4.6  | Miles |
| DE320-002-05       | Mill Creek                | From the confluence of the headwaters of Mill Creek to the confluence with White Clay Creek (lower half) | STREAM/CREEK/RIVER  | 4.9  | Miles |
| DE320-003-01       | Pike Creek                | From the headwaters to the confluence with White Clay Creek                                              | STREAM/CREEK/RIVER  | 1.2  | Miles |
| DE320-003-02       | Pike Creek                | Third eastern tributary after the headwaters of Pike Creek (upper half)                                  | STREAM/CREEK/RIVER  | 0.4  | Miles |
| DE320-003-03       | Pike Creek                | Third eastern tributary after the headwaters of Pike Creek (lower half)                                  | STREAM/CREEK/RIVER  | 0.4  | Miles |
| DE320-003-04       | Pike Creek                | Second eastern tributary after the headwaters of Pike Creek                                              | STREAM/CREEK/RIVER  | 1.1  | Miles |
| DE320-003-05       | Pike Creek                | From the confluence of the headwaters of Pike Creek to the confluence with White Clay Creek              | STREAM/CREEK/RIVER  | 5.5  | Miles |

| Assessment Unit ID | Assessment Unit Name                                                                        | Location Description                                                                                             | Water Type         | Size  | Units        |
|--------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|-------|--------------|
| DE320-004-01       | Middle Run                                                                                  | From the headwaters to the confluence with White Clay Creek                                                      | STREAM/CREEK/RIVER | 5.0   | Miles        |
| DE320-004-02       | Middle Run                                                                                  | Eastern tributary of the headwaters of Middle Run to the confluence of the next larger stream order (upper half) | STREAM/CREEK/RIVER | 0.2   | Miles        |
| DE320-004-03       | Middle Run                                                                                  | Eastern tributary of the headwaters of Middle Run to the confluence of the next larger stream order (lower half) | STREAM/CREEK/RIVER | 0.2   | Miles        |
| DE320-004-04       | Middle Run                                                                                  | Western tributary of the headwaters of Middle Run to the confluence with the mainstem                            | STREAM/CREEK/RIVER | 1.6   | Miles        |
| DE320-005-01       | White Clay Creek tributaries from the headwaters to the confluence with the Christina River | First tributary after State line to the confluence of White Clay Creek, along Thompson Station Road              | STREAM/CREEK/RIVER | 2.1   | Miles        |
| DE320-005-02       | White Clay Creek tributaries from the headwaters to the confluence with the Christina River | Tributary off The Hunt at Louviers                                                                               | STREAM/CREEK/RIVER | 2.1   | Miles        |
| DE320-005-04       | White Clay Creek tributaries from the headwaters to the confluence with the Christina River | First tributary after Pike Creek--from the headwaters to the confluence with White Clay Creek                    | STREAM/CREEK/RIVER | 0.8   | Miles        |
| DE350-E01          | Assawoman Bay                                                                               | Portion of the estuary up to the MD-DE State line                                                                | BAY                | 0.4   | Square Miles |
| DEDRBCZone5        | Delaware River Basin Zone 5                                                                 | From the Pennsylvania- Delaware line to Liston Point, Delaware.                                                  | BAY                | 32.7  | Square Miles |
| DEDRBCZone5c       | Delaware River Basin Zone 5c                                                                | Lower portion of DRBC Zone 5                                                                                     | BAY                | 30.5  | Square Miles |
| DEDRBCZone6        | Delaware River Basin Zone 6                                                                 | From Liston Point to the confluence with the Atlantic Ocean                                                      | BAY                | 684.4 | Square Miles |

Table A3: Stations by Assessment Unit

Reference table showing monitoring stations in relation to Major Basin, Historic Watershed, and Assessment Unit. Stations with an asterisk (\*) are USGS continuous monitoring stations.

| Major Basin    | Historic Watershed | Assessment Unit ID | Station  |
|----------------|--------------------|--------------------|----------|
| Piedmont       | Brandywine Creek   | DE040-001          | 104011   |
|                |                    | DE040-002-01       | 104021   |
|                |                    |                    | 104051   |
|                |                    |                    | 1481500* |
|                | Christina River    | DE120-001          | 106291   |
|                |                    | DE120-002          | 106021   |
|                |                    |                    | 1480065* |
|                |                    | DE120-003-01       | 106031   |
|                |                    | DE120-004-02       | 106141   |
|                |                    | DE120-006-02       | 106191   |
|                |                    | DE120-007-01-05    | 106281   |
|                | Naamans Creek      | DE230-001-02-01    | 101021   |
|                |                    |                    | 101031   |
|                |                    |                    | 101061   |
|                | Red Clay Creek     | DE260-001-02       | 103041   |
|                |                    | DE260-001-03       | 103011   |
|                |                    |                    | 103031   |
|                |                    | DE260-002-01       | 103061   |
|                | Shellpot Creek     | DE300-001-01       | 102041   |
|                |                    | DE300-001-02-01    | 102051   |
|                |                    |                    | 102081   |
|                | White Clay Creek   | DE320-001-01       | 105031   |
|                |                    |                    | 105151   |
|                |                    |                    | 105171   |
| Chesapeake Bay | Broad Creek        | DE050-001-01       | 307031   |
|                |                    | DE050-006-03       | 307371   |
|                |                    | DE050-L03          | 307171   |
|                |                    | DE050-L04          | 307011   |
|                |                    | DE050-L07          | 307081   |
|                | Chester River      | DE100-002-01       | 112021   |
|                | Choptank River     | DE110-001-02       | 207081   |
|                |                    | DE110-002-04       | 207091   |
|                |                    | DE110-003-14       | 207111   |
|                |                    | DE110-003-15       | 207021   |
|                | Deep Creek         | DE240-004-01       | 304741   |
|                |                    | DE240-L02          | 304311   |
|                | Gravelly Branch    | DE240-005-01       | 316011   |

| Major Basin  | Historic Watershed  | Assessment Unit ID | Station      |
|--------------|---------------------|--------------------|--------------|
| Delaware Bay | Nanticoke River     |                    | 316031       |
|              |                     | DE200-001-03       | 302031       |
|              |                     | DE240-001          | 304151       |
|              |                     |                    | 304471       |
|              |                     | DE240-002-01       | 304191       |
|              |                     | DE240-002-07       | 304681       |
|              |                     | DE240-003          | 304371       |
|              |                     |                    | 304381       |
|              |                     | DE240-L04          | 304321       |
|              | Pocomoke River      | DE250-001-02       | 313011       |
|              | Appoquinimink River | DE010-001-01       | 109091       |
|              |                     |                    | 109121       |
|              |                     |                    | 1483177*     |
|              |                     | DE010-001-02       | 109041       |
|              |                     |                    | 109171       |
|              |                     | DE010-001-03-04    | 109071       |
|              |                     | DE010-002-02-02    | 109251       |
|              |                     | DE010-L01          | 109131       |
|              |                     | DE010-L03          | 109191       |
|              |                     | Army Creek         | DE020-001-01 |
|              |                     |                    | 114011       |
|              |                     |                    | 114021       |
|              |                     |                    | DE020-003-02 |
|              |                     |                    | 114051       |
|              |                     | Blackbird Creek    | DE020-003-03 |
|              |                     |                    | 114041       |
|              |                     |                    | DE030-001    |
|              |                     | Broadkill River    | DE030-001    |
|              |                     |                    | 110031       |
|              |                     |                    | 110041       |
|              |                     | DE030-002-03       | 110011       |
|              |                     | DE060-001          | 303041       |
|              |                     |                    | 303061       |
|              |                     |                    | 1484272*     |
|              |                     |                    | DE060-002    |
|              |                     |                    | 303171       |
|              |                     |                    | 303181       |
|              |                     |                    | DE060-003    |
|              |                     |                    | 303031       |
|              |                     |                    | DE060-004    |
|              |                     |                    | 303311       |
|              |                     | DE060-005-01       | 303011       |
|              |                     |                    | 303021       |
|              |                     |                    | DE060-006    |
|              |                     |                    | 303341       |
|              |                     |                    | DE060-L01    |
|              |                     |                    | 303051       |
|              |                     | DE060-L03          | 303331       |
|              | C & D Canal East    | DE090-001          | 108021       |
|              |                     | DE090-002-05       | 108051       |
|              |                     | DE090-L01          | 108111       |
|              | Cedar Creek         | DE080-001          | 301031       |

| Major Basin                | Historic Watershed | Assessment Unit ID | Station  |
|----------------------------|--------------------|--------------------|----------|
|                            |                    |                    | 301091   |
|                            |                    | DE080-002          | 301021   |
|                            |                    | DE210-001          | 208061   |
|                            | Dragon Run Creek   | DE130-001          | 111011   |
|                            |                    | DE130-002-02       | 111031   |
|                            | Leipsic River      | DE160-001          | 202031   |
|                            |                    | DE160-002-01       | 202191   |
|                            |                    | DE160-L01          | 202021   |
|                            | Little Creek       | DE190-001-01       | 204031   |
|                            |                    | DE190-001-02-03    | 204041   |
|                            | Misphillion River  | DE210-001          | 208021   |
|                            |                    | DE210-002-03       | 208231   |
|                            |                    | DE210-L02          | 208211   |
|                            |                    | DE210-L06          | 208181   |
|                            | Murderkill River   | DE220-001          | 206101   |
|                            |                    |                    | 206141   |
|                            |                    |                    | 206231   |
|                            |                    |                    | 1484080* |
|                            |                    | DE220-002-01       | 206091   |
|                            |                    | DE220-002-04       | 206561   |
|                            |                    | DE220-004-01       | 206041   |
|                            |                    | DE220-005-01       | 206011   |
|                            |                    | DE220-L03          | 206451   |
|                            |                    | DE220-L05          | 206361   |
|                            | Red Lion Creek     | DE270-001-01-01    | 107031   |
|                            |                    | DE270-001-02-01    | 107011   |
|                            | Smyrna River       | DE310-001          | 201041   |
|                            |                    | DE310-002-02       | 201021   |
|                            |                    | DE310-003-01       | 201161   |
|                            |                    | DE310-003-02       | 201161   |
|                            |                    | DE310-003-06       | 201051   |
|                            |                    | DE310-L01          | 201011   |
|                            | St. Jones River    | DE290-001-01       | 205011   |
|                            |                    |                    | 205041   |
|                            |                    | DE290-001-02-01    | 205091   |
|                            |                    | DE290-003-05       | 205151   |
|                            |                    | DE290-L01          | 205181   |
|                            |                    | DE290-L02          | 205191   |
|                            |                    | DE290-L03          | 205211   |
| Inland Bays/Atlantic Ocean | Buntings Branch    | DE070-001          | 311041   |
|                            | Indian River       | DE140-004          | 306181   |
|                            |                    | DE140-006          | 308281   |

| Major Basin | Historic Watershed   | Assessment Unit ID | Station  |
|-------------|----------------------|--------------------|----------|
|             |                      | DE140-E02          | 306331   |
|             |                      |                    | 306341   |
|             |                      | DE140-L01          | 308071   |
|             |                      |                    | 1484525* |
|             | Indian River Bay     | DE140-002          | 308361   |
|             |                      | DE140-003          | 308091   |
|             |                      | DE140-E01          | 306121   |
|             |                      |                    | 306321   |
|             |                      | DE180-001          | 312011   |
|             |                      | DE280-E01          | 306111   |
|             |                      |                    | 1484680* |
|             | Iron Branch          | DE150-001-01       | 309041   |
|             | Lewes-Rehoboth Canal | DE170-001          | 305011   |
|             |                      |                    | 305041   |
|             | Little Assawoman     | DE180-002-02       | 310121   |
|             |                      | DE180-003-01       | 310031   |
|             |                      | DE180-E01          | 310011   |
|             |                      |                    | 310071   |
|             | Rehoboth Bay         | DE280-001-01-01    | 308051   |
|             |                      | DE280-002          | 308371   |
|             |                      | DE280-E01          | 306091   |
|             |                      | DE280-L01          | 308031   |

## Appendix B: Individual Parameter Assessments

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Table B1: Dissolved Oxygen Assessment

Results of dissolved oxygen sample data collected from January 2020 through December 2024 assessed for the 2026 IR cycle. Statewide minimum dissolved oxygen criteria is 4 mg/L, except in May 16 – Sept 30 3 mg/L in Murderkill River watershed. Average dissolved oxygen criteria for freshwater segment is 5.5 mg/L, while for marine segment it is 5 mg/L.

| Dissolved Oxygen    |                    |            |       |                |                |                 |                        |                  |                      |
|---------------------|--------------------|------------|-------|----------------|----------------|-----------------|------------------------|------------------|----------------------|
| Watershed           | Assessment Unit ID | Station ID | Count | Average (mg/L) | Minimum (mg/L) | 10th Percentile | Salinity Average (ppt) | Less than 4 mg/L | Attainment           |
| Naamans Creek       | DE230-001-02-01    | 101021     | 41    | 9.79           | 7.24           | 7.74            | 0.24                   | 0                | Meeting Criteria     |
| Naamans Creek       | DE230-001-02-01    | 101031     | 41    | 9.82           | 7.27           | 7.52            | 0.20                   | 0                | Meeting Criteria     |
| Naamans Creek       | DE230-001-02-01    | 101061     | 41    | 10.22          | 6.72           | 8.20            | 0.17                   | 0                | Meeting Criteria     |
| Shellpot Creek      | DE300-001-01       | 102041     | 41    | 7.80           | 4.07           | 4.72            | 0.36                   | 0                | Not Meeting Criteria |
| Shellpot Creek      | DE300-001-02-01    | 102051     | 63    | 10.46          | 7.73           | 8.09            | 0.28                   | 0                | Meeting Criteria     |
| Shellpot Creek      | DE300-001-02-01    | 102081     | 41    | 10.33          | 7.81           | 8.27            | 0.23                   | 0                | Meeting Criteria     |
| Red Clay Creek      | DE260-001-03       | 103011     | 42    | 10.55          | 7.93           | 8.32            | 0.19                   | 0                | Meeting Criteria     |
| Red Clay Creek      | DE260-001-03       | 103031     | 64    | 10.54          | 7.93           | 8.27            | 0.21                   | 0                | Meeting Criteria     |
| Red Clay Creek      | DE260-001-02       | 103041     | 42    | 10.66          | 8.14           | 8.42            | 0.24                   | 0                | Meeting Criteria     |
| Red Clay Creek      | DE260-002-01       | 103061     | 42    | 10.94          | 8.25           | 8.62            | 0.15                   | 0                | Meeting Criteria     |
| Brandywine Creek    | DE040-001          | 104011     | 42    | 10.52          | 7.73           | 8.26            | 0.18                   | 0                | Meeting Criteria     |
| Brandywine Creek    | DE040-002-01       | 104021     | 63    | 10.54          | 7.41           | 8.30            | 0.19                   | 0                | Meeting Criteria     |
| Brandywine Creek    | DE040-002-01       | 104051     | 41    | 10.65          | 7.76           | 8.44            | 0.19                   | 0                | Meeting Criteria     |
| White Clay Creek    | DE320-001-01       | 105031     | 42    | 10.40          | 7.17           | 8.10            | 0.17                   | 0                | Meeting Criteria     |
| White Clay Creek    | DE320-001-01       | 105151     | 64    | 10.44          | 7.33           | 7.95            | 0.18                   | 0                | Meeting Criteria     |
| White Clay Creek    | DE320-001-01       | 105171     | 42    | 10.31          | 7.61           | 7.95            | 0.17                   | 0                | Meeting Criteria     |
| Christina River     | DE120-002          | 106021     | 42    | 9.21           | 5.42           | 6.48            | 0.25                   | 0                | Meeting Criteria     |
| Christina River     | DE120-003-01       | 106031     | 42    | 9.53           | 6.38           | 7.11            | 0.15                   | 0                | Meeting Criteria     |
| Christina River     | DE120-004-02       | 106141     | 64    | 10.11          | 7.12           | 7.78            | 0.17                   | 0                | Meeting Criteria     |
| Christina River     | DE120-006-02       | 106191     | 42    | 10.70          | 7.41           | 8.49            | 0.13                   | 0                | Meeting Criteria     |
| Christina River     | DE120-007-01-05    | 106281     | 42    | 10.14          | 7.01           | 8.17            | 0.33                   | 0                | Meeting Criteria     |
| Christina River     | DE120-001          | 106291     | 60    | 9.49           | 5.22           | 6.55            | 0.43                   | 0                | Meeting Criteria     |
| Red Lion Creek      | DE270-001-02-01    | 107011     | 42    | 9.61           | 4.47           | 7.57            | 0.13                   | 0                | Meeting Criteria     |
| Red Lion Creek      | DE270-001-01-01    | 107031     | 41    | 8.65           | 5.04           | 6.18            | 0.30                   | 0                | Meeting Criteria     |
| C & D Canal East    | DE090-001          | 108021     | 42    | 9.39           | 6.54           | 7.13            | 3.20                   | 0                | Meeting Criteria     |
| C & D Canal East    | DE090-002-05       | 108051     | 0     |                |                |                 | 0.10                   | 1                | Not Meeting Criteria |
| C & D Canal East    | DE090-L01          | 108111     | 40    | 10.12          | 6.48           | 8.65            | 0.10                   | 0                | Meeting Criteria     |
| Appoquinimink River | DE010-001-02       | 109041     | 42    | 9.33           | 4.91           | 6.14            | 2.49                   | 0                | Meeting Criteria     |
| Appoquinimink River | DE010-001-03-04    | 109071     | 42    | 9.13           | 5.24           | 6.21            | 2.55                   | 0                | Meeting Criteria     |

Dissolved Oxygen

| Watershed           | Assessment Unit ID | Station ID | Count | Average (mg/L) | Minimum (mg/L) | 10th Percentile | Salinity Average (ppt) | Less than 4 mg/L | Attainment           |
|---------------------|--------------------|------------|-------|----------------|----------------|-----------------|------------------------|------------------|----------------------|
| Appoquinimink River | DE010-001-01       | 109091     | 59    | 9.38           | 5.73           | 6.42            | 5.60                   | 0                | Meeting Criteria     |
| Appoquinimink River | DE010-001-01       | 109121     | 42    | 9.08           | 4.70           | 6.22            | 4.16                   | 0                | Meeting Criteria     |
| Appoquinimink River | DE010-L01          | 109131     | 42    | 10.31          | 6.62           | 7.57            | 0.18                   | 0                | Meeting Criteria     |
| Appoquinimink River | DE010-001-02       | 109171     | 42    | 9.03           | 3.56           | 6.17            | 2.91                   | 1                | Meeting Criteria     |
| Appoquinimink River | DE010-L03          | 109191     | 41    | 9.50           | 4.98           | 7.26            | 0.14                   | 0                | Meeting Criteria     |
| Appoquinimink River | DE010-002-02-02    | 109251     | 64    | 9.89           | 7.80           | 8.33            | 0.14                   | 0                | Meeting Criteria     |
| Blackbird Creek     | DE030-002-03       | 110011     | 64    | 9.56           | 4.75           | 5.93            | 0.14                   | 0                | Meeting Criteria     |
| Blackbird Creek     | DE030-001          | 110031     | 41    | 9.12           | 4.22           | 6.12            | 2.53                   | 0                | Meeting Criteria     |
| Blackbird Creek     | DE030-001          | 110041     | 42    | 8.95           | 5.04           | 6.33            | 4.30                   | 0                | Meeting Criteria     |
| Dragon Run Creek    | DE130-001          | 111011     | 42    | 8.33           | 3.31           | 5.11            | 1.50                   | 1                | Not Meeting Criteria |
| Dragon Run Creek    | DE130-002-02       | 111031     | 41    | 6.95           | 2.70           | 4.19            | 0.19                   | 2                | Not Meeting Criteria |
| Chester River       | DE100-002-01       | 112021     | 42    | 8.52           | 5.23           | 6.27            | 0.16                   | 0                | Meeting Criteria     |
| Army Creek          | DE020-001-01       | 114011     | 39    | 7.88           | 3.32           | 5.03            | 0.61                   | 1                | Not Meeting Criteria |
| Army Creek          | DE020-001-01       | 114021     | 41    | 8.76           | 5.48           | 6.43            | 0.18                   | 0                | Meeting Criteria     |
| Army Creek          | DE020-003-03       | 114041     | 39    | 7.94           | 4.21           | 4.63            | 0.25                   | 0                | Not Meeting Criteria |
| Army Creek          | DE020-003-02       | 114051     | 40    | 9.85           | 6.60           | 8.00            | 0.26                   | 0                | Meeting Criteria     |
| Smyrna River        | DE310-L01          | 201011     | 42    | 9.81           | 5.10           | 7.65            | 0.12                   | 0                | Meeting Criteria     |
| Smyrna River        | DE310-002-02       | 201021     | 42    | 9.29           | 6.49           | 7.68            | 0.11                   | 0                | Meeting Criteria     |
| Smyrna River        | DE310-001          | 201041     | 42    | 8.76           | 3.91           | 6.03            | 6.18                   | 1                | Meeting Criteria     |
| Smyrna River        | DE310-003-06       | 201051     | 42    | 8.80           | 4.36           | 6.69            | 1.87                   | 0                | Meeting Criteria     |
| Smyrna River        | DE310-003-01       | 201161     | 1     | 10.56          | 10.56          | 10.56           | 0.11                   | 0                | Meeting Criteria     |
| Smyrna River        | DE310-003-02       | 201161     | 41    | 9.60           | 6.54           | 7.75            | 0.11                   | 0                | Meeting Criteria     |
| Leipsic River       | DE160-L01          | 202021     | 41    | 9.66           | 6.12           | 7.27            | 0.11                   | 0                | Meeting Criteria     |
| Leipsic River       | DE160-001          | 202031     | 42    | 8.24           | 4.37           | 5.60            | 9.31                   | 0                | Meeting Criteria     |
| Leipsic River       | DE160-002-01       | 202191     | 41    | 9.68           | 7.39           | 8.00            | 0.12                   | 0                | Meeting Criteria     |
| Little Creek        | DE190-001-01       | 204031     | 42    | 8.31           | 3.13           | 5.08            | 9.59                   | 1                | Meeting Criteria     |
| Little Creek        | DE190-001-02-03    | 204041     | 42    | 6.59           | 3.54           | 4.57            | 0.27                   | 2                | Not Meeting Criteria |
| St. Jones River     | DE290-001-01       | 205011     | 60    | 8.65           | 5.56           | 6.06            | 19.91                  | 0                | Meeting Criteria     |
| St. Jones River     | DE290-001-01       | 205041     | 41    | 8.26           | 5.01           | 5.46            | 10.45                  | 0                | Meeting Criteria     |
| St. Jones River     | DE290-001-02-01    | 205091     | 42    | 8.33           | 3.97           | 5.01            | 4.08                   | 1                | Not Meeting Criteria |
| St. Jones River     | DE290-003-05       | 205151     | 42    | 8.39           | 4.82           | 5.74            | 0.11                   | 0                | Meeting Criteria     |
| St. Jones River     | DE290-L01          | 205181     | 42    | 9.90           | 6.16           | 8.42            | 0.13                   | 0                | Meeting Criteria     |
| St. Jones River     | DE290-L02          | 205191     | 47    | 9.59           | 4.76           | 7.30            | 0.12                   | 0                | Meeting Criteria     |
| St. Jones River     | DE290-L03          | 205211     | 42    | 10.22          | 5.24           | 7.61            | 0.21                   | 0                | Meeting Criteria     |
| Murderkill River    | DE220-005-01       | 206011     | 64    | 9.33           | 6.74           | 7.53            | 0.13                   | 0                | Meeting Criteria     |

### Dissolved Oxygen

| Watershed        | Assessment Unit ID | Station ID | Count | Average (mg/L) | Minimum (mg/L) | 10th Percentile | Salinity Average (ppt) | Less than 4 mg/L | Attainment           |
|------------------|--------------------|------------|-------|----------------|----------------|-----------------|------------------------|------------------|----------------------|
| Murderkill River | DE220-004-01       | 206041     | 42    | 8.83           | 6.90           | 7.60            | 0.10                   | 0                | Meeting Criteria     |
| Murderkill River | DE220-002-01       | 206091     | 42    | 7.64           | 2.97           | 3.63            | 2.88                   | 4                | Not Meeting Criteria |
| Murderkill River | DE220-001          | 206101     | 60    | 8.37           | 4.99           | 5.90            | 20.13                  | 0                | Meeting Criteria     |
| Murderkill River | DE220-001          | 206141     | 39    | 7.37           | 2.40           | 3.28            | 11.64                  | 5                | Not Meeting Criteria |
| Murderkill River | DE220-001          | 206231     | 39    | 7.15           | 2.44           | 3.11            | 4.03                   | 7                | Not Meeting Criteria |
| Murderkill River | DE220-L05          | 206361     | 42    | 10.58          | 6.89           | 8.69            | 0.11                   | 0                | Meeting Criteria     |
| Murderkill River | DE220-L03          | 206451     | 42    | 10.08          | 6.08           | 8.55            | 0.10                   | 0                | Meeting Criteria     |
| Murderkill River | DE220-002-04       | 206561     | 42    | 8.79           | 5.71           | 6.08            | 0.22                   | 0                | Meeting Criteria     |
| Choptank River   | DE110-003-15       | 207021     | 42    | 8.91           | 6.62           | 6.97            | 0.10                   | 0                | Meeting Criteria     |
| Choptank River   | DE110-001-02       | 207081     | 42    | 8.71           | 5.56           | 5.96            | 0.11                   | 0                | Meeting Criteria     |
| Choptank River   | DE110-002-04       | 207091     | 42    | 8.83           | 6.05           | 6.68            | 0.11                   | 0                | Meeting Criteria     |
| Choptank River   | DE110-003-14       | 207111     | 42    | 8.85           | 6.57           | 7.07            | 0.11                   | 0                | Meeting Criteria     |
| Mispillion River | DE210-001          | 208021     | 42    | 9.37           | 5.82           | 6.73            | 0.46                   | 0                | Meeting Criteria     |
| Cedar Creek      | DE210-001          | 208061     | 60    | 8.37           | 4.89           | 5.57            | 21.89                  | 0                | Meeting Criteria     |
| Mispillion River | DE210-L06          | 208181     | 42    | 9.54           | 5.14           | 6.51            | 0.11                   | 0                | Meeting Criteria     |
| Mispillion River | DE210-L02          | 208211     | 42    | 10.22          | 7.58           | 8.04            | 0.10                   | 0                | Meeting Criteria     |
| Mispillion River | DE210-002-03       | 208231     | 64    | 9.40           | 6.19           | 8.14            | 0.23                   | 0                | Meeting Criteria     |
| Cedar Creek      | DE080-002          | 301021     | 42    | 10.02          | 7.81           | 8.37            | 0.13                   | 0                | Meeting Criteria     |
| Cedar Creek      | DE080-001          | 301031     | 42    | 8.92           | 5.32           | 6.05            | 1.28                   | 0                | Meeting Criteria     |
| Cedar Creek      | DE080-001          | 301091     | 42    | 8.42           | 4.51           | 5.64            | 21.34                  | 0                | Meeting Criteria     |
| Marshyhope Creek | DE200-001-03       | 302031     | 54    | 9.11           | 5.49           | 6.86            | 0.15                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-005-01       | 303011     | 42    | 8.01           | 5.39           | 6.80            | 0.73                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-005-01       | 303021     | 42    | 8.62           | 6.45           | 7.23            | 0.67                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-003          | 303031     | 42    | 9.64           | 6.97           | 7.55            | 0.13                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-001          | 303041     | 42    | 8.60           | 5.17           | 5.77            | 5.63                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-L01          | 303051     | 41    | 10.16          | 7.72           | 8.10            | 0.10                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-001          | 303061     | 45    | 8.32           | 4.73           | 5.91            | 21.19                  | 0                | Meeting Criteria     |
| Broadkill River  | DE060-002          | 303171     | 42    | 8.78           | 6.80           | 7.41            | 0.13                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-002          | 303181     | 41    | 8.11           | 3.31           | 5.51            | 0.18                   | 2                | Not Meeting Criteria |
| Broadkill River  | DE060-004          | 303311     | 42    | 7.89           | 3.77           | 5.72            | 0.12                   | 1                | Meeting Criteria     |
| Broadkill River  | DE060-L03          | 303331     | 41    | 10.41          | 6.77           | 8.45            | 0.14                   | 0                | Meeting Criteria     |
| Broadkill River  | DE060-006          | 303341     | 42    | 9.33           | 7.64           | 8.21            | 0.11                   | 0                | Meeting Criteria     |
| Nanticoke River  | DE240-001          | 304151     | 42    | 9.39           | 7.18           | 7.60            | 0.16                   | 0                | Meeting Criteria     |
| Nanticoke River  | DE240-002-01       | 304191     | 54    | 8.75           | 5.49           | 6.49            | 0.10                   | 0                | Meeting Criteria     |
| Deep Creek       | DE240-L02          | 304311     | 42    | 9.46           | 6.44           | 7.60            | 0.10                   | 0                | Meeting Criteria     |

### Dissolved Oxygen

| Watershed            | Assessment Unit ID | Station ID | Count | Average (mg/L) | Minimum (mg/L) | 10th Percentile | Salinity Average (ppt) | Less than 4 mg/L | Attainment           |
|----------------------|--------------------|------------|-------|----------------|----------------|-----------------|------------------------|------------------|----------------------|
| Nanticoke River      | DE240-L04          | 304321     | 42    | 9.67           | 7.23           | 7.72            | 0.10                   | 0                | Meeting Criteria     |
| Nanticoke River      | DE240-003          | 304371     | 42    | 8.15           | 3.50           | 5.47            | 0.13                   | 1                | Not Meeting Criteria |
| Nanticoke River      | DE240-003          | 304381     | 42    | 8.86           | 6.75           | 7.42            | 0.10                   | 0                | Meeting Criteria     |
| Nanticoke River      | DE240-001          | 304471     | 42    | 9.52           | 6.96           | 7.77            | 0.14                   | 0                | Meeting Criteria     |
| Nanticoke River      | DE240-002-07       | 304681     | 42    | 9.15           | 6.67           | 7.18            | 0.13                   | 0                | Meeting Criteria     |
| Deep Creek           | DE240-004-01       | 304741     | 42    | 9.23           | 6.67           | 7.46            | 0.10                   | 0                | Meeting Criteria     |
| Lewes-Rehoboth Canal | DE170-001          | 305011     | 42    | 8.18           | 5.11           | 5.81            | 25.29                  | 0                | Meeting Criteria     |
| Lewes-Rehoboth Canal | DE170-001          | 305041     | 42    | 8.34           | 5.27           | 6.21            | 27.19                  | 0                | Meeting Criteria     |
| Rehoboth Bay         | DE280-E01          | 306091     | 38    | 8.58           | 6.31           | 6.58            | 28.74                  | 0                | Meeting Criteria     |
| Indian River Bay     | DE280-E01          | 306111     | 42    | 8.49           | 5.77           | 6.63            | 29.71                  | 0                | Meeting Criteria     |
| Indian River Bay     | DE140-E01          | 306121     | 56    | 8.68           | 5.53           | 6.57            | 28.05                  | 0                | Meeting Criteria     |
| Indian River         | DE140-004          | 306181     | 40    | 9.78           | 4.56           | 7.08            | 13.71                  | 0                | Meeting Criteria     |
| Indian River Bay     | DE140-E01          | 306321     | 60    | 8.59           | 6.28           | 6.99            | 30.74                  | 0                | Meeting Criteria     |
| Indian River         | DE140-E02          | 306331     | 37    | 8.85           | 3.80           | 5.61            | 21.64                  | 1                | Meeting Criteria     |
| Indian River         | DE140-E02          | 306341     | 37    | 9.08           | 5.28           | 5.63            | 20.13                  | 0                | Meeting Criteria     |
| Broad Creek          | DE050-L04          | 307011     | 42    | 10.41          | 7.29           | 9.13            | 0.10                   | 0                | Meeting Criteria     |
| Broad Creek          | DE050-001-01       | 307031     | 42    | 9.40           | 6.40           | 7.82            | 0.15                   | 0                | Meeting Criteria     |
| Broad Creek          | DE050-L07          | 307081     | 41    | 9.46           | 4.83           | 7.33            | 0.15                   | 0                | Meeting Criteria     |
| Broad Creek          | DE050-L03          | 307171     | 42    | 9.74           | 6.51           | 7.64            | 0.11                   | 0                | Meeting Criteria     |
| Broad Creek          | DE050-006-03       | 307371     | 25    | 8.31           | 4.68           | 6.01            | 0.21                   | 0                | Meeting Criteria     |
| Rehoboth Bay         | DE280-L01          | 308031     | 41    | 9.45           | 5.02           | 6.95            | 0.19                   | 0                | Meeting Criteria     |
| Rehoboth Bay         | DE280-001-01-01    | 308051     | 42    | 8.71           | 5.41           | 6.70            | 11.34                  | 0                | Meeting Criteria     |
| Indian River         | DE140-L01          | 308071     | 63    | 9.83           | 4.74           | 7.21            | 0.23                   | 0                | Meeting Criteria     |
| Indian River Bay     | DE140-003          | 308091     | 42    | 9.54           | 6.79           | 7.96            | 0.10                   | 0                | Meeting Criteria     |
| Indian River         | DE140-006          | 308281     | 42    | 8.76           | 3.67           | 6.10            | 0.10                   | 1                | Meeting Criteria     |
| Indian River         | DE140-005          | 308341     | 42    | 9.38           | 7.70           | 7.98            | 0.10                   | 0                | Meeting Criteria     |
| Indian River Bay     | DE140-002          | 308361     | 39    | 8.62           | 4.83           | 5.51            | 0.18                   | 0                | Meeting Criteria     |
| Rehoboth Bay         | DE280-002          | 308371     | 39    | 9.30           | 5.51           | 7.43            | 0.38                   | 0                | Meeting Criteria     |
| Iron Branch          | DE150-001-01       | 309041     | 42    | 9.48           | 6.36           | 7.38            | 0.10                   | 0                | Meeting Criteria     |
| Little Assawoman     | DE180-E01          | 310011     | 42    | 8.67           | 5.39           | 6.55            | 25.55                  | 0                | Meeting Criteria     |
| Little Assawoman     | DE180-003-01       | 310031     | 41    | 9.12           | 5.36           | 6.62            | 12.13                  | 0                | Meeting Criteria     |
| Little Assawoman     | DE180-E01          | 310071     | 42    | 8.80           | 5.65           | 6.40            | 24.23                  | 0                | Meeting Criteria     |
| Little Assawoman     | DE180-002-02       | 310121     | 64    | 8.50           | 3.55           | 5.50            | 0.29                   | 1                | Meeting Criteria     |
| Buntings Branch      | DE070-001          | 311041     | 41    | 9.11           | 4.86           | 6.39            | 0.11                   | 0                | Meeting Criteria     |
| Indian River Bay     | DE180-001          | 312011     | 42    | 8.40           | 5.51           | 5.96            | 25.17                  | 0                | Meeting Criteria     |

| Dissolved Oxygen |                    |            |       |                |                |                 |                        |                  |                  |
|------------------|--------------------|------------|-------|----------------|----------------|-----------------|------------------------|------------------|------------------|
| Watershed        | Assessment Unit ID | Station ID | Count | Average (mg/L) | Minimum (mg/L) | 10th Percentile | Salinity Average (ppt) | Less than 4 mg/L | Attainment       |
| Pocomoke River   | DE250-001-02       | 313011     | 36    | 8.62           | 5.03           | 6.52            | 0.11                   | 0                | Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316011     | 41    | 9.71           | 7.49           | 7.98            | 0.10                   | 0                | Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316031     | 42    | 8.52           | 6.50           | 6.99            | 0.10                   | 0                | Meeting Criteria |
|                  |                    | 401011     | 23    | 8.33           | 5.79           | 6.05            | 26.27                  | 0                | Meeting Criteria |

Table B2: Dissolved Oxygen Assessment for Continuous Monitoring Data

Results of continuous dissolved oxygen data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Numeric Station IDs are USGS monitoring stations. Descriptive Station IDs followed by an “\*” are CIB monitoring stations. Continuous dissolved oxygen data was compared with the minimum DO criteria mentioned in table B1.

| Continuous Dissolved Oxygen |                    |                 |              |                |                |                |                 |                             |                      |
|-----------------------------|--------------------|-----------------|--------------|----------------|----------------|----------------|-----------------|-----------------------------|----------------------|
| Watershed                   | Assessment Unit ID | Station ID      | Sample Count | Average (mg/L) | Minimum (mg/L) | Failed Samples | Percent Failure | 10 <sup>th</sup> percentile | Attainment           |
| Appoquinimink River         | DE010-001-01       | 1483177         | 170461       | 8.46           | 2.6            | 4494           | 2.64            | 4.96                        | Not Meeting Criteria |
| Brandywine Creek            | DE040-002-01       | 1481500         | 174257       | 10.77          | 6.6            | 0              | 0.00            | 8.32                        | Meeting Criteria     |
| Broadkill River             | DE060-001          | 1484272         | 173111       | 7.66           | 1.3            | 16753          | 9.68            | 4.21                        | Not Meeting Criteria |
| Christina River             | DE120-002          | 1480065         | 173431       | 9.31           | 2.8            | 30122          | 17.37           | 5.63                        | Not Meeting Criteria |
| Indian River                | DE140-L01          | 1484525         | 174961       | 10.61          | 0.5            | 1056           | 0.60            | 7.92                        | Meeting Criteria     |
| Murderkill River            | DE220-001          | 1484080         | 431940       | 6.93           | 1              | 49318          | 11.42           | 3.21                        | Not Meeting Criteria |
| Indian River Bay            | DE280-E01          | 1484680         | 171442       | 8.68           | 4.4            | 0              | 0.00            | 6.60                        | Meeting Criteria     |
| Indian River                | DE140-004          | Whartons Bluff* | 24059        | 8.54           | 0.01           | 3017           | 12.54           | -                           | Not Meeting Criteria |

Table B3: Total Nitrogen Assessment

Results of total nitrogen sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Station Lower Confidence Limit (LCL) was compared with Statewide TN threshold of 3 mg/L.

| Watershed           | Assessment Unit ID | Station ID | Total Nitrogen |                | LCL  | UCL  | Attainment            |
|---------------------|--------------------|------------|----------------|----------------|------|------|-----------------------|
|                     |                    |            | Sample Count   | Average (mg/L) |      |      |                       |
| Naamans Creek       | DE230-001-02-01    | 101021     | 41             | 1.51           | 1.41 | 1.60 | Meeting Threshold     |
| Naamans Creek       | DE230-001-02-01    | 101031     | 41             | 1.06           | 0.95 | 1.17 | Meeting Threshold     |
| Naamans Creek       | DE230-001-02-01    | 101061     | 41             | 1.49           | 1.37 | 1.62 | Meeting Threshold     |
| Shellpot Creek      | DE300-001-01       | 102041     | 41             | 1.75           | 1.60 | 1.91 | Meeting Threshold     |
| Shellpot Creek      | DE300-001-02-01    | 102051     | 62             | 1.26           | 1.18 | 1.34 | Meeting Threshold     |
| Shellpot Creek      | DE300-001-02-01    | 102081     | 41             | 1.10           | 1.01 | 1.19 | Meeting Threshold     |
| Red Clay Creek      | DE260-001-03       | 103011     | 42             | 2.74           | 2.57 | 2.91 | Meeting Threshold     |
| Red Clay Creek      | DE260-001-03       | 103031     | 64             | 3.05           | 2.91 | 3.18 | Meeting Threshold     |
| Red Clay Creek      | DE260-001-02       | 103041     | 42             | 3.55           | 3.37 | 3.73 | Not Meeting Threshold |
| Red Clay Creek      | DE260-002-01       | 103061     | 42             | 1.93           | 1.83 | 2.04 | Meeting Threshold     |
| Brandywine Creek    | DE040-001          | 104011     | 42             | 2.94           | 2.80 | 3.09 | Meeting Threshold     |
| Brandywine Creek    | DE040-002-01       | 104021     | 63             | 2.89           | 2.76 | 3.03 | Meeting Threshold     |
| Brandywine Creek    | DE040-002-01       | 104051     | 41             | 2.67           | 2.48 | 2.86 | Meeting Threshold     |
| White Clay Creek    | DE320-001-01       | 105031     | 42             | 3.77           | 3.54 | 4.01 | Not Meeting Threshold |
| White Clay Creek    | DE320-001-01       | 105151     | 64             | 2.79           | 2.56 | 3.01 | Meeting Threshold     |
| White Clay Creek    | DE320-001-01       | 105171     | 42             | 3.44           | 3.24 | 3.65 | Not Meeting Threshold |
| Christina River     | DE120-002          | 106021     | 42             | 1.92           | 1.76 | 2.08 | Meeting Threshold     |
| Christina River     | DE120-003-01       | 106031     | 42             | 1.19           | 1.12 | 1.26 | Meeting Threshold     |
| Christina River     | DE120-004-02       | 106141     | 64             | 1.74           | 1.65 | 1.83 | Meeting Threshold     |
| Christina River     | DE120-006-02       | 106191     | 42             | 2.40           | 2.27 | 2.54 | Meeting Threshold     |
| Christina River     | DE120-007-01-05    | 106281     | 42             | 1.25           | 1.14 | 1.36 | Meeting Threshold     |
| Christina River     | DE120-001          | 106291     | 60             | 2.16           | 2.05 | 2.28 | Meeting Threshold     |
| Red Lion Creek      | DE270-001-02-01    | 107011     | 42             | 0.87           | 0.79 | 0.94 | Meeting Threshold     |
| Red Lion Creek      | DE270-001-01-01    | 107031     | 41             | 1.93           | 1.78 | 2.07 | Meeting Threshold     |
| C & D Canal East    | DE090-001          | 108021     | 42             | 1.92           | 1.81 | 2.03 | Meeting Threshold     |
| C & D Canal East    | DE090-L01          | 108111     | 40             | 1.11           | 1.03 | 1.19 | Meeting Threshold     |
| Appoquinimink River | DE010-001-02       | 109041     | 42             | 1.50           | 1.33 | 1.67 | Meeting Threshold     |
| Appoquinimink River | DE010-001-03-04    | 109071     | 42             | 1.62           | 1.43 | 1.80 | Meeting Threshold     |
| Appoquinimink River | DE010-001-01       | 109091     | 59             | 1.56           | 1.45 | 1.66 | Meeting Threshold     |
| Appoquinimink River | DE010-001-01       | 109121     | 42             | 1.58           | 1.48 | 1.68 | Meeting Threshold     |
| Appoquinimink River | DE010-L01          | 109131     | 42             | 1.57           | 1.39 | 1.75 | Meeting Threshold     |
| Appoquinimink River | DE010-001-02       | 109171     | 42             | 1.48           | 1.34 | 1.63 | Meeting Threshold     |

| Total Nitrogen      |                    |            |              |                |      |      |                       |
|---------------------|--------------------|------------|--------------|----------------|------|------|-----------------------|
| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL  | UCL  | Attainment            |
| Appoquinimink River | DE010-L03          | 109191     | 41           | 1.88           | 1.67 | 2.08 | Meeting Threshold     |
| Appoquinimink River | DE010-002-02-02    | 109251     | 64           | 4.88           | 4.69 | 5.06 | Not Meeting Threshold |
| Blackbird Creek     | DE030-002-03       | 110011     | 64           | 1.38           | 1.24 | 1.52 | Meeting Threshold     |
| Blackbird Creek     | DE030-001          | 110031     | 41           | 1.45           | 1.33 | 1.58 | Meeting Threshold     |
| Blackbird Creek     | DE030-001          | 110041     | 42           | 1.27           | 1.17 | 1.38 | Meeting Threshold     |
| Dragon Run Creek    | DE130-001          | 111011     | 42           | 1.56           | 1.38 | 1.74 | Meeting Threshold     |
| Dragon Run Creek    | DE130-002-02       | 111031     | 41           | 0.99           | 0.86 | 1.12 | Meeting Threshold     |
| Chester River       | DE100-002-01       | 112021     | 42           | 1.92           | 1.74 | 2.10 | Meeting Threshold     |
| Army Creek          | DE020-001-01       | 114011     | 39           | 1.91           | 1.26 | 2.57 | Meeting Threshold     |
| Army Creek          | DE020-001-01       | 114021     | 41           | 1.77           | 1.53 | 2.01 | Meeting Threshold     |
| Army Creek          | DE020-003-03       | 114041     | 39           | 0.91           | 0.79 | 1.02 | Meeting Threshold     |
| Army Creek          | DE020-003-02       | 114051     | 40           | 1.54           | 1.39 | 1.70 | Meeting Threshold     |
| Smyrna River        | DE310-L01          | 201011     | 42           | 1.40           | 1.19 | 1.61 | Meeting Threshold     |
| Smyrna River        | DE310-002-02       | 201021     | 42           | 1.52           | 1.33 | 1.72 | Meeting Threshold     |
| Smyrna River        | DE310-001          | 201041     | 42           | 1.44           | 1.31 | 1.56 | Meeting Threshold     |
| Smyrna River        | DE310-003-06       | 201051     | 42           | 1.85           | 1.64 | 2.06 | Meeting Threshold     |
| Smyrna River        | DE310-003-02       | 201161     | 41           | 3.48           | 3.26 | 3.70 | Not Meeting Threshold |
| Leipsic River       | DE160-L01          | 202021     | 41           | 1.67           | 1.45 | 1.90 | Meeting Threshold     |
| Leipsic River       | DE160-001          | 202031     | 42           | 1.22           | 1.11 | 1.33 | Meeting Threshold     |
| Leipsic River       | DE160-002-01       | 202191     | 41           | 3.39           | 3.22 | 3.56 | Not Meeting Threshold |
| Little Creek        | DE190-001-01       | 204031     | 42           | 1.90           | 1.77 | 2.03 | Meeting Threshold     |
| Little Creek        | DE190-001-02-03    | 204041     | 42           | 1.31           | 1.23 | 1.39 | Meeting Threshold     |
| St. Jones River     | DE290-001-01       | 205011     | 60           | 1.10           | 0.90 | 1.29 | Meeting Threshold     |
| St. Jones River     | DE290-001-01       | 205041     | 41           | 1.55           | 1.36 | 1.74 | Meeting Threshold     |
| St. Jones River     | DE290-001-02-01    | 205091     | 42           | 1.82           | 1.62 | 2.02 | Meeting Threshold     |
| St. Jones River     | DE290-003-05       | 205151     | 42           | 1.21           | 1.09 | 1.34 | Meeting Threshold     |
| St. Jones River     | DE290-L01          | 205181     | 42           | 3.79           | 3.31 | 4.27 | Not Meeting Threshold |
| St. Jones River     | DE290-L02          | 205191     | 47           | 1.32           | 1.20 | 1.44 | Meeting Threshold     |
| St. Jones River     | DE290-L03          | 205211     | 42           | 2.59           | 2.31 | 2.87 | Meeting Threshold     |
| Murderkill River    | DE220-005-01       | 206011     | 64           | 3.14           | 2.93 | 3.36 | Meeting Threshold     |
| Murderkill River    | DE220-004-01       | 206041     | 42           | 3.21           | 3.05 | 3.37 | Not Meeting Threshold |
| Murderkill River    | DE220-002-01       | 206091     | 42           | 2.53           | 2.17 | 2.88 | Meeting Threshold     |
| Murderkill River    | DE220-001          | 206101     | 59           | 0.99           | 0.86 | 1.12 | Meeting Threshold     |
| Murderkill River    | DE220-001          | 206141     | 39           | 1.64           | 1.41 | 1.86 | Meeting Threshold     |
| Murderkill River    | DE220-001          | 206231     | 39           | 2.39           | 2.07 | 2.72 | Meeting Threshold     |
| Murderkill River    | DE220-L05          | 206361     | 42           | 4.11           | 3.83 | 4.39 | Not Meeting Threshold |
| Murderkill River    | DE220-L03          | 206451     | 42           | 3.18           | 2.85 | 3.50 | Meeting Threshold     |

| Watershed            | Assessment Unit ID | Station ID | Total Nitrogen |                |       |       |                       |
|----------------------|--------------------|------------|----------------|----------------|-------|-------|-----------------------|
|                      |                    |            | Sample Count   | Average (mg/L) | LCL   | UCL   | Attainment            |
| Murderkill River     | DE220-002-04       | 206561     | 42             | 3.30           | 2.83  | 3.76  | Meeting Threshold     |
| Choptank River       | DE110-003-15       | 207021     | 42             | 1.62           | 1.54  | 1.69  | Meeting Threshold     |
| Choptank River       | DE110-001-02       | 207081     | 42             | 1.24           | 1.09  | 1.38  | Meeting Threshold     |
| Choptank River       | DE110-002-04       | 207091     | 42             | 2.39           | 2.24  | 2.54  | Meeting Threshold     |
| Choptank River       | DE110-003-14       | 207111     | 42             | 5.38           | 5.05  | 5.71  | Not Meeting Threshold |
| Mispillion River     | DE210-001          | 208021     | 42             | 3.68           | 3.25  | 4.11  | Not Meeting Threshold |
| Cedar Creek          | DE210-001          | 208061     | 60             | 1.01           | 0.86  | 1.16  | Meeting Threshold     |
| Mispillion River     | DE210-L06          | 208181     | 42             | 4.76           | 4.33  | 5.18  | Not Meeting Threshold |
| Mispillion River     | DE210-L02          | 208211     | 42             | 3.63           | 3.16  | 4.10  | Not Meeting Threshold |
| Mispillion River     | DE210-002-03       | 208231     | 64             | 5.38           | 5.09  | 5.67  | Not Meeting Threshold |
| Cedar Creek          | DE080-002          | 301021     | 42             | 3.21           | 2.74  | 3.68  | Meeting Threshold     |
| Cedar Creek          | DE080-001          | 301031     | 42             | 3.15           | 2.71  | 3.59  | Meeting Threshold     |
| Cedar Creek          | DE080-001          | 301091     | 42             | 1.19           | 0.96  | 1.41  | Meeting Threshold     |
| Marshyhope Creek     | DE200-001-03       | 302031     | 54             | 3.56           | 3.38  | 3.74  | Not Meeting Threshold |
| Broadkill River      | DE060-005-01       | 303011     | 42             | 26.12          | 21.44 | 30.79 | Not Meeting Threshold |
| Broadkill River      | DE060-005-01       | 303021     | 42             | 21.68          | 17.35 | 26.01 | Not Meeting Threshold |
| Broadkill River      | DE060-003          | 303031     | 42             | 3.49           | 3.10  | 3.88  | Not Meeting Threshold |
| Broadkill River      | DE060-001          | 303041     | 42             | 2.65           | 2.30  | 2.99  | Meeting Threshold     |
| Broadkill River      | DE060-L01          | 303051     | 41             | 1.96           | 1.70  | 2.23  | Meeting Threshold     |
| Broadkill River      | DE060-001          | 303061     | 45             | 0.88           | 0.72  | 1.05  | Meeting Threshold     |
| Broadkill River      | DE060-002          | 303171     | 42             | 7.55           | 6.96  | 8.14  | Not Meeting Threshold |
| Broadkill River      | DE060-002          | 303181     | 41             | 3.50           | 2.39  | 4.61  | Meeting Threshold     |
| Broadkill River      | DE060-004          | 303311     | 42             | 3.45           | 3.09  | 3.81  | Not Meeting Threshold |
| Broadkill River      | DE060-L03          | 303331     | 41             | 3.72           | 3.20  | 4.24  | Not Meeting Threshold |
| Broadkill River      | DE060-006          | 303341     | 42             | 8.92           | 8.39  | 9.44  | Not Meeting Threshold |
| Nanticoke River      | DE240-001          | 304151     | 42             | 3.59           | 3.28  | 3.89  | Not Meeting Threshold |
| Nanticoke River      | DE240-002-01       | 304191     | 54             | 5.36           | 5.06  | 5.67  | Not Meeting Threshold |
| Deep Creek           | DE240-L02          | 304311     | 42             | 2.49           | 2.28  | 2.71  | Meeting Threshold     |
| Nanticoke River      | DE240-L04          | 304321     | 42             | 3.78           | 3.17  | 4.39  | Not Meeting Threshold |
| Nanticoke River      | DE240-003          | 304371     | 42             | 3.52           | 3.07  | 3.96  | Not Meeting Threshold |
| Nanticoke River      | DE240-003          | 304381     | 42             | 9.24           | 8.81  | 9.66  | Not Meeting Threshold |
| Nanticoke River      | DE240-001          | 304471     | 42             | 3.53           | 3.29  | 3.78  | Not Meeting Threshold |
| Nanticoke River      | DE240-002-07       | 304681     | 42             | 4.08           | 3.90  | 4.26  | Not Meeting Threshold |
| Deep Creek           | DE240-004-01       | 304741     | 42             | 2.17           | 2.08  | 2.26  | Meeting Threshold     |
| Lewes-Rehoboth Canal | DE170-001          | 305011     | 42             | 0.63           | 0.56  | 0.70  | Meeting Threshold     |
| Lewes-Rehoboth Canal | DE170-001          | 305041     | 42             | 0.54           | 0.48  | 0.59  | Meeting Threshold     |
| Rehoboth Bay         | DE280-E01          | 306091     | 36             | 0.34           | 0.30  | 0.38  | Meeting Threshold     |



| Total Nitrogen   |                    |            |              |                |      |      |                       |
|------------------|--------------------|------------|--------------|----------------|------|------|-----------------------|
| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL  | UCL  | Attainment            |
| Indian River Bay | DE280-E01          | 306111     | 42           | 0.30           | 0.28 | 0.33 | Meeting Threshold     |
| Indian River Bay | DE140-E01          | 306121     | 56           | 0.44           | 0.41 | 0.48 | Meeting Threshold     |
| Indian River     | DE140-004          | 306181     | 40           | 2.79           | 2.18 | 3.39 | Meeting Threshold     |
| Indian River Bay | DE140-E01          | 306321     | 60           | 0.29           | 0.27 | 0.31 | Meeting Threshold     |
| Indian River     | DE140-E02          | 306331     | 37           | 1.11           | 0.96 | 1.25 | Meeting Threshold     |
| Indian River     | DE140-E02          | 306341     | 37           | 1.41           | 1.25 | 1.58 | Meeting Threshold     |
| Broad Creek      | DE050-L04          | 307011     | 42           | 4.47           | 4.16 | 4.77 | Not Meeting Threshold |
| Broad Creek      | DE050-001-01       | 307031     | 42           | 4.72           | 4.29 | 5.15 | Not Meeting Threshold |
| Broad Creek      | DE050-L07          | 307081     | 41           | 1.97           | 1.72 | 2.22 | Meeting Threshold     |
| Broad Creek      | DE050-L03          | 307171     | 42           | 3.01           | 2.55 | 3.46 | Meeting Threshold     |
| Broad Creek      | DE050-006-03       | 307371     | 25           | 1.52           | 1.30 | 1.74 | Meeting Threshold     |
| Rehoboth Bay     | DE280-L01          | 308031     | 41           | 1.69           | 1.29 | 2.09 | Meeting Threshold     |
| Rehoboth Bay     | DE280-001-01-01    | 308051     | 42           | 1.56           | 1.36 | 1.77 | Meeting Threshold     |
| Indian River     | DE140-L01          | 308071     | 63           | 2.96           | 2.74 | 3.18 | Meeting Threshold     |
| Indian River Bay | DE140-003          | 308091     | 42           | 2.01           | 1.69 | 2.33 | Meeting Threshold     |
| Indian River     | DE140-006          | 308281     | 42           | 1.63           | 1.47 | 1.79 | Meeting Threshold     |
| Indian River     | DE140-005          | 308341     | 42           | 2.72           | 2.55 | 2.89 | Meeting Threshold     |
| Indian River Bay | DE140-002          | 308361     | 39           | 3.53           | 3.11 | 3.96 | Not Meeting Threshold |
| Rehoboth Bay     | DE280-002          | 308371     | 39           | 2.71           | 2.36 | 3.06 | Meeting Threshold     |
| Iron Branch      | DE150-001-01       | 309041     | 42           | 2.70           | 2.22 | 3.19 | Meeting Threshold     |
| Little Assawoman | DE180-E01          | 310011     | 42           | 0.55           | 0.50 | 0.60 | Meeting Threshold     |
| Little Assawoman | DE180-003-01       | 310031     | 41           | 1.47           | 1.22 | 1.72 | Meeting Threshold     |
| Little Assawoman | DE180-E01          | 310071     | 41           | 0.62           | 0.56 | 0.67 | Meeting Threshold     |
| Little Assawoman | DE180-002-02       | 310121     | 64           | 1.70           | 1.56 | 1.84 | Meeting Threshold     |
| Buntings Branch  | DE070-001          | 311041     | 41           | 3.10           | 2.59 | 3.61 | Meeting Threshold     |
| Indian River Bay | DE180-001          | 312011     | 42           | 0.54           | 0.49 | 0.60 | Meeting Threshold     |
| Pocomoke River   | DE250-001-02       | 313011     | 36           | 2.42           | 2.14 | 2.71 | Meeting Threshold     |
| Gravelly Branch  | DE240-005-01       | 316011     | 41           | 3.01           | 2.52 | 3.50 | Meeting Threshold     |
| Gravelly Branch  | DE240-005-01       | 316031     | 42           | 2.03           | 1.93 | 2.14 | Meeting Threshold     |

Table B4: Total Phosphorus Assessment

Results of total phosphorus sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Station Lower Confidence Limit (LCL) was compared with Statewide TP threshold of 0.2 mg/L.

| Total Phosphorus    |                    |            |              |                |      |      |                   |
|---------------------|--------------------|------------|--------------|----------------|------|------|-------------------|
| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL  | UCL  | Attainment        |
| Naamans Creek       | DE230-001-02-01    | 101021     | 41           | 0.04           | 0.03 | 0.04 | Meeting Threshold |
| Naamans Creek       | DE230-001-02-01    | 101031     | 41           | 0.05           | 0.04 | 0.06 | Meeting Threshold |
| Naamans Creek       | DE230-001-02-01    | 101061     | 41           | 0.05           | 0.04 | 0.06 | Meeting Threshold |
| Shellpot Creek      | DE300-001-01       | 102041     | 41           | 0.11           | 0.10 | 0.13 | Meeting Threshold |
| Shellpot Creek      | DE300-001-02-01    | 102051     | 63           | 0.06           | 0.04 | 0.07 | Meeting Threshold |
| Shellpot Creek      | DE300-001-02-01    | 102081     | 40           | 0.04           | 0.03 | 0.05 | Meeting Threshold |
| Red Clay Creek      | DE260-001-03       | 103011     | 42           | 0.07           | 0.06 | 0.09 | Meeting Threshold |
| Red Clay Creek      | DE260-001-03       | 103031     | 64           | 0.07           | 0.06 | 0.09 | Meeting Threshold |
| Red Clay Creek      | DE260-001-02       | 103041     | 42           | 0.09           | 0.07 | 0.11 | Meeting Threshold |
| Red Clay Creek      | DE260-002-01       | 103061     | 42           | 0.04           | 0.02 | 0.07 | Meeting Threshold |
| Brandywine Creek    | DE040-001          | 104011     | 42           | 0.08           | 0.07 | 0.09 | Meeting Threshold |
| Brandywine Creek    | DE040-002-01       | 104021     | 63           | 0.10           | 0.07 | 0.12 | Meeting Threshold |
| Brandywine Creek    | DE040-002-01       | 104051     | 41           | 0.06           | 0.05 | 0.07 | Meeting Threshold |
| White Clay Creek    | DE320-001-01       | 105031     | 42           | 0.06           | 0.05 | 0.08 | Meeting Threshold |
| White Clay Creek    | DE320-001-01       | 105151     | 64           | 0.06           | 0.03 | 0.09 | Meeting Threshold |
| White Clay Creek    | DE320-001-01       | 105171     | 42           | 0.06           | 0.04 | 0.09 | Meeting Threshold |
| Christina River     | DE120-002          | 106021     | 42           | 0.08           | 0.07 | 0.09 | Meeting Threshold |
| Christina River     | DE120-003-01       | 106031     | 42           | 0.06           | 0.05 | 0.07 | Meeting Threshold |
| Christina River     | DE120-004-02       | 106141     | 64           | 0.05           | 0.04 | 0.07 | Meeting Threshold |
| Christina River     | DE120-006-02       | 106191     | 42           | 0.04           | 0.01 | 0.07 | Meeting Threshold |
| Christina River     | DE120-007-01-05    | 106281     | 42           | 0.05           | 0.02 | 0.07 | Meeting Threshold |
| Christina River     | DE120-001          | 106291     | 60           | 0.08           | 0.07 | 0.10 | Meeting Threshold |
| Red Lion Creek      | DE270-001-02-01    | 107011     | 42           | 0.05           | 0.03 | 0.07 | Meeting Threshold |
| Red Lion Creek      | DE270-001-01-01    | 107031     | 41           | 0.13           | 0.11 | 0.15 | Meeting Threshold |
| C & D Canal East    | DE090-001          | 108021     | 42           | 0.15           | 0.13 | 0.17 | Meeting Threshold |
| C & D Canal East    | DE090-L01          | 108111     | 40           | 0.05           | 0.04 | 0.06 | Meeting Threshold |
| Appoquinimink River | DE010-001-02       | 109041     | 42           | 0.15           | 0.13 | 0.17 | Meeting Threshold |
| Appoquinimink River | DE010-001-03-04    | 109071     | 42           | 0.16           | 0.14 | 0.17 | Meeting Threshold |
| Appoquinimink River | DE010-001-01       | 109091     | 59           | 0.16           | 0.13 | 0.20 | Meeting Threshold |
| Appoquinimink River | DE010-001-01       | 109121     | 42           | 0.13           | 0.12 | 0.14 | Meeting Threshold |
| Appoquinimink River | DE010-L01          | 109131     | 42           | 0.08           | 0.07 | 0.09 | Meeting Threshold |
| Appoquinimink River | DE010-001-02       | 109171     | 42           | 0.15           | 0.14 | 0.17 | Meeting Threshold |

### Total Phosphorus

| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL  | UCL  | Attainment            |
|---------------------|--------------------|------------|--------------|----------------|------|------|-----------------------|
| Appoquinimink River | DE010-L03          | 109191     | 41           | 0.06           | 0.05 | 0.07 | Meeting Threshold     |
| Appoquinimink River | DE010-002-02-02    | 109251     | 64           | 0.06           | 0.04 | 0.09 | Meeting Threshold     |
| Blackbird Creek     | DE030-002-03       | 110011     | 64           | 0.07           | 0.06 | 0.08 | Meeting Threshold     |
| Blackbird Creek     | DE030-001          | 110031     | 41           | 0.19           | 0.16 | 0.22 | Meeting Threshold     |
| Blackbird Creek     | DE030-001          | 110041     | 42           | 0.15           | 0.14 | 0.17 | Meeting Threshold     |
| Dragon Run Creek    | DE130-001          | 111011     | 42           | 0.13           | 0.11 | 0.14 | Meeting Threshold     |
| Dragon Run Creek    | DE130-002-02       | 111031     | 41           | 0.08           | 0.06 | 0.09 | Meeting Threshold     |
| Chester River       | DE100-002-01       | 112021     | 42           | 0.20           | 0.17 | 0.23 | Meeting Threshold     |
| Army Creek          | DE020-001-01       | 114011     | 39           | 0.18           | 0.15 | 0.22 | Meeting Threshold     |
| Army Creek          | DE020-001-01       | 114021     | 41           | 0.07           | 0.05 | 0.08 | Meeting Threshold     |
| Army Creek          | DE020-003-03       | 114041     | 39           | 0.09           | 0.06 | 0.12 | Meeting Threshold     |
| Army Creek          | DE020-003-02       | 114051     | 40           | 0.05           | 0.03 | 0.07 | Meeting Threshold     |
| Smyrna River        | DE310-L01          | 201011     | 42           | 0.11           | 0.10 | 0.13 | Meeting Threshold     |
| Smyrna River        | DE310-002-02       | 201021     | 42           | 0.14           | 0.13 | 0.16 | Meeting Threshold     |
| Smyrna River        | DE310-001          | 201041     | 42           | 0.19           | 0.16 | 0.21 | Meeting Threshold     |
| Smyrna River        | DE310-003-06       | 201051     | 42           | 0.19           | 0.16 | 0.22 | Meeting Threshold     |
| Smyrna River        | DE310-003-02       | 201161     | 41           | 0.07           | 0.06 | 0.08 | Meeting Threshold     |
| Leipsic River       | DE160-L01          | 202021     | 41           | 0.21           | 0.18 | 0.24 | Meeting Threshold     |
| Leipsic River       | DE160-001          | 202031     | 42           | 0.20           | 0.17 | 0.22 | Meeting Threshold     |
| Leipsic River       | DE160-002-01       | 202191     | 41           | 0.15           | 0.13 | 0.16 | Meeting Threshold     |
| Little Creek        | DE190-001-01       | 204031     | 42           | 0.25           | 0.22 | 0.27 | Not Meeting Threshold |
| Little Creek        | DE190-001-02-03    | 204041     | 42           | 0.12           | 0.11 | 0.14 | Meeting Threshold     |
| St. Jones River     | DE290-001-01       | 205011     | 60           | 0.11           | 0.09 | 0.13 | Meeting Threshold     |
| St. Jones River     | DE290-001-01       | 205041     | 41           | 0.16           | 0.14 | 0.19 | Meeting Threshold     |
| St. Jones River     | DE290-001-02-01    | 205091     | 42           | 0.16           | 0.14 | 0.18 | Meeting Threshold     |
| St. Jones River     | DE290-003-05       | 205151     | 42           | 0.19           | 0.16 | 0.21 | Meeting Threshold     |
| St. Jones River     | DE290-L01          | 205181     | 42           | 0.07           | 0.06 | 0.08 | Meeting Threshold     |
| St. Jones River     | DE290-L02          | 205191     | 47           | 0.14           | 0.12 | 0.16 | Meeting Threshold     |
| St. Jones River     | DE290-L03          | 205211     | 42           | 0.07           | 0.06 | 0.09 | Meeting Threshold     |
| Murderkill River    | DE220-005-01       | 206011     | 64           | 0.10           | 0.08 | 0.12 | Meeting Threshold     |
| Murderkill River    | DE220-004-01       | 206041     | 42           | 0.05           | 0.04 | 0.06 | Meeting Threshold     |
| Murderkill River    | DE220-002-01       | 206091     | 42           | 0.14           | 0.12 | 0.15 | Meeting Threshold     |
| Murderkill River    | DE220-001          | 206101     | 60           | 0.11           | 0.09 | 0.13 | Meeting Threshold     |
| Murderkill River    | DE220-001          | 206141     | 39           | 0.15           | 0.13 | 0.16 | Meeting Threshold     |
| Murderkill River    | DE220-001          | 206231     | 39           | 0.21           | 0.17 | 0.24 | Meeting Threshold     |
| Murderkill River    | DE220-L05          | 206361     | 42           | 0.07           | 0.06 | 0.08 | Meeting Threshold     |
| Murderkill River    | DE220-L03          | 206451     | 42           | 0.11           | 0.09 | 0.14 | Meeting Threshold     |

### Total Phosphorus

| Watershed            | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL   | UCL  | Attainment            |
|----------------------|--------------------|------------|--------------|----------------|-------|------|-----------------------|
| Murderkill River     | DE220-002-04       | 206561     | 42           | 0.10           | 0.09  | 0.12 | Meeting Threshold     |
| Choptank River       | DE110-003-15       | 207021     | 42           | 0.10           | 0.08  | 0.13 | Meeting Threshold     |
| Choptank River       | DE110-001-02       | 207081     | 42           | 0.13           | 0.10  | 0.16 | Meeting Threshold     |
| Choptank River       | DE110-002-04       | 207091     | 42           | 0.13           | 0.09  | 0.18 | Meeting Threshold     |
| Choptank River       | DE110-003-14       | 207111     | 42           | 0.12           | 0.08  | 0.16 | Meeting Threshold     |
| Mispillion River     | DE210-001          | 208021     | 42           | 0.08           | 0.06  | 0.10 | Meeting Threshold     |
| Cedar Creek          | DE210-001          | 208061     | 60           | 0.11           | 0.09  | 0.13 | Meeting Threshold     |
| Mispillion River     | DE210-L06          | 208181     | 42           | 0.06           | 0.04  | 0.09 | Meeting Threshold     |
| Mispillion River     | DE210-L02          | 208211     | 42           | 0.05           | 0.04  | 0.05 | Meeting Threshold     |
| Mispillion River     | DE210-002-03       | 208231     | 64           | 0.05           | 0.04  | 0.06 | Meeting Threshold     |
| Cedar Creek          | DE080-002          | 301021     | 42           | 0.02           | 0.02  | 0.03 | Meeting Threshold     |
| Cedar Creek          | DE080-001          | 301031     | 42           | 0.09           | 0.08  | 0.11 | Meeting Threshold     |
| Cedar Creek          | DE080-001          | 301091     | 42           | 0.12           | 0.10  | 0.15 | Meeting Threshold     |
| Marshyhope Creek     | DE200-001-03       | 302031     | 54           | 0.13           | 0.08  | 0.18 | Meeting Threshold     |
| Broadkill River      | DE060-005-01       | 303011     | 42           | 0.28           | 0.21  | 0.34 | Not Meeting Threshold |
| Broadkill River      | DE060-005-01       | 303021     | 42           | 0.23           | 0.18  | 0.28 | Meeting Threshold     |
| Broadkill River      | DE060-003          | 303031     | 42           | 0.04           | 0.03  | 0.06 | Meeting Threshold     |
| Broadkill River      | DE060-001          | 303041     | 42           | 0.11           | 0.10  | 0.13 | Meeting Threshold     |
| Broadkill River      | DE060-L01          | 303051     | 41           | 0.07           | 0.06  | 0.09 | Meeting Threshold     |
| Broadkill River      | DE060-001          | 303061     | 45           | 0.07           | 0.06  | 0.09 | Meeting Threshold     |
| Broadkill River      | DE060-002          | 303171     | 42           | 0.05           | 0.04  | 0.06 | Meeting Threshold     |
| Broadkill River      | DE060-002          | 303181     | 41           | 0.16           | 0.11  | 0.20 | Meeting Threshold     |
| Broadkill River      | DE060-004          | 303311     | 42           | 0.07           | 0.04  | 0.09 | Meeting Threshold     |
| Broadkill River      | DE060-L03          | 303331     | 41           | 0.05           | -0.01 | 0.12 | Meeting Threshold     |
| Broadkill River      | DE060-006          | 303341     | 42           | 0.03           | 0.01  | 0.06 | Meeting Threshold     |
| Nanticoke River      | DE240-001          | 304151     | 42           | 0.09           | 0.08  | 0.10 | Meeting Threshold     |
| Nanticoke River      | DE240-002-01       | 304191     | 54           | 0.08           | 0.04  | 0.11 | Meeting Threshold     |
| Deep Creek           | DE240-L02          | 304311     | 42           | 0.05           | 0.04  | 0.06 | Meeting Threshold     |
| Nanticoke River      | DE240-L04          | 304321     | 42           | 0.10           | 0.08  | 0.11 | Meeting Threshold     |
| Nanticoke River      | DE240-003          | 304371     | 42           | 0.18           | 0.12  | 0.23 | Meeting Threshold     |
| Nanticoke River      | DE240-003          | 304381     | 42           | 0.07           | 0.05  | 0.08 | Meeting Threshold     |
| Nanticoke River      | DE240-001          | 304471     | 42           | 0.07           | 0.06  | 0.08 | Meeting Threshold     |
| Nanticoke River      | DE240-002-07       | 304681     | 42           | 0.07           | 0.05  | 0.09 | Meeting Threshold     |
| Deep Creek           | DE240-004-01       | 304741     | 42           | 0.03           | 0.03  | 0.04 | Meeting Threshold     |
| Lewes-Rehoboth Canal | DE170-001          | 305011     | 42           | 0.06           | 0.05  | 0.06 | Meeting Threshold     |
| Lewes-Rehoboth Canal | DE170-001          | 305041     | 42           | 0.05           | 0.04  | 0.05 | Meeting Threshold     |
| Rehoboth Bay         | DE280-E01          | 306091     | 38           | 0.03           | 0.03  | 0.04 | Meeting Threshold     |

### Total Phosphorus

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL  | UCL  | Attainment        |
|------------------|--------------------|------------|--------------|----------------|------|------|-------------------|
| Indian River Bay | DE280-E01          | 306111     | 42           | 0.03           | 0.03 | 0.04 | Meeting Threshold |
| Indian River Bay | DE140-E01          | 306121     | 56           | 0.04           | 0.03 | 0.04 | Meeting Threshold |
| Indian River     | DE140-004          | 306181     | 40           | 0.17           | 0.07 | 0.27 | Meeting Threshold |
| Indian River Bay | DE140-E01          | 306321     | 60           | 0.03           | 0.03 | 0.04 | Meeting Threshold |
| Indian River     | DE140-E02          | 306331     | 37           | 0.06           | 0.05 | 0.07 | Meeting Threshold |
| Indian River     | DE140-E02          | 306341     | 37           | 0.07           | 0.05 | 0.09 | Meeting Threshold |
| Broad Creek      | DE050-L04          | 307011     | 42           | 0.08           | 0.06 | 0.09 | Meeting Threshold |
| Broad Creek      | DE050-001-01       | 307031     | 42           | 0.09           | 0.08 | 0.10 | Meeting Threshold |
| Broad Creek      | DE050-L07          | 307081     | 41           | 0.14           | 0.10 | 0.18 | Meeting Threshold |
| Broad Creek      | DE050-L03          | 307171     | 42           | 0.09           | 0.08 | 0.11 | Meeting Threshold |
| Broad Creek      | DE050-006-03       | 307371     | 25           | 0.12           | 0.09 | 0.15 | Meeting Threshold |
| Rehoboth Bay     | DE280-L01          | 308031     | 41           | 0.02           | 0.02 | 0.02 | Meeting Threshold |
| Rehoboth Bay     | DE280-001-01-01    | 308051     | 42           | 0.06           | 0.04 | 0.09 | Meeting Threshold |
| Indian River     | DE140-L01          | 308071     | 63           | 0.03           | 0.03 | 0.03 | Meeting Threshold |
| Indian River Bay | DE140-003          | 308091     | 42           | 0.07           | 0.06 | 0.08 | Meeting Threshold |
| Indian River     | DE140-006          | 308281     | 42           | 0.04           | 0.03 | 0.04 | Meeting Threshold |
| Indian River     | DE140-005          | 308341     | 42           | 0.02           | 0.01 | 0.02 | Meeting Threshold |
| Indian River Bay | DE140-002          | 308361     | 39           | 0.05           | 0.04 | 0.06 | Meeting Threshold |
| Rehoboth Bay     | DE280-002          | 308371     | 39           | 0.06           | 0.05 | 0.07 | Meeting Threshold |
| Iron Branch      | DE150-001-01       | 309041     | 42           | 0.05           | 0.04 | 0.06 | Meeting Threshold |
| Little Assawoman | DE180-E01          | 310011     | 42           | 0.03           | 0.03 | 0.03 | Meeting Threshold |
| Little Assawoman | DE180-003-01       | 310031     | 41           | 0.10           | 0.07 | 0.14 | Meeting Threshold |
| Little Assawoman | DE180-E01          | 310071     | 42           | 0.03           | 0.02 | 0.03 | Meeting Threshold |
| Little Assawoman | DE180-002-02       | 310121     | 64           | 0.07           | 0.06 | 0.07 | Meeting Threshold |
| Buntings Branch  | DE070-001          | 311041     | 41           | 0.10           | 0.07 | 0.14 | Meeting Threshold |
| Indian River Bay | DE180-001          | 312011     | 42           | 0.03           | 0.03 | 0.04 | Meeting Threshold |
| Pocomoke River   | DE250-001-02       | 313011     | 36           | 0.13           | 0.10 | 0.16 | Meeting Threshold |
| Gravelly Branch  | DE240-005-01       | 316011     | 41           | 0.02           | 0.02 | 0.02 | Meeting Threshold |
| Gravelly Branch  | DE240-005-01       | 316031     | 42           | 0.04           | 0.04 | 0.04 | Meeting Threshold |

Table B5: Dissolved Inorganic Nitrogen Assessment

Results of dissolved inorganic nitrogen sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Lower Confidence Limit (LCL) was compared with Inland Bays seasonal DIN criteria of 0.14 mg/L.

| Dissolved Inorganic Nitrogen |                    |            |              |                |       |       |                      |
|------------------------------|--------------------|------------|--------------|----------------|-------|-------|----------------------|
| Watershed                    | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL   | UCL   | Attainment           |
| Indian River                 | DE140-004          | 306181     | 27           | 1.158          | 0.724 | 1.592 | Not Meeting Criteria |
| Indian River Bay             | DE140-E01          | 306121     | 22           | 0.085          | 0.037 | 0.132 | Meeting Criteria     |
| Indian River Bay             | DE140-E01          | 306321     | 25           | 0.083          | 0.003 | 0.162 | Meeting Criteria     |
| Indian River                 | DE140-E02          | 306331     | 24           | 0.457          | 0.218 | 0.696 | Not Meeting Criteria |
| Indian River                 | DE140-E02          | 306341     | 26           | 0.534          | 0.304 | 0.765 | Not Meeting Criteria |
| Lewes-Rehoboth Canal         | DE170-001          | 305011     | 28           | 0.103          | 0.053 | 0.153 | Meeting Criteria     |
| Lewes-Rehoboth Canal         | DE170-001          | 305041     | 26           | 0.141          | 0.072 | 0.210 | Meeting Criteria     |
| Indian River Bay             | DE180-001          | 312011     | 27           | 0.100          | 0.047 | 0.153 | Meeting Criteria     |
| Little Assawoman             | DE180-003-01       | 310031     | 15           | 0.464          | 0.185 | 0.744 | Not Meeting Criteria |
| Little Assawoman             | DE180-E01          | 310011     | 17           | 0.039          | 0.022 | 0.056 | Meeting Criteria     |
| Little Assawoman             | DE180-E01          | 310071     | 16           | 0.057          | 0.028 | 0.087 | Meeting Criteria     |
| Rehoboth Bay                 | DE280-001-01-01    | 308051     | 26           | 0.888          | 0.619 | 1.157 | Not Meeting Criteria |
| Indian River Bay             | DE280-E01          | 306111     | 17           | 0.058          | 0.030 | 0.087 | Meeting Criteria     |
| Rehoboth Bay                 | DE280-E01          | 306091     | 15           | 0.130          | 0.040 | 0.220 | Meeting Criteria     |

Table B6: Dissolved Inorganic Phosphorus Assessment

Results of dissolved inorganic phosphorus sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Lower Confidence Limit (LCL) was compared with Inland Bays seasonal DIP criteria of 0.01 mg/L.

| Dissolve Inorganic Phosphorus |                    |            |              |                |        |       |                      |
|-------------------------------|--------------------|------------|--------------|----------------|--------|-------|----------------------|
| Watershed                     | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL    | UCL   | Attainment           |
| Indian River                  | DE140-004          | 306181     | 8            | 0.012          | 0.005  | 0.018 | Meeting Criteria     |
| Indian River Bay              | DE140-E01          | 306121     | 7            | 0.008          | 0.004  | 0.011 | Meeting Criteria     |
| Indian River Bay              | DE140-E01          | 306321     | 8            | 0.018          | 0.007  | 0.028 | Meeting Criteria     |
| Indian River                  | DE140-E02          | 306331     | 7            | 0.014          | 0.002  | 0.026 | Meeting Criteria     |
| Indian River                  | DE140-E02          | 306341     | 7            | 0.012          | 0.002  | 0.021 | Meeting Criteria     |
| Lewes-Rehoboth Canal          | DE170-001          | 305011     | 11           | 0.034          | 0.014  | 0.054 | Not Meeting Criteria |
| Lewes-Rehoboth Canal          | DE170-001          | 305041     | 10           | 0.021          | 0.012  | 0.031 | Not Meeting Criteria |
| Indian River Bay              | DE180-001          | 312011     | 8            | 0.013          | 0.002  | 0.023 | Meeting Criteria     |
| Little Assawoman              | DE180-003-01       | 310031     | 9            | 0.045          | -0.013 | 0.103 | Meeting Criteria     |
| Little Assawoman              | DE180-E01          | 310011     | 5            | 0.012          | -0.002 | 0.027 | Meeting Criteria     |
| Little Assawoman              | DE180-E01          | 310071     | 4            | 0.013          | -0.010 | 0.035 | Meeting Criteria     |
| Rehoboth Bay                  | DE280-001-01-01    | 308051     | 8            | 0.014          | 0.008  | 0.019 | Meeting Criteria     |
| Indian River Bay              | DE280-E01          | 306111     | 7            | 0.015          | 0.002  | 0.028 | Meeting Criteria     |
| Rehoboth Bay                  | DE280-E01          | 306091     | 6            | 0.016          | 0.002  | 0.030 | Meeting Criteria     |

Table B7: Total Suspended Solids Assessment

Results of total suspended solids sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Lower Confidence Limit (LCL) was compared with Inland Bays seasonal TSS criteria of 20 mg/L.

| Total Suspended Solids |                    |            |              |                |       |       |                      |
|------------------------|--------------------|------------|--------------|----------------|-------|-------|----------------------|
| Watershed              | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | LCL   | UCL   | Attainment           |
| Lewes-Rehoboth Canal   | DE170-001          | 305011     | 28           | 20.75          | 16.72 | 24.77 | Meeting Criteria     |
| Lewes-Rehoboth Canal   | DE170-001          | 305041     | 28           | 29.90          | 24.20 | 35.60 | Not Meeting Criteria |
| Rehoboth Bay           | DE280-E01          | 306091     | 27           | 26.31          | 14.50 | 38.12 | Meeting Criteria     |
| Indian River Bay       | DE280-E01          | 306111     | 28           | 22.15          | 17.17 | 27.13 | Meeting Criteria     |
| Indian River Bay       | DE140-E01          | 306121     | 38           | 25.24          | 20.61 | 29.86 | Not Meeting Criteria |
| Indian River           | DE140-004          | 306181     | 28           | 56.66          | 42.25 | 71.06 | Not Meeting Criteria |
| Indian River Bay       | DE140-E01          | 306321     | 40           | 25.78          | 20.06 | 31.49 | Not Meeting Criteria |
| Indian River           | DE140-E02          | 306331     | 27           | 36.69          | 28.09 | 45.30 | Not Meeting Criteria |
| Indian River           | DE140-E02          | 306341     | 27           | 36.99          | 29.16 | 44.81 | Not Meeting Criteria |
| Rehoboth Bay           | DE280-001-01-01    | 308051     | 28           | 14.73          | 9.96  | 19.50 | Meeting Criteria     |
| Little Assawoman       | DE180-E01          | 310011     | 28           | 16.68          | 11.85 | 21.51 | Meeting Criteria     |
| Little Assawoman       | DE180-003-01       | 310031     | 28           | 22.87          | 18.31 | 27.43 | Meeting Criteria     |
| Little Assawoman       | DE180-E01          | 310071     | 28           | 12.50          | 9.17  | 15.84 | Meeting Criteria     |
| Indian River Bay       | DE180-001          | 312011     | 28           | 14.81          | 11.36 | 18.26 | Meeting Criteria     |



Table B8: Ammonia Assessment

Results of ammonia sample data collected from January 2018 through December 2022 and assessed for the 2024 IR cycle. Failed samples indicate number of times each sample exceeded the criteria.

| Ammonia             |                    |            |              |                |                        |                         |                |                  |
|---------------------|--------------------|------------|--------------|----------------|------------------------|-------------------------|----------------|------------------|
| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | Salinity Average (ppt) | Criteria Average (mg/L) | Failed Samples | Attainment       |
| Naamans Creek       | DE230-001-02-01    | 101021     | 41           | 0.045          | 0.24                   | 2.44                    | 0              | Meeting Criteria |
| Naamans Creek       | DE230-001-02-01    | 101031     | 41           | 0.038          | 0.20                   | 1.96                    | 0              | Meeting Criteria |
| Naamans Creek       | DE230-001-02-01    | 101061     | 41           | 0.043          | 0.17                   | 2.19                    | 0              | Meeting Criteria |
| Shellpot Creek      | DE300-001-01       | 102041     | 41           | 0.541          | 0.36                   | 2.53                    | 0              | Meeting Criteria |
| Shellpot Creek      | DE300-001-02-01    | 102051     | 63           | 0.036          | 0.28                   | 1.97                    | 0              | Meeting Criteria |
| Shellpot Creek      | DE300-001-02-01    | 102081     | 41           | 0.025          | 0.23                   | 2.23                    | 0              | Meeting Criteria |
| Red Clay Creek      | DE260-001-03       | 103011     | 42           | 0.044          | 0.19                   | 1.97                    | 0              | Meeting Criteria |
| Red Clay Creek      | DE260-001-03       | 103031     | 64           | 0.059          | 0.21                   | 2.05                    | 0              | Meeting Criteria |
| Red Clay Creek      | DE260-001-02       | 103041     | 42           | 0.062          | 0.24                   | 1.99                    | 0              | Meeting Criteria |
| Red Clay Creek      | DE260-002-01       | 103061     | 42           | 0.032          | 0.15                   | 2.11                    | 0              | Meeting Criteria |
| Brandywine Creek    | DE040-001          | 104011     | 42           | 0.059          | 0.18                   | 1.77                    | 0              | Meeting Criteria |
| Brandywine Creek    | DE040-002-01       | 104021     | 63           | 0.061          | 0.19                   | 1.86                    | 0              | Meeting Criteria |
| Brandywine Creek    | DE040-002-01       | 104051     | 41           | 0.045          | 0.19                   | 2.08                    | 0              | Meeting Criteria |
| White Clay Creek    | DE320-001-01       | 105031     | 42           | 0.044          | 0.17                   | 2.27                    | 0              | Meeting Criteria |
| White Clay Creek    | DE320-001-01       | 105151     | 64           | 0.052          | 0.18                   | 2.13                    | 0              | Meeting Criteria |
| White Clay Creek    | DE320-001-01       | 105171     | 42           | 0.050          | 0.17                   | 2.17                    | 0              | Meeting Criteria |
| Christina River     | DE120-002          | 106021     | 42           | 0.076          | 0.25                   | 2.39                    | 0              | Meeting Criteria |
| Christina River     | DE120-003-01       | 106031     | 42           | 0.120          | 0.15                   | 2.73                    | 0              | Meeting Criteria |
| Christina River     | DE120-004-02       | 106141     | 64           | 0.068          | 0.17                   | 2.60                    | 0              | Meeting Criteria |
| Christina River     | DE120-006-02       | 106191     | 42           | 0.032          | 0.13                   | 2.63                    | 0              | Meeting Criteria |
| Christina River     | DE120-007-01-05    | 106281     | 42           | 0.080          | 0.33                   | 1.74                    | 0              | Meeting Criteria |
| Christina River     | DE120-001          | 106291     | 60           | 0.146          | 0.43                   | 1.92                    | 0              | Meeting Criteria |
| Red Lion Creek      | DE270-001-02-01    | 107011     | 42           | 0.058          | 0.13                   | 2.85                    | 0              | Meeting Criteria |
| Red Lion Creek      | DE270-001-01-01    | 107031     | 41           | 0.245          | 0.30                   | 2.81                    | 0              | Meeting Criteria |
| C & D Canal East    | DE090-001          | 108021     | 36           | 0.137          | 2.56                   | 2.54                    | 0              | Meeting Criteria |
| C & D Canal East    | DE090-L01          | 108111     | 40           | 0.106          |                        | 2.05                    | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-02       | 109041     | 39           | 0.116          | 2.20                   | 2.49                    | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-03-04    | 109071     | 38           | 0.167          | 2.16                   | 2.58                    | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109091     | 30           | 0.135          | 3.22                   | 2.52                    | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109121     | 33           | 0.122          | 3.13                   | 2.63                    | 0              | Meeting Criteria |

### Ammonia

| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | Salinity Average (ppt) | Criteria Average (mg/L) | Failed Samples | Attainment       |
|---------------------|--------------------|------------|--------------|----------------|------------------------|-------------------------|----------------|------------------|
| Appoquinimink River | DE010-L01          | 109131     | 42           | 0.067          | 0.18                   | 2.01                    | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-02       | 109171     | 36           | 0.135          | 2.35                   | 2.49                    | 0              | Meeting Criteria |
| Appoquinimink River | DE010-L03          | 109191     | 41           | 0.101          | 0.14                   | 2.47                    | 0              | Meeting Criteria |
| Appoquinimink River | DE010-002-02-02    | 109251     | 64           | 0.054          | 0.14                   | 2.99                    | 0              | Meeting Criteria |
| Blackbird Creek     | DE030-002-03       | 110011     | 64           | 0.087          | 0.14                   | 2.19                    | 0              | Meeting Criteria |
| Blackbird Creek     | DE030-001          | 110031     | 35           | 0.112          | 1.76                   | 2.17                    | 0              | Meeting Criteria |
| Blackbird Creek     | DE030-001          | 110041     | 28           | 0.120          | 2.85                   | 2.12                    | 0              | Meeting Criteria |
| Dragon Run Creek    | DE130-001          | 111011     | 40           | 0.173          | 1.31                   | 2.84                    | 0              | Meeting Criteria |
| Dragon Run Creek    | DE130-002-02       | 111031     | 41           | 0.094          | 0.19                   | 2.85                    | 0              | Meeting Criteria |
| Chester River       | DE100-002-01       | 112021     | 42           | 0.091          | 0.16                   | 2.80                    | 0              | Meeting Criteria |
| Army Creek          | DE020-001-01       | 114011     | 39           | 0.144          | 0.61                   | 2.61                    | 0              | Meeting Criteria |
| Army Creek          | DE020-001-01       | 114021     | 41           | 0.077          | 0.18                   | 2.70                    | 0              | Meeting Criteria |
| Army Creek          | DE020-003-03       | 114041     | 39           | 0.148          | 0.25                   | 2.79                    | 0              | Meeting Criteria |
| Army Creek          | DE020-003-02       | 114051     | 40           | 0.078          | 0.26                   | 2.86                    | 0              | Meeting Criteria |
| Smyrna River        | DE310-L01          | 201011     | 42           | 0.048          | 0.12                   | 2.56                    | 0              | Meeting Criteria |
| Smyrna River        | DE310-002-02       | 201021     | 42           | 0.041          | 0.11                   | 3.13                    | 0              | Meeting Criteria |
| Smyrna River        | DE310-001          | 201041     | 17           | 0.172          | 3.27                   | 2.60                    | 0              | Meeting Criteria |
| Smyrna River        | DE310-003-06       | 201051     | 39           | 0.173          | 1.56                   | 2.86                    | 0              | Meeting Criteria |
| Smyrna River        | DE310-003-02       | 201161     | 1            | 0.110          | 0.11                   | 4.64                    | 0              | Meeting Criteria |
| Smyrna River        | DE310-003-02       | 201161     | 41           | 0.180          | 0.11                   | 3.25                    | 0              | Meeting Criteria |
| Leipsic River       | DE160-L01          | 202021     | 41           | 0.085          | 0.11                   | 2.43                    | 0              | Meeting Criteria |
| Leipsic River       | DE160-001          | 202031     | 7            | 0.151          | 2.90                   | 3.17                    | 0              | Meeting Criteria |
| Leipsic River       | DE160-002-01       | 202191     | 41           | 0.062          | 0.12                   | 2.69                    | 0              | Meeting Criteria |
| Little Creek        | DE190-001-01       | 204031     | 14           | 0.347          | 2.72                   | 2.84                    | 0              | Meeting Criteria |
| Little Creek        | DE190-001-02-03    | 204041     | 42           | 0.101          | 0.27                   | 2.94                    | 0              | Meeting Criteria |
| St. Jones River     | DE290-001-01       | 205011     | 2            | 0.229          | 0.64                   | 3.79                    | 0              | Meeting Criteria |
| St. Jones River     | DE290-001-01       | 205041     | 9            | 0.170          | 2.18                   | 2.63                    | 0              | Meeting Criteria |
| St. Jones River     | DE290-001-02-01    | 205091     | 30           | 0.159          | 1.68                   | 2.34                    | 0              | Meeting Criteria |
| St. Jones River     | DE290-003-05       | 205151     | 42           | 0.072          | 0.11                   | 2.64                    | 0              | Meeting Criteria |
| St. Jones River     | DE290-L01          | 205181     | 42           | 0.067          | 0.13                   | 1.99                    | 0              | Meeting Criteria |
| St. Jones River     | DE290-L02          | 205191     | 47           | 0.066          | 0.12                   | 2.00                    | 0              | Meeting Criteria |
| St. Jones River     | DE290-L03          | 205211     | 42           | 0.071          | 0.21                   | 1.72                    | 0              | Meeting Criteria |
| Murderkill River    | DE220-005-01       | 206011     | 64           | 0.057          | 0.13                   | 2.72                    | 0              | Meeting Criteria |
| Murderkill River    | DE220-004-01       | 206041     | 42           | 0.134          | 0.10                   | 3.16                    | 0              | Meeting Criteria |
| Murderkill River    | DE220-002-01       | 206091     | 34           | 0.186          | 1.45                   | 2.44                    | 0              | Meeting Criteria |

### Ammonia

| Watershed         | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | Salinity Average (ppt) | Criteria Average (mg/L) | Failed Samples | Attainment       |
|-------------------|--------------------|------------|--------------|----------------|------------------------|-------------------------|----------------|------------------|
| Murderkill River  | DE220-001          | 206141     | 4            | 0.140          | 1.66                   | 2.40                    | 0              | Meeting Criteria |
| Murderkill River  | DE220-001          | 206231     | 28           | 0.485          | 2.03                   | 2.13                    | 1              | Meeting Criteria |
| Murderkill River  | DE220-L05          | 206361     | 42           | 0.078          | 0.11                   | 2.33                    | 0              | Meeting Criteria |
| Murderkill River  | DE220-L03          | 206451     | 42           | 0.058          | 0.10                   | 2.29                    | 0              | Meeting Criteria |
| Murderkill River  | DE220-002-04       | 206561     | 42           | 0.094          | 0.22                   | 2.94                    | 0              | Meeting Criteria |
| Choptank River    | DE110-003-15       | 207021     | 42           | 0.099          | 0.10                   | 3.09                    | 0              | Meeting Criteria |
| Choptank River    | DE110-001-02       | 207081     | 42           | 0.093          | 0.11                   | 2.89                    | 0              | Meeting Criteria |
| Choptank River    | DE110-002-04       | 207091     | 42           | 0.087          | 0.11                   | 3.10                    | 0              | Meeting Criteria |
| Choptank River    | DE110-003-14       | 207111     | 42           | 0.079          | 0.11                   | 3.20                    | 0              | Meeting Criteria |
| Misphillion River | DE210-001          | 208021     | 42           | 0.123          | 0.46                   | 2.66                    | 0              | Meeting Criteria |
| Misphillion River | DE210-L06          | 208181     | 42           | 0.142          | 0.11                   | 2.73                    | 0              | Meeting Criteria |
| Misphillion River | DE210-L02          | 208211     | 42           | 0.035          | 0.10                   | 2.32                    | 0              | Meeting Criteria |
| Misphillion River | DE210-002-03       | 208231     | 64           | 0.162          | 0.23                   | 3.00                    | 1              | Meeting Criteria |
| Cedar Creek       | DE080-002          | 301021     | 42           | 0.049          | 0.13                   | 1.40                    | 0              | Meeting Criteria |
| Cedar Creek       | DE080-001          | 301031     | 42           | 0.083          | 1.28                   | 1.68                    | 0              | Meeting Criteria |
| Marshyhope Creek  | DE200-001-03       | 302031     | 54           | 0.109          | 0.15                   | 3.08                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-005-01       | 303011     | 42           | 0.311          | 0.73                   | 2.20                    | 1              | Meeting Criteria |
| Broadkill River   | DE060-005-01       | 303021     | 42           | 0.077          | 0.67                   | 2.01                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-003          | 303031     | 42           | 0.052          | 0.13                   | 2.79                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-001          | 303041     | 24           | 0.125          | 2.26                   | 2.25                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-L01          | 303051     | 41           | 0.261          | 0.10                   | 2.07                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-002          | 303171     | 42           | 0.027          | 0.13                   | 3.28                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-002          | 303181     | 41           | 0.045          | 0.18                   | 2.93                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-004          | 303311     | 42           | 0.088          | 0.12                   | 3.30                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-L03          | 303331     | 41           | 0.047          | 0.14                   | 1.50                    | 0              | Meeting Criteria |
| Broadkill River   | DE060-006          | 303341     | 42           | 0.031          | 0.11                   | 3.26                    | 0              | Meeting Criteria |
|                   |                    | 304011     | 42           | 0.065          | 0.27                   | 2.64                    | 0              | Meeting Criteria |
| Nanticoke River   | DE240-001          | 304151     | 42           | 0.068          | 0.16                   | 2.69                    | 0              | Meeting Criteria |
| Nanticoke River   | DE240-002-01       | 304191     | 54           | 0.085          |                        | 3.05                    | 0              | Meeting Criteria |
| Deep Creek        | DE240-L02          | 304311     | 42           | 0.058          |                        | 2.66                    | 0              | Meeting Criteria |
| Nanticoke River   | DE240-L04          | 304321     | 42           | 0.075          | 0.10                   | 2.49                    | 0              | Meeting Criteria |
| Nanticoke River   | DE240-003          | 304371     | 42           | 0.078          | 0.13                   | 3.03                    | 0              | Meeting Criteria |
| Nanticoke River   | DE240-003          | 304381     | 42           | 0.060          | 0.10                   | 3.18                    | 0              | Meeting Criteria |
| Nanticoke River   | DE240-001          | 304471     | 42           | 0.045          | 0.14                   | 2.52                    | 0              | Meeting Criteria |
| Nanticoke River   | DE240-002-07       | 304681     | 42           | 0.062          | 0.13                   | 3.06                    | 0              | Meeting Criteria |

### Ammonia

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (mg/L) | Salinity Average (ppt) | Criteria Average (mg/L) | Failed Samples | Attainment       |
|------------------|--------------------|------------|--------------|----------------|------------------------|-------------------------|----------------|------------------|
| Deep Creek       | DE240-004-01       | 304741     | 42           | 0.044          |                        | 3.14                    | 0              | Meeting Criteria |
| Indian River     | DE140-004          | 306181     | 4            | 0.181          | 3.10                   | 2.47                    | 0              | Meeting Criteria |
| Broad Creek      | DE050-L04          | 307011     | 42           | 0.078          | 0.10                   | 2.38                    | 0              | Meeting Criteria |
| Broad Creek      | DE050-001-01       | 307031     | 42           | 0.066          | 0.15                   | 2.64                    | 0              | Meeting Criteria |
| Broad Creek      | DE050-L07          | 307081     | 41           | 0.057          | 0.15                   | 2.11                    | 0              | Meeting Criteria |
| Broad Creek      | DE050-L03          | 307171     | 42           | 0.061          | 0.11                   | 2.33                    | 0              | Meeting Criteria |
| Broad Creek      | DE050-006-03       | 307371     | 25           | 0.115          | 0.21                   | 3.18                    | 0              | Meeting Criteria |
| Rehoboth Bay     | DE280-L01          | 308031     | 41           | 0.085          | 0.19                   | 2.25                    | 0              | Meeting Criteria |
| Rehoboth Bay     | DE280-001-01-01    | 308051     | 10           | 0.029          | 1.63                   | 4.14                    | 0              | Meeting Criteria |
| Indian River     | DE140-L01          | 308071     | 63           | 0.041          | 0.23                   | 2.60                    | 0              | Meeting Criteria |
| Indian River Bay | DE140-003          | 308091     | 42           | 0.187          | 0.10                   | 3.40                    | 0              | Meeting Criteria |
| Indian River     | DE140-006          | 308281     | 42           | 0.079          |                        | 3.05                    | 0              | Meeting Criteria |
| Indian River     | DE140-005          | 308341     | 42           | 0.030          | 0.10                   | 3.37                    | 0              | Meeting Criteria |
| Indian River Bay | DE140-002          | 308361     | 39           | 0.136          | 0.18                   | 2.41                    | 0              | Meeting Criteria |
| Rehoboth Bay     | DE280-002          | 308371     | 39           | 0.061          | 0.38                   | 2.29                    | 0              | Meeting Criteria |
| Iron Branch      | DE150-001-01       | 309041     | 42           | 0.112          | 0.10                   | 3.36                    | 0              | Meeting Criteria |
| Little Assawoman | DE180-003-01       | 310031     | 6            | 0.168          | 1.84                   | 3.22                    | 0              | Meeting Criteria |
| Little Assawoman | DE180-002-02       | 310121     | 64           | 0.182          | 0.29                   | 2.50                    | 0              | Meeting Criteria |
| Buntings Branch  | DE070-001          | 311041     | 41           | 0.143          | 0.11                   | 3.35                    | 0              | Meeting Criteria |
| Pocomoke River   | DE250-001-02       | 313011     | 36           | 0.118          | 0.11                   | 3.20                    | 0              | Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316011     | 41           | 0.046          |                        | 3.05                    | 0              | Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316031     | 42           | 0.058          |                        | 3.09                    | 0              | Meeting Criteria |

Table B9: Zinc Assessment

Results of zinc sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Failed samples indicate number of times each sample exceeded the criteria.

| Watershed           | Assessment Unit ID | Station ID | Sample Count | Zinc                   |                | Chronic Criteria Average (µ/L) | Failed Samples | Attainment       |
|---------------------|--------------------|------------|--------------|------------------------|----------------|--------------------------------|----------------|------------------|
|                     |                    |            |              | Salinity Average (ppt) | Average (µg/L) |                                |                |                  |
| Red Clay Creek      | DE260-001-03       | 103011     | 42           | 0.19                   | 13.11          | 146.11                         | 0              | Meeting Criteria |
| Red Clay Creek      | DE260-001-03       | 103031     | 64           | 0.21                   | 12.63          | 153.09                         | 0              | Meeting Criteria |
| Red Clay Creek      | DE260-001-02       | 103041     | 42           | 0.24                   | 19.97          | 174.10                         | 0              | Meeting Criteria |
| Red Clay Creek      | DE260-002-01       | 103061     | 42           | 0.15                   | 3.00           | 114.53                         | 0              | Meeting Criteria |
| Brandywine Creek    | DE040-001          | 104011     | 40           | 0.18                   | 2.52           | 123.68                         | 0              | Meeting Criteria |
| Brandywine Creek    | DE040-002-01       | 104021     | 63           | 0.19                   | 3.11           | 122.62                         | 0              | Meeting Criteria |
| Brandywine Creek    | DE040-002-01       | 104051     | 41           | 0.19                   | 2.76           | 123.99                         | 0              | Meeting Criteria |
| White Clay Creek    | DE320-001-01       | 105031     | 40           | 0.17                   | 3.25           | 143.57                         | 0              | Meeting Criteria |
| White Clay Creek    | DE320-001-01       | 105151     | 64           | 0.18                   | 5.02           | 125.40                         | 0              | Meeting Criteria |
| White Clay Creek    | DE320-001-01       | 105171     | 41           | 0.17                   | 4.43           | 136.44                         | 0              | Meeting Criteria |
| Christina River     | DE120-002          | 106021     | 42           | 0.25                   | 8.73           | 123.99                         | 0              | Meeting Criteria |
| Christina River     | DE120-003-01       | 106031     | 42           | 0.15                   | 6.23           | 74.68                          | 0              | Meeting Criteria |
| Christina River     | DE120-004-02       | 106141     | 64           | 0.17                   | 10.38          | 88.89                          | 1              | Meeting Criteria |
| Christina River     | DE120-006-02       | 106191     | 41           | 0.13                   | 3.54           | 89.09                          | 0              | Meeting Criteria |
| Christina River     | DE120-007-01-05    | 106281     | 42           | 0.33                   | 33.44          | 160.00                         | 0              | Meeting Criteria |
| Christina River     | DE120-001          | 106291     | 59           | 0.43                   | 5.22           | 145.53                         | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-02       | 109041     | 38           | 2.49                   | 5.41           | 393.07                         | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-03-04    | 109071     | 39           | 2.55                   | 4.31           | 371.29                         | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109091     | 51           | 5.60                   | 6.33           | 81.00                          | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109121     | 38           | 4.16                   | 4.71           | 441.31                         | 0              | Meeting Criteria |
| Appoquinimink River | DE010-L01          | 109131     | 32           | 0.18                   | 2.54           | 103.95                         | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-02       | 109171     | 38           | 2.91                   | 5.37           | 387.04                         | 0              | Meeting Criteria |
| Appoquinimink River | DE010-L03          | 109191     | 41           | 0.14                   | 7.44           | 96.14                          | 0              | Meeting Criteria |
| Appoquinimink River | DE010-002-02-02    | 109251     | 64           | 0.14                   | 5.96           | 94.27                          | 0              | Meeting Criteria |
| St. Jones River     | DE290-L02          | 205191     | 1            | 0.12                   | 0.90           | 63.11                          | 0              | Meeting Criteria |
| Murderkill River    | DE220-005-01       | 206011     | 64           | 0.13                   | 9.70           | 69.73                          | 0              | Meeting Criteria |
| Murderkill River    | DE220-004-01       | 206041     | 42           | 0.10                   | 17.78          | 66.50                          | 1              | Meeting Criteria |
| Murderkill River    | DE220-002-01       | 206091     | 38           | 2.88                   | 5.44           | 227.20                         | 0              | Meeting Criteria |
| Murderkill River    | DE220-001          | 206101     | 26           | 20.13                  | 10.18          | 81.00                          | 0              | Meeting Criteria |
| Murderkill River    | DE220-001          | 206141     | 21           | 11.64                  | 12.34          | 81.00                          | 1              | Meeting Criteria |

Zinc

| Watershed            | Assessment Unit ID | Station ID | Sample Count | Salinity Average (ppt) | Average (µg/L) | Chronic Criteria Average (µ/L) | Failed Samples | Attainment       |
|----------------------|--------------------|------------|--------------|------------------------|----------------|--------------------------------|----------------|------------------|
| Murderkill River     | DE220-001          | 206231     | 35           | 4.03                   | 8.74           | 252.68                         | 0              | Meeting Criteria |
| Murderkill River     | DE220-L05          | 206361     | 40           | 0.11                   | 4.34           | 79.10                          | 0              | Meeting Criteria |
| Murderkill River     | DE220-L03          | 206451     | 40           | 0.10                   | 4.65           | 74.79                          | 0              | Meeting Criteria |
| Murderkill River     | DE220-002-04       | 206561     | 42           | 0.22                   | 3.86           | 90.11                          | 0              | Meeting Criteria |
| Marshyhope Creek     | DE200-001-03       | 302031     | 54           | 0.15                   | 16.99          | 55.32                          | 0              | Meeting Criteria |
| Nanticoke River      | DE240-001          | 304151     | 41           | 0.16                   | 19.85          | 53.10                          | 1              | Meeting Criteria |
| Nanticoke River      | DE240-002-01       | 304191     | 54           | 0.10                   | 18.81          | 54.45                          | 1              | Meeting Criteria |
| Deep Creek           | DE240-L02          | 304311     | 42           | 0.10                   | 8.58           | 37.57                          | 0              | Meeting Criteria |
| Nanticoke River      | DE240-L04          | 304321     | 40           | 0.10                   | 9.04           | 65.76                          | 1              | Meeting Criteria |
| Nanticoke River      | DE240-003          | 304371     | 42           | 0.13                   | 11.12          | 66.49                          | 1              | Meeting Criteria |
| Nanticoke River      | DE240-003          | 304381     | 42           | 0.10                   | 15.47          | 76.83                          | 1              | Meeting Criteria |
| Nanticoke River      | DE240-001          | 304471     | 42           | 0.14                   | 6.85           | 49.50                          | 0              | Meeting Criteria |
| Nanticoke River      | DE240-002-07       | 304681     | 42           | 0.13                   | 17.47          | 51.67                          | 0              | Meeting Criteria |
| Deep Creek           | DE240-004-01       | 304741     | 42           | 0.10                   | 14.41          | 30.09                          | 1              | Meeting Criteria |
| Lewes-Rehoboth Canal | DE170-001          | 305011     | 4            | 25.29                  | 30.95          | 81.00                          | 0              | Meeting Criteria |
| Lewes-Rehoboth Canal | DE170-001          | 305041     | 2            | 27.19                  | 19.85          | 81.00                          | 0              | Meeting Criteria |
| Rehoboth Bay         | DE280-E01          | 306091     | 1            | 28.74                  | 32.50          | 81.00                          | 0              | Meeting Criteria |
| Indian River Bay     | DE280-E01          | 306111     | 6            | 29.71                  | 14.01          | 81.00                          | 0              | Meeting Criteria |
| Indian River Bay     | DE140-E01          | 306121     | 3            | 28.05                  | 22.87          | 81.00                          | 0              | Meeting Criteria |
| Indian River         | DE140-004          | 306181     | 8            | 13.71                  | 10.21          | 81.00                          | 0              | Meeting Criteria |
| Indian River Bay     | DE140-E01          | 306321     | 4            | 30.74                  | 23.08          | 81.00                          | 0              | Meeting Criteria |
| Indian River         | DE140-E02          | 306331     | 2            | 21.64                  | 34.15          | 81.00                          | 0              | Meeting Criteria |
| Indian River         | DE140-E02          | 306341     | 2            | 20.13                  | 31.40          | 81.00                          | 0              | Meeting Criteria |
| Broad Creek          | DE050-L04          | 307011     | 39           | 0.10                   | 14.80          | 57.59                          | 1              | Meeting Criteria |
| Broad Creek          | DE050-001-01       | 307031     | 42           | 0.15                   | 19.40          | 62.01                          | 1              | Meeting Criteria |
| Broad Creek          | DE050-L07          | 307081     | 39           | 0.15                   | 4.99           | 40.04                          | 0              | Meeting Criteria |
| Broad Creek          | DE050-L03          | 307171     | 41           | 0.11                   | 14.32          | 44.50                          | 1              | Meeting Criteria |
| Broad Creek          | DE050-006-03       | 307371     | 25           | 0.21                   | 10.89          | 35.68                          | 0              | Meeting Criteria |
| Rehoboth Bay         | DE280-L01          | 308031     | 41           | 0.19                   | 4.86           | 56.46                          | 0              | Meeting Criteria |
| Rehoboth Bay         | DE280-001-01-01    | 308051     | 21           | 11.34                  | 10.30          | 81.00                          | 0              | Meeting Criteria |
| Indian River         | DE140-L01          | 308071     | 62           | 0.23                   | 6.38           | 47.90                          | 0              | Meeting Criteria |
| Indian River Bay     | DE140-003          | 308091     | 42           | 0.10                   | 17.28          | 68.86                          | 1              | Meeting Criteria |
| Indian River         | DE140-006          | 308281     | 42           | 0.10                   | 8.16           | 40.37                          | 0              | Meeting Criteria |
| Indian River         | DE140-005          | 308341     | 42           | 0.10                   | 6.74           | 28.11                          | 0              | Meeting Criteria |

| Zinc             |                    |            |              |                        |                |                                |                |                      |
|------------------|--------------------|------------|--------------|------------------------|----------------|--------------------------------|----------------|----------------------|
| Watershed        | Assessment Unit ID | Station ID | Sample Count | Salinity Average (ppt) | Average (µg/L) | Chronic Criteria Average (µ/L) | Failed Samples | Attainment           |
| Indian River Bay | DE140-002          | 308361     | 39           | 0.18                   | 8.96           | 91.14                          | 0              | Meeting Criteria     |
| Rehoboth Bay     | DE280-002          | 308371     | 38           | 0.38                   | 4.98           | 64.47                          | 0              | Meeting Criteria     |
| Iron Branch      | DE150-001-01       | 309041     | 42           | 0.10                   | 13.17          | 60.64                          | 0              | Meeting Criteria     |
| Little Assawoman | DE180-E01          | 310011     | 4            | 25.55                  | 21.68          | 81.00                          | 0              | Meeting Criteria     |
| Little Assawoman | DE180-003-01       | 310031     | 17           | 12.13                  | 11.21          | 81.00                          | 0              | Meeting Criteria     |
| Little Assawoman | DE180-E01          | 310071     | 3            | 24.23                  | 34.30          | 81.00                          | 0              | Meeting Criteria     |
| Little Assawoman | DE180-002-02       | 310121     | 63           | 0.29                   | 11.19          | 79.16                          | 0              | Meeting Criteria     |
| Buntings Branch  | DE070-001          | 311041     | 41           | 0.11                   | 24.87          | 69.89                          | 1              | Meeting Criteria     |
| Indian River Bay | DE180-001          | 312011     | 4            | 25.17                  | 25.04          | 81.00                          | 0              | Meeting Criteria     |
| Gravelly Branch  | DE240-005-01       | 316011     | 41           | 0.10                   | 10.37          | 37.51                          | 0              | Meeting Criteria     |
| Gravelly Branch  | DE240-005-01       | 316031     | 42           | 0.10                   | 16.73          | 29.43                          | 3              | Not Meeting Criteria |

Table B10: Marine Copper Assessment

Results of marine copper sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Single sample copper concentration was compared with marine copper criteria of 3.1 µg/L. Failed samples indicate number of times each sample exceeded the criteria.

| Marine copper       |                    |            |              |                |                |                      |
|---------------------|--------------------|------------|--------------|----------------|----------------|----------------------|
| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Failed Samples | Attainment           |
| Appoquinimink River | DE010-001-02       | 109041     | 3            | 0.69           | 0              | Meeting Criteria     |
| Appoquinimink River | DE010-001-03-04    | 109071     | 4            | 0.81           | 0              | Meeting Criteria     |
| Appoquinimink River | DE010-001-01       | 109091     | 29           | 1.10           | 0              | Meeting Criteria     |
| Appoquinimink River | DE010-001-01       | 109121     | 9            | 1.04           | 0              | Meeting Criteria     |
| Appoquinimink River | DE010-001-02       | 109171     | 6            | 0.66           | 0              | Meeting Criteria     |
| Murderkill River    | DE220-002-01       | 206091     | 8            | 0.48           | 0              | Meeting Criteria     |
| Murderkill River    | DE220-001          | 206101     | 58           | 2.33           | 3              | Not Meeting Criteria |
| Murderkill River    | DE220-001          | 206141     | 35           | 0.96           | 1              | Meeting Criteria     |
| Murderkill River    | DE220-001          | 206231     | 11           | 0.44           | 0              | Meeting Criteria     |
| Rehoboth Bay        | DE280-E01          | 306091     | 38           | 2.65           | 0              | Meeting Criteria     |
| Indian River Bay    | DE280-E01          | 306111     | 42           | 0.29           | 0              | Meeting Criteria     |
| Indian River Bay    | DE140-E01          | 306121     | 56           | 0.70           | 0              | Meeting Criteria     |
| Indian River        | DE140-004          | 306181     | 36           | 1.12           | 0              | Meeting Criteria     |
| Indian River Bay    | DE140-E01          | 306321     | 60           | 1.71           | 0              | Meeting Criteria     |

| Marine copper    |                    |            |              |                |                |                      |
|------------------|--------------------|------------|--------------|----------------|----------------|----------------------|
| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Failed Samples | Attainment           |
| Indian River     | DE140-E02          | 306331     | 37           | 9.20           | 1              | Meeting Criteria     |
| Indian River     | DE140-E02          | 306341     | 37           | 6.70           | 1              | Meeting Criteria     |
| Rehoboth Bay     | DE280-001-01-01    | 308051     | 32           | 2.21           | 3              | Not Meeting Criteria |
| Little Assawoman | DE180-E01          | 310011     | 42           | 2.80           | 0              | Meeting Criteria     |
| Little Assawoman | DE180-003-01       | 310031     | 35           | 1.19           | 0              | Meeting Criteria     |
| Little Assawoman | DE180-E01          | 310071     | 42           | 2.00           | 0              | Meeting Criteria     |
| Indian River Bay | DE180-001          | 312011     | 42           | 3.08           | 2              | Not Meeting Criteria |

Table B11: Freshwater Copper Assessment using Biotic Ligand Model (BLM)

Results of freshwater copper sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle.

| Freshwater copper   |                    |            |                             |                      |
|---------------------|--------------------|------------|-----------------------------|----------------------|
| Watershed           | Assessment Unit ID | Station ID | No of times criteria failed | Attainment           |
| Red Clay Creek      | DE260-001-03       | 103011     | 0                           | Meeting Criteria     |
| Red Clay Creek      | DE260-001-03       | 103031     | 0                           | Meeting Criteria     |
| Red Clay Creek      | DE260-001-02       | 103041     | 0                           | Meeting Criteria     |
| Red Clay Creek      | DE260-002-01       | 103061     | 5                           | Not Meeting Criteria |
| Brandywine Creek    | DE040-001          | 104011     | 0                           | Meeting Criteria     |
| Brandywine Creek    | DE040-002-01       | 104021     | 0                           | Meeting Criteria     |
| Brandywine Creek    | DE040-002-01       | 104051     | 0                           | Meeting Criteria     |
| White Clay Creek    | DE320-001-01       | 105031     | 1                           | Meeting Criteria     |
| White Clay Creek    | DE320-001-01       | 105151     | 0                           | Meeting Criteria     |
| White Clay Creek    | DE320-001-01       | 105171     | 0                           | Meeting Criteria     |
| Christina River     | DE120-002          | 106021     | 2                           | Not Meeting Criteria |
| Christina River     | DE120-003-01       | 106031     | 1                           | Meeting Criteria     |
| Christina River     | DE120-004-02       | 106141     | 1                           | Meeting Criteria     |
| Christina River     | DE120-006-02       | 106191     | 2                           | Not Meeting Criteria |
| Christina River     | DE120-007-01-05    | 106281     | 0                           | Meeting Criteria     |
| Christina River     | DE120-001          | 106291     | 0                           | Meeting Criteria     |
| Appoquinimink River | DE010-001-02       | 109041     | 0                           | Meeting Criteria     |
| Appoquinimink River | DE010-001-03-04    | 109071     | 0                           | Meeting Criteria     |



### Freshwater copper

| Watershed           | Assessment Unit ID | Station ID | No of times criteria failed | Attainment           |
|---------------------|--------------------|------------|-----------------------------|----------------------|
| Appoquinimink River | DE010-001-01       | 109091     | 0                           | Meeting Criteria     |
| Appoquinimink River | DE010-001-01       | 109121     | 0                           | Meeting Criteria     |
| Appoquinimink River | DE010-L01          | 109131     | 0                           | Meeting Criteria     |
| Appoquinimink River | DE010-001-02       | 109171     | 0                           | Meeting Criteria     |
| Appoquinimink River | DE010-L03          | 109191     | 0                           | Meeting Criteria     |
| Appoquinimink River | DE010-002-02-02    | 109251     | 1                           | Meeting Criteria     |
| Murderkill River    | DE220-005-01       | 206011     | 1                           | Meeting Criteria     |
| Murderkill River    | DE220-004-01       | 206041     | 8                           | Not Meeting Criteria |
| Murderkill River    | DE220-002-01       | 206091     | 0                           | Meeting Criteria     |
| Murderkill River    | DE220-001          | 206101     | 0                           | Meeting Criteria     |
| Murderkill River    | DE220-001          | 206141     | 0                           | Meeting Criteria     |
| Murderkill River    | DE220-001          | 206231     | 0                           | Meeting Criteria     |
| Murderkill River    | DE220-L05          | 206361     | 2                           | Meeting Criteria     |
| Murderkill River    | DE220-L03          | 206451     | 3                           | Not Meeting Criteria |
| Murderkill River    | DE220-002-04       | 206561     | 3                           | Not Meeting Criteria |
| Marshyhope Creek    | DE200-001-03       | 302031     | 9                           | Not Meeting Criteria |
|                     |                    | 304011     | 1                           | Meeting Criteria     |
| Nanticoke River     | DE240-001          | 304151     | 1                           | Meeting Criteria     |
| Nanticoke River     | DE240-002-01       | 304191     | 13                          | Not Meeting Criteria |
| Deep Creek          | DE240-L02          | 304311     | 4                           | Not Meeting Criteria |
| Nanticoke River     | DE240-L04          | 304321     | 2                           | Not Meeting Criteria |
| Nanticoke River     | DE240-003          | 304371     | 2                           | Not Meeting Criteria |
| Nanticoke River     | DE240-003          | 304381     | 5                           | Not Meeting Criteria |
| Nanticoke River     | DE240-001          | 304471     | 2                           | Not Meeting Criteria |
| Nanticoke River     | DE240-002-07       | 304681     | 24                          | Not Meeting Criteria |
| Deep Creek          | DE240-004-01       | 304741     | 15                          | Not Meeting Criteria |
| Indian River        | DE140-004          | 306181     | 0                           | Meeting Criteria     |
| Broad Creek         | DE050-L04          | 307011     | 0                           | Meeting Criteria     |
| Broad Creek         | DE050-001-01       | 307031     | 3                           | Not Meeting Criteria |
| Broad Creek         | DE050-L07          | 307081     | 2                           | Not Meeting Criteria |
| Broad Creek         | DE050-L03          | 307171     | 3                           | Not Meeting Criteria |
| Broad Creek         | DE050-006-03       | 307371     | 4                           | Not Meeting Criteria |
| Rehoboth Bay        | DE280-L01          | 308031     | 0                           | Meeting Criteria     |

### Freshwater copper

| Watershed        | Assessment Unit ID | Station ID | No of times criteria failed | Attainment           |
|------------------|--------------------|------------|-----------------------------|----------------------|
| Rehoboth Bay     | DE280-001-01-01    | 308051     | 4                           | Not Meeting Criteria |
| Indian River     | DE140-L01          | 308071     | 3                           | Not Meeting Criteria |
| Indian River Bay | DE140-003          | 308091     | 4                           | Not Meeting Criteria |
| Indian River     | DE140-006          | 308281     | 6                           | Not Meeting Criteria |
| Indian River     | DE140-005          | 308341     | 13                          | Not Meeting Criteria |
| Indian River Bay | DE140-002          | 308361     | 0                           | Meeting Criteria     |
| Rehoboth Bay     | DE280-002          | 308371     | 0                           | Meeting Criteria     |
| Iron Branch      | DE150-001-01       | 309041     | 11                          | Not Meeting Criteria |
| Little Assawoman | DE180-003-01       | 310031     | 0                           | Meeting Criteria     |
| Little Assawoman | DE180-002-02       | 310121     | 2                           | Meeting Criteria     |
| Buntings Branch  | DE070-001          | 311041     | 7                           | Not Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316011     | 10                          | Not Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316031     | 17                          | Not Meeting Criteria |

Table B12: Arsenic Assessment

Results of arsenic sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Failed samples indicate number of times each sample exceeded the criteria.

### Arsenic

| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Chronic Criteria (µg/L) | Salinity Average (ppt) | Failed Samples | Attainment       | Attainment for drinking water supply |
|---------------------|--------------------|------------|--------------|----------------|-------------------------|------------------------|----------------|------------------|--------------------------------------|
| Shellpot Creek      | DE300-001-02-01    | 102051     | 18           | 0.38           | 150                     | 0.25                   | 0              | Meeting Criteria |                                      |
| Red Clay Creek      | DE260-001-03       | 103031     | 30           | 0.28           | 150                     | 0.22                   | 0              | Meeting Criteria | Meeting Criteria                     |
| Red Clay Creek      | DE260-001-02       | 103041     | 1            | 0.27           | 150                     | 0.23                   | 0              | Meeting Criteria | Meeting Criteria                     |
| Red Clay Creek      | DE260-002-01       | 103061     | 2            | 0.15           | 150                     | 0.16                   | 0              | Meeting Criteria | Meeting Criteria                     |
| Brandywine Creek    | DE040-002-01       | 104021     | 30           | 0.36           | 150                     | 0.19                   | 0              | Meeting Criteria | Meeting Criteria                     |
| White Clay Creek    | DE320-001-01       | 105151     | 29           | 0.23           | 150                     | 0.17                   | 0              | Meeting Criteria | Meeting Criteria                     |
| Christina River     | DE120-004-02       | 106141     | 32           | 0.37           | 150                     | 0.16                   | 0              | Meeting Criteria | Meeting Criteria                     |
| Christina River     | DE120-001          | 106291     | 30           | 0.70           | 150                     | 0.62                   | 0              | Meeting Criteria | Meeting Criteria                     |
| Appoquinimink River | DE010-001-01       | 109091     | 27           | 1.26           | 36                      | 6.56                   | 0              | Meeting Criteria |                                      |
| Appoquinimink River | DE010-002-02-02    | 109251     | 29           | 0.27           | 150                     | 0.15                   | 0              | Meeting Criteria |                                      |
| Blackbird Creek     | DE030-002-03       | 110011     | 19           | 0.36           | 150                     | 0.14                   | 0              | Meeting Criteria |                                      |
| St. Jones River     | DE290-001-01       | 205011     | 9            | 2.86           | 36                      | 20.83                  | 0              | Meeting Criteria |                                      |
| St. Jones River     | DE290-L02          | 205191     | 14           | 0.59           | 150                     | 0.11                   | 0              | Meeting Criteria |                                      |

Arsenic

| Watershed            | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Chronic Criteria (µg/L) | Salinity Average (ppt) | Failed Samples | Attainment       | Attainment for drinking water supply |
|----------------------|--------------------|------------|--------------|----------------|-------------------------|------------------------|----------------|------------------|--------------------------------------|
| Murderkill River     | DE220-005-01       | 206011     | 32           | 0.41           | 150                     | 0.12                   | 0              | Meeting Criteria |                                      |
| Murderkill River     | DE220-002-01       | 206091     | 1            | 0.11           | 150                     | 2.92                   | 0              | Meeting Criteria |                                      |
| Murderkill River     | DE220-001          | 206101     | 17           | 2.60           | 36                      | 20.25                  | 0              | Meeting Criteria |                                      |
| Cedar Creek          | DE210-001          | 208061     | 13           | 3.11           | 36                      | 24.19                  | 0              | Meeting Criteria |                                      |
| Mispillion River     | DE210-002-03       | 208231     | 17           | 0.21           | 150                     | 0.32                   | 0              | Meeting Criteria |                                      |
| Marshyhope Creek     | DE200-001-03       | 302031     | 17           | 0.41           | 150                     | 0.13                   | 0              | Meeting Criteria |                                      |
| Broadkill River      | DE060-001          | 303061     | 10           | 2.80           | 36                      | 23.18                  | 0              | Meeting Criteria |                                      |
| Nanticoke River      | DE240-002-01       | 304191     | 17           | 0.35           | 150                     | 0.10                   | 0              | Meeting Criteria |                                      |
| Lewes-Rehoboth Canal | DE170-001          | 305011     | 26           | 3.40           | 36                      | 25.88                  | 0              | Meeting Criteria |                                      |
| Lewes-Rehoboth Canal | DE170-001          | 305041     | 20           | 3.31           | 36                      | 27.70                  | 0              | Meeting Criteria |                                      |
| Rehoboth Bay         | DE280-E01          | 306091     | 20           | 3.75           | 36                      | 29.40                  | 0              | Meeting Criteria |                                      |
| Indian River Bay     | DE280-E01          | 306111     | 29           | 3.58           | 36                      | 29.80                  | 0              | Meeting Criteria |                                      |
| Indian River Bay     | DE140-E01          | 306121     | 31           | 3.60           | 36                      | 27.90                  | 0              | Meeting Criteria |                                      |
| Indian River         | DE140-004          | 306181     | 24           | 2.97           | 36                      | 13.73                  | 0              | Meeting Criteria |                                      |
| Indian River Bay     | DE140-E01          | 306321     | 33           | 3.57           | 36                      | 31.00                  | 0              | Meeting Criteria |                                      |
| Indian River         | DE140-E02          | 306331     | 25           | 3.84           | 36                      | 21.60                  | 0              | Meeting Criteria |                                      |
| Indian River         | DE140-E02          | 306341     | 25           | 3.83           | 36                      | 20.22                  | 0              | Meeting Criteria |                                      |
| Rehoboth Bay         | DE280-L01          | 308031     | 40           | 0.22           | 150                     | 0.19                   | 0              | Meeting Criteria |                                      |
| Rehoboth Bay         | DE280-001-01-01    | 308051     | 25           | 1.96           | 36                      | 10.47                  | 0              | Meeting Criteria |                                      |
| Indian River         | DE140-L01          | 308071     | 62           | 0.27           | 150                     | 0.23                   | 0              | Meeting Criteria |                                      |
| Indian River Bay     | DE140-003          | 308091     | 41           | 0.41           | 150                     | 0.10                   | 0              | Meeting Criteria |                                      |
| Indian River         | DE140-006          | 308281     | 42           | 0.52           | 150                     | 0.10                   | 0              | Meeting Criteria |                                      |
| Indian River         | DE140-005          | 308341     | 12           | 0.14           | 150                     | 0.10                   | 0              | Meeting Criteria |                                      |
| Indian River Bay     | DE140-002          | 308361     | 39           | 0.81           | 150                     | 0.18                   | 0              | Meeting Criteria |                                      |
| Rehoboth Bay         | DE280-002          | 308371     | 37           | 0.26           | 150                     | 0.38                   | 0              | Meeting Criteria |                                      |
| Iron Branch          | DE150-001-01       | 309041     | 42           | 0.85           | 150                     | 0.10                   | 0              | Meeting Criteria |                                      |
| Little Assawoman     | DE180-E01          | 310011     | 28           | 4.14           | 36                      | 26.58                  | 0              | Meeting Criteria |                                      |
| Little Assawoman     | DE180-003-01       | 310031     | 30           | 2.53           | 36                      | 11.51                  | 0              | Meeting Criteria |                                      |
| Little Assawoman     | DE180-E01          | 310071     | 35           | 3.93           | 36                      | 25.24                  | 0              | Meeting Criteria |                                      |
| Little Assawoman     | DE180-002-02       | 310121     | 62           | 1.11           | 150                     | 0.29                   | 0              | Meeting Criteria |                                      |
| Buntings Branch      | DE070-001          | 311041     | 41           | 0.74           | 150                     | 0.11                   | 0              | Meeting Criteria |                                      |
| Indian River Bay     | DE180-001          | 312011     | 31           | 3.89           | 36                      | 26.34                  | 0              | Meeting Criteria |                                      |

Table B13: Lead Assessment

Results of lead sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Failed samples indicate number of times each sample exceeded the criteria.

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Lead           |                                 | Salinity Average (ppt) | Failed Samples | Attainment       |
|------------------|--------------------|------------|--------------|----------------|---------------------------------|------------------------|----------------|------------------|
|                  |                    |            |              | Average (µg/L) | Chronic Criteria Average (µg/L) |                        |                |                  |
| Red Clay Creek   | DE260-001-03       | 103011     | 17           | 0.08           | 3.17                            | 0.19                   | 0              | Meeting Criteria |
| Red Clay Creek   | DE260-001-03       | 103031     | 35           | 0.10           | 3.23                            | 0.20                   | 0              | Meeting Criteria |
| Red Clay Creek   | DE260-001-02       | 103041     | 14           | 0.09           | 3.62                            | 0.22                   | 0              | Meeting Criteria |
| Red Clay Creek   | DE260-002-01       | 103061     | 10           | 0.07           | 2.11                            | 0.14                   | 0              | Meeting Criteria |
| Brandywine Creek | DE040-001          | 104011     | 32           | 0.11           | 2.59                            | 0.18                   | 0              | Meeting Criteria |
| Brandywine Creek | DE040-002-01       | 104021     | 50           | 0.16           | 2.58                            | 0.19                   | 0              | Meeting Criteria |
| Brandywine Creek | DE040-002-01       | 104051     | 22           | 0.10           | 2.46                            | 0.18                   | 0              | Meeting Criteria |
| White Clay Creek | DE320-001-01       | 105031     | 14           | 0.13           | 2.84                            | 0.16                   | 0              | Meeting Criteria |
| White Clay Creek | DE320-001-01       | 105151     | 25           | 0.11           | 2.30                            | 0.16                   | 0              | Meeting Criteria |
| White Clay Creek | DE320-001-01       | 105171     | 15           | 0.08           | 2.50                            | 0.15                   | 0              | Meeting Criteria |
| Christina River  | DE120-002          | 106021     | 38           | 0.15           | 2.70                            | 0.25                   | 0              | Meeting Criteria |
| Christina River  | DE120-003-01       | 106031     | 42           | 0.23           | 1.40                            | 0.15                   | 0              | Meeting Criteria |
| Christina River  | DE120-004-02       | 106141     | 59           | 0.16           | 1.72                            | 0.17                   | 0              | Meeting Criteria |
| Christina River  | DE120-006-02       | 106191     | 9            | 0.09           | 1.42                            | 0.12                   | 0              | Meeting Criteria |
| Christina River  | DE120-007-01-05    | 106281     | 34           | 0.21           | 3.59                            | 0.33                   | 0              | Meeting Criteria |
| Christina River  | DE120-001          | 106291     | 56           | 0.22           | 3.40                            | 0.43                   | 0              | Meeting Criteria |

Lead

| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Chronic Criteria Average (µg/L) | Salinity Average (ppt) | Failed Samples | Attainment       |
|---------------------|--------------------|------------|--------------|----------------|---------------------------------|------------------------|----------------|------------------|
| Appoquinimink River | DE010-001-02       | 109041     | 21           | 0.10           | 13.35                           | 3.10                   | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-03-04    | 109071     | 29           | 0.16           | 11.51                           | 2.62                   | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109091     | 36           | 0.11           | 8.10                            | 5.92                   | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109121     | 19           | 0.11           | 13.76                           | 4.25                   | 0              | Meeting Criteria |
| Appoquinimink River | DE010-L01          | 109131     | 6            | 0.09           | 1.59                            | 0.11                   | 0              | Meeting Criteria |
| Appoquinimink River | DE010-001-02       | 109171     | 24           | 0.15           | 12.27                           | 3.06                   | 0              | Meeting Criteria |
| Appoquinimink River | DE010-L03          | 109191     | 16           | 0.12           | 1.71                            | 0.13                   | 0              | Meeting Criteria |
| Appoquinimink River | DE010-002-02-02    | 109251     | 8            | 0.07           | 1.86                            | 0.14                   | 0              | Meeting Criteria |
| St. Jones River     | DE290-L02          | 205191     | 1            | 0.14           | 0.82                            | 0.10                   | 0              | Meeting Criteria |
| Murderkill River    | DE220-005-01       | 206011     | 64           | 0.26           | 1.28                            | 0.13                   | 1              | Meeting Criteria |
| Murderkill River    | DE220-004-01       | 206041     | 40           | 0.12           | 1.20                            | 0.10                   | 0              | Meeting Criteria |
| Murderkill River    | DE220-002-01       | 206091     | 37           | 0.23           | 7.00                            | 2.55                   | 0              | Meeting Criteria |
| Murderkill River    | DE220-001          | 206101     | 20           | 0.83           | 8.10                            | 17.28                  | 0              | Meeting Criteria |
| Murderkill River    | DE220-001          | 206141     | 14           | 0.46           | 8.10                            | 9.13                   | 0              | Meeting Criteria |
| Murderkill River    | DE220-001          | 206231     | 31           | 0.24           | 9.29                            | 3.54                   | 0              | Meeting Criteria |
| Murderkill River    | DE220-L05          | 206361     | 29           | 0.10           | 1.48                            | 0.11                   | 0              | Meeting Criteria |
| Murderkill River    | DE220-L03          | 206451     | 36           | 0.13           | 1.38                            | 0.10                   | 0              | Meeting Criteria |
| Murderkill River    | DE220-002-04       | 206561     | 41           | 0.17           | 1.80                            | 0.22                   | 0              | Meeting Criteria |
| Marshyhope Creek    | DE200-001-03       | 302031     | 25           | 0.15           | 0.87                            | 0.13                   | 0              | Meeting Criteria |

### Lead

| Watershed            | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Chronic Criteria Average (µg/L) | Salinity Average (ppt) | Failed Samples | Attainment           |
|----------------------|--------------------|------------|--------------|----------------|---------------------------------|------------------------|----------------|----------------------|
| Nanticoke River      | DE240-001          | 304151     | 35           | 0.12           | 0.85                            | 0.15                   | 0              | Meeting Criteria     |
| Nanticoke River      | DE240-002-01       | 304191     | 27           | 0.16           | 0.84                            | 0.10                   | 1              | Meeting Criteria     |
| Deep Creek           | DE240-L02          | 304311     | 16           | 0.09           | 0.54                            | 0.10                   | 0              | Meeting Criteria     |
| Nanticoke River      | DE240-L04          | 304321     | 29           | 0.16           | 1.18                            | 0.10                   | 0              | Meeting Criteria     |
| Nanticoke River      | DE240-003          | 304371     | 41           | 0.18           | 1.19                            | 0.13                   | 0              | Meeting Criteria     |
| Nanticoke River      | DE240-003          | 304381     | 25           | 0.11           | 1.40                            | 0.10                   | 0              | Meeting Criteria     |
| Nanticoke River      | DE240-001          | 304471     | 35           | 0.10           | 0.79                            | 0.12                   | 0              | Meeting Criteria     |
| Nanticoke River      | DE240-002-07       | 304681     | 9            | 0.12           | 0.80                            | 0.14                   | 0              | Meeting Criteria     |
| Deep Creek           | DE240-004-01       | 304741     | 10           | 0.25           | 0.42                            | 0.10                   | 2              | Not Meeting Criteria |
| Lewes-Rehoboth Canal | DE170-001          | 305011     | 4            | 1.72           | 8.10                            | 26.59                  | 0              | Meeting Criteria     |
| Lewes-Rehoboth Canal | DE170-001          | 305041     | 6            | 1.71           | 8.10                            | 27.56                  | 0              | Meeting Criteria     |
| Rehoboth Bay         | DE280-E01          | 306091     | 2            | 2.55           | 8.10                            | 31.78                  | 0              | Meeting Criteria     |
| Indian River Bay     | DE280-E01          | 306111     | 5            | 1.95           | 8.10                            | 31.03                  | 0              | Meeting Criteria     |
| Indian River Bay     | DE140-E01          | 306121     | 4            | 3.15           | 8.10                            | 29.07                  | 0              | Meeting Criteria     |
| Indian River         | DE140-004          | 306181     | 8            | 0.84           | 8.10                            | 10.49                  | 0              | Meeting Criteria     |
| Indian River Bay     | DE140-E01          | 306321     | 8            | 1.66           | 8.10                            | 30.77                  | 0              | Meeting Criteria     |
| Indian River         | DE140-E02          | 306331     | 5            | 2.18           | 8.10                            | 23.52                  | 0              | Meeting Criteria     |
| Indian River         | DE140-E02          | 306341     | 4            | 2.14           | 8.10                            | 23.06                  | 0              | Meeting Criteria     |
| Broad Creek          | DE050-L04          | 307011     | 31           | 0.12           | 0.94                            | 0.10                   | 0              | Meeting Criteria     |

Lead

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Chronic Criteria Average (µg/L) | Salinity Average (ppt) | Failed Samples | Attainment           |
|------------------|--------------------|------------|--------------|----------------|---------------------------------|------------------------|----------------|----------------------|
| Broad Creek      | DE050-001-01       | 307031     | 35           | 0.15           | 1.05                            | 0.10                   | 0              | Meeting Criteria     |
| Broad Creek      | DE050-L07          | 307081     | 40           | 0.23           | 0.61                            | 0.15                   | 0              | Meeting Criteria     |
| Broad Creek      | DE050-L03          | 307171     | 32           | 0.11           | 0.73                            | 0.10                   | 0              | Meeting Criteria     |
| Broad Creek      | DE050-006-03       | 307371     | 25           | 0.46           | 0.54                            | 0.21                   | 10             | Not Meeting Criteria |
| Rehoboth Bay     | DE280-L01          | 308031     | 33           | 0.13           | 1.10                            | 0.16                   | 0              | Meeting Criteria     |
| Rehoboth Bay     | DE280-001-01-01    | 308051     | 16           | 0.31           | 8.10                            | 7.69                   | 0              | Meeting Criteria     |
| Indian River     | DE140-L01          | 308071     | 38           | 0.14           | 0.73                            | 0.23                   | 1              | Meeting Criteria     |
| Indian River Bay | DE140-003          | 308091     | 26           | 0.14           | 1.19                            | 0.11                   | 0              | Meeting Criteria     |
| Indian River     | DE140-006          | 308281     | 28           | 0.16           | 0.58                            | 0.10                   | 0              | Meeting Criteria     |
| Indian River     | DE140-005          | 308341     | 25           | 0.14           | 0.38                            | 0.10                   | 0              | Meeting Criteria     |
| Indian River Bay | DE140-002          | 308361     | 37           | 0.13           | 1.79                            | 0.18                   | 0              | Meeting Criteria     |
| Rehoboth Bay     | DE280-002          | 308371     | 38           | 0.24           | 1.16                            | 0.38                   | 0              | Meeting Criteria     |
| Iron Branch      | DE150-001-01       | 309041     | 35           | 0.18           | 1.08                            | 0.10                   | 0              | Meeting Criteria     |
| Little Assawoman | DE180-E01          | 310011     | 4            | 1.55           | 8.10                            | 29.19                  | 0              | Meeting Criteria     |
| Little Assawoman | DE180-003-01       | 310031     | 16           | 0.61           | 8.10                            | 10.49                  | 0              | Meeting Criteria     |
| Little Assawoman | DE180-E01          | 310071     | 4            | 1.49           | 8.10                            | 27.94                  | 0              | Meeting Criteria     |
| Little Assawoman | DE180-002-02       | 310121     | 57           | 0.13           | 1.48                            | 0.29                   | 0              | Meeting Criteria     |
| Buntings Branch  | DE070-001          | 311041     | 41           | 0.22           | 1.28                            | 0.11                   | 0              | Meeting Criteria     |
| Indian River Bay | DE180-001          | 312011     | 7            | 1.64           | 8.10                            | 26.89                  | 0              | Meeting Criteria     |

### Lead

| Watershed       | Assessment Unit ID | Station ID | Sample Count | Average (µg/L) | Chronic Criteria Average (µg/L) | Salinity Average (ppt) | Failed Samples | Attainment       |
|-----------------|--------------------|------------|--------------|----------------|---------------------------------|------------------------|----------------|------------------|
| Gravelly Branch | DE240-005-01       | 316011     | 16           | 0.11           | 0.52                            | 0.10                   | 1              | Meeting Criteria |
| Gravelly Branch | DE240-005-01       | 316031     | 15           | 0.12           | 0.43                            | 0.10                   | 1              | Meeting Criteria |

Table B14: Enterococcus Assessment

Results of enterococcus sample data collected from January 2020 through December 2024 and assessed for the 2026 IR cycle. Percent failure column indicates percent of the sample that failed single sample value. Geometric mean values of 100 and 35 for fresh and marine waters, respectively, and single sample values of 185 and 104 for fresh and marine waters were used for assessment purpose.

### Enterococcus

| Watershed      | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|----------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Naamans Creek  | DE230-001-02-01    | 101021     | 41           | 748.28        | 8         | 10500     | 23                          | 243.77  | 0.24                   | 56.10           | Not Meeting Criteria |
| Naamans Creek  | DE230-001-02-01    | 101031     | 41           | 851.90        | 13        | 12000     | 27                          | 268.46  | 0.20                   | 65.85           | Not Meeting Criteria |
| Naamans Creek  | DE230-001-02-01    | 101061     | 41           | 373.13        | 6         | 6130      | 17                          | 120.84  | 0.17                   | 41.46           | Not Meeting Criteria |
| Shellpot Creek | DE300-001-01       | 102041     | 41           | 918.78        | 10        | 12000     | 22                          | 279.42  | 0.36                   | 53.66           | Not Meeting Criteria |
| Shellpot Creek | DE300-001-02-01    | 102051     | 63           | 499.39        | 2         | 9680      | 20                          | 105.74  | 0.28                   | 31.75           | Not Meeting Criteria |



Enterococcus

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Shellpot Creek   | DE300-001-02-01    | 102081     | 41           | 535.31        | 6         | 12000     | 14                          | 95.43   | 0.23                   | 34.15           | Not Meeting Criteria |
| Red Clay Creek   | DE260-001-03       | 103011     | 42           | 436.03        | 6         | 2910      | 15                          | 134.35  | 0.19                   | 35.71           | Not Meeting Criteria |
| Red Clay Creek   | DE260-001-03       | 103031     | 64           | 618.60        | 2         | 12000     | 22                          | 114.64  | 0.21                   | 34.38           | Not Meeting Criteria |
| Red Clay Creek   | DE260-001-02       | 103041     | 42           | 341.71        | 2         | 2220      | 17                          | 117.70  | 0.24                   | 40.48           | Not Meeting Criteria |
| Red Clay Creek   | DE260-002-01       | 103061     | 42           | 438.13        | 2         | 4840      | 13                          | 96.42   | 0.15                   | 30.95           | Not Meeting Criteria |
| Brandywine Creek | DE040-001          | 104011     | 42           | 412.11        | 6         | 4840      | 13                          | 116.25  | 0.18                   | 30.95           | Not Meeting Criteria |
| Brandywine Creek | DE040-002-01       | 104021     | 63           | 410.55        | 2         | 6130      | 16                          | 74.27   | 0.19                   | 25.40           | Not Meeting Criteria |
| Brandywine Creek | DE040-002-01       | 104051     | 41           | 400.79        | 8         | 4840      | 11                          | 98.60   | 0.19                   | 26.83           | Not Meeting Criteria |
| White Clay Creek | DE320-001-01       | 105031     | 42           | 414.13        | 6         | 4840      | 13                          | 114.41  | 0.17                   | 30.95           | Not Meeting Criteria |
| White Clay Creek | DE320-001-01       | 105151     | 64           | 964.14        | 13        | 24200     | 31                          | 218.26  | 0.18                   | 48.44           | Not Meeting Criteria |
| White Clay Creek | DE320-001-01       | 105171     | 42           | 264.50        | 10        | 2480      | 12                          | 121.14  | 0.17                   | 28.57           | Not Meeting Criteria |

Enterococcus

| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|---------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Christina River     | DE120-002          | 106021     | 42           | 415.09        | 22        | 2345      | 19                          | 184.83  | 0.25                   | 45.24           | Not Meeting Criteria |
| Christina River     | DE120-003-01       | 106031     | 42           | 397.94        | 8         | 5170      | 14                          | 104.82  | 0.15                   | 33.33           | Not Meeting Criteria |
| Christina River     | DE120-004-02       | 106141     | 64           | 520.84        | 4         | 4110      | 24                          | 150.39  | 0.17                   | 37.50           | Not Meeting Criteria |
| Christina River     | DE120-006-02       | 106191     | 42           | 677.00        | 12        | 5790      | 21                          | 198.01  | 0.13                   | 50.00           | Not Meeting Criteria |
| Christina River     | DE120-007-01-05    | 106281     | 42           | 727.62        | 15        | 4840      | 27                          | 312.68  | 0.33                   | 64.29           | Not Meeting Criteria |
| Christina River     | DE120-001          | 106291     | 60           | 483.81        | 13        | 3970      | 24                          | 158.36  | 0.43                   | 40.00           | Not Meeting Criteria |
| Red Lion Creek      | DE270-001-02-01    | 107011     | 42           | 748.58        | 8         | 4840      | 24                          | 252.29  | 0.13                   | 57.14           | Not Meeting Criteria |
| Red Lion Creek      | DE270-001-01-01    | 107031     | 41           | 720.32        | 12        | 2830      | 19                          | 266.92  | 0.30                   | 46.34           | Not Meeting Criteria |
| C & D Canal East    | DE090-001          | 108021     | 42           | 142.23        | 6         | 2240      | 7                           | 55.58   | 3.20                   | 16.67           | Not Meeting Criteria |
| C & D Canal East    | DE090-L01          | 108111     | 40           | 47.33         | 2         | 352       | 3                           | 19.35   | 0.10                   | 7.50            | Meeting Criteria     |
| Appoquinimink River | DE010-001-02       | 109041     | 42           | 558.87        | 13        | 4840      | 26                          | 226.93  | 2.49                   | 61.90           | Not Meeting Criteria |

Enterococcus

| Watershed           | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|---------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Appoquinimink River | DE010-001-03-04    | 109071     | 42           | 575.76        | 17        | 3970      | 28                          | 261.63  | 2.55                   | 66.67           | Not Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109091     | 59           | 352.34        | 13.5      | 4840      | 27                          | 125.69  | 5.60                   | 45.76           | Not Meeting Criteria |
| Appoquinimink River | DE010-001-01       | 109121     | 42           | 267.98        | 10        | 2090      | 16                          | 105.68  | 4.16                   | 38.10           | Not Meeting Criteria |
| Appoquinimink River | DE010-L01          | 109131     | 42           | 80.29         | 2         | 977       | 3                           | 21.64   | 0.18                   | 7.14            | Meeting Criteria     |
| Appoquinimink River | DE010-001-02       | 109171     | 42           | 514.05        | 10.5      | 4840      | 25                          | 198.29  | 2.91                   | 59.52           | Not Meeting Criteria |
| Appoquinimink River | DE010-L03          | 109191     | 41           | 71.87         | 2         | 1230      | 4                           | 18.59   | 0.14                   | 9.76            | Meeting Criteria     |
| Appoquinimink River | DE010-002-02-02    | 109251     | 64           | 604.33        | 15        | 3970      | 37                          | 256.71  | 0.14                   | 57.81           | Not Meeting Criteria |
| Blackbird Creek     | DE030-002-03       | 110011     | 64           | 537.44        | 2         | 4840      | 23                          | 103.60  | 0.14                   | 35.94           | Not Meeting Criteria |
| Blackbird Creek     | DE030-001          | 110031     | 41           | 911.61        | 39        | 3470      | 31                          | 462.68  | 2.53                   | 75.61           | Not Meeting Criteria |
| Blackbird Creek     | DE030-001          | 110041     | 42           | 297.06        | 15        | 1730      | 22                          | 170.49  | 4.30                   | 52.38           | Not Meeting Criteria |
| Dragon Run Creek    | DE130-001          | 111011     | 42           | 364.86        | 6         | 3110      | 17                          | 132.19  | 1.50                   | 40.48           | Not Meeting Criteria |

Enterococcus

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Dragon Run Creek | DE130-002-02       | 111031     | 41           | 159.54        | 4         | 922       | 8                           | 75.39   | 0.19                   | 19.51           | Not Meeting Criteria |
| Chester River    | DE100-002-01       | 112021     | 42           | 338.70        | 10        | 3470      | 14                          | 114.06  | 0.16                   | 33.33           | Not Meeting Criteria |
| Army Creek       | DE020-001-01       | 114011     | 39           | 607.43        | 10        | 3970      | 17                          | 183.07  | 0.61                   | 43.59           | Not Meeting Criteria |
| Army Creek       | DE020-001-01       | 114021     | 41           | 849.92        | 15        | 4840      | 27                          | 367.29  | 0.18                   | 65.85           | Not Meeting Criteria |
| Army Creek       | DE020-003-03       | 114041     | 39           | 733.82        | 10        | 3970      | 26                          | 349.63  | 0.25                   | 66.67           | Not Meeting Criteria |
| Army Creek       | DE020-003-02       | 114051     | 40           | 813.72        | 22        | 3970      | 21                          | 381.63  | 0.26                   | 52.50           | Not Meeting Criteria |
| Smyrna River     | DE310-L01          | 201011     | 42           | 259.61        | 4         | 4840      | 9                           | 43.30   | 0.12                   | 21.43           | Not Meeting Criteria |
| Smyrna River     | DE310-002-02       | 201021     | 42           | 206.48        | 2         | 2600      | 10                          | 60.71   | 0.11                   | 23.81           | Not Meeting Criteria |
| Smyrna River     | DE310-001          | 201041     | 42           | 511.19        | 10        | 1960      | 29                          | 250.99  | 6.18                   | 69.05           | Not Meeting Criteria |
| Smyrna River     | DE310-003-06       | 201051     | 42           | 785.12        | 71        | 3470      | 33                          | 487.17  | 1.87                   | 78.57           | Not Meeting Criteria |
| Smyrna River     | DE310-003-02       | 201161     | 41           | 257.49        | 10        | 2480      | 12                          | 113.83  | 0.11                   | 29.27           | Not Meeting Criteria |

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| Watershed       | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|-----------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Leipsic River   | DE160-L01          | 202021     | 41           | 131.83        | 4         | 1095      | 7                           | 43.70   | 0.11                   | 17.07           | Not Meeting Criteria |
| Leipsic River   | DE160-001          | 202031     | 42           | 207.67        | 10        | 1100      | 23                          | 108.97  | 9.31                   | 54.76           | Not Meeting Criteria |
| Leipsic River   | DE160-002-01       | 202191     | 41           | 431.07        | 22        | 2410      | 22                          | 220.23  | 0.12                   | 53.66           | Not Meeting Criteria |
| Little Creek    | DE190-001-01       | 204031     | 42           | 860.95        | 10        | 3450      | 36                          | 428.16  | 9.59                   | 85.71           | Not Meeting Criteria |
| Little Creek    | DE190-001-02-03    | 204041     | 42           | 185.86        | 2         | 690       | 15                          | 86.88   | 0.27                   | 35.71           | Not Meeting Criteria |
| St. Jones River | DE290-001-01       | 205011     | 60           | 150.18        | 10        | 1540      | 24                          | 75.77   | 19.91                  | 40.00           | Not Meeting Criteria |
| St. Jones River | DE290-001-01       | 205041     | 41           | 546.95        | 30        | 2600      | 27                          | 243.40  | 10.45                  | 65.85           | Not Meeting Criteria |
| St. Jones River | DE290-001-02-01    | 205091     | 42           | 539.30        | 29        | 3470      | 30                          | 279.33  | 4.08                   | 71.43           | Not Meeting Criteria |
| St. Jones River | DE290-003-05       | 205151     | 42           | 332.26        | 10        | 2090      | 12                          | 128.24  | 0.11                   | 28.57           | Not Meeting Criteria |
| St. Jones River | DE290-L01          | 205181     | 42           | 284.81        | 2         | 3970      | 8                           | 57.05   | 0.13                   | 19.05           | Not Meeting Criteria |
| St. Jones River | DE290-L02          | 205191     | 47           | 259.73        | 7         | 2600      | 11                          | 67.22   | 0.12                   | 23.40           | Not Meeting Criteria |

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| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| St. Jones River  | DE290-L03          | 205211     | 42           | 98.94         | 2         | 615       | 7                           | 38.73   | 0.21                   | 16.67           | Not Meeting Criteria |
| Murderkill River | DE220-005-01       | 206011     | 64           | 736.27        | 24        | 4840      | 38                          | 330.91  | 0.13                   | 59.38           | Not Meeting Criteria |
| Murderkill River | DE220-004-01       | 206041     | 42           | 496.81        | 19        | 3970      | 24                          | 212.41  | 0.10                   | 57.14           | Not Meeting Criteria |
| Murderkill River | DE220-002-01       | 206091     | 42           | 486.83        | 15        | 3470      | 18                          | 193.65  | 2.88                   | 42.86           | Not Meeting Criteria |
| Murderkill River | DE220-001          | 206101     | 60           | 104.05        | 10        | 364       | 18                          | 65.78   | 20.13                  | 30.00           | Not Meeting Criteria |
| Murderkill River | DE220-001          | 206141     | 39           | 349.95        | 4         | 1660      | 26                          | 156.48  | 11.64                  | 66.67           | Not Meeting Criteria |
| Murderkill River | DE220-001          | 206231     | 39           | 625.44        | 15        | 3470      | 25                          | 278.56  | 4.03                   | 64.10           | Not Meeting Criteria |
| Murderkill River | DE220-L05          | 206361     | 42           | 47.29         | 2         | 570       | 1                           | 20.14   | 0.11                   | 2.38            | Meeting Criteria     |
| Murderkill River | DE220-L03          | 206451     | 42           | 69.11         | 2         | 648       | 6                           | 24.58   | 0.10                   | 14.29           | Not Meeting Criteria |
| Murderkill River | DE220-002-04       | 206561     | 42           | 642.19        | 8         | 4840      | 26                          | 251.30  | 0.22                   | 61.90           | Not Meeting Criteria |
| Choptank River   | DE110-003-15       | 207021     | 42           | 164.92        | 10        | 1450      | 9                           | 72.28   | 0.10                   | 21.43           | Not Meeting Criteria |

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| Watershed         | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|-------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Choptank River    | DE110-001-02       | 207081     | 42           | 337.92        | 6         | 2600      | 17                          | 113.31  | 0.11                   | 40.48           | Not Meeting Criteria |
| Choptank River    | DE110-002-04       | 207091     | 42           | 332.44        | 2         | 3970      | 14                          | 89.18   | 0.11                   | 33.33           | Not Meeting Criteria |
| Choptank River    | DE110-003-14       | 207111     | 42           | 513.12        | 11.5      | 4840      | 15                          | 143.50  | 0.11                   | 35.71           | Not Meeting Criteria |
| Misphillion River | DE210-001          | 208021     | 42           | 657.90        | 2         | 4840      | 14                          | 108.14  | 0.46                   | 33.33           | Not Meeting Criteria |
| Cedar Creek       | DE210-001          | 208061     | 60           | 186.97        | 10        | 4350      | 16                          | 65.33   | 21.89                  | 26.67           | Not Meeting Criteria |
| Misphillion River | DE210-L06          | 208181     | 42           | 91.30         | 4         | 690       | 5                           | 39.14   | 0.11                   | 11.90           | Not Meeting Criteria |
| Misphillion River | DE210-L02          | 208211     | 42           | 94.04         | 2         | 1630      | 3                           | 15.70   | 0.10                   | 7.14            | Meeting Criteria     |
| Misphillion River | DE210-002-03       | 208231     | 64           | 758.95        | 17        | 4840      | 39                          | 334.07  | 0.23                   | 60.94           | Not Meeting Criteria |
| Cedar Creek       | DE080-002          | 301021     | 42           | 23.99         | 2         | 265.5     | 2                           | 9.28    | 0.13                   | 4.76            | Meeting Criteria     |
| Cedar Creek       | DE080-001          | 301031     | 42           | 367.74        | 12        | 1840      | 21                          | 170.26  | 1.28                   | 50.00           | Not Meeting Criteria |
| Cedar Creek       | DE080-001          | 301091     | 42           | 99.10         | 10        | 504       | 10                          | 59.46   | 21.34                  | 23.81           | Not Meeting Criteria |

Enterococcus

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Marshyhope Creek | DE200-001-03       | 302031     | 54           | 313.84        | 4         | 3110      | 10                          | 63.02   | 0.15                   | 18.52           | Not Meeting Criteria |
| Broadkill River  | DE060-005-01       | 303011     | 42           | 408.02        | 13        | 1370      | 23                          | 199.61  | 0.73                   | 54.76           | Not Meeting Criteria |
| Broadkill River  | DE060-005-01       | 303021     | 42           | 1000.57       | 40        | 4840      | 34                          | 493.31  | 0.67                   | 80.95           | Not Meeting Criteria |
| Broadkill River  | DE060-003          | 303031     | 42           | 87.75         | 2         | 870       | 5                           | 32.96   | 0.13                   | 11.90           | Not Meeting Criteria |
| Broadkill River  | DE060-001          | 303041     | 42           | 752.18        | 20        | 11200     | 24                          | 299.23  | 5.63                   | 57.14           | Not Meeting Criteria |
| Broadkill River  | DE060-L01          | 303051     | 41           | 150.15        | 2         | 4840      | 1                           | 22.77   | 0.10                   | 2.44            | Meeting Criteria     |
| Broadkill River  | DE060-001          | 303061     | 45           | 111.50        | 10        | 2360      | 5                           | 36.70   | 21.19                  | 11.11           | Not Meeting Criteria |
| Broadkill River  | DE060-002          | 303171     | 42           | 477.17        | 24        | 3110      | 19                          | 211.43  | 0.13                   | 45.24           | Not Meeting Criteria |
| Broadkill River  | DE060-002          | 303181     | 41           | 414.10        | 15        | 3970      | 19                          | 175.86  | 0.18                   | 46.34           | Not Meeting Criteria |
| Broadkill River  | DE060-004          | 303311     | 42           | 393.79        | 4         | 2600      | 19                          | 132.26  | 0.12                   | 45.24           | Not Meeting Criteria |
| Broadkill River  | DE060-L03          | 303331     | 41           | 91.00         | 2         | 1370      | 3                           | 14.17   | 0.14                   | 7.32            | Meeting Criteria     |



Enterococcus

| Watershed            | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|----------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Broadkill River      | DE060-006          | 303341     | 42           | 1063.59       | 24        | 3970      | 27                          | 505.06  | 0.11                   | 64.29           | Not Meeting Criteria |
| Nanticoke River      | DE240-001          | 304151     | 42           | 301.44        | 15        | 3970      | 9                           | 105.94  | 0.16                   | 21.43           | Not Meeting Criteria |
| Nanticoke River      | DE240-002-01       | 304191     | 54           | 407.67        | 6         | 3975      | 13                          | 83.46   | 0.10                   | 24.07           | Not Meeting Criteria |
| Deep Creek           | DE240-L02          | 304311     | 42           | 58.24         | 2         | 593       | 2                           | 23.95   | 0.10                   | 4.76            | Meeting Criteria     |
| Nanticoke River      | DE240-L04          | 304321     | 42           | 96.46         | 2         | 1630      | 3                           | 29.49   | 0.10                   | 7.14            | Meeting Criteria     |
| Nanticoke River      | DE240-003          | 304371     | 42           | 723.84        | 45.5      | 3400      | 28                          | 417.10  | 0.13                   | 66.67           | Not Meeting Criteria |
| Nanticoke River      | DE240-003          | 304381     | 42           | 601.49        | 10        | 4840      | 22                          | 226.02  | 0.10                   | 52.38           | Not Meeting Criteria |
| Nanticoke River      | DE240-001          | 304471     | 42           | 214.06        | 13        | 4840      | 5                           | 73.57   | 0.14                   | 11.90           | Not Meeting Criteria |
| Nanticoke River      | DE240-002-07       | 304681     | 42           | 206.81        | 4         | 2090      | 8                           | 72.62   | 0.13                   | 19.05           | Not Meeting Criteria |
| Deep Creek           | DE240-004-01       | 304741     | 42           | 111.52        | 2         | 731       | 6                           | 47.02   | 0.10                   | 14.29           | Not Meeting Criteria |
| Lewes-Rehoboth Canal | DE170-001          | 305011     | 42           | 130.74        | 10        | 1720      | 9                           | 53.82   | 25.29                  | 21.43           | Not Meeting Criteria |

Enterococcus

| Watershed            | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|----------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Lewes-Rehoboth Canal | DE170-001          | 305041     | 42           | 60.59         | 10        | 305       | 5                           | 38.12   | 27.19                  | 11.90           | Not Meeting Criteria |
| Rehoboth Bay         | DE280-E01          | 306091     | 38           | 34.43         | 10        | 161       | 2                           | 19.75   | 28.74                  | 5.26            | Meeting Criteria     |
| Indian River Bay     | DE280-E01          | 306111     | 42           | 26.43         | 10        | 266       | 1                           | 15.91   | 29.71                  | 2.38            | Meeting Criteria     |
| Indian River Bay     | DE140-E01          | 306121     | 56           | 38.72         | 10        | 292       | 3                           | 23.53   | 28.05                  | 5.36            | Meeting Criteria     |
| Indian River         | DE140-004          | 306181     | 40           | 127.01        | 10        | 950       | 12                          | 62.56   | 13.71                  | 30.00           | Not Meeting Criteria |
| Indian River Bay     | DE140-E01          | 306321     | 60           | 27.14         | 10        | 109       | 2                           | 18.36   | 30.74                  | 3.33            | Meeting Criteria     |
| Indian River         | DE140-E02          | 306331     | 37           | 65.24         | 10        | 573       | 5                           | 31.17   | 21.64                  | 13.51           | Not Meeting Criteria |
| Indian River         | DE140-E02          | 306341     | 37           | 74.59         | 10        | 529       | 6                           | 42.01   | 20.13                  | 16.22           | Not Meeting Criteria |
| Broad Creek          | DE050-L04          | 307011     | 42           | 297.78        | 4         | 4840      | 7                           | 48.62   | 0.10                   | 16.67           | Not Meeting Criteria |
| Broad Creek          | DE050-001-01       | 307031     | 42           | 215.71        | 6         | 3970      | 7                           | 75.44   | 0.15                   | 16.67           | Not Meeting Criteria |
| Broad Creek          | DE050-L07          | 307081     | 41           | 261.68        | 2         | 2830      | 7                           | 55.11   | 0.15                   | 17.07           | Not Meeting Criteria |

Enterococcus

| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Broad Creek      | DE050-L03          | 307171     | 42           | 165.05        | 2         | 2830      | 3                           | 24.30   | 0.11                   | 7.14            | Meeting Criteria     |
| Broad Creek      | DE050-006-03       | 307371     | 25           | 661.02        | 8         | 4840      | 9                           | 133.30  | 0.21                   | 36.00           | Not Meeting Criteria |
| Rehoboth Bay     | DE280-L01          | 308031     | 41           | 93.74         | 2         | 821       | 4                           | 19.05   | 0.19                   | 9.76            | Meeting Criteria     |
| Rehoboth Bay     | DE280-001-01-01    | 308051     | 42           | 1195.31       | 20        | 19900     | 24                          | 267.73  | 11.34                  | 57.14           | Not Meeting Criteria |
| Indian River     | DE140-L01          | 308071     | 63           | 176.47        | 2         | 2675      | 7                           | 22.17   | 0.23                   | 11.11           | Not Meeting Criteria |
| Indian River Bay | DE140-003          | 308091     | 42           | 951.22        | 2         | 4840      | 25                          | 248.44  | 0.10                   | 59.52           | Not Meeting Criteria |
| Indian River     | DE140-006          | 308281     | 42           | 110.68        | 2         | 2240      | 3                           | 29.44   | 0.10                   | 7.14            | Meeting Criteria     |
| Indian River     | DE140-005          | 308341     | 42           | 606.76        | 10        | 3470      | 22                          | 182.16  | 0.10                   | 52.38           | Not Meeting Criteria |
| Indian River Bay | DE140-002          | 308361     | 39           | 503.14        | 8         | 2830      | 16                          | 170.45  | 0.18                   | 41.03           | Not Meeting Criteria |
| Rehoboth Bay     | DE280-002          | 308371     | 39           | 1413.06       | 18.5      | 4840      | 23                          | 608.03  | 0.38                   | 58.97           | Not Meeting Criteria |
| Iron Branch      | DE150-001-01       | 309041     | 42           | 522.68        | 2         | 4840      | 19                          | 135.91  | 0.10                   | 45.24           | Not Meeting Criteria |

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| Watershed        | Assessment Unit ID | Station ID | Sample Count | Average (CFU) | Min (CFU) | Max (CFU) | Count Greater than Criteria | Geomean | Salinity Average (ppt) | Percent Failure | Attainment           |
|------------------|--------------------|------------|--------------|---------------|-----------|-----------|-----------------------------|---------|------------------------|-----------------|----------------------|
| Little Assawoman | DE180-E01          | 310011     | 42           | 107.32        | 10        | 1420      | 3                           | 25.81   | 25.55                  | 7.14            | Meeting Criteria     |
| Little Assawoman | DE180-003-01       | 310031     | 41           | 414.32        | 10        | 4880      | 15                          | 127.27  | 12.13                  | 36.59           | Not Meeting Criteria |
| Little Assawoman | DE180-E01          | 310071     | 42           | 102.73        | 10        | 1450      | 5                           | 33.87   | 24.23                  | 11.90           | Not Meeting Criteria |
| Little Assawoman | DE180-002-02       | 310121     | 64           | 815.65        | 6         | 4840      | 44                          | 321.61  | 0.29                   | 68.75           | Not Meeting Criteria |
| Buntings Branch  | DE070-001          | 311041     | 41           | 828.31        | 24        | 4840      | 23                          | 340.05  | 0.11                   | 56.10           | Not Meeting Criteria |
| Indian River Bay | DE180-001          | 312011     | 42           | 108.99        | 10        | 1865      | 5                           | 39.75   | 25.17                  | 11.90           | Not Meeting Criteria |
| Pocomoke River   | DE250-001-02       | 313011     | 36           | 490.66        | 2         | 3110      | 14                          | 129.79  | 0.11                   | 38.89           | Not Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316011     | 41           | 207.55        | 4         | 2410      | 9                           | 82.90   | 0.10                   | 21.95           | Not Meeting Criteria |
| Gravelly Branch  | DE240-005-01       | 316031     | 42           | 164.78        | 2         | 1840      | 9                           | 40.42   | 0.10                   | 21.43           | Not Meeting Criteria |

## Appendix C: Changes Between the 2024 IR Cycle and the 2026 IR Cycle

Table C1: Parameter Status Summary

Summary status table of individual assessed and unassessed parameters based on all potential parameters and assessment units. The table shows the count of parameters falling into each category; details for individual parameters associated with specific assessment units are provided in other tables. "Not Assessed" refers to parameters unassessed in the 2026 cycle but have been assessed previously.

| Parameter Status Summary             |             |
|--------------------------------------|-------------|
| Status Categories                    | Count       |
| Changed to Cause                     | 8           |
| Changed to Meeting Criteria          | 16          |
| Changed to Removed                   | 1           |
| New - Cause                          | 24          |
| New - Meeting Criteria               | 41          |
| New - Refined                        | 2           |
| No Change - Cause                    | 145         |
| No Change - Insufficient Information | 2           |
| No Change - Meeting Criteria         | 531         |
| Not Assessed                         | 762         |
| <b>Grand Total</b>                   | <b>1532</b> |

Table C2: Changes Between the 2024 IR Cycle and the 2026 IR Cycle

Table showing parameters within assessment units that changed from the 2024 cycle to the 2026 cycle. Changes include new parameters, refined parameters, removed parameters, and parameters changed from either meeting criteria/thresholds and acting as a cause for impairment.

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                                  |
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | No Change - Meeting Criteria | Listed 2014. Delisted 2024.                                                                                          |
| DE010-001-01       | Fish Consumption                 | DIELDRIN         | 2022                   | Not Assessed                 | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-01       | Fish Consumption                 | DIOXIN           | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Cause            | Listed 1996. Delisted 2018. Relisted 2020. Delisted 2022. Relisted 2024 due to USGS continuous monitoring data.      |
| DE010-001-01       | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 2002. Delisted 2006. Relisted 2018. Delisted 2020. Relisted 2024.                                             |
| DE010-001-01       | Fish Consumption                 | FURAN COMPOUNDS  | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                             |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------|
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                        |
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                   |
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                   |
| DE010-001-01       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.   |
| DE010-001-01       | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                            |
| DE010-001-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                            |
| DE010-001-02       | Fish, Aquatic Life, and Wildlife | COPPER                           | 2026                   | No Change - Meeting Criteria |                                                                            |
| DE010-001-02       | Fish Consumption                 | DIOXIN                           | 2022                   | Not Assessed                 | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2018.                                                |
| DE010-001-02       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 2002.                                                               |
| DE010-001-02       | Fish Consumption                 | FURAN COMPOUNDS                  | 2022                   | Not Assessed                 | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-02       | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                        |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                              |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|-------------------------------------------------------------|
| DE010-001-02       | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.    |
| DE010-001-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.    |
| DE010-001-02       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | EPA TMDL for PCBS in Delaware River Zone 6 and tributaries. |
| DE010-001-02       | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                             |
| DE010-001-03-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008. Relisted 2014. Delisted 2018.   |
| DE010-001-03-01    | Primary Contact Recreation       | ENTEROCOCCUS                     | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008. Relisted 2010.                  |
| DE010-001-03-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2018                   | Not Assessed                 | Listed 1996. Delisted 2014.                                 |
| DE010-001-03-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed                 | Listed 1998.                                                |
| DE010-001-03-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                |
| DE010-001-03-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                |
| DE010-001-03-04    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                             |
| DE010-001-03-04    | Fish, Aquatic Life, and Wildlife | COPPER                           | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                         |



| Assessment Unit ID | Use                              | Parameter                                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|--------------------------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE010-001-03-04    | Fish Consumption                 | DDT<br>(DICHLORODIPHE<br>NYLTRICHLOROET<br>HANE) | 2022                   | Not Assessed                 | Delisted 2016 as DDT is no longer a contaminant of concern in fish consumption advisories for these waters.          |
| DE010-001-03-04    | Fish Consumption                 | DIELDRIN                                         | 2022                   | Not Assessed                 | Listed 2018.                                                                                                         |
| DE010-001-03-04    | Fish Consumption                 | DIOXIN                                           | 2022                   | Not Assessed                 | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-03-04    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                                 | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008. Relisted 2014. Delisted 2018.                                                            |
| DE010-001-03-04    | Primary Contact Recreation       | ENTEROCOCCUS                                     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2008. Relisted 2010.                                                                           |
| DE010-001-03-04    | Fish Consumption                 | FURAN COMPOUNDS                                  | 2022                   | Not Assessed                 | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-03-04    | Fish, Aquatic Life, and Wildlife | LEAD                                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                  |
| DE010-001-03-04    | Fish, Aquatic Life, and Wildlife | NITROGEN                                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE010-001-03-04    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE010-001-03-04    | Fish Consumption                 | POLYCHLORINATE<br>D BIPHENYLS<br>(PCBS)          | 2022                   | Not Assessed                 | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                                          |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-----------------------------------------------------------------------------------------|
| DE010-001-03-04    | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                                                         |
| DE010-002-01-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996.                                                                            |
| DE010-002-01-01    | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                                                            |
| DE010-002-01-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2002.                                                                            |
| DE010-002-01-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                                            |
| DE010-002-01-02    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996.                                                                            |
| DE010-002-01-02    | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                                                            |
| DE010-002-01-02    | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2002.                                                                            |
| DE010-002-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2018                   | Not Assessed                 | Listed 1996. Delisted 2002. Relisted 2012. Delisted 2014. Relisted 2016. Delisted 2018. |
| DE010-002-02-01    | Primary Contact Recreation       | ENTEROCOCCUS         | 2018                   | Not Assessed                 | Delisted 2020.                                                                          |
| DE010-002-02-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2018                   | Not Assessed                 | Listed 2002. Delisted 2018.                                                             |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                                         |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                     |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE010-L01          | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE010-002-02-02    | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 2002. Refined from Nutrients 2024.                |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 2002. Refined from Nutrients 2024. Delisted 2024. |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                          |
| DE010-002-02-03    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE010-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                          |
| DE010-002-02-02    | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE010-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                          |

| Assessment Unit ID | Use                              | Parameter                             | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|---------------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE010-L01          | Primary Contact Recreation       | ENTEROCOCCUS                          | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2006.                                                                                          |
| DE010-L01          | Fish, Aquatic Life, and Wildlife | LEAD                                  | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                  |
| DE010-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN                              | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE010-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                            | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE010-L01          | Fish, Aquatic Life, and Wildlife | ZINC                                  | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE010-L02          | Fish Consumption                 | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | 2018                   | Not Assessed                 | Delisted 2016 as DDT is no longer a contaminant of concern in fish consumption advisories for these waters.          |
| DE010-L02          | Fish Consumption                 | DIELDRIN                              | 2018                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-L02          | Fish Consumption                 | DIOXIN                                | 2018                   | Not Assessed                 | Delisted 2016 as these are no longer a contaminant of concern in fish consumption advisories for these waters.       |
| DE010-L02          | Primary Contact Recreation       | ENTEROCOCCUS                          | 2018                   | Not Assessed                 | Listed 1996. Delisted 2006.                                                                                          |
| DE010-L02          | Fish Consumption                 | FURAN COMPOUNDS                       | 2018                   | Not Assessed                 | Delisted 2016 as these are no longer a contaminant of concern in fish consumption advisories for these waters.       |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                                                                                                                                     |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE010-L02          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2018                   | Not Assessed                 | Listed 1996. EPA TMDL in place since 2003 for nutrients. Online at <a href="https://documents.dnrec.delaware.gov/swc/wa/Documents/Xia/Appo_NutrientsTMDL_TechReport_2003.pdf">https://documents.dnrec.delaware.gov/swc/wa/Documents/Xia/Appo_NutrientsTMDL_TechReport_2003.pdf</a> |
| DE010-L02          | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2018                   | Not Assessed                 | Delisted 2016 as PCB is no longer a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                        |
| DE010-L03          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                                                                                                                    |
| DE010-L03          | Fish, Aquatic Life, and Wildlife | COPPER                           | 2026                   | Changed to Meeting Criteria  | Listed 2016. Removed 2024. Should not have been assessed under the marine criteria. 2026 Assessed under freshwater criteria.                                                                                                                                                       |
| DE010-L03          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                                                                                                                    |
| DE010-L03          | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2004.                                                                                                                                                                                                                                                        |
| DE010-L03          | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                                                                                                                                                                                |
| DE010-L03          | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                                                                                                           |
| DE010-L03          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                                                                                                           |
| DE010-L03          | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                                                                                                                    |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE020-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE020-001-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE020-001-01       | Fish Consumption                 | DIELDRIN             | 2022                   | Not Assessed                 | Delisted 2016 as dieldrin is no longer a contaminant of concern in fish consumption advisories for these waters.     |
| DE020-001-01       | Fish Consumption                 | DIOXIN               | 2022                   | Not Assessed                 | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE020-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2016. Relisted 2022.                                                                           |
| DE020-001-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 2002. Delisted 2010. Relisted 2022.                                                                           |
| DE020-001-01       | Fish Consumption                 | FURAN COMPOUNDS      | 2022                   | Not Assessed                 | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE020-001-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE020-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE020-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2012. Refined from Nutrients 2024.                                                             |

| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change | Status Comment                                                                                                    |
|--------------------|----------------------------------|-----------------------------------|------------------------|---------------|-------------------------------------------------------------------------------------------------------------------|
| DE020-001-01       | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2022                   | Not Assessed  | Listed 2006. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                          |
| DE020-001-01       | Fish Consumption                 | TOXAPHENE                         | 2022                   | Not Assessed  | Delisted 2016 as toxaphene is no longer a contaminant of concern in fish consumption advisories for these waters. |
| DE020-002          | Fish Consumption                 | DIELDRIN                          | 2018                   | Not Assessed  | Delisted 2016 as dieldrin is no longer a contaminant of concern in fish consumption advisories for these waters.  |
| DE020-002          | Fish Consumption                 | DIOXIN                            | 2018                   | Not Assessed  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories.                                        |
| DE020-002          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2018                   | Not Assessed  | Listed 2006. Delisted 2012.                                                                                       |
| DE020-002          | Primary Contact Recreation       | ENTEROCOCCUS                      | 2018                   | Not Assessed  | Listed 2002.                                                                                                      |
| DE020-002          | Fish Consumption                 | FURAN COMPOUNDS                   | 2018                   | Not Assessed  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories.                                        |
| DE020-002          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                         | 2018                   | Not Assessed  | Listed 1998. Delisted 2012.                                                                                       |
| DE020-002          | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2018                   | Not Assessed  | Listed 2006. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                          |
| DE020-002          | Fish Consumption                 | TOXAPHENE                         | 2018                   | Not Assessed  | Delisted 2016 as toxaphene is no longer a contaminant of concern in fish consumption advisories for these waters. |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE020-003-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE020-003-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                           |
| DE020-003-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2008. Relisted 2018. Delisted 2022. |
| DE020-003-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 2006. Delisted 2020. Relisted 2024.                |
| DE020-003-02       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2018. Refined from Nutrients 2024.  |
| DE020-003-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2018. Refined from Nutrients 2024.  |
| DE020-003-03       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                           |
| DE020-003-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Cause            | Listed 2006. Delisted 2008. Relisted 2018.                |
| DE020-003-03       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Delisted 2020. Relisted 2024.                             |
| DE020-003-03       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2018. Refined from Nutrients 2024.  |
| DE020-003-03       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2018. Refined 2024.                 |
| DE030-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                           |



| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE030-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2024.                                                            |
| DE030-001          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 2002.                                                                           |
| DE030-001          | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2020. Refined from Nutrients 2024. |
| DE030-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2020. Refined from Nutrients 2024. |
| DE030-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008. Relisted 2010.                                             |
| DE030-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010.                                                            |
| DE030-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE030-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE030-002-03       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE030-002-03       | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                    |
| DE030-002-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                                                           |
| DE030-002-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008. Relisted 2010. Delisted 2022.                              |
| DE030-002-03       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2024.                                             |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE030-002-03       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024. |
| DE030-002-03       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024. |
| DE030-003          | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE030-003          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 2004.                                             |
| DE030-003          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE030-003          | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE030-003          | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE040-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                          |
| DE040-001          | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE040-001          | Fish Consumption                 | DIELDRIN             | 2022                   | Not Assessed                 | Listed 2016.                                             |
| DE040-001          | Fish Consumption                 | DIOXIN               | 2022                   | Not Assessed                 | Listed 2016.                                             |
| DE040-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE040-001          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 2002. Delisted 2016. Relisted 2020.               |
| DE040-001          | Fish Consumption                 | FURAN COMPOUNDS      | 2022                   | Not Assessed                 | Listed 2016.                                             |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE040-001          | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2022                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE040-001          | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                  |
| DE040-001          | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                             |
| DE040-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                             |
| DE040-001          | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                             |
| DE040-001          | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | ARSENIC                          | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                                  |
| DE040-002-01       | Public Water Supply              | ARSENIC                          | 2026                   | New - Meeting Criteria       | 2026 New parameter use.                                                                                              |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | COPPER                           | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                                  |
| DE040-002-01       | Fish Consumption                 | DIELDRIN                         | 2022                   | Not Assessed                 | Listed 2016.                                                                                                         |
| DE040-002-01       | Fish Consumption                 | DIOXIN                           | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE040-002-01       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2006. Relisted 2008. Delisted 2020. Relisted 2024.                                             |
| DE040-002-01       | Fish Consumption                 | FURAN COMPOUNDS                  | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2022                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                  |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE040-002-01       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                                          |
| DE040-002-01       | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE040-003-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE040-003-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                                                                         |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment |
|--------------------|----------------------------------|----------------------|------------------------|---------------|----------------|
| DE040-003-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-07       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-08       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-08       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-09       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE040-003-10       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                              |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|---------------------------------------------|
| DE050-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                             |
| DE050-001-01       | Fish, Aquatic Life, and Wildlife | COPPER             | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.            |
| DE050-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2010.                 |
| DE050-001-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | Changed to Cause             | Listed 1996. Delisted 2016. Relisted 2026.  |
| DE050-001-01       | Fish, Aquatic Life, and Wildlife | LEAD               | 2026                   | No Change - Meeting Criteria | New parameter 2024.                         |
| DE050-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.   |
| DE050-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024. |
| DE050-001-01       | Fish, Aquatic Life, and Wildlife | ZINC               | 2026                   | No Change - Meeting Criteria |                                             |
| DE050-001-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 2002. Delisted 2010.                 |
| DE050-001-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996. Delisted 2016.                 |
| DE050-001-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                |
| DE050-001-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1998.                                |
| DE050-002-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change | Status Comment |
|--------------------|----------------------------------|--------------------|------------------------|---------------|----------------|
| DE050-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-002-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed  | Listed 1998.   |
| DE050-002-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-003          | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-004-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-004-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-004-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-004-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed  | Listed 1998.   |
| DE050-004-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996.   |
| DE050-004-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed  | Listed 1998.   |
| DE050-004-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed  | Listed 1998.   |
| DE050-005-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed  | Listed 2002.   |
| DE050-005-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.   |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                        | Status Comment                                                                                                                                                      |
|--------------------|----------------------------------|------------------|------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE050-005-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                         | Listed 1996.                                                                                                                                                        |
| DE050-005-02-01    | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                         | Listed 1996.                                                                                                                                                        |
| DE050-005-02-02    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                         | Listed 1998.                                                                                                                                                        |
| DE050-006-01       | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                         | Listed 1996.                                                                                                                                                        |
| DE050-006-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                         | Listed 1996.                                                                                                                                                        |
| DE050-006-03       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria         |                                                                                                                                                                     |
| DE050-006-03       | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Cause                          | 2026 New parameter. Listed 2026.                                                                                                                                    |
| DE050-006-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | Changed to Meeting Criteria          | Listed 2002. Delisted 2026.                                                                                                                                         |
| DE050-006-03       | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause                    | Listed 2002. Delisted 2006. Relisted 2008. Delisted 2018. Relisted 2024.                                                                                            |
| DE050-006-03       | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Insufficient Information | 2024 New parameter. Listed 2024. Placed in Category 3 because this station is currently being review by lab staff and may be relocated due to changes in hydrology. |
| DE050-006-03       | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria         | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                                                                                                            |
| DE050-006-03       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria         | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                                                                                                            |



| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE050-006-03       | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE050-L01          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE050-L01          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE050-L02          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 2002.                                                                           |
| DE050-L02          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 2002.                                                                           |
| DE050-L03          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE050-L03          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                       |
| DE050-L03          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE050-L03          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | Changed to Meeting Criteria  | Listed 1996. Delisted 2004. Relisted 2024. Delisted 2026.                              |
| DE050-L03          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE050-L03          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2018. Delisted 2022. Refined from Nutrients 2024. |
| DE050-L03          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2018. Delisted 2022. Refined from Nutrients 2024. |
| DE050-L03          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                                                        |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE050-L04          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                           |
| DE050-L04          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                       |
| DE050-L04          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002. Relisted 2006. Delisted 2008. |
| DE050-L04          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2008. Relisted 2024.                |
| DE050-L04          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                       |
| DE050-L04          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                 |
| DE050-L04          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024.               |
| DE050-L04          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                           |
| DE050-L05          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 2002.                                              |
| DE050-L05          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                              |
| DE050-L06          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 2002.                                              |
| DE050-L06          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 1996.                                              |
| DE050-L06          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                              |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE050-L07          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria | Listed 2012. Delisted 2018.                              |
| DE050-L07          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                         |
| DE050-L07          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2014.                              |
| DE050-L07          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2002. Relisted 2024.               |
| DE050-L07          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE050-L07          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE050-L07          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE050-L07          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                          |
| DE050-L08          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 2002.                                             |
| DE050-L08          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE050-L08          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE060-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria | Remove 2024 - no marine criteria. Returned 2026.         |
| DE060-001          | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                   |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|--------------------------------------------------------------------------------------------------|
| DE060-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Cause            | Listed 1996. Delisted 2022. Relisted 2024. Relisted 2026 due to USGS continuous monitoring data. |
| DE060-001          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 2002.                                                                                     |
| DE060-001          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                         |
| DE060-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                         |
| DE060-002          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                                  |
| DE060-002          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Cause            | Listed 2002. Delisted 2008. Relisted 2012. Delisted 2016. Relisted 2024.                         |
| DE060-002          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996.                                                                                     |
| DE060-002          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                                                        |
| DE060-002          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024.                                                      |
| DE060-003          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                                  |
| DE060-003          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2012.                                                                      |
| DE060-003          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed in 1998. Delisted 2004. Relisted 2006. Delisted 2012. Relisted 2024.                      |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE060-003          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1998. Delisted 2016. Relisted 2018. Refined from Nutrients 2024.                |
| DE060-003          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE060-004          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE060-004          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012.                                                            |
| DE060-004          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2006. Relisted 2008. Delisted 2022. Relisted 2024.               |
| DE060-004          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed in 1996. Refined from Nutrients 2024.                                           |
| DE060-004          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed in 1996. Refined from Nutrients 2024. Delisted 2024.                            |
| DE060-005-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE060-005-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Relisted 2014. Delisted 2020.                              |
| DE060-005-01       | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996.                                                                           |
| DE060-005-01       | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed in 1996. Refined from Nutrients 2024.                                           |
| DE060-005-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | Changed to Cause             | Listed in 1996. Refined from Nutrients 2024. Delisted 2024. Relisted 2026.             |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE060-005-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE060-005-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE060-006          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE060-006          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria |                                                          |
| DE060-006          | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE060-006          | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Cause            | Listed in 1996. Refined from Nutrients 2024.             |
| DE060-006          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE060-007-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 1996. Delisted 2002.                              |
| DE060-007-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 2002. Delisted 2004.                              |
| DE060-007-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                              |
| DE060-007-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 1996. Delisted 2006.                              |
| DE060-007-02-01    | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE060-007-02-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                                             |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE060-007-02-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE060-007-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE060-007-03       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE060-008          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2018                   | Not Assessed                 | Listed 2012.                                                                           |
| DE060-008          | Fish Consumption                 | MERCURY            | 2018                   | Not Assessed                 | Listed 2010. Delisted 2018 as it is no longer a contaminant of concern in fish tissue. |
| DE060-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE060-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                                                            |
| DE060-L01          | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2006.                                                            |
| DE060-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                               |
| DE060-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                               |
| DE060-L02          | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE060-L03          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE060-L03          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2006. Relisted 2012. Delisted 2014.                              |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                            |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| DE060-L03          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2006. Relisted 2012. Delisted 2016.                                                                                 |
| DE060-L03          | Fish Consumption                 | MERCURY          | 2022                   | Not Assessed                 | Mercury listing in Waples Pond Only. Listed 2010. Delisted 2018 as Mercury is no longer a contaminant of concern in fish tissue.          |
| DE060-L03          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1998. Delisted 2016. Relisted 2020. Refined from Nutrients 2024.                                                                   |
| DE060-L03          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2016. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.                                                    |
| DE070-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                                                                           |
| DE070-001          | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                                                       |
| DE070-001          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | No Change - Cause            | Listed 2014. Removed 2024. Should not have been assessed under the marine criteria. 2026 Assessed under freshwater criteria. Listed 2026. |
| DE070-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria |                                                                                                                                           |
| DE070-001          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 2002.                                                                                                                              |
| DE070-001          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                                       |



| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                                                                                                |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE070-001          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | DNREC, EPA and MDE are working to implement the MD TMDL for Delaware's portion of this shared waterbody - Updating the DE TMDL. Listed 1996. Delisted 2008. Relisted 2012. Delisted 2014. Listed 2022. Refined from Nutrients. Delisted 2024. |
| DE070-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | DNREC, EPA and MDE are working to implement the MD TMDL for Delaware's portion of this shared waterbody - Updating the DE TMDL. Listed 1996. Delisted 2008. Relisted 2012. Delisted 2014. Listed 2022. Refined from Nutrients. Delisted 2024. |
| DE070-001          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                                                                               |
| DE080-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria | Remove 2024 - no marine criteria. Returned 2026.                                                                                                                                                                                              |
| DE080-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2020.                                                                                                                                                                                                                   |
| DE080-001          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996.                                                                                                                                                                                                                                  |
| DE080-001          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | Changed to Meeting Criteria  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Relisted 2020. Refined from Nutrients 2024. Delisted 2026.                                                                                                                          |
| DE080-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.                                                                                                                          |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE080-002          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE080-002          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Meeting Criteria | Listed 2004. Delisted 2022.                                                                                          |
| DE080-002          | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022.                                                                                          |
| DE080-002          | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | Changed to Meeting Criteria  | Listed 1996. Refined from Nutrients 2024. Delisted 2026.                                                             |
| DE080-002          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024.                                                                          |
| DE080-003          | Fish Consumption                 | DIOXIN                           | 2018                   | Not Assessed                 | Listed 2010. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE080-003          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2018                   | Not Assessed                 | Listed 2004.                                                                                                         |
| DE080-003          | Primary Contact Recreation       | ENTEROCOCCUS                     | 2018                   | Not Assessed                 | Listed 2006.                                                                                                         |
| DE080-003          | Fish Consumption                 | FURAN COMPOUNDS                  | 2018                   | Not Assessed                 | Listed 2010. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE080-003          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2018                   | Not Assessed                 | Listed 2006.                                                                                                         |
| DE080-003          | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2018                   | Not Assessed                 | Listed 2010. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |

| Assessment Unit ID | Use                              | Parameter                               | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|-----------------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE090-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                          | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE090-001          | Fish Consumption                 | CHLORDANE                               | 2022                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.                                        |
| DE090-001          | Fish Consumption                 | DDT (DICHLORODIPHE NYLTRICHLOROET HANE) | 2022                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.                                        |
| DE090-001          | Fish Consumption                 | DIELDRIN                                | 2024                   | Not Assessed                 | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | Fish Consumption                 | DIOXIN                                  | 2024                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                        | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE090-001          | Primary Contact Recreation       | ENTEROCOCCUS                            | 2026                   | Changed to Cause             | Listed 2026.                                                                                                         |
| DE090-001          | Fish Consumption                 | FURAN COMPOUNDS                         | 2024                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | Fish, Aquatic Life, and Wildlife | NITROGEN                                | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE090-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                              | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                                                             |

| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|-----------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE090-001          | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2024                   | Not Assessed                 | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries. |
| DE090-002-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY              | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE090-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE090-002-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT                | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE090-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY              | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE090-002-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY              | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE090-002-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY              | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE090-002-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT                | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE090-002-05       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2026                   | No Change - Cause            | Listed 2012.                                                             |
| DE090-002-05       | Fish, Aquatic Life, and Wildlife | NITROGEN                          | 2026                   | Not Assessed                 |                                                                          |
| DE090-002-05       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                        | 2026                   | Not Assessed                 |                                                                          |
| DE090-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                    | 2026                   | No Change - Meeting Criteria |                                                                          |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE090-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE090-L01          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Meeting Criteria | Listed in 1996. Delisted 2004.                           |
| DE090-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2012. Refined from Nutrients 2024. |
| DE090-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2012. Refined from Nutrients 2024. |
| DE100-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE100-001-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE100-001-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2002.                                             |
| DE100-001-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE100-001-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE100-001-02       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE100-001-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2002.                                             |
| DE100-001-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE100-002-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                          |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE100-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022.                              |
| DE100-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2016. Relisted 2024.               |
| DE100-002-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024. |
| DE100-002-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024. |
| DE100-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE100-002-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE100-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE100-003-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                              |
| DE100-003-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE100-003-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE100-003-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE100-003-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                              |
| DE100-003-02       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                             |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment              |
|--------------------|----------------------------------|----------------------|------------------------|---------------|-----------------------------|
| DE100-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1996.                |
| DE100-003-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996.                |
| DE100-003-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                |
| DE100-003-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                |
| DE100-003-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                |
| DE100-003-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                |
| DE100-003-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                |
| DE100-003-06       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed  | Listed 1996. Delisted 2008. |
| DE100-003-06       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1996.                |
| DE100-003-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1996.                |
| DE100-003-06       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996.                |
| DE100-004-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                |
| DE100-004-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE100-005-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE100-005-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE100-005-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE110-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008.                                              |
| DE110-001-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2018                   | Not Assessed                 | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018.                |
| DE110-001-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2018                   | Not Assessed                 | Listed 1996. Delisted 2012.                                              |
| DE110-001-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE110-001-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                                             |
| DE110-001-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                                              |
| DE110-001-02       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. Relisted 2024. |
| DE110-001-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Listed 1998.                                                             |
| DE110-001-02       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |



| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE110-001-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.  |
| DE110-001-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                               |
| DE110-001-03       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. |
| DE110-001-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-03       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                               |
| DE110-001-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-07       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-07       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE110-001-08       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-08       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-09       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-001-09       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-002-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                               |
| DE110-002-03       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. |
| DE110-002-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE110-002-03       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                               |
| DE110-002-04       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                           |
| DE110-002-04       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                               |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE110-002-04       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. Relisted 2024. |
| DE110-002-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Listed 1998.                                                             |
| DE110-002-04       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE110-002-04       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE110-002-05       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2018                   | Not Assessed                 | Listed 1998.                                                             |
| DE110-002-05       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008.                                              |
| DE110-002-05       | Primary Contact Recreation       | ENTEROCOCCUS         | 2018                   | Not Assessed                 | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018.                |
| DE110-002-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2018                   | Not Assessed                 | Listed 1998.                                                             |
| DE110-002-05       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2018                   | Not Assessed                 | Listed 1996. Delisted 2012.                                              |
| DE110-002-05       | Fish, Aquatic Life, and Wildlife | TEMPERATURE          | 2018                   | Not Assessed                 | Listed 1998. Delisted 2018 as there are no point source discharges.      |
| DE110-002-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE110-002-06       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                                              |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment                                            |
|--------------------|----------------------------------|----------------------|------------------------|---------------|-----------------------------------------------------------|
| DE110-002-06       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. |
| DE110-002-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                              |
| DE110-002-06       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996. Delisted 2012.                               |
| DE110-002-07       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                              |
| DE110-002-07       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                              |
| DE110-002-08       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                              |
| DE110-002-08       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                              |
| DE110-002-09       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                              |
| DE110-002-09       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                              |
| DE110-003-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed  | Listed 1996. Delisted 2008.                               |
| DE110-003-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1996.                                              |
| DE110-003-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996.                                              |
| DE110-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                              |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment |
|--------------------|----------------------------------|----------------------|------------------------|---------------|----------------|
| DE110-003-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-05       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-07       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-08       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-09       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE110-003-10       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                              |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|---------------------------------------------|
| DE110-003-11       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                |
| DE110-003-12       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                |
| DE110-003-13       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                |
| DE110-003-13       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                |
| DE110-003-14       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                             |
| DE110-003-14       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                |
| DE110-003-14       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                             |
| DE110-003-14       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996.                                |
| DE110-003-14       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.   |
| DE110-003-14       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024. |
| DE110-003-15       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                             |
| DE110-003-15       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                 |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE110-003-15       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 1996. Delisted 2022. Relisted 2024.               |
| DE110-003-15       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE110-003-15       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024. |
| DE110-003-15       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024. |
| DE110-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE110-L01          | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE110-L01          | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE120-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE120-001          | Fish, Aquatic Life, and Wildlife | ARSENIC            | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                      |
| DE120-001          | Public Water Supply              | ARSENIC            | 2026                   | New - Meeting Criteria       | 2026 New parameter use.                                  |
| DE120-001          | Fish Consumption                 | CHLORDANE          | 2022                   | Not Assessed                 | Listed 2016.                                             |
| DE120-001          | Fish, Aquatic Life, and Wildlife | COPPER             | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |

| Assessment Unit ID | Use                              | Parameter                                         | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|---------------------------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE120-001          | Fish Consumption                 | DDD<br>(DICHLORODIPHE<br>NYLDICHLOROET<br>HANE)   | 2022                   | Not Assessed                 | Listed 2016.                                                                                                         |
| DE120-001          | Fish Consumption                 | DDE<br>(DICHLORODIPHE<br>NYLDICHLOROET<br>HYLENE) | 2022                   | Not Assessed                 | Listed 2016.                                                                                                         |
| DE120-001          | Fish Consumption                 | DDT<br>(DICHLORODIPHE<br>NYLTRICHLOROET<br>HANE)  | 2022                   | Not Assessed                 | Listed 2016.                                                                                                         |
| DE120-001          | Fish Consumption                 | DIELDRIN                                          | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE120-001          | Fish Consumption                 | DIOXIN                                            | 2022                   | Not Assessed                 | Listed 2016.                                                                                                         |
| DE120-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                                  | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002.                                                                                          |
| DE120-001          | Primary Contact Recreation       | ENTEROCOCCUS                                      | 2026                   | No Change - Cause            | Listed 2002. Delisted 2022. Relisted 2024.                                                                           |
| DE120-001          | Fish Consumption                 | FURAN COMPOUNDS                                   | 2022                   | Not Assessed                 | Listed 2016.                                                                                                         |
| DE120-001          | Fish, Aquatic Life, and Wildlife | LEAD                                              | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                  |



| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                                  |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE120-001          | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                        |
| DE120-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                        |
| DE120-001          | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                                                                                        |
| DE120-001          | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                 |
| DE120-002          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                 |
| DE120-002          | Fish, Aquatic Life, and Wildlife | COPPER                           | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                                                                                                                |
| DE120-002          | Fish Consumption                 | DIELDRIN                         | 2022                   | Not Assessed                 | Listed 2002. 2016 delisted in error. 2018 restored category 5 Listing. 2024 state category 5mnr added based on 2018 analysis for the evaluation of Fish Consumption Advisories. |
| DE120-002          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | Changed to Cause             | Listed 2008. Delisted 2010. Relisted 2016. Delisted 2022. Relisted 2026 due to USGS continuous monitoring data.                                                                 |
| DE120-002          | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 2002.                                                                                                                                                                    |
| DE120-002          | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                                                                             |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                         |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| DE120-002          | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Relisted 2016. Delisted 2018. Refined from Nutrients 2024.                                 |
| DE120-002          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Relisted 2016. Delisted 2018. Refined from Nutrients 2024.                                 |
| DE120-002          | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                               |
| DE120-002          | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                                                                        |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                                                                        |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2022                   | Not Assessed                 | Listed 1998.                                                                                                           |
| DE120-003-01       | Fish Consumption                 | CHLORDANE                        | 2022                   | Not Assessed                 | Delisted 2016 because Chlordane is no longer a contaminant of concern in fish consumption advisories for these waters. |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | COPPER                           | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                                    |
| DE120-003-01       | Fish Consumption                 | DIELDRIN                         | 2022                   | Not Assessed                 | Listed 2018. 2024 state category 5mnr added based on 2018 analysis for the evaluation of Fish Consumption Advisories.  |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Meeting Criteria | Listed 2004. Delisted 2006.                                                                                            |
| DE120-003-01       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. Relisted 2024.                                               |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                                                |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2022                   | Not Assessed                 | Listed 1998.                                                                                                                                                                                  |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                                                                                           |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                      |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                      |
| DE120-003-01       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Prior to 2016, EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. Delisted 2016 because PCBs are no longer a contaminant of concern in fish consumption advisories for these waters. |
| DE120-003-01       | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                               |
| DE120-003-02-01    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed                 | Listed 1998.                                                                                                                                                                                  |
| DE120-003-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2012                   | Not Assessed                 | Listed 2002.                                                                                                                                                                                  |
| DE120-003-02-01    | Primary Contact Recreation       | ENTEROCOCCUS                     | 2012                   | Not Assessed                 | Listed 2002.                                                                                                                                                                                  |
| DE120-003-02-01    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                                                                                                                                                  |
| DE120-003-02-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2012                   | Not Assessed                 | Listed 2002.                                                                                                                                                                                  |
| DE120-003-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed                 | Listed 1998.                                                                                                                                                                                  |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE120-004-01       | Fish, Aquatic Life, and Wildlife | COPPER                           | 2018                   | Not Assessed                 | Listed 2016.                                                                                                         |
| DE120-004-01       | Fish Consumption                 | DIELDRIN                         | 2018                   | Not Assessed                 | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE120-004-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2018                   | Not Assessed                 | Listed 2002. Delisted 2006.                                                                                          |
| DE120-004-01       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2018                   | Not Assessed                 | Listed 1996. Delisted 2020.                                                                                          |
| DE120-004-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2018                   | Not Assessed                 | Listed 1996. Delisted 2012.                                                                                          |
| DE120-004-01       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2018                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                             |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | ARSENIC                          | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                                  |
| DE120-004-02       | Public Water Supply              | ARSENIC                          | 2026                   | New - Meeting Criteria       | 2026 New parameter use.                                                                                              |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2022                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | COPPER                           | 2026                   | Changed to Meeting Criteria  | Listed 2016. Delisted 2026.                                                                                          |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE120-004-02       | Fish Consumption                 | DIELDRIN                         | 2022                   | Not Assessed                 | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2006.                                                                                          |
| DE120-004-02       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2020. Relisted 2024.                                                                           |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2022                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                  |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE120-004-02       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                             |
| DE120-004-02       | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE120-004-02-01    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed                 | Listed 1998.                                                                                                         |
| DE120-004-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2012                   | Not Assessed                 | Listed 2002.                                                                                                         |
| DE120-004-02-01    | Primary Contact Recreation       | ENTEROCOCCUS                     | 2012                   | Not Assessed                 | Listed 1996.                                                                                                         |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment              |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-----------------------------|
| DE120-004-02-01    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                |
| DE120-004-02-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2002.                |
| DE120-004-02-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                |
| DE120-004-03-01    | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                |
| DE120-004-03-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                |
| DE120-004-03-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                |
| DE120-004-03-04    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                |
| DE120-005-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                |
| DE120-005-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996.                |
| DE120-006-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                |
| DE120-006-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012. |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                             |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                         |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE120-006-02       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE120-006-02       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                          |
| DE120-006-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE120-006-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE120-006-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE120-007-01-01    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2016                   | Not Assessed                 | Listed 1998.                                             |
| DE120-007-01-01    | Fish Consumption                 | CHLORDANE            | 2016                   | Not Assessed                 | Listed 2016.                                             |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE120-007-01-01    | Fish Consumption                 | DIELDRIN                         | 2016                   | Not Assessed                 | Listed 2016.                                                             |
| DE120-007-01-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2016                   | Not Assessed                 | Listed 1996. Delisted 2002.                                              |
| DE120-007-01-01    | Primary Contact Recreation       | ENTEROCOCCUS                     | 2016                   | Not Assessed                 | Listed 1996.                                                             |
| DE120-007-01-01    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2016                   | Not Assessed                 | Listed 1998.                                                             |
| DE120-007-01-01    | Fish Consumption                 | HEPTACHLOR EPOXIDE               | 2016                   | Not Assessed                 | Listed 2016.                                                             |
| DE120-007-01-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2016                   | Not Assessed                 | Listed 1996. Delisted 2012.                                              |
| DE120-007-01-01    | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2016                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE120-007-01-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE120-007-01-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE120-007-01-04    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE120-007-01-04    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2022                   | Not Assessed                 | Listed 1998.                                                             |



| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|-----------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE120-007-01-05    | Fish Consumption                 | CHLORDANE                         | 2022                   | Not Assessed                 | Listed 2016.                                                             |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | COPPER                            | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                      |
| DE120-007-01-05    | Fish Consumption                 | DIELDRIN                          | 2022                   | Not Assessed                 | Listed 2016.                                                             |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002.                                              |
| DE120-007-01-05    | Primary Contact Recreation       | ENTEROCOCCUS                      | 2026                   | No Change - Cause            | Listed 1996.                                                             |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT                | 2022                   | Not Assessed                 | Listed 1998.                                                             |
| DE120-007-01-05    | Fish Consumption                 | HEPTACHLOR EPOXIDE                | 2022                   | Not Assessed                 | Listed 2016.                                                             |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | LEAD                              | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                      |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | NITROGEN                          | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                        | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE120-007-01-05    | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE120-007-01-05    | Fish, Aquatic Life, and Wildlife | ZINC                              | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE120-007-02-01    | Primary Contact Recreation       | ENTEROCOCCUS                      | 2012                   | Not Assessed                 | Listed 1996.                                                             |

| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change | Status Comment                                                                                                     |
|--------------------|----------------------------------|-----------------------------------|------------------------|---------------|--------------------------------------------------------------------------------------------------------------------|
| DE120-007-02-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT                | 2012                   | Not Assessed  | Listed 1998.                                                                                                       |
| DE120-007-02-03    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY              | 2012                   | Not Assessed  | Listed 1998.                                                                                                       |
| DE120-007-02-03    | Primary Contact Recreation       | ENTEROCOCCUS                      | 2012                   | Not Assessed  | Listed 1996.                                                                                                       |
| DE120-007-02-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT                | 2012                   | Not Assessed  | Listed 1998.                                                                                                       |
| DE120-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2012                   | Not Assessed  | Listed 2004.                                                                                                       |
| DE120-L01          | Primary Contact Recreation       | ENTEROCOCCUS                      | 2012                   | Not Assessed  | Listed 1996.                                                                                                       |
| DE120-L01          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                         | 2012                   | Not Assessed  | Listed 1996.                                                                                                       |
| DE120-L01          | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2012                   | Not Assessed  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                           |
| DE120-L02          | Primary Contact Recreation       | ENTEROCOCCUS                      | 2012                   | Not Assessed  | Listed 1996.                                                                                                       |
| DE120-L02          | Fish Consumption                 | MERCURY                           | 2012                   | Not Assessed  |                                                                                                                    |
| DE120-L02          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                         | 2012                   | Not Assessed  | Listed 1996. Delisted 2002.                                                                                        |
| DE120-L02          | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2012                   | Not Assessed  | Listed 2002. Delisted 2010 due to removal of advisory. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE120-L03          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2012                   | Not Assessed  | Listed 1996.                                                                                                       |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE120-L03          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                                             |
| DE120-L03          | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2002.                                                             |
| DE130-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE130-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Cause            | Listed 1998.                                                             |
| DE130-001          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 2002. Delisted 2006. Relisted 2008. Delisted 2010. Relisted 2024. |
| DE130-001          | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                 |
| DE130-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                 |
| DE130-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996.                                                             |
| DE130-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010. Relisted 2012. Delisted 2020.                |
| DE130-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                                              |
| DE130-002-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE130-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                                             |
| DE130-002-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Cause            | Listed 1996.                                                             |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE130-002-02       | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2012. Delisted 2020. Relisted 2024. |
| DE130-002-02       | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE130-002-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE140-001          | Fish, Aquatic Life, and Wildlife | COPPER           | 2018                   | Not Assessed                 | Delisted 2020.                                                           |
| DE140-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008. Relisted 2010. Delisted 2018.                |
| DE140-001          | Primary Contact Recreation       | ENTEROCOCCUS     | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008.                                              |
| DE140-001          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2018                   | Not Assessed                 | Listed 1996.                                                             |
| DE140-002          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE140-002          | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                      |
| DE140-002          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                      |
| DE140-002          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2022.                                              |
| DE140-002          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996.                                                             |
| DE140-002          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                      |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                         |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| DE140-002          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | Changed to Cause             | Listed 2002. Refined from Nutrients 2024. Delisted 2024. Error in 2024 - should not have been delisted. Relisted 2026. |
| DE140-002          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024.                                                                            |
| DE140-002          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                                                                                                        |
| DE140-002          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                                                        |
| DE140-003          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                                                                                        |
| DE140-003          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                                    |
| DE140-003          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                                                       |
| DE140-003          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2010.                                                                                            |
| DE140-003          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996.                                                                                                           |
| DE140-003          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                    |
| DE140-003          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                               |
| DE140-003          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                               |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                              |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| DE140-003          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                                                                                                                             |
| DE140-003          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                                                                             |
| DE140-004          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                                                         |
| DE140-004          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                                                         |
| DE140-004          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | No Change - Meeting Criteria | Listed 2014. Delisted 2020. Relisted 2022. Delisted 2024.                                                                                   |
| DE140-004          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2012. Relisted 2022. Delisted 2024.                                                                                   |
| DE140-004          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Relisted 2022.                                                                    |
| DE140-004          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                                         |
| DE140-004          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen. Listed 2026 due to dissolved inorganic nitrogen. |
| DE140-004          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024.                                                                                                 |
| DE140-004          | Fish, Aquatic Life, and Wildlife | TEMPERATURE                  | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL December 2004.                                                                                                        |
| DE140-004          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Cause            | Listed 1996. Inland Bays Nutrient TMDLs addressed Suspended Solids.                                                                         |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|-------------------------------------------------------------------------------|
| DE140-004          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                               |
| DE140-005          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                                               |
| DE140-005          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                           |
| DE140-005          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                              |
| DE140-005          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria |                                                                               |
| DE140-005          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996.                                                                  |
| DE140-005          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                           |
| DE140-005          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                      |
| DE140-005          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                      |
| DE140-005          | Fish, Aquatic Life, and Wildlife | TEMPERATURE                  | 2022                   | Not Assessed                 | Listed in 1996. Delisted in 2002 as sole point source discharger was removed. |
| DE140-005          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                                                               |
| DE140-005          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                               |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE140-006          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE140-006          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                    |
| DE140-006          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                       |
| DE140-006          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | Changed to Meeting Criteria  | Listed 2002. Delisted 2004. Relisted 2024. Delisted 2026.                              |
| DE140-006          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | Changed to Meeting Criteria  | Listed 1996. Delisted 2008. Relisted 2024. Delisted 2026.                              |
| DE140-006          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE140-006          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE140-006          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE140-006          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                                                                        |
| DE140-006          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE140-007          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE140-007          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                    | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE140-008          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2012                   | Not Assessed                 | Listed 1996.                                                                           |



| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE140-008          | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                              |
| DE140-008          | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                                              |
| DE140-009-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                              |
| DE140-009-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 2004.                                              |
| DE140-009-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                              |
| DE140-009-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE140-009-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 2004.                                              |
| DE140-010          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 2002.                                              |
| DE140-010          | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                              |
| DE140-010          | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 2002.                                              |
| DE140-E01          | Fish, Aquatic Life, and Wildlife | ARSENIC            | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                       |
| DE140-E01          | Fish, Aquatic Life, and Wildlife | COPPER             | 2026                   | Changed to Meeting Criteria  | Listed 2014. Delisted 2020. Relisted 2022. Delisted 2026. |
| DE140-E01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                               |
| DE140-E01          | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | Changed to Meeting Criteria  | Listed 1996. Delisted 2010. Relisted 2024. Delisted 2026. |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                              |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|
| DE140-E01          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                         |
| DE140-E01          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                    |
| DE140-E01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | Changed to Meeting Criteria  | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic phosphorus. Delisted 2026. |
| DE140-E01          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Cause            | Listed 2006. TMDL in place for Suspended Solids in Inland Bays TMDL of 2006. Delisted 2022. Relisted 2024.  |
| DE140-E01          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                                             |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                         |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | No Change - Meeting Criteria | Delisted 2020.                                                                                              |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2010. Relisted 2012. Delisted 2013.                                                   |
| DE140-E02          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2024.                                                                  |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                         |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen.                  |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                          |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|-----------------------------------------------------------------------------------------|
| DE140-E02          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | TEMPERATURE                  | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL December 2004.                                                    |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Cause            | Listed 2014.                                                                            |
| DE140-E02          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                         |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                                                         |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                     |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                        |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002. Relisted 2004. Delisted 2006. Relisted 2020. Delisted 2024. |
| DE140-L01          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2006. Relisted 2024.                                              |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                     |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.  |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.  |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                             |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|--------------------------------------------|
| DE140-L01          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                            |
| DE140-L01          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                            |
| DE140-L02          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2012                   | Not Assessed                 | Listed 1996. Delisted 2004.                |
| DE140-L02          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                    | 2012                   | Not Assessed                 | Listed 1996.                               |
| DE140-L03          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2012                   | Not Assessed                 | Listed 1996.                               |
| DE140-L03          | Fish, Aquatic Life, and Wildlife | NUTRIENTS                    | 2012                   | Not Assessed                 | Listed 1996.                               |
| DE140-L04          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2012                   | Not Assessed                 | Listed 1996.                               |
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                            |
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                        |
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | No Change - Cause            | Listed 2016.                               |
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                |
| DE150-001-01       | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2020. Relisted 2022. |
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                        |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                                         |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|------------------------------------------------------------------------|
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.               |
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.               |
| DE150-001-01       | Fish, Aquatic Life, and Wildlife | ZINC               | 2026                   | No Change - Meeting Criteria |                                                                        |
| DE150-001-02       | Fish, Aquatic Life, and Wildlife | COPPER             | 2018                   | Not Assessed                 | Listed 2016.                                                           |
| DE150-001-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2018                   | Not Assessed                 | Listed 1998.                                                           |
| DE150-001-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2018                   | Not Assessed                 | Listed 1996. Delisted 2020.                                            |
| DE150-001-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2018                   | Not Assessed                 | Listed 1998.                                                           |
| DE150-001-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2018                   | Not Assessed                 | Listed 1996.                                                           |
| DE150-001-02       | Fish, Aquatic Life, and Wildlife | TEMPERATURE        | 2018                   | Not Assessed                 | Listed in 1998. Delisted 2018 as there are no point source discharges. |
| DE160-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                    |
| DE160-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2024.                                            |
| DE160-001          | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 1996.                                                           |
| DE160-001          | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.               |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE160-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE160-002-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                          |
| DE160-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2010.                              |
| DE160-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2018. Relisted 2024.               |
| DE160-002-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                |
| DE160-002-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE160-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE160-002-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE160-002-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE160-003-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE160-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE160-003-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 2004.                                             |
| DE160-003-03       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 2006.                                             |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE160-003-03       | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE160-004          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 2004.                                             |
| DE160-004          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE160-004          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE160-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                          |
| DE160-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2010.                              |
| DE160-L01          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2006. Relisted 2024.               |
| DE160-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024. |
| DE160-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024. |
| DE160-L02          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                              |
| DE160-L02          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                              |
| DE160-L02          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                              |
| DE170-001          | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                      |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                               |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------|
| DE170-001          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2024                   | Not Assessed                 | Delisted 2020.                                                                               |
| DE170-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Llisted 1996. Delisted 2002. Relisted 2004. Delisted 2022.                                   |
| DE170-001          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2022. Relisted 2024.                     |
| DE170-001          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                          |
| DE170-001          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                     |
| DE170-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic phosphorus. |
| DE170-001          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | New - Cause                  | Listed 2026.                                                                                 |
| DE170-001          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                              |
| DE180-001          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                          |
| DE180-001          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | Changed to Cause             | Listed 2026.                                                                                 |
| DE180-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022.                                                                  |
| DE180-001          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2022. Relisted 2024.                                                   |



| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE180-001          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE180-001          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024. |
| DE180-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024. |
| DE180-001          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Meeting Criteria |                                                          |
| DE180-001          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                          |
| DE180-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2016                   | Not Assessed                 | Listed 1996. Delisted 2016.                              |
| DE180-002-01       | Primary Contact Recreation       | ENTEROCOCCUS                 | 2016                   | Not Assessed                 | Listed 1996.                                             |
| DE180-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS                    | 2016                   | Not Assessed                 | Listed 1996.                                             |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                          |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                      |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | Changed to Meeting Criteria  | Listed 1996. Delisted 2026.                              |
| DE180-002-02       | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996.                                             |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT           | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                                          |
| DE180-002-02       | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                          |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                      |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | No Change - Meeting Criteria | Delisted 2020.                                           |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2010.                              |
| DE180-003-01       | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                             |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------------------------|
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen. |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                   |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Meeting Criteria |                                                                                            |
| DE180-003-01       | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                            |
| DE180-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT           | 2012                   | Not Assessed                 | Listed 1998.                                                                               |
| DE180-003-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT           | 2012                   | Not Assessed                 | Listed 1998.                                                                               |
| DE180-E01          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                        |
| DE180-E01          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | No Change - Meeting Criteria | Delisted 2020.                                                                             |
| DE180-E01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008. Relisted 2010. Delisted 2014.                                  |
| DE180-E01          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2006. Relisted 2024.                                                 |
| DE180-E01          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                        |
| DE180-E01          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                   |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE180-E01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024. |
| DE180-E01          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Meeting Criteria |                                                          |
| DE180-E01          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                          |
| DE190-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE190-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | Changed to Meeting Criteria  | Listed 1996. Delisted 2026.                              |
| DE190-001-01       | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 2002.                                             |
| DE190-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE190-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE190-001-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE190-001-02-01    | Primary Contact Recreation       | ENTEROCOCCUS                 | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010.                              |
| DE190-001-02-01    | Fish, Aquatic Life, and Wildlife | NUTRIENTS                    | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                              |
| DE190-001-02-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT           | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE190-001-02-03    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                          |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE190-001-02-03    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE190-001-02-03    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE190-001-02-03    | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2024.               |
| DE190-001-02-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE190-001-02-03    | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE190-001-02-03    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE190-001-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010.                              |
| DE190-001-03       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010. Relisted 2012.               |
| DE190-001-03       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                              |
| DE200-001-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2018                   | Not Assessed                 | Listed 1998.                                             |
| DE200-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008.                              |
| DE200-001-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2018                   | Not Assessed                 | Listed 1996. Delisted 2008.                              |
| DE200-001-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2018                   | Not Assessed                 | Listed 1998.                                             |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE200-001-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2018                   | Not Assessed                 | Listed 1996. Delisted 2014. Relisted 2018.                                             |
| DE200-001-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | ARSENIC            | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                    |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | COPPER             | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                       |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                                                            |
| DE200-001-03       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 1996. Delisted 2008. Relisted 2024.                                             |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2022                   | Not Assessed                 | Listed 1998.                                                                           |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | LEAD               | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Cause            | Listed 1996. Delisted 2014. Relisted 2018. Refined from Nutrients 2024.                |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE200-001-03       | Fish, Aquatic Life, and Wildlife | ZINC               | 2026                   | No Change - Meeting Criteria |                                                                                        |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment |
|--------------------|----------------------------------|----------------------|------------------------|---------------|----------------|
| DE200-001-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-001-04       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed  | Listed 2002.   |
| DE200-001-04       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 2002.   |
| DE200-001-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-001-04       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 2002.   |
| DE200-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed  | Listed 2002.   |
| DE200-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 2002.   |
| DE200-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 2002.   |
| DE200-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment |
|--------------------|----------------------------------|----------------------|------------------------|---------------|----------------|
| DE200-002-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-07       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-07       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-08       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-09       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-10       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-10       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-11       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-11       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-12       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-12       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |
| DE200-002-13       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.   |



| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment                                                      |
|--------------------|----------------------------------|----------------------|------------------------|---------------|---------------------------------------------------------------------|
| DE200-002-14       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-15       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2018                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-15       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2018                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-15       | Fish, Aquatic Life, and Wildlife | TEMPERATURE          | 2018                   | Not Assessed  | Listed 1998. Delisted 2018 as there are no point source discharges. |
| DE200-002-16       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-16       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-17       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2018                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-17       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2018                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-17       | Fish, Aquatic Life, and Wildlife | TEMPERATURE          | 2018                   | Not Assessed  | Listed 1998. Delisted 2018 as there are no point source discharges. |
| DE200-002-18       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-19       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE200-002-21       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                                        |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE200-002-21       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE200-002-23       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE200-002-24       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE210-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria | Remove 2024 - no marine criteria. Returned 2026.         |
| DE210-001          | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE210-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2020.                              |
| DE210-001          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE210-001          | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                |
| DE210-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE210-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2006.                              |
| DE210-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE210-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE210-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE210-002-03       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                          |
| DE210-002-03       | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE210-002-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE210-002-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE210-002-03       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE210-002-03       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                |
| DE210-002-03       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE210-003          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE210-003          | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE210-003          | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE210-004          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE210-004          | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE210-004          | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2006.                                             |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE210-005          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 2004.                                             |
| DE210-005          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE210-005          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 2006.                                             |
| DE210-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 2006. Delisted 2008.                              |
| DE210-L01          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE210-L02          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                          |
| DE210-L02          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria |                                                          |
| DE210-L02          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2006.                              |
| DE210-L02          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                |
| DE210-L02          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE210-L03          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 1996. Delisted 2006.                              |
| DE210-L03          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 2002. Delisted 2004.                              |
| DE210-L03          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                             |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                   |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|------------------------------------------------------------------|
| DE210-L04          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                                     |
| DE210-L05          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed                 | Listed 1996. Delisted 2002.                                      |
| DE210-L05          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 1996.                                                     |
| DE210-L05          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                                     |
| DE210-L06          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                  |
| DE210-L06          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2012.                                      |
| DE210-L06          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1998. Delisted 2006. Relisted 2024.                       |
| DE210-L06          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1998. Refined from Nutrients 2024.                        |
| DE210-L06          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1998. Refined from Nutrients 2024. Delisted 2024.         |
| DE220-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria | Remove 2024 - no marine criteria. Returned 2026.                 |
| DE220-001          | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                              |
| DE220-001          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | No Change - Cause            | Listed 2014.                                                     |
| DE220-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Cause            | Listed 1996. Listed 2026 due to USGS continuous monitoring data. |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE220-001          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 2002.                                                                           |
| DE220-001          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE220-001          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2018. Delisted 2020. Refined from Nutrients 2024. |
| DE220-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2018. Delisted 2020. Refined from Nutrients 2024. |
| DE220-001          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                    |
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Cause            | Listed 1996. Delisted 2014. Relisted 2022.                                             |
| DE220-002-01       | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996.                                                                           |
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                               |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024. |
| DE220-002-01       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE220-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE220-002-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE220-002-04       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-002-04       | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                         |
| DE220-002-04       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-002-04       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE220-002-04       | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE220-002-04       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024.                             |
| DE220-002-04       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024.                             |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                          |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-------------------------------------------------------------------------|
| DE220-002-04       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                                         |
| DE220-003-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                                            |
| DE220-003-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996.                                                            |
| DE220-003-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                            |
| DE220-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                            |
| DE220-004-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria | Listed 2004. Delisted 2018.                                             |
| DE220-004-01       | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                        |
| DE220-004-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2008.                                             |
| DE220-004-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1998.                                                            |
| DE220-004-01       | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                     |
| DE220-004-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | Changed to Cause             | Listed 1998. Delisted 2016. Refined from Nutrients 2024. Relisted 2026. |
| DE220-004-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2016. Refined from Nutrients 2024.                |
| DE220-004-01       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                                         |



| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                        | Status Comment                                                                                                                                                                                                                         |
|--------------------|----------------------------------|----------------------|------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE220-004-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                         | Listed 1998.                                                                                                                                                                                                                           |
| DE220-004-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                         | Listed 1998.                                                                                                                                                                                                                           |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria         |                                                                                                                                                                                                                                        |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2026                   | No Change - Meeting Criteria         | 2024 New parameter.                                                                                                                                                                                                                    |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Meeting Criteria               | 2026 New parameter.                                                                                                                                                                                                                    |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria         | Listed 2004. Delisted 2006.                                                                                                                                                                                                            |
| DE220-005-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause                    | Listed 1996.                                                                                                                                                                                                                           |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Insufficient Information | 2024 New parameter. Listed 2024. Placed in Category 3 for further review of data. This is a stormwater monitoring station and DNREC currently has no methodology to assess metals and other toxic data under extreme storm conditions. |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria         | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                                                                                                                                               |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria         | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                                                                                                                                               |
| DE220-005-01       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria         |                                                                                                                                                                                                                                        |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment                                                      |
|--------------------|----------------------------------|----------------------|------------------------|---------------|---------------------------------------------------------------------|
| DE220-005-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE220-005-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2018                   | Not Assessed  | Listed 1998.                                                        |
| DE220-005-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2018                   | Not Assessed  | Listed 1998.                                                        |
| DE220-005-03       | Fish, Aquatic Life, and Wildlife | TEMPERATURE          | 2018                   | Not Assessed  | Listed 1998. Delisted 2018 as there are no point source discharges. |
| DE220-005-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE220-005-05       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE220-005-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE220-005-06       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE220-005-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE220-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed  | Listed 2002. Delisted 2008.                                         |
| DE220-L01          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1998. Delisted 2006.                                         |
| DE220-L01          | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1998.                                                        |
| DE220-L02          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 2002. Delisted 2006.                                         |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE220-L02          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 2002.                                             |
| DE220-L03          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-L03          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                         |
| DE220-L03          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-L03          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 2002. Delisted 2004. Relisted 2024.               |
| DE220-L03          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE220-L03          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | Changed to Meeting Criteria  | Listed 1996. Refined from Nutrients 2024. Delisted 2026. |
| DE220-L03          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE220-L03          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-L04          | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE220-L04          | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE220-L05          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-L05          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE220-L05          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria |                                                          |
| DE220-L05          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2004.                              |
| DE220-L05          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE220-L05          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                |
| DE220-L05          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE220-L05          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                          |
| DE230-001-01       | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE230-001-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS        | 2012                   | Not Assessed                 | Listed 2002. Delisted 2012.                              |
| DE230-001-02-01    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                          |
| DE230-001-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria |                                                          |
| DE230-001-02-01    | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996.                                             |
| DE230-001-02-01    | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE230-001-02-01    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE230-001-02-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE230-001-02-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE240-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE240-001          | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                       |
| DE240-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2010.                                                            |
| DE240-001          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2004. Relisted 2014.                                             |
| DE240-001          | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE240-001          | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 1996. Delisted 2014. Relisted 2016. Refined from Nutrients 2024.                |
| DE240-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2016. Refined from Nutrients 2024. Delisted 2024. |
| DE240-001          | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                    |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                         |
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                |
| DE240-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016. Relisted 2024. |
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                      |
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                                |
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024.                              |
| DE240-002-01       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE240-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-05       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE240-002-05       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016.                |
| DE240-002-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-05       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-06       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | COPPER             | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                         |
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                |
| DE240-002-07       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016. Relisted 2024. |
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2022                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | LEAD               | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                      |
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                                |
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                 |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE240-002-07       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE240-002-08       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-08       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                |
| DE240-002-08       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016.                |
| DE240-002-08       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-002-08       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996.                                                             |
| DE240-002-09       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE240-003          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE240-003          | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                         |
| DE240-003          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | Changed to Cause             | Listed 1996. Delisted 2006. Relisted 2016. Delisted 2020. Relisted 2026. |
| DE240-003          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2006. Relisted 2010.                               |
| DE240-003          | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                      |



| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                                          |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE240-003          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                                                                                                                                               |
| DE240-003          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                                                                                                |
| DE240-003          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                         |
| DE240-004-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                         |
| DE240-004-01       | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                                                                                                                        |
| DE240-004-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria | Listed 2012. Delisted 2018.                                                                                                                                                             |
| DE240-004-01       | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2016. Relisted 2024.                                                                                                                                              |
| DE240-004-01       | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Cause            | 2024 New parameter. Listed 2024. Data collected prior to assessment period did not show exceedances and there were no obvious sources. DNREC will maintain Category 5, but investigate. |
| DE240-004-01       | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                |
| DE240-004-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                |
| DE240-004-01       | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria | Delisted 2024.                                                                                                                                                                          |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE240-004-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE240-004-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE240-004-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE240-005-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE240-005-01       | Fish, Aquatic Life, and Wildlife | COPPER             | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                         |
| DE240-005-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria |                                                          |
| DE240-005-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 1996. Delisted 2008. Relisted 2024.               |
| DE240-005-01       | Fish, Aquatic Life, and Wildlife | LEAD               | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE240-005-01       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE240-005-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE240-005-01       | Fish, Aquatic Life, and Wildlife | ZINC               | 2026                   | No Change - Cause            | Listed 2014.                                             |
| DE240-005-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                              |
| DE240-005-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                                             |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change | Status Comment              |
|--------------------|----------------------------------|--------------------|------------------------|---------------|-----------------------------|
| DE240-005-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996. Delisted 2012. |
| DE240-005-02       | Fish, Aquatic Life, and Wildlife | ZINC               | 2012                   | Not Assessed  | Listed 2014.                |
| DE240-005-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed  | Listed 1998.                |
| DE240-005-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed  | Listed 1998.                |
| DE240-006-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-006-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-006-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-006-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-006-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-006-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed  | Listed 1998.                |
| DE240-006-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-007-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-007-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed  | Listed 1996.                |
| DE240-007-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed  | Listed 1996.                |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                   |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|----------------------------------|
| DE240-007-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                     |
| DE240-007-02       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                     |
| DE240-008          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 2002.                     |
| DE240-008          | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                     |
| DE240-008          | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                     |
| DE240-010-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                     |
| DE240-010-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2012                   | Not Assessed                 | Listed 1998.                     |
| DE240-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 2002.                     |
| DE240-L01          | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                     |
| DE240-L01          | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                     |
| DE240-L02          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                  |
| DE240-L02          | Fish, Aquatic Life, and Wildlife | COPPER             | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026. |
| DE240-L02          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria |                                  |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE240-L02          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE240-L02          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE240-L02          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                               |
| DE240-L02          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                               |
| DE240-L02          | Fish, Aquatic Life, and Wildlife | ZINC             | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE240-L04          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL   | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE240-L04          | Fish, Aquatic Life, and Wildlife | COPPER           | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                                       |
| DE240-L04          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2026                   | No Change - Meeting Criteria |                                                                                        |
| DE240-L04          | Primary Contact Recreation       | ENTEROCOCCUS     | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2006.                                                            |
| DE240-L04          | Fish, Aquatic Life, and Wildlife | LEAD             | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                    |
| DE240-L04          | Fish, Aquatic Life, and Wildlife | NITROGEN         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024.                |
| DE240-L04          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |

| Assessment Unit ID | Use                              | Parameter          | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|--------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE240-L04          | Fish, Aquatic Life, and Wildlife | ZINC               | 2026                   | No Change - Meeting Criteria |                                                          |
| DE240-L05          | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE240-L05          | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE250-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                              |
| DE250-001-01       | Primary Contact Recreation       | ENTEROCOCCUS       | 2012                   | Not Assessed                 | Listed 1996. Delisted 2020.                              |
| DE250-001-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS          | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                              |
| DE250-001-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL     | 2026                   | No Change - Meeting Criteria |                                                          |
| DE250-001-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2008.                              |
| DE250-001-02       | Primary Contact Recreation       | ENTEROCOCCUS       | 2026                   | No Change - Cause            | Listed 1996. Delisted 2020. Relisted 2024.               |
| DE250-001-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE250-001-02       | Fish, Aquatic Life, and Wildlife | NITROGEN           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE250-001-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE250-001-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN   | 2012                   | Not Assessed                 | Listed 1996. Delisted 2008.                              |

| Assessment Unit ID | Use                              | Parameter              | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                      |
|--------------------|----------------------------------|------------------------|------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE250-001-03       | Primary Contact Recreation       | ENTEROCOCCUS           | 2012                   | Not Assessed                 | Listed 1996. Delisted 2020.                                                                                                                                         |
| DE250-001-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT     | 2012                   | Not Assessed                 | Listed 1998.                                                                                                                                                        |
| DE250-001-03       | Fish, Aquatic Life, and Wildlife | NUTRIENTS              | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                                                                                                                                         |
| DE250-002          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN       | 2012                   | Not Assessed                 | Listed 2006.                                                                                                                                                        |
| DE250-002          | Primary Contact Recreation       | ENTEROCOCCUS           | 2012                   | Not Assessed                 | Listed 2004.                                                                                                                                                        |
| DE250-002          | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT     | 2012                   | Not Assessed                 | Listed 1998.                                                                                                                                                        |
| DE250-002          | Fish, Aquatic Life, and Wildlife | NUTRIENTS              | 2012                   | Not Assessed                 | Listed 2004.                                                                                                                                                        |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL         | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                     |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | ARSENIC                | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                                                                                 |
| DE260-001-02       | Public Water Supply              | ARSENIC                | 2026                   | New - Meeting Criteria       | 2026 New parameter use.                                                                                                                                             |
| DE260-001-02       | Fish Consumption                 | CHLORINATED PESTICIDES | 2022                   | Not Assessed                 | TMDL Target date changed from 2009 to 2017 in the 2012 Cycle, per the WATAR plan. Delisted 2016 as these are not contaminants of concern in fish tissue advisories. |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | COPPER                 | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                                                                                 |

| Assessment Unit ID | Use                              | Parameter                                        | Last Cycle AU Assessed | Status Change                   | Status Comment                                                                                                                                                                                                                                                                                                         |
|--------------------|----------------------------------|--------------------------------------------------|------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE260-001-02       | Fish Consumption                 | DDT<br>(DICHLORODIPHE<br>NYLTRICHLOROET<br>HANE) | 2022                   | Not Assessed                    | Levels at State Line exceed human health and aquatic life criteria and decline downstream in a response fully explained by simple dilution, indicating sources are in Pennsylvania. The extensive sampling occurred in 2015 as part of the WATAR. DNREC is working with Pennsylvania and US EPA to address this issue. |
| DE260-001-02       | Fish Consumption                 | DIELDRIN                                         | 2022                   | Not Assessed                    | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | Fish Consumption                 | DIOXIN                                           | 2022                   | Not Assessed                    | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED<br>OXYGEN                              | 2026                   | No Change -<br>Meeting Criteria |                                                                                                                                                                                                                                                                                                                        |
| DE260-001-02       | Primary Contact<br>Recreation    | ENTEROCOCCUS                                     | 2026                   | No Change -<br>Cause            | Listed 1996. Delisted 2022. Relisted 2024.                                                                                                                                                                                                                                                                             |
| DE260-001-02       | Fish Consumption                 | FURAN<br>COMPOUNDS                               | 2022                   | Not Assessed                    | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | HABITAT<br>ASSESSMENT                            | 2022                   | Not Assessed                    | Per Tetra Tech Report for EPA and Delaware DNREC.                                                                                                                                                                                                                                                                      |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | LEAD                                             | 2026                   | No Change -<br>Meeting Criteria | New parameter 2024.                                                                                                                                                                                                                                                                                                    |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | NITROGEN                                         | 2026                   | No Change -<br>Cause            | Listd 1996. Refined from Nutrients 2024.                                                                                                                                                                                                                                                                               |
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                                       | 2026                   | No Change -<br>Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                                                                                                                                                                                                                               |
| DE260-001-02       | Fish Consumption                 | POLYCHLORINATE<br>D BIPHENYLS<br>(PCBS)          | 2022                   | Not Assessed                    | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                                                                                                                                                                                                                               |



| Assessment Unit ID | Use                              | Parameter                               | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                                                                                                                                                                         |
|--------------------|----------------------------------|-----------------------------------------|------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE260-001-02       | Fish, Aquatic Life, and Wildlife | ZINC                                    | 2026                   | No Change - Meeting Criteria | Listed 1996. TMDL 2004. Delisted 2014.                                                                                                                                                                                                                                                                                 |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                          | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                                                                                                                                                        |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | ARSENIC                                 | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                                                                                                                                                                                                                                    |
| DE260-001-03       | Public Water Supply              | ARSENIC                                 | 2026                   | New - Meeting Criteria       | 2026 New parameter use.                                                                                                                                                                                                                                                                                                |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY                    | 2022                   | Not Assessed                 | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | Fish Consumption                 | CHLORINATED PESTICIDES                  | 2022                   | Not Assessed                 | TMDL Target date changed from 2009 to 2017 in the 2012 Cycle, per the WATAR plan. Delisted 2016 as these are not contaminants of concern in fish tissue advisories.                                                                                                                                                    |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | COPPER                                  | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                                                                                                                                                                                                                                    |
| DE260-001-03       | Fish Consumption                 | DDT (DICHLORODIPHE NYLTRICHLOROET HANE) | 2022                   | Not Assessed                 | Levels at State Line exceed human health and aquatic life criteria and decline downstream in a response fully explained by simple dilution, indicating sources are in Pennsylvania. The extensive sampling occurred in 2015 as part of the WATAR. DNREC is working with Pennsylvania and US EPA to address this issue. |
| DE260-001-03       | Fish Consumption                 | DIELDRIN                                | 2022                   | Not Assessed                 | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | Fish Consumption                 | DIOXIN                                  | 2022                   | Not Assessed                 | Listed 2002.                                                                                                                                                                                                                                                                                                           |

| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|-----------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE260-001-03       | Primary Contact Recreation       | ENTEROCOCCUS                      | 2026                   | No Change - Cause            | Listed 1996. Delisted 2022. Relisted 2024.                               |
| DE260-001-03       | Fish Consumption                 | FURAN COMPOUNDS                   | 2022                   | Not Assessed                 | Listed 2002.                                                             |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT                | 2022                   | Not Assessed                 | Delisted 2014 per Tetra Tech Report for EPA and Delaware DNREC.          |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | LEAD                              | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                      |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | NITROGEN                          | 2026                   | Changed to Meeting Criteria  | Listed 1996. Refined from Nutrients 2024. Delisted 2026.                 |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                        | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                 |
| DE260-001-03       | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE260-001-03       | Fish, Aquatic Life, and Wildlife | ZINC                              | 2026                   | No Change - Meeting Criteria | Listed 1996. TMDL 2004. Delisted 2014.                                   |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                    | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | ARSENIC                           | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                      |
| DE260-002-01       | Public Water Supply              | ARSENIC                           | 2026                   | New - Meeting Criteria       | 2026 New parameter use.                                                  |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                                             |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Cause                  | 2026 New parameter. Listed 2026.                                         |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE260-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2020. Relisted 2024. |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                      |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE260-002-01       | Fish, Aquatic Life, and Wildlife | ZINC                 | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE260-003-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Per Tetra Tech Report for EPA and Delaware DNREC.                        |
| DE260-003-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE260-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                                                                                         |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE260-L01          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | This segment was listed in 1996, apparently based on earlier reports but no data were used for the listing. No data has been collected in the interim. The Department will study the segment to determine if a listing is appropriate. |
| DE270-001-01-01    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                                                                                        |
| DE270-001-01-01    | Fish Consumption                 | CHLORINATED BENZENES | 2022                   | Not Assessed                 | Listed 1996. Delisted 2002 based on improved conditions.                                                                                                                                                                               |
| DE270-001-01-01    | Fish, Aquatic Life, and Wildlife | CHRONIC TOXICITY     | 2022                   | Not Assessed                 | Listed Based on 2011 journal article. Likely cause is a federal superfund site. The Department is working with EPA on the cleanup and possible TMDL.                                                                                   |
| DE270-001-01-01    | Fish Consumption                 | DIOXIN               | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                                   |
| DE270-001-01-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2024.                                                                                                                                                                                                            |
| DE270-001-01-01    | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 2002. Delisted 2020. Relisted 2024.                                                                                                                                                                                             |
| DE270-001-01-01    | Fish Consumption                 | FURAN COMPOUNDS      | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                                   |
| DE270-001-01-01    | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                                                               |

| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|-----------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE270-001-01-01    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                        | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE270-001-01-01    | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries. |
| DE270-001-01-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY              | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE270-001-02-01    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                    | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE270-001-02-01    | Fish Consumption                 | DIELDRIN                          | 2022                   | Not Assessed                 | Listed 2014.                                                             |
| DE270-001-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE270-001-02-01    | Primary Contact Recreation       | ENTEROCOCCUS                      | 2026                   | No Change - Cause            | Listed 1996.                                                             |
| DE270-001-02-01    | Fish, Aquatic Life, and Wildlife | NITROGEN                          | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE270-001-02-01    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                        | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE270-001-02-01    | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 2014. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries. |
| DE270-001-02-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY              | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                    | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                      |

| Assessment Unit ID | Use                              | Parameter              | Last Cycle AU Assessed | Status Change                | Status Comment                                                                             |
|--------------------|----------------------------------|------------------------|------------------------|------------------------------|--------------------------------------------------------------------------------------------|
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | ARSENIC                | 2026                   | No Change - Meeting Criteria | 2026 New parameter.                                                                        |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | COPPER                 | 2026                   | No Change - Cause            | Listed 2016.                                                                               |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2018.                                  |
| DE280-001-01-01    | Primary Contact Recreation       | ENTEROCOCCUS           | 2026                   | No Change - Cause            | Listed 1996.                                                                               |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | LEAD                   | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                        |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | NITROGEN               | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen. |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS TOTAL       | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                   |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Meeting Criteria |                                                                                            |
| DE280-001-01-01    | Fish, Aquatic Life, and Wildlife | ZINC                   | 2026                   | No Change - Meeting Criteria |                                                                                            |
| DE280-001-01-02    | Fish, Aquatic Life, and Wildlife | COPPER                 | 2012                   | Not Assessed                 | Listed 2016.                                                                               |
| DE280-001-01-02    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN       | 2012                   | Not Assessed                 | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2018.                                  |
| DE280-001-01-02    | Primary Contact Recreation       | ENTEROCOCCUS           | 2012                   | Not Assessed                 | Listed 1996.                                                                               |
| DE280-001-01-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT     | 2012                   | Not Assessed                 | Listed 1998.                                                                               |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE280-001-01-02    | Fish, Aquatic Life, and Wildlife | NUTRIENTS                    | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE280-002          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                          |
| DE280-002          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                      |
| DE280-002          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                      |
| DE280-002          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002.                              |
| DE280-002          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Cause            | Listed 1996. Delisted 2022. Relisted 2024.               |
| DE280-002          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                      |
| DE280-002          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE280-002          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE280-002          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                                          |
| DE280-002          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                          |
| DE280-E01          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                      |

| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE280-E01          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | No Change - Meeting Criteria | Listed 2014. Delisted 2020. Relisted 2022. Delisted 2024. |
| DE280-E01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2006. Relisted 2016. Delisted 2018. |
| DE280-E01          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | No Change - Meeting Criteria |                                                           |
| DE280-E01          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                       |
| DE280-E01          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.  |
| DE280-E01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.  |
| DE280-E01          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2026                   | No Change - Meeting Criteria |                                                           |
| DE280-E01          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                           |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | No Change - Meeting Criteria |                                                           |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                       |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | COPPER                       | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                       |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 2016. Delisted 2022.                               |



| Assessment Unit ID | Use                              | Parameter                    | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE280-L01          | Primary Contact Recreation       | ENTEROCOCCUS                 | 2026                   | Changed to Meeting Criteria  | Listed 2024. Delisted 2026.                                                                                          |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | LEAD                         | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                                  |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN                     | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2018. Relisted 2022. Refined from Nutrients 2024. Delisted 2024.                               |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                   | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2018. Relisted 2022. Refined from Nutrients 2024. Delisted 2024.                               |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | TOTAL SUSPENDED SOLIDS (TSS) | 2024                   | Not Assessed                 |                                                                                                                      |
| DE280-L01          | Fish, Aquatic Life, and Wildlife | ZINC                         | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE290-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                                  |
| DE290-001-01       | Fish, Aquatic Life, and Wildlife | ARSENIC                      | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE290-001-01       | Fish Consumption                 | DIELDRIN                     | 2022                   | Not Assessed                 | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-01       | Fish Consumption                 | DIOXIN                       | 2022                   | Not Assessed                 | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2024.                                                                                          |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                       |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| DE290-001-01       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 2002.                                                                                                         |
| DE290-001-01       | Fish Consumption                 | FURAN COMPOUNDS                  | 2022                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-01       | Fish Consumption                 | MERCURY                          | 2022                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.                                        |
| DE290-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2020. Refined from Nutrients 2024.                                                             |
| DE290-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2020. Refined from Nutrients 2024.                                                             |
| DE290-001-01       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |
| DE290-001-02-01    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                                                                      |
| DE290-001-02-01    | Fish, Aquatic Life, and Wildlife | ARSENIC                          | 2022                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.                                        |
| DE290-001-02-01    | Fish Consumption                 | DIELDRIN                         | 2022                   | Not Assessed                 | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-02-01    | Fish Consumption                 | DIOXIN                           | 2022                   | Not Assessed                 | Listed 2002.                                                                                                         |
| DE290-001-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Cause            | Listed 1996.                                                                                                         |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE290-001-02-01    | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 1996.                                                                           |
| DE290-001-02-01    | Fish Consumption                 | FURAN COMPOUNDS                  | 2022                   | Not Assessed                 | Listed 2002.                                                                           |
| DE290-001-02-01    | Fish Consumption                 | MERCURY                          | 2022                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.          |
| DE290-001-02-01    | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Refined from Nutrients 2024. |
| DE290-001-02-01    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Refined from Nutrients 2024. |
| DE290-001-02-01    | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.               |
| DE290-001-02-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE290-001-02-03    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE290-001-02-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE290-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2012                   | Not Assessed                 | Listed 1996. Delisted 2002.                                                            |
| DE290-002-01       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2012                   | Not Assessed                 | Listed 1996.                                                                           |
| DE290-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2012                   | Not Assessed                 | Listed 1996.                                                                           |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE290-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE290-002-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE290-002-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE290-003-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2016                   | Not Assessed                 | Listed 1996.                                                             |
| DE290-003-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2016                   | Not Assessed                 | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2016.                |
| DE290-003-01       | Fish Consumption                 | MERCURY              | 2016                   | Not Assessed                 | Listed 2014.                                                             |
| DE290-003-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2016                   | Not Assessed                 | Listed 1996. Delisted 2012.                                              |
| DE290-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE290-003-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE290-003-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                             |
| DE290-003-05       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE290-003-05       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2024.                                              |
| DE290-003-05       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2016. Relisted 2024. |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE290-003-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Listed 1998.                                             |
| DE290-003-05       | Fish Consumption                 | MERCURY              | 2022                   | Not Assessed                 | Listed 2014.                                             |
| DE290-003-05       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE290-003-05       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE290-003-06       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE290-004-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE290-004-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 2002.                                             |
| DE290-004-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE290-004-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996.                                             |
| DE290-004-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE290-004-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE290-004-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE290-004-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |

| Assessment Unit ID | Use                              | Parameter                               | Last Cycle AU Assessed | Status Change                | Status Comment                                                                |
|--------------------|----------------------------------|-----------------------------------------|------------------------|------------------------------|-------------------------------------------------------------------------------|
| DE290-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                          | 2026                   | No Change - Meeting Criteria |                                                                               |
| DE290-L01          | Fish Consumption                 | DDT (DICHLORODIPHE NYLTRICHLOROET HANE) | 2022                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters. |
| DE290-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                        | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2002.                                                   |
| DE290-L01          | Primary Contact Recreation       | ENTEROCOCCUS                            | 2026                   | No Change - Cause            | Listed 2006. Delisted 2008. Relisted 2024.                                    |
| DE290-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN                                | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                                     |
| DE290-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                              | 2026                   | No Change - Meeting Criteria | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                      |
| DE290-L01          | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS)       | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.      |
| DE290-L02          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                          | 2026                   | No Change - Meeting Criteria |                                                                               |
| DE290-L02          | Fish, Aquatic Life, and Wildlife | ARSENIC                                 | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                           |
| DE290-L02          | Fish Consumption                 | DIOXIN                                  | 2022                   | Not Assessed                 | Listed 2002.                                                                  |
| DE290-L02          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                        | 2026                   | No Change - Meeting Criteria |                                                                               |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                             |
|--------------------|----------------------------------|----------------------------------|------------------------|------------------------------|----------------------------------------------------------------------------|
| DE290-L02          | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 2006. Delisted 2012. Relisted 2024.                                 |
| DE290-L02          | Fish Consumption                 | FURAN COMPOUNDS                  | 2022                   | Not Assessed                 | Listed 2002.                                                               |
| DE290-L02          | Fish, Aquatic Life, and Wildlife | LEAD                             | 2026                   | New - Meeting Criteria       | 2026 New parameter                                                         |
| DE290-L02          | Fish Consumption                 | MERCURY                          | 2022                   | Not Assessed                 | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-L02          | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                   |
| DE290-L02          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                   |
| DE290-L02          | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.   |
| DE290-L02          | Fish, Aquatic Life, and Wildlife | ZINC                             | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                        |
| DE290-L03          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                   | 2026                   | No Change - Meeting Criteria |                                                                            |
| DE290-L03          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                 | 2026                   | No Change - Meeting Criteria |                                                                            |
| DE290-L03          | Primary Contact Recreation       | ENTEROCOCCUS                     | 2026                   | No Change - Cause            | Listed 1996. Delisted 2004. Relisted 2024.                                 |
| DE290-L03          | Fish, Aquatic Life, and Wildlife | NITROGEN                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                   |

| Assessment Unit ID | Use                              | Parameter                                        | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                                                                              |
|--------------------|----------------------------------|--------------------------------------------------|------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE290-L03          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                                       | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                                                                                    |
| DE290-L04          | Fish Consumption                 | DDT<br>(DICHLORODIPHE<br>NYLTRICHLOROET<br>HANE) | 2018                   | Not Assessed                 | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. 2022 updated to correct Cat 5 listing to include 5mnr. |
| DE290-L04          | Fish Consumption                 | DIOXIN                                           | 2018                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                               |
| DE290-L04          | Fish Consumption                 | FURAN<br>COMPOUNDS                               | 2018                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                               |
| DE290-L04          | Fish Consumption                 | POLYCHLORINATE<br>D BIPHENYLS<br>(PCBS)          | 2018                   | Not Assessed                 | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                               |
| DE300-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                                   | 2026                   | No Change - Meeting Criteria |                                                                                                                                                                             |
| DE300-001-01       | Fish Consumption                 | CHLORDANE                                        | 2022                   | Not Assessed                 | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                  |
| DE300-001-01       | Fish Consumption                 | DIELDRIN                                         | 2022                   | Not Assessed                 | Listed 2016.                                                                                                                                                                |
| DE300-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED<br>OXYGEN                              | 2026                   | No Change - Cause            | Listed 1996. Delisted 2016. Relisted 2018.                                                                                                                                  |
| DE300-001-01       | Primary Contact Recreation       | ENTEROCOCCUS                                     | 2026                   | No Change - Cause            | Listed 2002.                                                                                                                                                                |
| DE300-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                                         | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                    |



| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|-----------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE300-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                        | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE300-001-01       | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE300-001-02-01    | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL                    | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE300-001-02-01    | Fish, Aquatic Life, and Wildlife | ARSENIC                           | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                      |
| DE300-001-02-01    | Fish Consumption                 | CHLORDANE                         | 2022                   | Not Assessed                 | Listed 2016.                                                             |
| DE300-001-02-01    | Fish Consumption                 | DIELDRIN                          | 2022                   | Not Assessed                 | Listed 2012.                                                             |
| DE300-001-02-01    | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN                  | 2026                   | No Change - Meeting Criteria |                                                                          |
| DE300-001-02-01    | Primary Contact Recreation       | ENTEROCOCCUS                      | 2026                   | No Change - Cause            | Listed 1996. Delisted 2022. Relisted 2024.                               |
| DE300-001-02-01    | Fish Consumption                 | HEPTACHLOR EPOXIDE                | 2022                   | Not Assessed                 | Listed 2016.                                                             |
| DE300-001-02-01    | Fish, Aquatic Life, and Wildlife | NITROGEN                          | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                 |
| DE300-001-02-01    | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                        | 2026                   | No Change - Meeting Criteria | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                 |
| DE300-001-02-01    | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2022                   | Not Assessed                 | Listed 2016. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                           |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------|
| DE300-001-02-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE300-001-02-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE300-001-02-03    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE300-001-02-03    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE300-001-03-01    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE300-001-03-02    | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE300-001-03-02    | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 2010.                                             |
| DE300-001-03-02    | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                             |
| DE300-001-03-02    | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 2008. Delisted 2012.                              |
| DE310-001          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria | Remove 2024 - no marine criteria. Returned 2026.         |
| DE310-001          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2024.                              |
| DE310-001          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 2002.                                             |
| DE310-001          | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2020. Refined from Nutrients 2024. |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE310-001          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2020. Refined from Nutrients 2024.  |
| DE310-002-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 2002. Delisted 2008.                               |
| DE310-002-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1996. Delisted 2010.                               |
| DE310-002-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1996. Delisted 2012.                               |
| DE310-002-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                           |
| DE310-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Listed 1998.                                              |
| DE310-002-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 2002. Delisted 2008.                               |
| DE310-002-02       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2010. Relisted 2024.                |
| DE310-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Listed 1998.                                              |
| DE310-002-02       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.  |
| DE310-002-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2012. Refined from Nutrients 2024.  |
| DE310-003-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2022                   | Not Assessed                 |                                                           |
| DE310-003-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 2004. Delisted 2014. Relisted 2018. Delisted 2022. |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                                         |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|----------------------------------------------------------------------------------------|
| DE310-003-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2022                   | Not Assessed                 | Listed 1998. Delisted 2022.                                                            |
| DE310-003-01       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | New - Refined                | Listed 1998. Delisted 2020. Relisted 2022. Refined from Nutrients 2026. Delisted 2026. |
| DE310-003-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2026                   | Changed to Removed           | Listed 1998. Delisted 2020. Relisted 2022. Refined 2026.                               |
| DE310-003-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | New - Refined                | Listed 1998. Delisted 2020. Relisted 2022. Refined from Nutrients 2026. Delisted 2026. |
| DE310-003-02       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria | 2024 Freshwater. Should be assessed for ammonia.                                       |
| DE310-003-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE310-003-02       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 2004. Delisted 2014. Relisted 2018. Delisted 2024.                              |
| DE310-003-02       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1998.                                                                           |
| DE310-003-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE310-003-02       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Cause            | Listed 1996. Delisted 2020. Refined from Nutrients 2024. Listed 2024.                  |
| DE310-003-02       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2020. Refined from Nutrients 2024.                               |
| DE310-003-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                                                           |
| DE310-003-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                                                           |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                            |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-----------------------------------------------------------|
| DE310-003-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE310-003-05       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE310-003-05       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2012                   | Not Assessed                 | Listed 2004. Delisted 2014. Relisted 2018.                |
| DE310-003-05       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed                 | Listed 1998.                                              |
| DE310-003-05       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed                 | Listed 1998. Delisted 2020.                               |
| DE310-003-06       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                           |
| DE310-003-06       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 2004. Delisted 2014. Relisted 2018. Delisted 2024. |
| DE310-003-06       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1998.                                              |
| DE310-003-06       | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024.                              |
| DE310-003-06       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024.                              |
| DE310-L01          | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                           |
| DE310-L01          | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria | Listed 2006. Delisted 2022.                               |
| DE310-L01          | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Delisted 2022. Relisted 2024.                |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change                | Status Comment                                                                                                  |
|--------------------|----------------------------------|----------------------|------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------|
| DE310-L01          | Fish, Aquatic Life, and Wildlife | NITROGEN             | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                        |
| DE310-L01          | Fish, Aquatic Life, and Wildlife | PHOSPHORUS           | 2026                   | No Change - Meeting Criteria | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                        |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | AMMONIA, TOTAL       | 2026                   | No Change - Meeting Criteria |                                                                                                                 |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2026                   | No Change - Meeting Criteria | 2024 New parameter.                                                                                             |
| DE320-001-01       | Public Water Supply              | ARSENIC              | 2026                   | New - Meeting Criteria       | 2026 New parameter use.                                                                                         |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2022                   | Not Assessed                 | Per Tetra Tech Report for EPA and Delaware DNREC.                                                               |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | COPPER               | 2026                   | New - Meeting Criteria       | 2026 New parameter.                                                                                             |
| DE320-001-01       | Fish Consumption                 | DIELDRIN             | 2022                   | Not Assessed                 | Listed 2016.                                                                                                    |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN     | 2026                   | No Change - Meeting Criteria |                                                                                                                 |
| DE320-001-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2026                   | No Change - Cause            | Listed 1996. Changed to Category 3 in 2020 to look into submitted Volunteer Data. Delisted 2022. Relisted 2024. |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2022                   | Not Assessed                 | Per Tetra Tech Report for EPA and Delaware DNREC.                                                               |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | LEAD                 | 2026                   | No Change - Meeting Criteria | New parameter 2024.                                                                                             |

| Assessment Unit ID | Use                              | Parameter                              | Last Cycle AU Assessed | Status Change                | Status Comment                                                           |
|--------------------|----------------------------------|----------------------------------------|------------------------|------------------------------|--------------------------------------------------------------------------|
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | NITROGEN                               | 2026                   | No Change - Cause            | Listed 1996. Refined from Nutrients 2024.                                |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | PHOSPHORUS                             | 2026                   | No Change - Meeting Criteria | Refined from Nutrients 2024. Delisted 2024.                              |
| DE320-001-01       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS)       | 2022                   | Not Assessed                 | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE320-001-01       | Fish, Aquatic Life, and Wildlife | ZINC                                   | 2026                   | No Change - Meeting Criteria | Listed 1999. Delisted 2004 based on improved water quality.              |
| DE320-001-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY                   | 2016                   | Not Assessed                 | Per Tetra Tech Report for EPA and Delaware DNREC.                        |
| DE320-001-03       | Fish Consumption                 | CHLORDANE                              | 2016                   | Not Assessed                 | Listed 2016.                                                             |
| DE320-001-03       | Fish Consumption                 | DDD (DICHLORODIPHENYLDICHLOROETHANE)   | 2016                   | Not Assessed                 | Listed 2016.                                                             |
| DE320-001-03       | Fish Consumption                 | DDE (DICHLORODIPHENYLDICHLOROETHYLENE) | 2016                   | Not Assessed                 | Listed 2016.                                                             |
| DE320-001-03       | Fish Consumption                 | DDT (DICHLORODIPHENYLTRICHLOROETHANE)  | 2016                   | Not Assessed                 | Listed 2016.                                                             |
| DE320-001-03       | Fish Consumption                 | DIELDRIN                               | 2016                   | Not Assessed                 | Listed 2016.                                                             |

| Assessment Unit ID | Use                              | Parameter                        | Last Cycle AU Assessed | Status Change | Status Comment                                                                                   |
|--------------------|----------------------------------|----------------------------------|------------------------|---------------|--------------------------------------------------------------------------------------------------|
| DE320-001-03       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2016                   | Not Assessed  | Listed 1996. Delisted 2020.                                                                      |
| DE320-001-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2016                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-001-03       | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2016                   | Not Assessed  | Listed 1996.                                                                                     |
| DE320-001-03       | Fish Consumption                 | POLYCHLORINATED BIPHENYLS (PCBS) | 2016                   | Not Assessed  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                         |
| DE320-001-03       | Fish, Aquatic Life, and Wildlife | ZINC                             | 2016                   | Not Assessed  | Listed 1999. Delisted 2004 based on improved water quality.                                      |
| DE320-002-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DE320-002-02       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DE320-002-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DE320-002-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY             | 2012                   | Not Assessed  | Listed 2014.                                                                                     |
| DE320-002-04       | Primary Contact Recreation       | ENTEROCOCCUS                     | 2012                   | Not Assessed  | Listed 1996.                                                                                     |
| DE320-002-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT               | 2012                   | Not Assessed  | Delisting per Tetra Tech Report for EPA and Delaware DNREC.                                      |
| DE320-002-04       | Fish, Aquatic Life, and Wildlife | NUTRIENTS                        | 2012                   | Not Assessed  | Listed 1996. Delisted 2012. Changed to Category 3 in 2020 to look into submitted Volunteer Data. |



| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment                                                                                   |
|--------------------|----------------------------------|----------------------|------------------------|---------------|--------------------------------------------------------------------------------------------------|
| DE320-002-05       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DE320-002-05       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1996.                                                                                     |
| DE320-002-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  |                                                                                                  |
| DE320-002-05       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996. Delisted 2012. Changed to Category 3 in 2020 to look into submitted Volunteer Data. |
| DE320-003-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1996.                                                                                     |
| DE320-003-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996.                                                                                     |
| DE320-003-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-04       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-05       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DE320-003-05       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1996.                                                                                     |

| Assessment Unit ID | Use                              | Parameter            | Last Cycle AU Assessed | Status Change | Status Comment                                                                                   |
|--------------------|----------------------------------|----------------------|------------------------|---------------|--------------------------------------------------------------------------------------------------|
| DE320-003-05       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DE320-003-05       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996.                                                                                     |
| DE320-004-01       | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1996.                                                                                     |
| DE320-004-01       | Fish, Aquatic Life, and Wildlife | NUTRIENTS            | 2012                   | Not Assessed  | Listed 1996. Delisted 2012. Changed to Category 3 in 2020 to look into submitted Volunteer Data. |
| DE320-004-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  |                                                                                                  |
| DE320-004-03       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  |                                                                                                  |
| DE320-004-03       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  |                                                                                                  |
| DE320-004-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  |                                                                                                  |
| DE320-005-01       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DE320-005-02       | Fish, Aquatic Life, and Wildlife | BIOLOGICAL INTEGRITY | 2012                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-005-04       | Fish, Aquatic Life, and Wildlife | HABITAT ASSESSMENT   | 2012                   | Not Assessed  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE350-E01          | Primary Contact Recreation       | ENTEROCOCCUS         | 2012                   | Not Assessed  | Listed 1998.                                                                                     |
| DEDRBCZone5        | Fish, Aquatic Life, and Wildlife | ARSENIC              | 2012                   | Not Assessed  | Not a contaminant of concern in fish consumption advisories for these waters.                    |

| Assessment Unit ID | Use                              | Parameter                         | Last Cycle AU Assessed | Status Change | Status Comment                                                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------|-----------------------------------|------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEDRBCZone5        | Fish, Aquatic Life, and Wildlife | CHRONIC TOXICITY                  | 2012                   | Not Assessed  | Bioassays performed in 2005, 2007, and 2008 indicate no chronic toxicity in Zone 5 mainstem samples. Chronic toxicity, listed in 2002, Delisted in 2012 based on 2011 journal article.                                                                                                            |
| DEDRBCZone5        | Fish Consumption                 | DIELDRIN                          | 2012                   | Not Assessed  | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dieldrin to be more specific.                                                                                                                                                                                                          |
| DEDRBCZone5        | Fish Consumption                 | DIOXIN                            | 2012                   | Not Assessed  | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dioxin to be more specific.                                                                                                                                                                                                            |
| DEDRBCZone5        | Primary Contact Recreation       | ENTEROCOCCUS                      | 2012                   | Not Assessed  | Listed 1996. Delisted 2004 based on 2004 DRBC 305(b) assessment.                                                                                                                                                                                                                                  |
| DEDRBCZone5        | Fish Consumption                 | FURAN COMPOUNDS                   | 2012                   | Not Assessed  | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Furan Compounds to be more specific.                                                                                                                                                                                                   |
| DEDRBCZone5        | Fish, Aquatic Life, and Wildlife | IRON                              | 2012                   | Not Assessed  | Surface water levels of iron in the segment sometimes exceed the applicable criterion. The Department believes further study of surface water iron levels and a determination of whether a use impairment is resulting from those levels is an appropriate response to the available information. |
| DEDRBCZone5        | Fish Consumption                 | MERCURY                           | 2012                   | Not Assessed  | Listed 2002. Delisted 2014. Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                         |
| DEDRBCZone5        | Fish Consumption                 | POLYCHLORINATE D BIPHENYLS (PCBS) | 2012                   | Not Assessed  | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Polychlorinated Biphenyls (Pcbs) to be more specific.                                                                                                                                                                                  |

| Assessment Unit ID | Use                              | Parameter        | Last Cycle AU Assessed | Status Change | Status Comment                                                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------|------------------|------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEDRBCZone5c       | Fish, Aquatic Life, and Wildlife | ARSENIC          | 2012                   | Not Assessed  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                                                     |
| DEDRBCZone5c       | Fish, Aquatic Life, and Wildlife | CHRONIC TOXICITY | 2012                   | Not Assessed  | Bioassays performed in 2005, 2007, and 2008 indicate no chronic toxicity in Zone 5 mainstem samples. Chronic toxicity, listed in 2002, Delisted in 2012 based on 2011 journal article.                                                                                                            |
| DEDRBCZone5c       | Fish Consumption                 | DIELDRIN         | 2012                   | Not Assessed  | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dieldrin to be more specific.                                                                                                                                                                                                          |
| DEDRBCZone5c       | Fish Consumption                 | DIOXIN           | 2012                   | Not Assessed  | Listed 2002.                                                                                                                                                                                                                                                                                      |
| DEDRBCZone5c       | Fish, Aquatic Life, and Wildlife | DISSOLVED OXYGEN | 2012                   | Not Assessed  | Listed 2006. Delaware will work with the DRBC, EPA, other States and Stakeholders to develop and implement a TMDL in these waters.                                                                                                                                                                |
| DEDRBCZone5c       | Primary Contact Recreation       | ENTEROCOCCUS     | 2012                   | Not Assessed  | Listed 1996. Delisted 2004 based on 2004 DRBC 305(b) assessment.                                                                                                                                                                                                                                  |
| DEDRBCZone5c       | Fish Consumption                 | FURAN COMPOUNDS  | 2012                   | Not Assessed  | Listed 2002.                                                                                                                                                                                                                                                                                      |
| DEDRBCZone5c       | Fish, Aquatic Life, and Wildlife | IRON             | 2012                   | Not Assessed  | Surface water levels of iron in the segment sometimes exceed the applicable criterion. The Department believes further study of surface water iron levels and a determination of whether a use impairment is resulting from those levels is an appropriate response to the available information. |
| DEDRBCZone5c       | Fish Consumption                 | MERCURY          | 2012                   | Not Assessed  | Listed 2002. Delisted 2014. Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                         |

| Assessment Unit ID | Use                        | Parameter                         | Last Cycle AU Assessed | Status Change | Status Comment                                                                                                                                                              |
|--------------------|----------------------------|-----------------------------------|------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEDRBCZone5c       | Fish Consumption           | POLYCHLORINATE D BIPHENYLS (PCBS) | 2012                   | Not Assessed  | Listed 1996.                                                                                                                                                                |
| DEDRBCZone6        | Fish Consumption           | DIOXIN                            | 2018                   | Not Assessed  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                               |
| DEDRBCZone6        | Primary Contact Recreation | ENTEROCOCCUS                      | 2018                   | Not Assessed  | Listed 1996. Delisted 2004 based on 2004 DRBC 305(b) assessment.                                                                                                            |
| DEDRBCZone6        | Fish Consumption           | FURAN COMPOUNDS                   | 2018                   | Not Assessed  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                               |
| DEDRBCZone6        | Fish Consumption           | MERCURY                           | 2018                   | Not Assessed  | Listed 2002. TMDL Target date of 2012 changed to 2016 in the 2012 Cycle. Changed to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DEDRBCZone6        | Fish Consumption           | POLYCHLORINATE D BIPHENYLS (PCBS) | 2018                   | Not Assessed  | Listed 1996.                                                                                                                                                                |

## Appendix D: Use/Parameter Summary

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Table D1: Summary of 2026 Assessment Results by Designated Use

Summary table of parameter status by assessment unit in relation to their designated uses. The table indicates the number of stations used on each assessment unit to perform the assessment and if the parameter is or is not meeting the threshold or criteria (Y=Yes; N=No; I=Insufficient Information; R=Removed). Station counts with an asterisk (\*) indicate a USGS continuous monitoring station for dissolved oxygen as well as standard grab samples. Parameters with superscripts are not meeting criteria or threshold due to one of multiple factors tests for that parameter (<sup>1</sup> = continuous DO monitoring; <sup>2</sup> = dissolved inorganic nitrogen; <sup>3</sup> = dissolved inorganic phosphorus).

2026 Assessed Parameters Meeting Criteria or Threshold (Yes/No)

|                    |               | Fish, Aquatic Life and Wildlife |         |          |             |                        |      |      |        |         | Primary Use  | Public Water Supply |
|--------------------|---------------|---------------------------------|---------|----------|-------------|------------------------|------|------|--------|---------|--------------|---------------------|
| Assessment Unit ID | Station Count | Dissolved Oxygen                | Ammonia | Nitrogen | Phosphorous | Total Suspended Solids | Zinc | Lead | Copper | Arsenic | Enterococcus | Arsenic             |
| DE010-001-01*      | 3             | N                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            |                     |
| DE010-001-02       | 2             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      |         | N            |                     |
| DE010-001-03-04    | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      |         | N            |                     |
| DE010-002-02-02    | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | Y      | Y       | N            |                     |
| DE010-L01          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      |         | Y            |                     |
| DE010-L03          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      |         | Y            |                     |
| DE020-001-01       | 2             | N                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE020-003-02       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE020-003-03       | 1             | N                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE030-001          | 2             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE030-002-03       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        | Y       | N            |                     |
| DE040-001          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      |         | N            |                     |
| DE040-002-01*      | 3             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            | Y                   |
| DE050-001-01       | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | N      |         | N            |                     |

### 2026 Assessed Parameters Meeting Criteria or Threshold (Yes/No)

|                    |               | Fish, Aquatic Life and Wildlife |         |          |             |                        |      |      |        |         | Primary Use  | Public Water Supply |
|--------------------|---------------|---------------------------------|---------|----------|-------------|------------------------|------|------|--------|---------|--------------|---------------------|
| Assessment Unit ID | Station Count | Dissolved Oxygen                | Ammonia | Nitrogen | Phosphorous | Total Suspended Solids | Zinc | Lead | Copper | Arsenic | Enterococcus | Arsenic             |
| DE050-006-03       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | I    | N      |         | N            |                     |
| DE050-L03          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      |         | Y            |                     |
| DE050-L04          | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | Y      |         | N            |                     |
| DE050-L07          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE060-001*         | 3             | N                               | Y       | Y        | Y           |                        |      |      |        | Y       | N            |                     |
| DE060-002          | 2             | N                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE060-003          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE060-004          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE060-005-01       | 2             | Y                               | Y       | N        | N           |                        |      |      |        |         | N            |                     |
| DE060-006          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE060-L01          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | Y            |                     |
| DE060-L03          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | Y            |                     |
| DE070-001          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE090-001          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE090-002-05       | 1             | N                               |         | Y        | Y           |                        |      |      |        |         |              |                     |
| DE090-L01          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | Y            |                     |
| DE080-001          | 2             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE080-002          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | Y            |                     |
| DE210-001          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        | Y       | N            |                     |
| DE100-002-01       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |



2026 Assessed Parameters Meeting Criteria or Threshold (Yes/No)

|                    |               | Fish, Aquatic Life and Wildlife |         |          |             |                        |      |      |        |         | Primary Use  | Public Water Supply |
|--------------------|---------------|---------------------------------|---------|----------|-------------|------------------------|------|------|--------|---------|--------------|---------------------|
| Assessment Unit ID | Station Count | Dissolved Oxygen                | Ammonia | Nitrogen | Phosphorous | Total Suspended Solids | Zinc | Lead | Copper | Arsenic | Enterococcus | Arsenic             |
| DE110-001-02       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE110-002-04       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE110-003-14       | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE110-003-15       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE120-001          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            | Y                   |
| DE120-002*         | 2             | N                               | Y       | Y        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE120-003-01       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      |         | N            |                     |
| DE120-004-02       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            | Y                   |
| DE120-006-02       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE120-007-01-05    | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      |         | N            |                     |
| DE130-001          | 1             | N                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE130-002-02       | 1             | N                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE140-004          | 1             | Y                               | Y       | N        | Y           | N                      | Y    | Y    | Y      | Y       | N            |                     |
| DE140-005          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE140-006          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | Y            |                     |
| DE140-E02          | 2             | Y                               |         | N        | Y           | N                      | Y    | Y    | Y      | Y       | N            |                     |
| DE140-L01*         | 2             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE140-002          | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | Y      | Y       | N            |                     |
| DE140-003          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE140-E01          | 2             | Y                               |         | Y        | Y           | N                      | Y    | Y    | Y      | Y       | Y            |                     |

### 2026 Assessed Parameters Meeting Criteria or Threshold (Yes/No)

|                    |               | Fish, Aquatic Life and Wildlife |         |          |             |                        |      |      |        |         | Primary Use  | Public Water Supply |
|--------------------|---------------|---------------------------------|---------|----------|-------------|------------------------|------|------|--------|---------|--------------|---------------------|
| Assessment Unit ID | Station Count | Dissolved Oxygen                | Ammonia | Nitrogen | Phosphorous | Total Suspended Solids | Zinc | Lead | Copper | Arsenic | Enterococcus | Arsenic             |
| DE180-001          | 1             | Y                               |         | Y        | Y           | Y                      | Y    | Y    | N      | Y       | N            |                     |
| DE280-E01          | 1             | Y                               |         | Y        | Y           | Y                      | Y    | Y    | Y      | Y       | Y            |                     |
| DE150-001-01       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE160-001          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE160-002-01       | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE160-L01          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE170-001          | 2             | Y                               |         | Y        | N           | N                      | Y    | Y    |        | Y       | N            |                     |
| DE180-002-02       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            |                     |
| DE180-003-01       | 1             | Y                               | Y       | N        | Y           | Y                      | Y    | Y    | Y      | Y       | N            |                     |
| DE180-E01          | 2             | Y                               |         | Y        | Y           | Y                      | Y    | Y    | Y      | Y       | N            |                     |
| DE190-001-01       | 1             | Y                               | Y       | Y        | N           |                        |      |      |        |         | N            |                     |
| DE190-001-02-03    | 1             | N                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE200-001-03       | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE210-001          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        | Y       | N            |                     |
| DE210-002-03       | 1             | Y                               | Y       | N        | Y           |                        |      |      |        | Y       | N            |                     |
| DE210-L02          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | Y            |                     |
| DE210-L06          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE220-001*         | 4             | N                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE220-002-01       | 1             | N                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            |                     |
| DE220-002-04       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      |         | N            |                     |

2026 Assessed Parameters Meeting Criteria or Threshold (Yes/No)

|                    |               | Fish, Aquatic Life and Wildlife |         |          |             |                        |      |      |        |         | Primary Use  | Public Water Supply |
|--------------------|---------------|---------------------------------|---------|----------|-------------|------------------------|------|------|--------|---------|--------------|---------------------|
| Assessment Unit ID | Station Count | Dissolved Oxygen                | Ammonia | Nitrogen | Phosphorous | Total Suspended Solids | Zinc | Lead | Copper | Arsenic | Enterococcus | Arsenic             |
| DE220-004-01       | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE220-005-01       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | I    | Y      | Y       | N            |                     |
| DE220-L03          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE220-L05          | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | Y      |         | Y            |                     |
| DE230-001-02-01    | 3             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE240-001          | 2             | Y                               | Y       | N        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE240-002-01       | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | N      | Y       | N            |                     |
| DE240-002-07       | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE240-003          | 2             | N                               | Y       | N        | Y           |                        | Y    | Y    | N      |         | N            |                     |
| DE240-004-01       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | N    | N      |         | N            |                     |
| DE240-005-01       | 2             | Y                               | Y       | Y        | Y           |                        | N    | Y    | N      |         | N            |                     |
| DE240-L02          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      |         | Y            |                     |
| DE240-L04          | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | N      |         | Y            |                     |
| DE250-001-02       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE260-001-02       | 1             | Y                               | Y       | N        | Y           |                        | Y    | Y    | Y      | Y       | N            | Y                   |
| DE260-001-03       | 2             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            | Y                   |
| DE260-002-01       | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | N      | Y       | N            | Y                   |
| DE270-001-01-01    | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE270-001-02-01    | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE280-001-01-01    | 1             | Y                               | Y       | N        | Y           | Y                      | Y    | Y    | N      | Y       | N            |                     |

2026 Assessed Parameters Meeting Criteria or Threshold (Yes/No)

|                    |               | Fish, Aquatic Life and Wildlife |         |          |             |                        |      |      |        |         | Primary Use  | Public Water Supply |
|--------------------|---------------|---------------------------------|---------|----------|-------------|------------------------|------|------|--------|---------|--------------|---------------------|
| Assessment Unit ID | Station Count | Dissolved Oxygen                | Ammonia | Nitrogen | Phosphorous | Total Suspended Solids | Zinc | Lead | Copper | Arsenic | Enterococcus | Arsenic             |
| DE280-002          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | N            |                     |
| DE280-E01          | 2             | Y                               |         | Y        | Y           | Y                      | Y    | Y    | Y      | Y       | Y            |                     |
| DE280-L01          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    | Y      | Y       | Y            |                     |
| DE300-001-01       | 1             | N                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE300-001-02-01    | 2             | Y                               | Y       | Y        | Y           |                        |      |      |        | Y       | N            |                     |
| DE310-001          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE310-002-02       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE310-003-01       | 1             | Y                               |         | Y        | Y           |                        |      |      |        |         |              |                     |
| DE310-003-02       | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE310-003-06       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE310-L01          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE290-001-01       | 2             | Y                               | Y       | Y        | Y           |                        |      |      |        | Y       | N            |                     |
| DE290-001-02-01    | 1             | N                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE290-003-05       | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE290-L01          | 1             | Y                               | Y       | N        | Y           |                        |      |      |        |         | N            |                     |
| DE290-L02          | 1             | Y                               | Y       | Y        | Y           |                        | Y    | Y    |        | Y       | N            |                     |
| DE290-L03          | 1             | Y                               | Y       | Y        | Y           |                        |      |      |        |         | N            |                     |
| DE320-001-01       | 3             | Y                               | Y       | N        | Y           |                        | Y    | Y    | Y      | Y       | N            | Y                   |

## Appendix E: Clean Water Act Section 305(b) and Section 303(d) Lists

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Table E1: The State of Delaware 2026 Clean Water Act Section 305(b) List of Assessed Waters  
(downloaded from ATTAINS on February 13, 2026)

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE010-001-01       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2006. Relisted 2018. Delisted 2020. Relisted 2024.                                             |
| DE010-001-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2002          |            |                  | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |
| DE010-001-01       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE010-001-01       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE010-001-01       | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2018. Relisted 2020. Delisted 2022. Relisted 2024 due to USGS continuous monitoring data.      |
| DE010-001-01       | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-01       | DIOXIN                           | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-01       | FURAN COMPOUNDS                  | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-01       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE010-001-01       | ARSENIC                          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                                                  |
| DE010-001-01       | COPPER                           | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Listed 2014. Delisted 2024.                                                                                          |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                   |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------|
|                    |                                  | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                                                            |
| DE010-001-01       | LEAD                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                        |
| DE010-001-01       | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                            |
| DE010-001-02       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                               |
| DE010-001-02       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2002          |            |                  | EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                |
| DE010-001-02       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2018.                                                |
| DE010-001-02       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                   |
| DE010-001-02       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                   |
| DE010-001-02       | DIOXIN                           | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-02       | FURAN COMPOUNDS                  | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-02       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                            |
| DE010-001-02       | COPPER                           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                            |
| DE010-001-02       | LEAD                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                        |
| DE010-001-02       | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                            |
| DE010-001-03-01    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2008. Relisted 2010.                                 |
| DE010-001-03-01    | NUTRIENTS                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014.                                                |
| DE010-001-03-      | DISSOLVED                        | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Listed 1996. Delisted 2008.                                                |

| Assessment Unit ID | Parameter                             | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|---------------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| 01                 | OXYGEN                                | Criteria         |        |                |                  | Wildlife                         |               |            |                  | Relisted 2014. Delisted 2018.                                                                                        |
| DE010-001-03-02    | BIOLOGICAL INTEGRITY                  | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-001-03-02    | HABITAT ASSESSMENT                    | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-001-03-03    | HABITAT ASSESSMENT                    | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-001-03-04    | ENTEROCOCCUS                          | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2008. Relisted 2010.                                                                           |
| DE010-001-03-04    | POLYCHLORINATED BIPHENYLS (PCBS)      | Cause            | 4A     | N              |                  | Fish Consumption                 | 2002          |            |                  | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |
| DE010-001-03-04    | NITROGEN                              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE010-001-03-04    | PHOSPHORUS                            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE010-001-03-04    | DISSOLVED OXYGEN                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008. Relisted 2014. Delisted 2018.                                                            |
| DE010-001-03-04    | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as DDT is no longer a contaminant of concern in fish consumption advisories for these waters.          |
| DE010-001-03-04    | DIELDRIN                              | Cause            | 5      | N              |                  | Fish Consumption                 | 2018          |            | Low              | Listed 2018.                                                                                                         |
| DE010-001-03-04    | DIOXIN                                | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-03-04    | FURAN COMPOUNDS                       | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-03-04    | AMMONIA, TOTAL                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |



| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------|
| DE010-001-03-04    | COPPER               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                     |
| DE010-001-03-04    | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                     |
| DE010-001-03-04    | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                         |
| DE010-002-01-01    | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                            |
| DE010-002-01-01    | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                            |
| DE010-002-01-01    | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                                            |
| DE010-002-01-02    | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                            |
| DE010-002-01-02    | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                            |
| DE010-002-01-02    | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                                            |
| DE010-002-01-02    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                            |
| DE010-002-02-01    | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Delisted 2020.                                                                          |
| DE010-002-02-01    | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2012. Delisted 2014. Relisted 2016. Delisted 2018. |
| DE010-002-02-01    | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2018.                                                             |
| DE010-002-02-02    | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                            |
| DE010-002-02-02    | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002. Refined from Nutrients 2024.                                               |
| DE010-002-02-02    | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Refined from Nutrients 2024. Delisted 2024.                                |
| DE010-002-02-02    | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                         |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                    |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------------------------------------|
| DE010-002-02-02    | ARSENIC                          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                                         |
| DE010-002-02-02    | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                |
| DE010-002-02-02    | COPPER                           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                         |
| DE010-002-02-02    | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                             |
| DE010-002-02-02    | LEAD                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                         |
| DE010-002-02-02    | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                             |
| DE010-002-02-03    | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                |
| DE010-L01          | ENTEROCOCCUS                     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1998. Delisted 2006.                                                                                 |
| DE010-L01          | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                                                    |
| DE010-L01          | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                                                    |
| DE010-L01          | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                             |
| DE010-L01          | COPPER                           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                         |
| DE010-L01          | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                             |
| DE010-L01          | LEAD                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                         |
| DE010-L01          | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                             |
| DE010-L02          | POLYCHLORINATED BIPHENYLS (PCBS) | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as PCB is no longer a contaminant of concern in fish consumption advisories for these waters. |
| DE010-L02          | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. EPA TMDL in                                                                                    |

| Assessment Unit ID | Parameter                             | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                                  |
|--------------------|---------------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                       |                  |        |                |                  | Wildlife                         |               |            |                  | place since 2003 for nutrients. Online at <a href="https://documents.dnrec.delaware.gov/swc/wa/Documents/Xia/Appo_NutrientsTMDL_TechReport_2003.pdf">https://documents.dnrec.delaware.gov/swc/wa/Documents/Xia/Appo_NutrientsTMDL_TechReport_2003.pdf</a> |
| DE010-L02          | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as DDT is no longer a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                               |
| DE010-L02          | DIELDRIN                              | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                                                      |
| DE010-L02          | DIOXIN                                | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as these are no longer a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                            |
| DE010-L02          | FURAN COMPOUNDS                       | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as these are no longer a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                            |
| DE010-L02          | ENTEROCOCCUS                          | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2006.                                                                                                                                                                                                                               |
| DE010-L03          | NITROGEN                              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                                                                                  |
| DE010-L03          | PHOSPHORUS                            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                                                                                  |
| DE010-L03          | AMMONIA, TOTAL                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                                           |
| DE010-L03          | COPPER                                | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2016. Removed 2024. Should not have been assessed under the marine criteria. 2026 Assessed under freshwater criteria.                                                                                                                              |
| DE010-L03          | DISSOLVED OXYGEN                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                                           |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE010-L03          | LEAD                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                  |
| DE010-L03          | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE010-L03          | ENTEROCOCCUS                     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004.                                                                                          |
| DE020-001-01       | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2016. Relisted 2022.                                                                           |
| DE020-001-01       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE020-001-01       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE020-001-01       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2010. Relisted 2022.                                                                           |
| DE020-001-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2006          |            |                  | Listed 2006. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |
| DE020-001-01       | DIELDRIN                         | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as dieldrin is no longer a contaminant of concern in fish consumption advisories for these waters.     |
| DE020-001-01       | DIOXIN                           | Cause            | 5      | N              |                  | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE020-001-01       | FURAN COMPOUNDS                  | Cause            | 5      | N              |                  | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE020-001-01       | TOXAPHENE                        | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as toxaphene is no longer a contaminant of concern in fish consumption advisories for these waters.    |
| DE020-001-01       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                          |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------|
| DE020-001-01       | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                      |
| DE020-001-01       | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                      |
| DE020-002          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                                                      |
| DE020-002          | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2012.                                                                                       |
| DE020-002          | NUTRIENTS                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2012.                                                                                       |
| DE020-002          | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2006          |            |                  | Listed 2006. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                          |
| DE020-002          | DIELDRIN                         | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as dieldrin is no longer a contaminant of concern in fish consumption advisories for these waters.  |
| DE020-002          | DIOXIN                           | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories.                                        |
| DE020-002          | FURAN COMPOUNDS                  | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories.                                        |
| DE020-002          | TOXAPHENE                        | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 as toxaphene is no longer a contaminant of concern in fish consumption advisories for these waters. |
| DE020-003-01       | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                      |
| DE020-003-02       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006. Delisted 2020. Relisted 2024.                                                                        |
| DE020-003-02       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2008. Relisted 2018. Delisted 2022.                                                         |
| DE020-003-02       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2018. Refined from Nutrients 2024.                                                          |
| DE020-003-02       | PHOSPHORUS                       | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Listed 2006. Delisted 2018.                                                                                       |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
|                    |                      | Criteria         |        |                |                  | Wildlife                         |               |            |                  | Refined from Nutrients 2024.                                                           |
| DE020-003-02       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE020-003-03       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Delisted 2020. Relisted 2024.                                                          |
| DE020-003-03       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2018          |            |                  | Listed 2006. Delisted 2008. Relisted 2018.                                             |
| DE020-003-03       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2018. Refined from Nutrients 2024.                               |
| DE020-003-03       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2018. Refined 2024.                                              |
| DE020-003-03       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE030-001          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2024.                                                            |
| DE030-001          | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2020. Refined from Nutrients 2024. |
| DE030-001          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2020. Refined from Nutrients 2024. |
| DE030-001          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                           |
| DE030-001          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE030-002-01       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010.                                                            |
| DE030-002-01       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2008. Relisted 2010.                                             |
| DE030-002-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                           |
| DE030-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE030-002-03       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2024.                                             |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE030-002-03       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008. Relisted 2010. Delisted 2022.                |
| DE030-002-03       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                 |
| DE030-002-03       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                 |
| DE030-002-03       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE030-002-03       | ARSENIC                          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                      |
| DE030-002-03       | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE030-003          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                                             |
| DE030-003          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                                                             |
| DE030-003          | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                                             |
| DE030-003          | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE030-003          | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE040-001          | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE040-001          | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                 |
| DE040-001          | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                 |
| DE040-001          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2016. Relisted 2020.                               |
| DE040-001          | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE040-001          | DIOXIN                           | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE040-001          | FURAN COMPOUNDS                  | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE040-001          | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE040-001          | COPPER                           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                  |
| DE040-001          | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE040-001          | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-001          | LEAD                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                  |
| DE040-001          | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE040-002-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                                          |
| DE040-002-01       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE040-002-01       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                             |
| DE040-002-01       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2006. Relisted 2008. Delisted 2020. Relisted 2024.                                             |
| DE040-002-01       | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE040-002-01       | DIOXIN                           | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE040-002-01       | FURAN COMPOUNDS                  | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE040-002-01       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE040-002-01       | ARSENIC                          | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | 2026 New parameter use.                                                                                              |



| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------|
|                    |                      | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                         |
| DE040-002-01       | COPPER               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.     |
| DE040-002-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                         |
| DE040-002-01       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-002-01       | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.     |
| DE040-002-01       | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                         |
| DE040-002-01       | ARSENIC              | Meeting Criteria | 2      | N              |                  | Public Water Supply              |               |            |                  | 2026 New parameter use. |
| DE040-003-01       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-01       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-05       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-06       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-06       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-07       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |
| DE040-003-08       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.            |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                         | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                    |
|--------------------|----------------------|------------------|--------|----------------|------------------------------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------|
| DE040-003-08       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                |
| DE040-003-09       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                |
| DE040-003-10       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                |
| DE050-001-01       | ENTEROCOCCUS         | Cause            | 4A     | N              | TMDL Approved or established by EPA (4a) | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2016. Relisted 2026.  |
| DE050-001-01       | NITROGEN             | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.   |
| DE050-001-01       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024. |
| DE050-001-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2010.                 |
| DE050-001-01       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                             |
| DE050-001-01       | COPPER               | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.            |
| DE050-001-01       | LEAD                 | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                         |
| DE050-001-01       | ZINC                 | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                             |
| DE050-001-02       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                                          | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2016.                 |
| DE050-001-02       | NUTRIENTS            | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1998.                                |
| DE050-001-02       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2010.                 |
| DE050-001-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                |
| DE050-002-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                |

| Assessment Unit ID | Parameter          | Status | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments     |
|--------------------|--------------------|--------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------|
| DE050-002-01       | NUTRIENTS          | Cause  | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. |
| DE050-002-02       | ENTEROCOCCUS       | Cause  | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. |
| DE050-002-02       | NUTRIENTS          | Cause  | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. |
| DE050-002-02       | HABITAT ASSESSMENT | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE050-003          | ENTEROCOCCUS       | Cause  | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. |
| DE050-004-01       | ENTEROCOCCUS       | Cause  | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. |
| DE050-004-01       | NUTRIENTS          | Cause  | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. |
| DE050-004-02       | ENTEROCOCCUS       | Cause  | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. |
| DE050-004-02       | NUTRIENTS          | Cause  | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. |
| DE050-004-02       | HABITAT ASSESSMENT | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE050-004-03       | HABITAT ASSESSMENT | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE050-004-04       | HABITAT ASSESSMENT | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE050-005-01       | ENTEROCOCCUS       | Cause  | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. |
| DE050-005-01       | NUTRIENTS          | Cause  | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. |
| DE050-005-01       | DISSOLVED OXYGEN   | Cause  | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002. |
| DE050-005-02-01    | ENTEROCOCCUS       | Cause  | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. |
| DE050-005-02-02    | DISSOLVED OXYGEN   | Cause  | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998. |
| DE050-006-01       | ENTEROCOCCUS       | Cause  | 4A     | N              |                  | Primary Contact                  | 1996          |            |                  | Listed 1996. |

| Assessment Unit ID | Parameter        | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                            |
|--------------------|------------------|--------------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                  |                          |        |                |                                            | Recreation                       |               |            |                  |                                                                                                                                                                     |
| DE050-006-01       | NUTRIENTS        | Cause                    | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                                                                                        |
| DE050-006-03       | ENTEROCOCCUS     | Cause                    | 4A     | N              |                                            | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2006. Relisted 2008. Delisted 2018. Relisted 2024.                                                                                            |
| DE050-006-03       | DISSOLVED OXYGEN | Meeting Criteria         | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2026.                                                                                                                                         |
| DE050-006-03       | NITROGEN         | Meeting Criteria         | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                                                                                                            |
| DE050-006-03       | PHOSPHORUS       | Meeting Criteria         | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                                                                                                            |
| DE050-006-03       | AMMONIA, TOTAL   | Meeting Criteria         | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                     |
| DE050-006-03       | COPPER           | Cause                    | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                    |
| DE050-006-03       | LEAD             | Insufficient Information | 3      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter. Listed 2024. Placed in Category 3 because this station is currently being review by lab staff and may be relocated due to changes in hydrology. |
| DE050-006-03       | ZINC             | Meeting Criteria         | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                     |
| DE050-L01          | ENTEROCOCCUS     | Cause                    | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                                                                        |
| DE050-L01          | NUTRIENTS        | Cause                    | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                                                                                        |
| DE050-L02          | ENTEROCOCCUS     | Cause                    | 4A     | N              |                                            | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                                                                                                        |
| DE050-L02          | NUTRIENTS        | Cause                    | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                                                                                                                        |
| DE050-L03          | NITROGEN         | Meeting                  | 2      | N              |                                            | Fish, Aquatic Life, and          |               |            |                  | Listed 1996. Delisted 2014.                                                                                                                                         |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
|                    |                  | Criteria         |        |                |                                            | Wildlife                         |               |            |                  | Relisted 2018. Delisted 2022. Refined from Nutrients 2024.                             |
| DE050-L03          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2018. Delisted 2022. Refined from Nutrients 2024. |
| DE050-L03          | ENTEROCOCCUS     | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004. Relisted 2024. Delisted 2026.                              |
| DE050-L03          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE050-L03          | COPPER           | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                       |
| DE050-L03          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE050-L03          | LEAD             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE050-L03          | ZINC             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE050-L04          | ENTEROCOCCUS     | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2008. Relisted 2024.                                             |
| DE050-L04          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2006. Delisted 2008.                              |
| DE050-L04          | NITROGEN         | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                              |
| DE050-L04          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                                            |
| DE050-L04          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE050-L04          | COPPER           | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                    |
| DE050-L04          | LEAD             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE050-L04          | ZINC             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                        |
|--------------------|------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------------------|
| DE050-L05          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                    |
| DE050-L05          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                    |
| DE050-L06          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                    |
| DE050-L06          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                    |
| DE050-L06          | DISSOLVED OXYGEN | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                                    |
| DE050-L07          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2002. Relisted 2024.                                      |
| DE050-L07          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2012. Delisted 2018.                                                     |
| DE050-L07          | NITROGEN         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                        |
| DE050-L07          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                        |
| DE050-L07          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2014.                                                     |
| DE050-L07          | COPPER           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                |
| DE050-L07          | LEAD             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                             |
| DE050-L07          | ZINC             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                 |
| DE050-L08          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                    |
| DE050-L08          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                    |
| DE050-L08          | DISSOLVED OXYGEN | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                                    |
| DE060-001          | DISSOLVED OXYGEN | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024. Relisted 2026 due to USGS continuous |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
|                    |                  |                  |        |                |                  |                                  |               |            |                  | monitoring data.                                                                       |
| DE060-001          | NITROGEN         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                               |
| DE060-001          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                               |
| DE060-001          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                           |
| DE060-001          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Remove 2024 - no marine criteria. Returned 2026.                                       |
| DE060-001          | ARSENIC          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                    |
| DE060-002          | DISSOLVED OXYGEN | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002. Delisted 2008. Relisted 2012. Delisted 2016. Relisted 2024.               |
| DE060-002          | NITROGEN         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                              |
| DE060-002          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                                            |
| DE060-002          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                           |
| DE060-002          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE060-003          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1998          |            |                  | Listed in 1998. Delisted 2004. Relisted 2006. Delisted 2012. Relisted 2024.            |
| DE060-003          | NITROGEN         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998. Delisted 2016. Relisted 2018. Refined from Nutrients 2024.                |
| DE060-003          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE060-003          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2012.                                                            |
| DE060-003          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |

| Assessment Unit ID | Parameter          | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                         | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                   |
|--------------------|--------------------|------------------|--------|----------------|------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------|
| DE060-004          | ENTEROCOCCUS       | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2006. Relisted 2008. Delisted 2022. Relisted 2024.   |
| DE060-004          | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                                |
| DE060-004          | NITROGEN           | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed in 1996. Refined from Nutrients 2024.                               |
| DE060-004          | PHOSPHORUS         | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed in 1996. Refined from Nutrients 2024. Delisted 2024.                |
| DE060-004          | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                            |
| DE060-005-01       | ENTEROCOCCUS       | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                               |
| DE060-005-01       | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                            |
| DE060-005-01       | NITROGEN           | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed in 1996. Refined from Nutrients 2024.                               |
| DE060-005-01       | PHOSPHORUS         | Cause            | 4A     | N              | TMDL Approved or established by EPA (4a) | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed in 1996. Refined from Nutrients 2024. Delisted 2024. Relisted 2026. |
| DE060-005-01       | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Relisted 2014. Delisted 2020.                  |
| DE060-005-02       | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                               |
| DE060-005-02       | HABITAT ASSESSMENT | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                               |
| DE060-006          | NITROGEN           | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed in 1996. Refined from Nutrients 2024.                               |
| DE060-006          | PHOSPHORUS         | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                   |
| DE060-006          | ENTEROCOCCUS       | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                               |
| DE060-006          | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                            |



| Assessment Unit ID | Parameter          | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|--------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
| DE060-006          | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE060-007-01       | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                                                            |
| DE060-007-01       | NUTRIENTS          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                                            |
| DE060-007-01       | ENTEROCOCCUS       | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 2002. Delisted 2004.                                                            |
| DE060-007-02-01    | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                                                           |
| DE060-007-02-01    | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2006.                                                            |
| DE060-007-02-01    | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                           |
| DE060-007-02-02    | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE060-007-03       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                           |
| DE060-007-03       | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                           |
| DE060-008          | MERCURY            | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Listed 2010. Delisted 2018 as it is no longer a contaminant of concern in fish tissue. |
| DE060-008          | DISSOLVED OXYGEN   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2012          |            | Low              | Listed 2012.                                                                           |
| DE060-L01          | ENTEROCOCCUS       | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2006.                                                            |
| DE060-L01          | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                                            |
| DE060-L01          | NITROGEN           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                               |
| DE060-L01          | PHOSPHORUS         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                               |
| DE060-L01          | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                  |
|--------------------|------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| DE060-L02          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                                                              |
| DE060-L03          | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1998. Delisted 2006. Relisted 2012. Delisted 2016.                                                                                 |
| DE060-L03          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2006. Relisted 2012. Delisted 2014.                                                                                 |
| DE060-L03          | NITROGEN         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998. Delisted 2016. Relisted 2020. Refined from Nutrients 2024.                                                                   |
| DE060-L03          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2016. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.                                                    |
| DE060-L03          | MERCURY          | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Mercury listing in Waples Pond Only. Listed 2010. Delisted 2018 as Mercury is no longer a contaminant of concern in fish tissue.          |
| DE060-L03          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                           |
| DE070-001          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                                                                              |
| DE070-001          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                           |
| DE070-001          | ARSENIC          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                                                                       |
| DE070-001          | COPPER           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014. Removed 2024. Should not have been assessed under the marine criteria. 2026 Assessed under freshwater criteria. Listed 2026. |
| DE070-001          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                           |
| DE070-001          | LEAD             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                                       |
| DE070-001          | NITROGEN         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | DNREC, EPA and MDE are working to implement the MD TMDL for Delaware's portion of                                                         |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                      |
|--------------------|------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                  |                  |        |                |                                            |                                  |               |            |                  | this shared waterbody - Updating the DE TMDL. Listed 1996. Delisted 2008. Relisted 2012. Delisted 2014. Listed 2022. Refined from Nutrients. Delisted 2024.                                                                                   |
|                    |                  |                  |        |                |                                            |                                  |               |            |                  | DNREC, EPA and MDE are working to implement the MD TMDL for Delaware's portion of this shared waterbody - Updating the DE TMDL. Listed 1996. Delisted 2008. Relisted 2012. Delisted 2014. Listed 2022. Refined from Nutrients. Delisted 2024. |
| DE070-001          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                               |
| DE070-001          | ZINC             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                               |
| DE080-001          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2020.                                                                                                                                                                                                                   |
| DE080-001          | NITROGEN         | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Relisted 2020. Refined from Nutrients 2024. Delisted 2026.                                                                                                                          |
| DE080-001          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.                                                                                                                          |
| DE080-001          | ENTEROCOCCUS     | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                                                                                                                                                  |
| DE080-001          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Remove 2024 - no marine criteria. Returned 2026.                                                                                                                                                                                              |
| DE080-002          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2004. Delisted 2022.                                                                                                                                                                                                                   |
| DE080-002          | NITROGEN         | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2026.                                                                                                                                                                                      |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE080-002          | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                                                                          |
| DE080-002          | ENTEROCOCCUS                     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2022.                                                                                          |
| DE080-002          | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE080-003          | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                                                                                         |
| DE080-003          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                                                                                                         |
| DE080-003          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                                                                                         |
| DE080-003          | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2010          |            |                  | Listed 2010. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |
| DE080-003          | DIOXIN                           | Cause            | 5      | N              |                  | Fish Consumption                 | 2010          | 5mnr       | Low              | Listed 2010. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE080-003          | FURAN COMPOUNDS                  | Cause            | 5      | N              |                  | Fish Consumption                 | 2010          | 5mnr       | Low              | Listed 2010. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | DIELDRIN                         | Cause            | 5R     | N              |                  | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | DIOXIN                           | Cause            | 5R     | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | FURAN COMPOUNDS                  | Cause            | 5R     | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation                                 |

| Assessment Unit ID | Parameter                             | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                      |
|--------------------|---------------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------|
|                    |                                       |                  |        |                |                  |                                  |               |            |                  | of Fish Consumption Advisories.                                               |
| DE090-001          | POLYCHLORINATED BIPHENYLS (PCBS)      | Cause            | 5R     | N              |                  | Fish Consumption                 | 2002          |            | Low              | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.      |
| DE090-001          | CHLORDANE                             | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters. |
| DE090-001          | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters. |
| DE090-001          | AMMONIA, TOTAL                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                               |
| DE090-001          | DISSOLVED OXYGEN                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                               |
| DE090-001          | NITROGEN                              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                      |
| DE090-001          | PHOSPHORUS                            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012. Refined from Nutrients 2024.                      |
| DE090-001          | ENTEROCOCCUS                          | Cause            | 5      | N              |                  | Primary Contact Recreation       | 2026          |            | Low              | Listed 2026.                                                                  |
| DE090-002-01       | DISSOLVED OXYGEN                      | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                                  |
| DE090-002-01       | BIOLOGICAL INTEGRITY                  | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE090-002-01       | HABITAT ASSESSMENT                    | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE090-002-02       | BIOLOGICAL INTEGRITY                  | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE090-002-03       | BIOLOGICAL INTEGRITY                  | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE090-002-04       | BIOLOGICAL INTEGRITY                  | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE090-002-04       | HABITAT ASSESSMENT                    | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| DE090-002-05       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2012          |            |                  | Listed 2012.                                             |
| DE090-002-05       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE090-002-05       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE090-L01          | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012. Refined from Nutrients 2024. |
| DE090-L01          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012. Refined from Nutrients 2024. |
| DE090-L01          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE090-L01          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE090-L01          | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed in 1996. Delisted 2004.                           |
| DE100-001-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE100-001-01       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE100-001-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                             |
| DE100-001-02       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE100-001-02       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE100-001-02       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                             |
| DE100-001-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE100-001-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE100-002-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2016. Relisted 2024.               |
| DE100-002-01       | DISSOLVED            | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022.                              |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
|                    | OXYGEN               | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                                          |
| DE100-002-01       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024. |
| DE100-002-01       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024. |
| DE100-002-01       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE100-002-02       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                             |
| DE100-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE100-002-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE100-003-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE100-003-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                              |
| DE100-003-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE100-003-02       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE100-003-02       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                              |
| DE100-003-02       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE100-003-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE100-003-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1996.                                             |
| DE100-003-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE100-003-04       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE100-003-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE100-003-05       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE100-003-06       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                             |
| DE100-003-06       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE100-003-06       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE100-003-06       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE100-003-06       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1996.                                                             |
| DE100-004-01       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE100-004-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE100-005-01       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE100-005-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE100-005-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-001-01       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018.                |
| DE110-001-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE110-001-01       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE110-001-02       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. Relisted 2024. |
| DE110-001-02       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE110-001-02       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |



| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                  |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------|
| DE110-001-02       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.  |
| DE110-001-02       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                           |
| DE110-001-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-03       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. |
| DE110-001-03       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                               |
| DE110-001-03       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                               |
| DE110-001-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-05       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-06       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-06       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-07       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                              |
| DE110-001-07       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-08       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-08       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |
| DE110-001-09       | BIOLOGICAL           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                              |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
|                    | INTEGRITY            |                  |        |                |                  | Wildlife                         |               |            |                  |                                                                          |
| DE110-001-09       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-002-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-002-03       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018.                |
| DE110-002-03       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE110-002-03       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE110-002-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-002-04       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018. Relisted 2024. |
| DE110-002-04       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE110-002-04       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE110-002-04       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE110-002-04       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE110-002-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-002-05       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018.                |
| DE110-002-05       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1996. Delisted 2008.                                              |
| DE110-002-05       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE110-002-05       | BIOLOGICAL           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                            |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------|
|                    | INTEGRITY            |                  |        |                |                  | Wildlife                         |               |            |                  |                                                                     |
| DE110-002-05       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-05       | TEMPERATURE          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2018 as there are no point source discharges. |
| DE110-002-06       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018.           |
| DE110-002-06       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                         |
| DE110-002-06       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                         |
| DE110-002-06       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-06       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-07       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-07       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-08       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-08       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-09       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-002-09       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE110-003-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                        |
| DE110-003-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                         |
| DE110-003-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                        |
| DE110-003-02       | HABITAT              | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |

| Assessment Unit ID | Parameter            | Status | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments     |
|--------------------|----------------------|--------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------|
|                    | ASSESSMENT           |        |        |                |                  | Wildlife                         |               |            |                  |              |
| DE110-003-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-03       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-04       | BIOLOGICAL INTEGRITY | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-04       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-05       | BIOLOGICAL INTEGRITY | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-05       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-06       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-07       | BIOLOGICAL INTEGRITY | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-08       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-09       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-10       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-11       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-12       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-13       | BIOLOGICAL INTEGRITY | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-13       | HABITAT ASSESSMENT   | Cause  | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-14       | ENTEROCOCCUS         | Cause  | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE110-003-14       | NITROGEN                         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                |
| DE110-003-14       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                              |
| DE110-003-14       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE110-003-14       | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-003-14       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE110-003-15       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024.                               |
| DE110-003-15       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE110-003-15       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                 |
| DE110-003-15       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                 |
| DE110-003-15       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE110-003-15       | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE110-L01          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                             |
| DE110-L01          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE110-L01          | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE120-001          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2022. Relisted 2024.                               |
| DE120-001          | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE120-001          | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |

| Assessment Unit ID | Parameter                                | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|------------------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE120-001          | PHOSPHORUS                               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE120-001          | CHLORDANE                                | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE120-001          | DDD (DICHLORODIPHEN YLDICHLOROETHA NE)   | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE120-001          | DDE (DICHLORODIPHEN YLDICHLOROETHYL ENE) | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE120-001          | DDT (DICHLORODIPHEN YLTRICHLOROETHA NE)  | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE120-001          | DIELDRIN                                 | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE120-001          | DIOXIN                                   | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE120-001          | FURAN COMPOUNDS                          | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE120-001          | AMMONIA, TOTAL                           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE120-001          | ARSENIC                                  | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter use.                                                                                              |
| DE120-001          | COPPER                                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                  |
| DE120-001          | DISSOLVED OXYGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                                                                                          |
| DE120-001          | LEAD                                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                  |
| DE120-001          | ZINC                                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE120-001          | ARSENIC                                  | Meeting          | 2      | N              |                  | Public Water Supply              |               |            |                  | 2026 New parameter use.                                                                                              |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                         | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                        |
|--------------------|----------------------------------|------------------|--------|----------------|------------------------------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Criteria           |                                  |                  |        |                |                                          |                                  |               |            |                  |                                                                                                                                                                                 |
| DE120-002          | NITROGEN                         | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Relisted 2016. Delisted 2018. Refined from Nutrients 2024.                                                                                          |
| DE120-002          | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Relisted 2016. Delisted 2018. Refined from Nutrients 2024.                                                                                          |
| DE120-002          | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                                          | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                                                                                        |
| DE120-002          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              | TMDL Approved or established by EPA (4a) | Fish, Aquatic Life, and Wildlife | 2008          |            |                  | Listed 2008. Delisted 2010. Relisted 2016. Delisted 2022. Relisted 2026 due to USGS continuous monitoring data.                                                                 |
| DE120-002          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                                                                                                                    |
| DE120-002          | DIELDRIN                         | Cause            | 5      | N              |                                          | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. 2016 delisted in error. 2018 restored category 5 Listing. 2024 state category 5mnr added based on 2018 analysis for the evaluation of Fish Consumption Advisories. |
| DE120-002          | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                 |
| DE120-002          | COPPER                           | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                |
| DE120-002          | LEAD                             | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                                                                             |
| DE120-002          | ZINC                             | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                 |
| DE120-003-01       | NITROGEN                         | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                        |
| DE120-003-01       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                        |
| DE120-003-01       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2018.                                                                                                                       |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                      |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                  |                  |        |                |                  |                                  |               |            |                  | Relisted 2024.                                                                                                                                                                                |
| DE120-003-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Prior to 2016, EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. Delisted 2016 because PCBs are no longer a contaminant of concern in fish consumption advisories for these waters. |
| DE120-003-01       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2004. Delisted 2006.                                                                                                                                                                   |
| DE120-003-01       | CHLORDANE                        | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2016 because Chlordane is no longer a contaminant of concern in fish consumption advisories for these waters.                                                                        |
| DE120-003-01       | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2018          | 5mnr       | Low              | Listed 2018. 2024 state category 5mnr added based on 2018 analysis for the evaluation of Fish Consumption Advisories.                                                                         |
| DE120-003-01       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                               |
| DE120-003-01       | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                  |
| DE120-003-01       | COPPER                           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                                                                                           |
| DE120-003-01       | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                  |
| DE120-003-01       | LEAD                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                                                                                           |
| DE120-003-01       | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                               |
| DE120-003-02-01    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                                                                                                                                  |
| DE120-003-02-01    | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                                                                                                                                                  |
| DE120-003-02-      | DISSOLVED                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and          | 2002          |            |                  | Listed 2002.                                                                                                                                                                                  |



| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| 01                 | OXYGEN                           |                  |        |                |                  | Wildlife                         |               |            |                  |                                                                                                                      |
| DE120-003-02-01    | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE120-003-02-01    | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE120-003-03       | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE120-004-01       | ENTEROCOCCUS                     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2020.                                                                                          |
| DE120-004-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                             |
| DE120-004-01       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2006.                                                                                          |
| DE120-004-01       | NUTRIENTS                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                                                                          |
| DE120-004-01       | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE120-004-01       | COPPER                           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE120-004-02       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2020. Relisted 2024.                                                                           |
| DE120-004-02       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                             |
| DE120-004-02       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2006.                                                                                          |
| DE120-004-02       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE120-004-02       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                             |
| DE120-004-02       | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery                                                              |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                     |
|--------------------|----------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------|
|                    |                      |                  |        |                |                                            |                                  |               |            |                  | per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE120-004-02       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                              |
| DE120-004-02       | ARSENIC              | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter use.                                      |
| DE120-004-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                 |
| DE120-004-02       | COPPER               | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2016. Delisted 2026.                                  |
| DE120-004-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                 |
| DE120-004-02       | LEAD                 | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                          |
| DE120-004-02       | ZINC                 | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                              |
| DE120-004-02       | ARSENIC              | Meeting Criteria | 2      | N              |                                            | Public Water Supply              |               |            |                  | 2026 New parameter use.                                      |
| DE120-004-02-01    | NUTRIENTS            | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                 |
| DE120-004-02-01    | ENTEROCOCCUS         | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                 |
| DE120-004-02-01    | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                 |
| DE120-004-02-01    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                 |
| DE120-004-02-01    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                 |
| DE120-004-02-03    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                 |
| DE120-004-03-01    | ENTEROCOCCUS         | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                 |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| DE120-004-03-02    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-004-03-03    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-004-03-04    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-005-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE120-005-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE120-006-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE120-006-01       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                              |
| DE120-006-02       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE120-006-02       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE120-006-02       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE120-006-02       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE120-006-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-006-02       | COPPER               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                         |
| DE120-006-02       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE120-006-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-006-02       | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                      |
| DE120-006-02       | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE120-006-03       | HABITAT              | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
|                    | ASSESSMENT                       |                  |        |                |                  | Wildlife                         |               |            |                  |                                                                          |
| DE120-006-04       | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-006-04       | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-007-01-01    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                             |
| DE120-007-01-01    | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE120-007-01-01    | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                                              |
| DE120-007-01-01    | NUTRIENTS                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE120-007-01-01    | CHLORDANE                        | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE120-007-01-01    | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE120-007-01-01    | HEPTACHLOR EPOXIDE               | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE120-007-01-01    | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-007-01-01    | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-007-01-02    | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-007-01-03    | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-007-01-04    | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-007-01-04    | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE120-007-01-05    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                             |
| DE120-007-01-      | POLYCHLORINATED                  | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for                                                |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| 05                 | BIPHENYLS (PCBS)     |                  |        |                |                  |                                  |               |            |                  | PCBS in Delaware River Zone 5 and tributaries.           |
| DE120-007-01-05    | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                              |
| DE120-007-01-05    | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE120-007-01-05    | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE120-007-01-05    | CHLORDANE            | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                             |
| DE120-007-01-05    | DIELDRIN             | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                             |
| DE120-007-01-05    | HEPTACHLOR EPOXIDE   | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                             |
| DE120-007-01-05    | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE120-007-01-05    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-007-01-05    | COPPER               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                      |
| DE120-007-01-05    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-007-01-05    | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                      |
| DE120-007-01-05    | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE120-007-02-01    | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE120-007-02-02    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-007-02-03    | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE120-007-02-03    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE120-007-02-      | HABITAT              | Cause            | 5      | N              |                  | Fish, Aquatic Life, and          | 1998          |            | Low              | Listed 1998.                                             |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                           |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------------------------------------------------|
| 03                 | ASSESSMENT                       |                  |        |                |                  | Wildlife                         |               |            |                  |                                                                                                                    |
| DE120-L01          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                       |
| DE120-L01          | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                           |
| DE120-L01          | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                                       |
| DE120-L01          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                                                                                                       |
| DE120-L02          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                       |
| DE120-L02          | NUTRIENTS                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                                                                                        |
| DE120-L02          | MERCURY                          | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  |                                                                                                                    |
| DE120-L02          | POLYCHLORINATED BIPHENYLS (PCBS) | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Listed 2002. Delisted 2010 due to removal of advisory. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE120-L03          | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                                                                       |
| DE120-L03          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                       |
| DE120-L03          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                                       |
| DE130-001          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                                                                       |
| DE130-001          | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                                                           |
| DE130-001          | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                                                           |
| DE130-001          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2006. Relisted 2008. Delisted 2010. Relisted 2024.                                           |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE130-001          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE130-002-01       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010. Relisted 2012. Delisted 2020.                |
| DE130-002-01       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE130-002-01       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE130-002-02       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2012. Delisted 2020. Relisted 2024. |
| DE130-002-02       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE130-002-02       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE130-002-02       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE130-002-02       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE130-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE140-001          | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE140-001          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008. Relisted 2010. Delisted 2018.                |
| DE140-001          | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE140-001          | COPPER               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisted 2020.                                                           |
| DE140-002          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                             |
| DE140-002          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2022.                                              |
| DE140-002          | NITROGEN             | Cause            | 4A     | N              | TMDL Approved    | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002. Refined from Nutrients 2024. Delisted 2024.                 |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                      |
|--------------------|------------------------------|------------------|--------|----------------|----------------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------|
|                    |                              |                  |        |                | or established by EPA (4a) |                                  |               |            |                  | Error in 2024 - should not have been delisted. Relisted 2026. |
| DE140-002          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                   |
| DE140-002          | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                               |
| DE140-002          | ARSENIC                      | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                           |
| DE140-002          | COPPER                       | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                           |
| DE140-002          | LEAD                         | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                           |
| DE140-002          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                               |
| DE140-002          | ZINC                         | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                               |
| DE140-003          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                  |
| DE140-003          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2010.                                   |
| DE140-003          | NITROGEN                     | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.      |
| DE140-003          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.      |
| DE140-003          | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                               |
| DE140-003          | ARSENIC                      | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                           |
| DE140-003          | COPPER                       | Cause            | 5      | N              |                            | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                              |
| DE140-003          | LEAD                         | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                           |
| DE140-003          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                               |



| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                    |
|--------------------|------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| DE140-003          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                             |
| DE140-004          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Relisted 2022.                                                                    |
| DE140-004          | TOTAL SUSPENDED SOLIDS (TSS) | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Inland Bays Nutrient TMDLs addressed Suspended Solids.                                                                         |
| DE140-004          | NITROGEN                     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen. Listed 2026 due to dissolved inorganic nitrogen. |
| DE140-004          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                                                                                                 |
| DE140-004          | TEMPERATURE                  | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. EPA TMDL December 2004.                                                                                                        |
| DE140-004          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012. Relisted 2022. Delisted 2024.                                                                                   |
| DE140-004          | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                                         |
| DE140-004          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                                                                         |
| DE140-004          | COPPER                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2014. Delisted 2020. Relisted 2022. Delisted 2024.                                                                                   |
| DE140-004          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                                         |
| DE140-004          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                             |
| DE140-005          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                                                |
| DE140-005          | NITROGEN                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                                                    |
| DE140-005          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                                                    |
| DE140-005          | AMMONIA, TOTAL               | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  |                                                                                                                                             |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|------------------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
|                    |                              | Criteria         |        |                |                                            | Wildlife                         |               |            |                  |                                                                                        |
| DE140-005          | ARSENIC                      | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                    |
| DE140-005          | COPPER                       | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                       |
| DE140-005          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE140-005          | LEAD                         | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE140-005          | TEMPERATURE                  | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed in 1996. Delisted in 2002 as sole point source discharger was removed.          |
| DE140-005          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE140-005          | ZINC                         | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE140-006          | ENTEROCOCCUS                 | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2008. Relisted 2024. Delisted 2026.                              |
| DE140-006          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2004. Relisted 2024. Delisted 2026.                              |
| DE140-006          | NITROGEN                     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE140-006          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE140-006          | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE140-006          | ARSENIC                      | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                    |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------|
| DE140-006          | COPPER                       | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE140-006          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.              |
| DE140-006          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE140-006          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE140-007          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE140-007          | NUTRIENTS                    | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                     |
| DE140-008          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE140-008          | DISSOLVED OXYGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                     |
| DE140-008          | NUTRIENTS                    | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                     |
| DE140-009-01       | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE140-009-01       | NUTRIENTS                    | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                     |
| DE140-009-02       | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE140-009-02       | NUTRIENTS                    | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                     |
| DE140-009-02       | HABITAT ASSESSMENT           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE140-010          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE140-010          | DISSOLVED OXYGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                     |
| DE140-010          | NUTRIENTS                    | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                     |
| DE140-E01          | ENTEROCOCCUS                 | Meeting          | 2      | Y              | Applicable       | Primary Contact                  |               |            |                  | Listed 1996. Delisted 2010.      |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                    |
|--------------------|------------------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------------------------------------|
|                    |                              | Criteria         |        |                | WQS attained; based on new data            | Recreation                       |               |            |                  | Relisted 2024. Delisted 2026.                                                                               |
| DE140-E01          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                                                                 |
| DE140-E01          | NITROGEN                     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                    |
| DE140-E01          | PHOSPHORUS                   | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic phosphorus. Delisted 2026. |
| DE140-E01          | TOTAL SUSPENDED SOLIDS (TSS) | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006. TMDL in place for Suspended Solids in Inland Bays TMDL of 2006. Delisted 2022. Relisted 2024.  |
| DE140-E01          | ARSENIC                      | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                                         |
| DE140-E01          | COPPER                       | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2014. Delisted 2020. Relisted 2022. Delisted 2026.                                                   |
| DE140-E01          | LEAD                         | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                         |
| DE140-E01          | ZINC                         | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                             |
| DE140-E02          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2024.                                                                  |
| DE140-E02          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2010. Relisted 2012. Delisted 2013.                                                   |
| DE140-E02          | NITROGEN                     | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen.                  |
| DE140-E02          | PHOSPHORUS                   | Meeting          | 2      | N              |                                            | Fish, Aquatic Life, and          |               |            |                  | Listed 1996. Refined from                                                                                   |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                |
|--------------------|------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------|
|                    |                              | Criteria         |        |                |                  | Wildlife                         |               |            |                  | Nutrients 2024. Delisted 2024.                                                          |
| DE140-E02          | TOTAL SUSPENDED SOLIDS (TSS) | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2014          |            |                  | Listed 2014.                                                                            |
| DE140-E02          | TEMPERATURE                  | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. EPA TMDL December 2004.                                                    |
| DE140-E02          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                     |
| DE140-E02          | COPPER                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisted 2020.                                                                          |
| DE140-E02          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                     |
| DE140-E02          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                         |
| DE140-L01          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2006. Relisted 2024.                                              |
| DE140-L01          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2004. Delisted 2006. Relisted 2020. Delisted 2024. |
| DE140-L01          | NITROGEN                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.  |
| DE140-L01          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2020. Refined from Nutrients 2024. Delisted 2024.  |
| DE140-L01          | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                         |
| DE140-L01          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                     |
| DE140-L01          | COPPER                       | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                        |
| DE140-L01          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                     |
| DE140-L01          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                         |
| DE140-L01          | ZINC                         | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  |                                                                                         |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
|                    |                  | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                                          |
| DE140-L02          | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004.                              |
| DE140-L02          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE140-L03          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE140-L03          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE140-L04          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE150-001-01       | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2020. Relisted 2022.               |
| DE150-001-01       | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                              |
| DE150-001-01       | NITROGEN         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE150-001-01       | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE150-001-01       | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE150-001-01       | ARSENIC          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                      |
| DE150-001-01       | COPPER           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                             |
| DE150-001-01       | LEAD             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                      |
| DE150-001-01       | ZINC             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE150-001-02       | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2020.                              |
| DE150-001-02       | DISSOLVED OXYGEN | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                             |
| DE150-001-02       | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                               |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------------|
| DE150-001-02       | COPPER               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                                           |
| DE150-001-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                           |
| DE150-001-02       | TEMPERATURE          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed in 1998. Delisted 2018 as there are no point source discharges. |
| DE160-001          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                           |
| DE160-001          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2024.                                            |
| DE160-001          | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.               |
| DE160-001          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.               |
| DE160-001          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                    |
| DE160-002-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2010.                                            |
| DE160-002-01       | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                              |
| DE160-002-01       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.               |
| DE160-002-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2018. Relisted 2024.                             |
| DE160-002-01       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                        |
| DE160-002-02       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                           |
| DE160-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                           |
| DE160-002-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                           |
| DE160-003-01       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                           |

| Assessment Unit ID | Parameter          | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|--------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE160-003-02       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE160-003-03       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                                             |
| DE160-003-03       | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                                                             |
| DE160-003-03       | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                                             |
| DE160-004          | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                                             |
| DE160-004          | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                                                             |
| DE160-004          | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                                             |
| DE160-L01          | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2010.                                              |
| DE160-L01          | NITROGEN           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                 |
| DE160-L01          | PHOSPHORUS         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                 |
| DE160-L01          | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2006. Relisted 2024.                               |
| DE160-L01          | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE160-L02          | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE160-L02          | NUTRIENTS          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE160-L02          | ENTEROCOCCUS       | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE170-001          | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2022. Relisted 2024. |
| DE170-001          | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2004. Delisted 2022.                |



| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                     |
|--------------------|------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------|
| DE170-001          | NITROGEN                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                     |
| DE170-001          | PHOSPHORUS                   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic phosphorus. |
| DE170-001          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                          |
| DE170-001          | COPPER                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisted 2020.                                                                               |
| DE170-001          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                          |
| DE170-001          | TOTAL SUSPENDED SOLIDS (TSS) | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | Listed 2026.                                                                                 |
| DE170-001          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                              |
| DE180-001          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024.                                                   |
| DE180-001          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022.                                                                  |
| DE180-001          | NITROGEN                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                     |
| DE180-001          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                     |
| DE180-001          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                          |
| DE180-001          | COPPER                       | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | Listed 2026.                                                                                 |
| DE180-001          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                          |
| DE180-001          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                              |
| DE180-001          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                              |
| DE180-002-01       | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact                  | 1996          |            |                  | Listed 1996.                                                                                 |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|------------------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
|                    |                              |                  |        |                |                                            | Recreation                       |               |            |                  |                                                          |
| DE180-002-01       | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2016.                              |
| DE180-002-01       | NUTRIENTS                    | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE180-002-02       | ENTEROCOCCUS                 | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE180-002-02       | DISSOLVED OXYGEN             | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2026.                              |
| DE180-002-02       | NITROGEN                     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE180-002-02       | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE180-002-02       | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE180-002-02       | ARSENIC                      | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                      |
| DE180-002-02       | COPPER                       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                      |
| DE180-002-02       | HABITAT ASSESSMENT           | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE180-002-02       | LEAD                         | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                      |
| DE180-002-02       | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE180-002-02       | ZINC                         | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE180-003-01       | ENTEROCOCCUS                 | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE180-003-01       | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2010.                              |
| DE180-003-01       | NITROGEN                     | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from                                |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                         |
|--------------------|------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------|
|                    |                              |                  |        |                |                  | Wildlife                         |               |            |                  | Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen. |
| DE180-003-01       | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.         |
| DE180-003-01       | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                              |
| DE180-003-01       | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                              |
| DE180-003-01       | COPPER                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisted 2020.                                                   |
| DE180-003-01       | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                              |
| DE180-003-01       | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                  |
| DE180-003-01       | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                  |
| DE180-003-02       | HABITAT ASSESSMENT           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                     |
| DE180-003-03       | HABITAT ASSESSMENT           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                     |
| DE180-E01          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2006. Relisted 2024.                       |
| DE180-E01          | NITROGEN                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.         |
| DE180-E01          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.         |
| DE180-E01          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                              |
| DE180-E01          | COPPER                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisted 2020.                                                   |
| DE180-E01          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008. Relisted 2010. Delisted 2014.        |
| DE180-E01          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                              |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|------------------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| DE180-E01          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE180-E01          | ZINC                         | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE190-001-01       | DISSOLVED OXYGEN             | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2026.                              |
| DE190-001-01       | NITROGEN                     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE190-001-01       | PHOSPHORUS                   | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE190-001-01       | ENTEROCOCCUS                 | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                             |
| DE190-001-01       | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                      |
| DE190-001-02-01    | ENTEROCOCCUS                 | Meeting Criteria | 2      | N              |                                            | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010.                              |
| DE190-001-02-01    | DISSOLVED OXYGEN             | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE190-001-02-01    | NUTRIENTS                    | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                              |
| DE190-001-02-02    | HABITAT ASSESSMENT           | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE190-001-02-03    | ENTEROCOCCUS                 | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2024.               |
| DE190-001-02-03    | DISSOLVED OXYGEN             | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE190-001-02-03    | NITROGEN                     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE190-001-02-03    | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE190-001-02-03    | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
| DE190-001-02-03    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE190-001-02-03    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE190-001-03       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2012.                                             |
| DE190-001-03       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2010.                                                            |
| DE190-001-03       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                                            |
| DE200-001-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                                            |
| DE200-001-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2014. Relisted 2018.                                             |
| DE200-001-01       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2008.                                                            |
| DE200-001-01       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE200-001-01       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE200-001-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE200-001-03       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                                            |
| DE200-001-03       | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2014. Relisted 2018. Refined from Nutrients 2024.                |
| DE200-001-03       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE200-001-03       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2008. Relisted 2024.                                             |
| DE200-001-03       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE200-001-03       | ARSENIC              | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | 2024 New parameter.                                                                    |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------|
|                    |                      | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                  |
| DE200-001-03       | COPPER               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE200-001-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-03       | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.              |
| DE200-001-03       | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE200-001-04       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                     |
| DE200-001-04       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                     |
| DE200-001-04       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                     |
| DE200-001-04       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                     |
| DE200-002-01       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                     |
| DE200-002-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                     |
| DE200-002-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-05       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-06       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                            |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------|
| DE200-002-06       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-07       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-07       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-08       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-09       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-10       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-10       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-11       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-11       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-12       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-12       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-13       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-14       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-15       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                        |
| DE200-002-15       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-15       | TEMPERATURE          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2018 as there are no point source discharges. |
| DE200-002-16       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                            |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------|
| DE200-002-16       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-17       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                        |
| DE200-002-17       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-17       | TEMPERATURE          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2018 as there are no point source discharges. |
| DE200-002-18       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-19       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-21       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-21       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-23       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE200-002-24       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                        |
| DE210-001          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                        |
| DE210-001          | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                           |
| DE210-001          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.            |
| DE210-001          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Remove 2024 - no marine criteria. Returned 2026.                    |
| DE210-001          | ARSENIC              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                 |
| DE210-001          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2020.                                         |
| DE210-002-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2006.                                         |



| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| DE210-002-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE210-002-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE210-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE210-002-03       | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                |
| DE210-002-03       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE210-002-03       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE210-002-03       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE210-002-03       | ARSENIC              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                      |
| DE210-002-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE210-002-03       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE210-003          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                             |
| DE210-003          | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                             |
| DE210-003          | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE210-004          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                             |
| DE210-004          | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                             |
| DE210-004          | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE210-005          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006.                                             |
| DE210-005          | DISSOLVED            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and          | 2004          |            |                  | Listed 2004.                                             |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
|                    | OXYGEN           |                  |        |                |                  | Wildlife                         |               |            |                  |                                                          |
| DE210-005          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                             |
| DE210-L01          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE210-L01          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2008.                              |
| DE210-L02          | NITROGEN         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                |
| DE210-L02          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE210-L02          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE210-L02          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE210-L02          | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2006.                              |
| DE210-L03          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE210-L03          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2006.                              |
| DE210-L03          | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 2002. Delisted 2004.                              |
| DE210-L04          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE210-L05          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE210-L05          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE210-L05          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                              |
| DE210-L06          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012.                              |
| DE210-L06          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1998          |            |                  | Listed 1998. Delisted 2006. Relisted 2024.               |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
| DE210-L06          | NITROGEN         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998. Refined from Nutrients 2024.                                              |
| DE210-L06          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Refined from Nutrients 2024. Delisted 2024.                               |
| DE210-L06          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE220-001          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                           |
| DE220-001          | DISSOLVED OXYGEN | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Listed 2026 due to USGS continuous monitoring data.                       |
| DE220-001          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Remove 2024 - no marine criteria. Returned 2026.                                       |
| DE220-001          | ARSENIC          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                    |
| DE220-001          | COPPER           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                                                                           |
| DE220-001          | LEAD             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE220-001          | NITROGEN         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2018. Delisted 2020. Refined from Nutrients 2024. |
| DE220-001          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2018. Delisted 2020. Refined from Nutrients 2024. |
| DE220-001          | ZINC             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE220-002-01       | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                           |
| DE220-002-01       | DISSOLVED OXYGEN | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2014. Relisted 2022.                                             |
| DE220-002-01       | NITROGEN         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                               |
| DE220-002-01       | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                               |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------|
| DE220-002-01       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE220-002-01       | ARSENIC              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.              |
| DE220-002-01       | COPPER               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE220-002-01       | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.              |
| DE220-002-01       | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE220-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-002-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-002-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-002-04       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE220-002-04       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE220-002-04       | COPPER               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE220-002-04       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE220-002-04       | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.              |
| DE220-002-04       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024.     |
| DE220-002-04       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024.     |
| DE220-002-04       | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE220-003-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE220-003-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and          | 1996          |            |                  | Listed 1996.                     |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                         | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                |
|--------------------|----------------------|------------------|--------|----------------|------------------------------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------|
|                    |                      |                  |        |                |                                          | Wildlife                         |               |            |                  |                                                                         |
| DE220-003-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                            |
| DE220-003-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                            |
| DE220-004-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1998          |            |                  | Listed 1998.                                                            |
| DE220-004-01       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2004. Delisted 2018.                                             |
| DE220-004-01       | NITROGEN             | Cause            | 4A     | N              | TMDL Approved or established by EPA (4a) | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998. Delisted 2016. Refined from Nutrients 2024. Relisted 2026. |
| DE220-004-01       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2016. Refined from Nutrients 2024.                |
| DE220-004-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2008.                                             |
| DE220-004-01       | COPPER               | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                        |
| DE220-004-01       | LEAD                 | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                     |
| DE220-004-01       | ZINC                 | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                         |
| DE220-004-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                            |
| DE220-004-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                            |
| DE220-005-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                            |
| DE220-005-01       | NITROGEN             | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                |
| DE220-005-01       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                |
| DE220-005-01       | DISSOLVED            | Meeting          | 2      | N              |                                          | Fish, Aquatic Life, and          |               |            |                  | Listed 2004. Delisted 2006.                                             |

| Assessment Unit ID | Parameter            | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason                         | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                               |
|--------------------|----------------------|--------------------------|--------|----------------|------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | OXYGEN               | Criteria                 |        |                |                                          | Wildlife                         |               |            |                  |                                                                                                                                                                                                                                        |
| DE220-005-01       | AMMONIA, TOTAL       | Meeting Criteria         | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                        |
| DE220-005-01       | ARSENIC              | Meeting Criteria         | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                                                                                                                                                                    |
| DE220-005-01       | COPPER               | Meeting Criteria         | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                                                                                                                                    |
|                    |                      |                          |        |                |                                          |                                  |               |            |                  | 2024 New parameter. Listed 2024. Placed in Category 3 for further review of data. This is a stormwater monitoring station and DNREC currently has no methodology to assess metals and other toxic data under extreme storm conditions. |
| DE220-005-01       | LEAD                 | Insufficient Information | 3      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                        |
| DE220-005-01       | ZINC                 | Meeting Criteria         | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                        |
| DE220-005-02       | BIOLOGICAL INTEGRITY | Cause                    | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                           |
|                    |                      |                          |        |                | TMDL Approved or established by EPA (4a) |                                  |               |            |                  |                                                                                                                                                                                                                                        |
| DE220-005-03       | DISSOLVED OXYGEN     | Cause                    | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                                                                                                                                                                                           |
| DE220-005-03       | HABITAT ASSESSMENT   | Cause                    | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                           |
| DE220-005-03       | TEMPERATURE          | Meeting Criteria         | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2018 as there are no point source discharges.                                                                                                                                                                    |
| DE220-005-04       | HABITAT ASSESSMENT   | Cause                    | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                           |
| DE220-005-05       | BIOLOGICAL INTEGRITY | Cause                    | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                           |
|                    |                      |                          |        |                | TMDL Approved or established             |                                  |               |            |                  |                                                                                                                                                                                                                                        |
| DE220-005-06       | DISSOLVED OXYGEN     | Cause                    | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                                                                                                                                                                                                           |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| by EPA (4a)        |                      |                  |        |                |                                            |                                  |               |            |                  |                                                          |
| DE220-005-06       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE220-005-06       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE220-L01          | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                                            | Primary Contact Recreation       |               |            |                  | Listed 1998. Delisted 2006.                              |
| DE220-L01          | NUTRIENTS            | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            |                  | Listed 1998.                                             |
| DE220-L01          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2008.                              |
| DE220-L02          | NUTRIENTS            | Cause            | 4A     | N              |                                            | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                             |
| DE220-L02          | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                                            | Primary Contact Recreation       |               |            |                  | Listed 2002. Delisted 2006.                              |
| DE220-L03          | ENTEROCOCCUS         | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2004. Relisted 2024.               |
| DE220-L03          | NITROGEN             | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2026. |
| DE220-L03          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE220-L03          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE220-L03          | COPPER               | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                         |
| DE220-L03          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE220-L03          | LEAD                 | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                      |
| DE220-L03          | ZINC                 | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE220-L04          | ENTEROCOCCUS         | Cause            | 4A     | N              |                                            | Primary Contact                  | 1996          |            |                  | Listed 1996.                                             |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
|                    |                      |                  |        |                |                  | Recreation                       |               |            |                  |                                                          |
| DE220-L04          | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE220-L05          | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                |
| DE220-L05          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024. |
| DE220-L05          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE220-L05          | COPPER               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                      |
| DE220-L05          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE220-L05          | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                      |
| DE220-L05          | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE220-L05          | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004.                              |
| DE230-001-01       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2012.                              |
| DE230-001-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE230-001-02-01    | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE230-001-02-01    | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE230-001-02-01    | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE230-001-02-01    | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE230-001-02-01    | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE230-001-02-02    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |



| Assessment Unit ID | Parameter          | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|--------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
| DE230-001-02-02    | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE240-001          | NITROGEN           | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Refined from Nutrients 2024.                |
| DE240-001          | PHOSPHORUS         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Refined from Nutrients 2024. Delisted 2024. |
| DE240-001          | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2004. Relisted 2014.                                             |
| DE240-001          | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2010.                                                            |
| DE240-001          | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE240-001          | COPPER             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                       |
| DE240-001          | LEAD               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE240-001          | ZINC               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE240-002-01       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016. Relisted 2024.               |
| DE240-002-01       | NITROGEN           | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                              |
| DE240-002-01       | PHOSPHORUS         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                                            |
| DE240-002-01       | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                              |
| DE240-002-01       | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE240-002-01       | ARSENIC            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                    |
| DE240-002-01       | COPPER             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                       |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE240-002-01       | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                      |
| DE240-002-01       | ZINC                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE240-002-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-04       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-05       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016.                |
| DE240-002-05       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1998.                                                             |
| DE240-002-05       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                |
| DE240-002-05       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-06       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-07       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016. Relisted 2024. |
| DE240-002-07       | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                |
| DE240-002-07       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                 |
| DE240-002-07       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                |
| DE240-002-07       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE240-002-07       | COPPER               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                         |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                         | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------------------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE240-002-07       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-07       | LEAD                 | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                      |
| DE240-002-07       | ZINC                 | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE240-002-08       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                                          | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2016.                |
| DE240-002-08       | NUTRIENTS            | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE240-002-08       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002. Relisted 2016. Delisted 2018.                |
| DE240-002-08       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-08       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-002-09       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE240-003          | ENTEROCOCCUS         | Cause            | 4A     | N              |                                          | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2006. Relisted 2010.                               |
| DE240-003          | DISSOLVED OXYGEN     | Cause            | 4A     | N              | TMDL Approved or established by EPA (4a) | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2006. Relisted 2016. Delisted 2020. Relisted 2026. |
| DE240-003          | NITROGEN             | Cause            | 4A     | N              |                                          | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                |
| DE240-003          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                 |
| DE240-003          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE240-003          | COPPER               | Cause            | 5      | N              |                                          | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                         |
| DE240-003          | LEAD                 | Meeting Criteria | 2      | N              |                                          | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                      |

| Assessment Unit ID | Parameter          | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                |
|--------------------|--------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE240-003          | ZINC               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                         |
| DE240-004-01       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2016. Relisted 2024.                                                                                                                                              |
| DE240-004-01       | NITROGEN           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                |
| DE240-004-01       | PHOSPHORUS         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                |
| DE240-004-01       | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2012. Delisted 2018.                                                                                                                                                             |
| DE240-004-01       | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                         |
| DE240-004-01       | COPPER             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                        |
| DE240-004-01       | LEAD               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2024          |            | Low              | 2024 New parameter. Listed 2024. Data collected prior to assessment period did not show exceedances and there were no obvious sources. DNREC will maintain Category 5, but investigate. |
| DE240-004-01       | ZINC               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisted 2024.                                                                                                                                                                          |
| DE240-004-02       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-004-03       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-004-04       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-005-01       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2008. Relisted 2024.                                                                                                                                              |
| DE240-005-01       | NITROGEN           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                |
| DE240-005-01       | PHOSPHORUS         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                |
| DE240-005-01       | AMMONIA, TOTAL     | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  |                                                                                                                                                                                         |

| Assessment Unit ID | Parameter          | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|--------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------|
|                    |                    | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                  |
| DE240-005-01       | COPPER             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE240-005-01       | DISSOLVED OXYGEN   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                  |
| DE240-005-01       | LEAD               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.              |
| DE240-005-01       | ZINC               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                     |
| DE240-005-02       | ENTEROCOCCUS       | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2008.      |
| DE240-005-02       | NUTRIENTS          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.      |
| DE240-005-02       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE240-005-02       | ZINC               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                     |
| DE240-005-03       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE240-005-04       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE240-006-01       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE240-006-01       | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                     |
| DE240-006-01       | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                     |
| DE240-006-02       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                     |
| DE240-006-02       | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                     |
| DE240-006-02       | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                     |
| DE240-006-02       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |

| Assessment Unit ID | Parameter          | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|--------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| DE240-007-01       | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE240-007-01       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE240-007-02       | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE240-007-02       | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE240-007-02       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE240-008          | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE240-008          | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE240-008          | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                             |
| DE240-010-01       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE240-010-02       | HABITAT ASSESSMENT | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE240-L01          | ENTEROCOCCUS       | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                             |
| DE240-L01          | NUTRIENTS          | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                             |
| DE240-L01          | DISSOLVED OXYGEN   | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                             |
| DE240-L02          | NITROGEN           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE240-L02          | PHOSPHORUS         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024. |
| DE240-L02          | AMMONIA, TOTAL     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE240-L02          | COPPER             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                         |
| DE240-L02          | DISSOLVED          | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  |                                                          |

| Assessment Unit ID | Parameter        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
|                    | OXYGEN           | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                                                                        |
| DE240-L02          | LEAD             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE240-L02          | ZINC             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE240-L02          | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  |                                                                                        |
| DE240-L04          | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 2002. Delisted 2006.                                                            |
| DE240-L04          | NITROGEN         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024.                |
| DE240-L04          | PHOSPHORUS       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2016. Relisted 2018. Refined from Nutrients 2024. Delisted 2024. |
| DE240-L04          | AMMONIA, TOTAL   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE240-L04          | COPPER           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                       |
| DE240-L04          | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE240-L04          | LEAD             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE240-L04          | ZINC             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE240-L05          | NUTRIENTS        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                           |
| DE240-L05          | ENTEROCOCCUS     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                           |
| DE250-001-01       | ENTEROCOCCUS     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2020.                                                            |
| DE250-001-01       | DISSOLVED OXYGEN | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                                            |
| DE250-001-01       | NUTRIENTS        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                                            |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| DE250-001-02       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2020. Relisted 2024.                               |
| DE250-001-02       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE250-001-02       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE250-001-02       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE250-001-02       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE250-001-02       | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE250-001-03       | ENTEROCOCCUS                     | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2020.                                              |
| DE250-001-03       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2008.                                              |
| DE250-001-03       | NUTRIENTS                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                              |
| DE250-001-03       | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE250-002          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2004          |            |                  | Listed 2004.                                                             |
| DE250-002          | NUTRIENTS                        | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004.                                                             |
| DE250-002          | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            |                  | Listed 2006.                                                             |
| DE250-002          | HABITAT ASSESSMENT               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE260-001-02       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024.                               |
| DE260-001-02       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE260-001-02       | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. TMDL 2004. Delisted 2014.                                   |



| Assessment Unit ID | Parameter                             | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                                                                                               |
|--------------------|---------------------------------------|--------------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE260-001-02       | NITROGEN                              | Cause                    | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listd 1996. Refined from Nutrients 2024.                                                                                                                                                                                                                                                                               |
| DE260-001-02       | PHOSPHORUS                            | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                                                                                                                                                                                                                               |
| DE260-001-02       | CHLORINATED PESTICIDES                | Meeting Criteria         | 2      | N              |                  | Fish Consumption                 |               |            |                  | TMDL Target date changed from 2009 to 2017 in the 2012 Cycle, per the WATAR plan. Delisted 2016 as these are not contaminants of concern in fish tissue advisories.                                                                                                                                                    |
| DE260-001-02       | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | Cause                    | 5      | N              |                  | Fish Consumption                 | 2014          |            | High             | Levels at State Line exceed human health and aquatic life criteria and decline downstream in a response fully explained by simple dilution, indicating sources are in Pennsylvania. The extensive sampling occurred in 2015 as part of the WATAR. DNREC is working with Pennsylvania and US EPA to address this issue. |
| DE260-001-02       | DIELDRIN                              | Cause                    | 5      | N              |                  | Fish Consumption                 | 2016          |            | High             | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | DIOXIN                                | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | FURAN COMPOUNDS                       | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | AMMONIA, TOTAL                        | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                                                                                                        |
| DE260-001-02       | ARSENIC                               | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter use.                                                                                                                                                                                                                                                                                                |
| DE260-001-02       | COPPER                                | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                                                                                                                                                                                                                    |
| DE260-001-02       | DISSOLVED OXYGEN                      | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                                                                                                        |
| DE260-001-02       | HABITAT ASSESSMENT                    | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                                                                                                                                                                                                                                      |

| Assessment Unit ID | Parameter                             | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                                                                                               |
|--------------------|---------------------------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE260-001-02       | LEAD                                  | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                                                                                                                                                                                                                    |
| DE260-001-02       | ARSENIC                               | Meeting Criteria | 2      | N              |                                            | Public Water Supply              |               |            |                  | 2026 New parameter use.                                                                                                                                                                                                                                                                                                |
| DE260-001-03       | ENTEROCOCCUS                          | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024.                                                                                                                                                                                                                                                                             |
| DE260-001-03       | POLYCHLORINATED BIPHENYLS (PCBS)      | Cause            | 4A     | N              |                                            | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                                                                                                                                                                                                                               |
| DE260-001-03       | ZINC                                  | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. TMDL 2004. Delisted 2014.                                                                                                                                                                                                                                                                                 |
| DE260-001-03       | NITROGEN                              | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2026.                                                                                                                                                                                                                                                               |
| DE260-001-03       | PHOSPHORUS                            | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                                                                                                                                                                                                                                               |
| DE260-001-03       | CHLORINATED PESTICIDES                | Meeting Criteria | 2      | N              |                                            | Fish Consumption                 |               |            |                  | TMDL Target date changed from 2009 to 2017 in the 2012 Cycle, per the WATAR plan. Delisted 2016 as these are not contaminants of concern in fish tissue advisories.                                                                                                                                                    |
| DE260-001-03       | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | Cause            | 5      | N              |                                            | Fish Consumption                 | 2014          |            | High             | Levels at State Line exceed human health and aquatic life criteria and decline downstream in a response fully explained by simple dilution, indicating sources are in Pennsylvania. The extensive sampling occurred in 2015 as part of the WATAR. DNREC is working with Pennsylvania and US EPA to address this issue. |
| DE260-001-03       | DIELDRIN                              | Cause            | 5      | N              |                                            | Fish Consumption                 | 2016          |            | High             | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | DIOXIN                                | Cause            | 5      | N              |                                            | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | FURAN                                 | Cause            | 5      | N              |                                            | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
| COMPOUNDS          |                      |                  |        |                |                  |                                  |               |            |                  |                                                                          |
| DE260-001-03       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE260-001-03       | ARSENIC              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter use.                                                  |
| DE260-001-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE260-001-03       | COPPER               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                      |
| DE260-001-03       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE260-001-03       | HABITAT ASSESSMENT   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisted 2014 per Tetra Tech Report for EPA and Delaware DNREC.          |
| DE260-001-03       | LEAD                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                      |
| DE260-001-03       | ARSENIC              | Meeting Criteria | 2      | N              |                  | Public Water Supply              |               |            |                  | 2026 New parameter use.                                                  |
| DE260-002-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2020. Relisted 2024. |
| DE260-002-01       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE260-002-01       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE260-002-01       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE260-002-01       | ARSENIC              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter use.                                                  |
| DE260-002-01       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE260-002-01       | COPPER               | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                         |
| DE260-002-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |

| Assessment Unit ID | Parameter                        | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                               |
|--------------------|----------------------------------|--------------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE260-002-01       | LEAD                             | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                                                                                                                                    |
| DE260-002-01       | ZINC                             | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                                                                                        |
| DE260-002-01       | ARSENIC                          | Meeting Criteria         | 2      | N              |                  | Public Water Supply              |               |            |                  | 2026 New parameter use.                                                                                                                                                                                                                |
| DE260-003-01       | HABITAT ASSESSMENT               | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                                                                                                                                                      |
| DE260-003-02       | BIOLOGICAL INTEGRITY             | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                           |
| DE260-003-02       | HABITAT ASSESSMENT               | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                           |
| DE260-L01          | ENTEROCOCCUS                     | Insufficient Information | 3      | N              |                  | Primary Contact Recreation       |               |            |                  | This segment was listed in 1996, apparently based on earlier reports but no data were used for the listing. No data has been collected in the interim. The Department will study the segment to determine if a listing is appropriate. |
| DE270-001-01-01    | ENTEROCOCCUS                     | Cause                    | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002. Delisted 2020. Relisted 2024.                                                                                                                                                                                             |
| DE270-001-01-01    | DISSOLVED OXYGEN                 | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2024.                                                                                                                                                                                                            |
| DE270-001-01-01    | NITROGEN                         | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                                                               |
| DE270-001-01-01    | PHOSPHORUS                       | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                                                                                                               |
| DE270-001-01-01    | POLYCHLORINATED BIPHENYLS (PCBS) | Cause                    | 4A     | N              |                  | Fish Consumption                 | 2002          |            |                  | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                                                                                                                                               |
| DE270-001-01-01    | CHLORINATED BENZENES             | Meeting Criteria         | 2      | N              |                  | Fish Consumption                 |               |            |                  | Listed 1996. Delisted 2002 based on improved conditions.                                                                                                                                                                               |
| DE270-001-01-01    | DIOXIN                           | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery                                                                                                                                                                                |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                             |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                  |                  |        |                |                  |                                  |               |            |                  | per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                         |
| DE270-001-01-01    | FURAN COMPOUNDS                  | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                 |
| DE270-001-01-01    | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                      |
| DE270-001-01-01    | CHRONIC TOXICITY                 | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2012          |            | Low              | Listed Based on 2011 journal article. Likely cause is a federal superfund site. The Department is working with EPA on the cleanup and possible TMDL. |
| DE270-001-01-02    | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                         |
| DE270-001-02-01    | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                             |
| DE270-001-02-01    | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                                                                                             |
| DE270-001-02-01    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                                                         |
| DE270-001-02-01    | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2014          |            |                  | Listed 2014. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                                                             |
| DE270-001-02-01    | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2014          |            | Low              | Listed 2014.                                                                                                                                         |
| DE270-001-02-01    | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                      |
| DE270-001-02-01    | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                      |
| DE270-001-02-02    | BIOLOGICAL INTEGRITY             | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                         |
| DE280-001-01-01    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                                                         |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                   |
|--------------------|------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------------------------|
| DE280-001-01-01    | NITROGEN                     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024. Listed 2024 due to dissolved inorganic nitrogen. |
| DE280-001-01-01    | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                                   |
| DE280-001-01-01    | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2018.                                  |
| DE280-001-01-01    | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                        |
| DE280-001-01-01    | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                        |
| DE280-001-01-01    | COPPER                       | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                                                               |
| DE280-001-01-01    | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                        |
| DE280-001-01-01    | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                            |
| DE280-001-01-01    | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                            |
| DE280-001-01-02    | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                               |
| DE280-001-01-02    | NUTRIENTS                    | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                               |
| DE280-001-01-02    | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2004. Relisted 2012. Delisted 2018.                                  |
| DE280-001-01-02    | COPPER                       | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                                                               |
| DE280-001-01-02    | HABITAT ASSESSMENT           | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                               |
| DE280-002          | ENTEROCOCCUS                 | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024.                                                 |
| DE280-002          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                                                                |
| DE280-002          | NITROGEN                     | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Listed 1996. Refined from                                                                  |

| Assessment Unit ID | Parameter                    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                  |
|--------------------|------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------|
|                    |                              | Criteria         |        |                |                  | Wildlife                         |               |            |                  | Nutrients 2024. Delisted 2024.                            |
| DE280-002          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.  |
| DE280-002          | AMMONIA, TOTAL               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                           |
| DE280-002          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                       |
| DE280-002          | COPPER                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                       |
| DE280-002          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                       |
| DE280-002          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                           |
| DE280-002          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                           |
| DE280-E01          | NITROGEN                     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.  |
| DE280-E01          | PHOSPHORUS                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.  |
| DE280-E01          | ARSENIC                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                       |
| DE280-E01          | COPPER                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2014. Delisted 2020. Relisted 2022. Delisted 2024. |
| DE280-E01          | DISSOLVED OXYGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2006. Relisted 2016. Delisted 2018. |
| DE280-E01          | LEAD                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                       |
| DE280-E01          | TOTAL SUSPENDED SOLIDS (TSS) | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                           |
| DE280-E01          | ZINC                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                           |
| DE280-E01          | ENTEROCOCCUS                 | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  |                                                           |
| DE280-L01          | ENTEROCOCCUS                 | Meeting Criteria | 2      | Y              | Applicable WQS   | Primary Contact Recreation       |               |            |                  | Listed 2024. Delisted 2026.                               |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                  | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|----------------------------------|------------------|--------|----------------|-----------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
|                    |                                  |                  |        |                | attained;<br>based on<br>new data |                                  |               |            |                  |                                                                                        |
| DE280-L01          | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2016. Delisted 2022.                                                            |
| DE280-L01          | NITROGEN                         | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2018. Relisted 2022. Refined from Nutrients 2024. Delisted 2024. |
| DE280-L01          | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2018. Relisted 2022. Refined from Nutrients 2024. Delisted 2024. |
| DE280-L01          | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE280-L01          | ARSENIC                          | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 New parameter.                                                                    |
| DE280-L01          | COPPER                           | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                    |
| DE280-L01          | LEAD                             | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                    |
| DE280-L01          | TOTAL SUSPENDED SOLIDS (TSS)     | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE280-L01          | ZINC                             | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE290-001-01       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                                   | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                           |
| DE290-001-01       | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2024.                                                            |
| DE290-001-01       | NITROGEN                         | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2020. Refined from Nutrients 2024.                               |
| DE290-001-01       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                                   | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2020. Refined from Nutrients 2024.                               |
| DE290-001-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                                   | Fish Consumption                 | 1996          | 5mnr       |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.               |
| DE290-001-01       | DIELDRIN                         | Cause            | 5      | N              |                                   | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery                                |



| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
|                    |                                  |                  |        |                |                  |                                  |               |            |                  | per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                         |
| DE290-001-01       | DIOXIN                           | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-01       | FURAN COMPOUNDS                  | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-01       | MERCURY                          | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters.                                        |
| DE290-001-01       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                  |
| DE290-001-01       | ARSENIC                          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                      |
| DE290-001-02-01    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                                         |
| DE290-001-02-01    | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                                         |
| DE290-001-02-01    | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Refined from Nutrients 2024.                               |
| DE290-001-02-01    | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Relisted 2016. Delisted 2018. Refined from Nutrients 2024.                               |
| DE290-001-02-01    | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          | 5mnr       |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |
| DE290-001-02-01    | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                      |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------|
| DE290-001-02-01    | DIOXIN               | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                  |
| DE290-001-02-01    | FURAN COMPOUNDS      | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                  |
| DE290-001-02-01    | MERCURY              | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters. |
| DE290-001-02-01    | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                               |
| DE290-001-02-01    | ARSENIC              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters. |
| DE290-001-02-02    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-001-02-03    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-001-02-03    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-002-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                  |
| DE290-002-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                                                   |
| DE290-002-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                  |
| DE290-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-002-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-002-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-003-01       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2016.                     |
| DE290-003-01       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                  |
| DE290-003-01       | NUTRIENTS            | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Listed 1996. Delisted 2012.                                                   |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
|                    |                      | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                                                          |
| DE290-003-01       | MERCURY              | Cause            | 5      | N              |                  | Fish Consumption                 | 2014          |            | Low              | Listed 2014.                                                             |
| DE290-003-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE290-003-03       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE290-003-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE290-003-05       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2010. Relisted 2014. Delisted 2016. Relisted 2024. |
| DE290-003-05       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2024.                                              |
| DE290-003-05       | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE290-003-05       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                 |
| DE290-003-05       | MERCURY              | Cause            | 5      | N              |                  | Fish Consumption                 | 2014          |            | Low              | Listed 2014.                                                             |
| DE290-003-05       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE290-003-05       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE290-003-06       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE290-004-01       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2002          |            |                  | Listed 2002.                                                             |
| DE290-004-01       | NUTRIENTS            | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE290-004-01       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                             |
| DE290-004-01       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |
| DE290-004-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                             |

| Assessment Unit ID | Parameter                             | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                      |
|--------------------|---------------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------|
| DE290-004-02       | HABITAT ASSESSMENT                    | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-004-03       | HABITAT ASSESSMENT                    | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-004-04       | BIOLOGICAL INTEGRITY                  | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                  |
| DE290-L01          | DISSOLVED OXYGEN                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2002.                                                   |
| DE290-L01          | NITROGEN                              | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                     |
| DE290-L01          | PHOSPHORUS                            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Refined from Nutrients 2024. Delisted 2024.                      |
| DE290-L01          | ENTEROCOCCUS                          | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006. Delisted 2008. Relisted 2024.                                    |
| DE290-L01          | POLYCHLORINATED BIPHENYLS (PCBS)      | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.      |
| DE290-L01          | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters. |
| DE290-L01          | AMMONIA, TOTAL                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                               |
| DE290-L02          | ENTEROCOCCUS                          | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2006          |            |                  | Listed 2006. Delisted 2012. Relisted 2024.                                    |
| DE290-L02          | NITROGEN                              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                      |
| DE290-L02          | PHOSPHORUS                            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                      |
| DE290-L02          | POLYCHLORINATED BIPHENYLS (PCBS)      | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          | 5mnr       |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.      |
| DE290-L02          | DIOXIN                                | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                  |
| DE290-L02          | FURAN COMPOUNDS                       | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                  |

| Assessment Unit ID | Parameter                             | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                    |
|--------------------|---------------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE290-L02          | MERCURY                               | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                  |
| DE290-L02          | AMMONIA, TOTAL                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                             |
| DE290-L02          | ARSENIC                               | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                                                                         |
| DE290-L02          | DISSOLVED OXYGEN                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                             |
| DE290-L02          | LEAD                                  | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                                                                                                                         |
| DE290-L02          | ZINC                                  | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                                                                                                                                         |
| DE290-L03          | ENTEROCOCCUS                          | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2004. Relisted 2024.                                                                                                                                  |
| DE290-L03          | NITROGEN                              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                                                                                    |
| DE290-L03          | PHOSPHORUS                            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2014. Refined from Nutrients 2024.                                                                                                                    |
| DE290-L03          | AMMONIA, TOTAL                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                             |
| DE290-L03          | DISSOLVED OXYGEN                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                                                                             |
| DE290-L04          | POLYCHLORINATED BIPHENYLS (PCBS)      | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                               |
| DE290-L04          | DDT (DICHLORODIPHENYLTRICHLOROETHANE) | Cause            | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. 2022 updated to correct Cat 5 listing to include 5mnr. |
| DE290-L04          | DIOXIN                                | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                               |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                      |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------|
| DE290-L04          | FURAN COMPOUNDS                  | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters. |
| DE300-001-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2002          |            |                  | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.      |
| DE300-001-01       | DISSOLVED OXYGEN                 | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2016. Relisted 2018.                                    |
| DE300-001-01       | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                      |
| DE300-001-01       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                      |
| DE300-001-01       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                                                  |
| DE300-001-01       | CHLORDANE                        | Meeting Criteria | 2      | N              |                  | Fish Consumption                 |               |            |                  | Delisted 2018 per March 1, 2018 Evaluation of Fish Consumption Advisories.    |
| DE300-001-01       | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                  |
| DE300-001-01       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                               |
| DE300-001-02-01    | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 2016          |            |                  | Listed 2016. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.      |
| DE300-001-02-01    | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024.                                    |
| DE300-001-02-01    | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                      |
| DE300-001-02-01    | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2012. Refined from Nutrients 2024.                      |
| DE300-001-02-01    | CHLORDANE                        | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                  |
| DE300-001-02-01    | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2012          |            | Low              | Listed 2012.                                                                  |
| DE300-001-02-01    | HEPTACHLOR EPOXIDE               | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                  |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                 |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------|
| DE300-001-02-01    | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE300-001-02-01    | ARSENIC              | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter.                                      |
| DE300-001-02-01    | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                          |
| DE300-001-02-02    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE300-001-02-02    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE300-001-02-03    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE300-001-02-03    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE300-001-03-01    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE300-001-03-02    | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2008. Delisted 2012.                              |
| DE300-001-03-02    | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2010          |            |                  | Listed 2010.                                             |
| DE300-001-03-02    | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE300-001-03-02    | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                             |
| DE310-001          | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2024.                              |
| DE310-001          | NITROGEN             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2020. Refined from Nutrients 2024. |
| DE310-001          | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2020. Refined from Nutrients 2024. |
| DE310-001          | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 2002          |            |                  | Listed 2002.                                             |
| DE310-001          | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Remove 2024 - no marine criteria. Returned 2026.         |
| DE310-002-01       | DISSOLVED            | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Listed 2002. Delisted 2008.                              |

| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason                           | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                               |
|--------------------|----------------------|------------------|--------|----------------|--------------------------------------------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------|
|                    | OXYGEN               | Criteria         |        |                |                                            | Wildlife                         |               |            |                  |                                                                                        |
| DE310-002-01       | NUTRIENTS            | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012.                                                            |
| DE310-002-01       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                                            | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2010.                                                            |
| DE310-002-02       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2002. Delisted 2008.                                                            |
| DE310-002-02       | NITROGEN             | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                               |
| DE310-002-02       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Refined from Nutrients 2024.                               |
| DE310-002-02       | ENTEROCOCCUS         | Cause            | 4A     | N              |                                            | Primary Contact Recreation       | 1998          |            |                  | Listed 1996. Delisted 2010. Relisted 2024.                                             |
| DE310-002-02       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE310-002-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE310-002-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                                            | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                           |
| DE310-003-01       | ENTEROCOCCUS         | Meeting Criteria | 2      | N              |                                            | Primary Contact Recreation       |               |            |                  | Listed 1998. Delisted 2022.                                                            |
| DE310-003-01       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2004. Delisted 2014. Relisted 2018. Delisted 2022.                              |
| DE310-003-01       | NITROGEN             | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2020. Relisted 2022. Refined from Nutrients 2026. Delisted 2026. |
| DE310-003-01       | PHOSPHORUS           | Meeting Criteria | 2      | Y              | Applicable WQS attained; based on new data | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2020. Relisted 2022. Refined from Nutrients 2026. Delisted 2026. |
| DE310-003-01       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                                            | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                        |
| DE310-003-02       | ENTEROCOCCUS         | Cause            | 4A     | N              |                                            | Primary Contact                  | 1998          |            |                  | Listed 1998.                                                                           |



| Assessment Unit ID | Parameter            | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                              |
|--------------------|----------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------|
|                    |                      |                  |        |                |                  | Recreation                       |               |            |                  |                                                                       |
| DE310-003-02       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2004. Delisted 2014. Relisted 2018. Delisted 2024.             |
| DE310-003-02       | NITROGEN             | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Delisted 2020. Refined from Nutrients 2024. Listed 2024. |
| DE310-003-02       | PHOSPHORUS           | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2020. Refined from Nutrients 2024.              |
| DE310-003-02       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2024 Freshwater. Should be assessed for ammonia.                      |
| DE310-003-02       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                          |
| DE310-003-02       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                          |
| DE310-003-03       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                          |
| DE310-003-04       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                          |
| DE310-003-04       | HABITAT ASSESSMENT   | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                          |
| DE310-003-05       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1998          |            |                  | Listed 1998.                                                          |
| DE310-003-05       | DISSOLVED OXYGEN     | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 2004          |            |                  | Listed 2004. Delisted 2014. Relisted 2018.                            |
| DE310-003-05       | NUTRIENTS            | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1998. Delisted 2020.                                           |
| DE310-003-05       | BIOLOGICAL INTEGRITY | Cause            | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                          |
| DE310-003-06       | ENTEROCOCCUS         | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1998          |            |                  | Listed 1998.                                                          |
| DE310-003-06       | DISSOLVED OXYGEN     | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2004. Delisted 2014. Relisted 2018. Delisted 2024.             |
| DE310-003-06       | AMMONIA, TOTAL       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                       |
| DE310-003-06       | NITROGEN             | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Refined from Nutrients 2024.                                          |

| Assessment Unit ID | Parameter                        | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                        |
|--------------------|----------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------|
|                    |                                  | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                                                                                                 |
| DE310-003-06       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024.                                                                                    |
| DE310-L01          | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Delisted 2022. Relisted 2024.                                                                      |
| DE310-L01          | NITROGEN                         | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                        |
| DE310-L01          | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2022. Refined from Nutrients 2024.                                                        |
| DE310-L01          | DISSOLVED OXYGEN                 | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 2006. Delisted 2022.                                                                                     |
| DE310-L01          | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                 |
| DE320-001-01       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries.                                        |
| DE320-001-01       | ZINC                             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1999. Delisted 2004 based on improved water quality.                                                     |
| DE320-001-01       | ENTEROCOCCUS                     | Cause            | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996. Changed to Category 3 in 2020 to look into submitted Volunteer Data. Delisted 2022. Relisted 2024. |
| DE320-001-01       | NITROGEN                         | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996. Refined from Nutrients 2024.                                                                       |
| DE320-001-01       | PHOSPHORUS                       | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Refined from Nutrients 2024. Delisted 2024.                                                                     |
| DE320-001-01       | DIELDRIN                         | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                    |
| DE320-001-01       | AMMONIA, TOTAL                   | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                 |
| DE320-001-01       | ARSENIC                          | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | 2026 New parameter use.                                                                                         |
| DE320-001-01       | BIOLOGICAL INTEGRITY             | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                               |
| DE320-001-01       | COPPER                           | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | 2026 New parameter.                                                                                             |

| Assessment Unit ID | Parameter                               | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                 |
|--------------------|-----------------------------------------|------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------|
|                    |                                         | Criteria         |        |                |                  | Wildlife                         |               |            |                  |                                                                          |
| DE320-001-01       | DISSOLVED OXYGEN                        | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                          |
| DE320-001-01       | HABITAT ASSESSMENT                      | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                        |
| DE320-001-01       | LEAD                                    | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | New parameter 2024.                                                      |
| DE320-001-01       | ARSENIC                                 | Meeting Criteria | 2      | N              |                  | Public Water Supply              |               |            |                  | 2026 New parameter use.                                                  |
| DE320-001-03       | POLYCHLORINATED BIPHENYLS (PCBS)        | Cause            | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996. EPA TMDL for PCBS in Delaware River Zone 5 and tributaries. |
| DE320-001-03       | ZINC                                    | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1999. Delisted 2004 based on improved water quality.              |
| DE320-001-03       | ENTEROCOCCUS                            | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2020.                                              |
| DE320-001-03       | NUTRIENTS                               | Cause            | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                             |
| DE320-001-03       | CHLORDANE                               | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE320-001-03       | DDD (DICHLORODIPHENYL DICHLOROETHANE)   | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE320-001-03       | DDE (DICHLORODIPHENYL DICHLOROETHYLENE) | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE320-001-03       | DDT (DICHLORODIPHENYL TRICHLOROETHANE)  | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE320-001-03       | DIELDRIN                                | Cause            | 5      | N              |                  | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                             |
| DE320-001-03       | BIOLOGICAL INTEGRITY                    | Meeting Criteria | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                        |
| DE320-001-03       | HABITAT                                 | Meeting          | 2      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Per Tetra Tech Report for EPA                                            |

| Assessment Unit ID | Parameter            | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                         |
|--------------------|----------------------|--------------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------------------------------|
|                    | ASSESSMENT           | Criteria                 |        |                |                  | Wildlife                         |               |            |                  | and Delaware DNREC.                                                                              |
| DE320-002-02       | BIOLOGICAL INTEGRITY | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                     |
| DE320-002-02       | HABITAT ASSESSMENT   | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                     |
| DE320-002-03       | HABITAT ASSESSMENT   | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                     |
| DE320-002-04       | ENTEROCOCCUS         | Cause                    | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                     |
| DE320-002-04       | NUTRIENTS            | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Changed to Category 3 in 2020 to look into submitted Volunteer Data. |
| DE320-002-04       | BIOLOGICAL INTEGRITY | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                                                                                     |
| DE320-002-04       | HABITAT ASSESSMENT   | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Delisting per Tetra Tech Report for EPA and Delaware DNREC.                                      |
| DE320-002-05       | ENTEROCOCCUS         | Cause                    | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                     |
| DE320-002-05       | NUTRIENTS            | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Changed to Category 3 in 2020 to look into submitted Volunteer Data. |
| DE320-002-05       | BIOLOGICAL INTEGRITY | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                     |
| DE320-002-05       | HABITAT ASSESSMENT   | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                  |
| DE320-003-01       | ENTEROCOCCUS         | Cause                    | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                     |
| DE320-003-01       | NUTRIENTS            | Cause                    | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                     |
| DE320-003-02       | BIOLOGICAL INTEGRITY | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-03       | BIOLOGICAL           | Insuffici                | 3      | N              |                  | Fish, Aquatic Life, and          |               |            |                  | Per Tetra Tech Report for EPA                                                                    |

| Assessment Unit ID | Parameter            | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                         |
|--------------------|----------------------|--------------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|--------------------------------------------------------------------------------------------------|
|                    | INTEGRITY            | ent Information          |        |                |                  | Wildlife                         |               |            |                  | and Delaware DNREC.                                                                              |
| DE320-003-03       | HABITAT ASSESSMENT   | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-04       | BIOLOGICAL INTEGRITY | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-04       | HABITAT ASSESSMENT   | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                |
| DE320-003-05       | ENTEROCOCCUS         | Cause                    | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                     |
| DE320-003-05       | NUTRIENTS            | Cause                    | 4A     | N              |                  | Fish, Aquatic Life, and Wildlife | 1996          |            |                  | Listed 1996.                                                                                     |
| DE320-003-05       | BIOLOGICAL INTEGRITY | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                     |
| DE320-003-05       | HABITAT ASSESSMENT   | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                     |
| DE320-004-01       | ENTEROCOCCUS         | Cause                    | 4A     | N              |                  | Primary Contact Recreation       | 1996          |            |                  | Listed 1996.                                                                                     |
| DE320-004-01       | NUTRIENTS            | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Listed 1996. Delisted 2012. Changed to Category 3 in 2020 to look into submitted Volunteer Data. |
| DE320-004-02       | BIOLOGICAL INTEGRITY | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                  |
| DE320-004-03       | BIOLOGICAL INTEGRITY | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                  |

| Assessment Unit ID | Parameter                        | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                         |
|--------------------|----------------------------------|--------------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------------------------------------------------------|
| DE320-004-03       | HABITAT ASSESSMENT               | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                  |
| DE320-004-04       | HABITAT ASSESSMENT               | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  |                                                                                                                  |
| DE320-005-01       | HABITAT ASSESSMENT               | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                     |
| DE320-005-02       | BIOLOGICAL INTEGRITY             | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                                |
| DE320-005-04       | HABITAT ASSESSMENT               | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Per Tetra Tech Report for EPA and Delaware DNREC.                                                                |
| DE350-E01          | ENTEROCOCCUS                     | Cause                    | 4A     | N              |                  | Primary Contact Recreation       | 1998          |            |                  | Listed 1998.                                                                                                     |
| DEDRBCZone5        | POLYCHLORINATED BIPHENYLS (PCBS) | Cause                    | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Polychlorinated Biphenyls (Pcbs) to be more specific. |
| DEDRBCZone5        | DIELDRIN                         | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dieldrin to be more specific.                         |
| DEDRBCZone5        | DIOXIN                           | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dioxin to be more specific.                           |
| DEDRBCZone5        | FURAN COMPOUNDS                  | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Furan Compounds to be more specific.                  |
| DEDRBCZone5        | MERCURY                          | Meeting Criteria         | 2      | N              |                  | Fish Consumption                 |               |            |                  | Listed 2002. Delisted 2014. Not a contaminant of concern in fish consumption advisories for these waters.        |

| Assessment Unit ID | Parameter                        | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                                                                          |
|--------------------|----------------------------------|--------------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEDRBCZone5        | ARSENIC                          | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                                                     |
| DEDRBCZone5        | CHRONIC TOXICITY                 | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Bioassays performed in 2005, 2007, and 2008 indicate no chronic toxicity in Zone 5 mainstem samples. Chronic toxicity, listed in 2002, Delisted in 2012 based on 2011 journal article.                                                                                                            |
| DEDRBCZone5        | IRON                             | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Surface water levels of iron in the segment sometimes exceed the applicable criterion. The Department believes further study of surface water iron levels and a determination of whether a use impairment is resulting from those levels is an appropriate response to the available information. |
| DEDRBCZone5        | ENTEROCOCCUS                     | Meeting Criteria         | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004 based on 2004 DRBC 305(b) assessment.                                                                                                                                                                                                                                  |
| DEDRBCZone5c       | POLYCHLORINATED BIPHENYLS (PCBS) | Cause                    | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996.                                                                                                                                                                                                                                                                                      |
| DEDRBCZone5c       | DIELDRIN                         | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dieldrin to be more specific.                                                                                                                                                                                                          |
| DEDRBCZone5c       | DIOXIN                           | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | Low              | Listed 2002.                                                                                                                                                                                                                                                                                      |
| DEDRBCZone5c       | FURAN COMPOUNDS                  | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          |            | Low              | Listed 2002.                                                                                                                                                                                                                                                                                      |
| DEDRBCZone5c       | MERCURY                          | Meeting Criteria         | 2      | N              |                  | Fish Consumption                 |               |            |                  | Listed 2002. Delisted 2014. Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                         |
| DEDRBCZone5c       | ARSENIC                          | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                                                     |

| Assessment Unit ID | Parameter                        | Status                   | IR Cat | Delisted (Y/N) | Delisting Reason | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                                                                          |
|--------------------|----------------------------------|--------------------------|--------|----------------|------------------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEDRBCZone5c       | CHRONIC TOXICITY                 | Meeting Criteria         | 2      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Bioassays performed in 2005, 2007, and 2008 indicate no chronic toxicity in Zone 5 mainstem samples. Chronic toxicity, listed in 2002, Delisted in 2012 based on 2011 journal article.                                                                                                            |
| DEDRBCZone5c       | DISSOLVED OXYGEN                 | Cause                    | 5      | N              |                  | Fish, Aquatic Life, and Wildlife | 2006          |            | Low              | Listed 2006. Delaware will work with the DRBC, EPA, other States and Stakeholders to develop and implement a TMDL in these waters.                                                                                                                                                                |
| DEDRBCZone5c       | IRON                             | Insufficient Information | 3      | N              |                  | Fish, Aquatic Life, and Wildlife |               |            |                  | Surface water levels of iron in the segment sometimes exceed the applicable criterion. The Department believes further study of surface water iron levels and a determination of whether a use impairment is resulting from those levels is an appropriate response to the available information. |
| DEDRBCZone5c       | ENTEROCOCCUS                     | Meeting Criteria         | 2      | N              |                  | Primary Contact Recreation       |               |            |                  | Listed 1996. Delisted 2004 based on 2004 DRBC 305(b) assessment.                                                                                                                                                                                                                                  |
| DEDRBCZone6        | POLYCHLORINATED BIPHENYLS (PCBS) | Cause                    | 4A     | N              |                  | Fish Consumption                 | 1996          |            |                  | Listed 1996.                                                                                                                                                                                                                                                                                      |
| DEDRBCZone6        | DIOXIN                           | Meeting Criteria         | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                                                     |
| DEDRBCZone6        | FURAN COMPOUNDS                  | Meeting Criteria         | 2      | N              |                  | Fish Consumption                 |               |            |                  | Not a contaminant of concern in fish consumption advisories for these waters.                                                                                                                                                                                                                     |
| DEDRBCZone6        | MERCURY                          | Cause                    | 5      | N              |                  | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. TMDL Target date of 2012 changed to 2016 in the 2012 Cycle. Changed to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                                       |



| Assessment Unit ID | Parameter    | Status           | IR Cat | Delisted (Y/N) | Delisting Reason | Use                        | First Listing | Org IR Cat | Priority Ranking | Comments                                                         |
|--------------------|--------------|------------------|--------|----------------|------------------|----------------------------|---------------|------------|------------------|------------------------------------------------------------------|
| DEDRBCZone6        | ENTEROCOCCUS | Meeting Criteria | 2      | N              |                  | Primary Contact Recreation |               |            |                  | Listed 1996. Delisted 2004 based on 2004 DRBC 305(b) assessment. |

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Table E2: The Final Determination for the State of Delaware 2026 Clean Water Act Section 303(d) List of Waters Needing TMDLs

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| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE010-001-01       | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-01       | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-01       | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-03-02    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-001-03-02    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-001-03-03    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-001-03-04    | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2018          |            | Low              | Listed 2018.                                                                                                         |
| DE010-001-03-04    | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-001-03-04    | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE010-002-01-02    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-002-02-02    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-002-02-03    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE010-L02          | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE020-001-01       | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE020-001-01       | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE020-001-01       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE020-001-01       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE020-003-01       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE030-002-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE030-002-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE030-003          | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE030-003          | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-001          | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE040-001          | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE040-001          | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE040-001          | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-002-01       | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                         |
| DE040-002-01       | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE040-002-01       | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE040-002-01       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-003-01       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-003-01       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-003-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-003-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-003-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-003-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE040-003-05       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                  |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| DE040-003-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE040-003-06       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE040-003-07       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE040-003-08       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE040-003-08       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE040-003-09       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE040-003-10       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE050-001-01       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                          |
| DE050-001-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE050-002-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE050-004-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE050-004-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE050-004-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE050-006-03       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                          |
| DE050-L03          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                          |
| DE050-L07          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                          |
| DE060-005-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE060-007-02-02    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                              |
| DE060-008          | DISSOLVED OXYGEN     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2012          |            | Low              | Listed 2012.                                                                                                                              |
| DE070-001          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014. Removed 2024. Should not have been assessed under the marine criteria. 2026 Assessed under freshwater criteria. Listed 2026. |

| Assessment Unit ID | Parameter                        | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE080-003          | DIOXIN                           | Cause  | 5      | Fish Consumption                 | 2010          | 5mnr       | Low              | Listed 2010. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE080-003          | FURAN COMPOUNDS                  | Cause  | 5      | Fish Consumption                 | 2010          | 5mnr       | Low              | Listed 2010. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | DIELDRIN                         | Cause  | 5R     | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | DIOXIN                           | Cause  | 5R     | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | FURAN COMPOUNDS                  | Cause  | 5R     | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE090-001          | POLYCHLORINATED BIPHENYLS (PCBS) | Cause  | 5R     | Fish Consumption                 | 2002          |            | Low              | Listed 2002. EPA TMDL for PCBS in Delaware River Zone 6 and tributaries.                                             |
| DE090-001          | ENTEROCOCCUS                     | Cause  | 5      | Primary Contact Recreation       | 2026          |            | Low              | Listed 2026.                                                                                                         |
| DE090-002-01       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE090-002-01       | HABITAT ASSESSMENT               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE090-002-02       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE090-002-03       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE090-002-04       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE090-002-04       | HABITAT ASSESSMENT               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE100-001-02       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE100-001-03       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE100-002-02       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE100-002-02       | HABITAT ASSESSMENT               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE100-003-02       | BIOLOGICAL INTEGRITY             | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments     |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|--------------|
| DE100-003-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1996. |
| DE100-003-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-003-04       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-003-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-003-05       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-003-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-003-06       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1996. |
| DE100-004-01       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-004-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-005-01       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-005-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE100-005-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-05       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-06       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-07       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments     |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|--------------|
| DE110-001-08       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-08       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-09       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-001-09       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-05       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-05       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-06       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-07       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-07       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-08       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-08       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-09       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-002-09       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |

| Assessment Unit ID | Parameter                                     | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments     |
|--------------------|-----------------------------------------------|--------|--------|----------------------------------|---------------|------------|------------------|--------------|
| DE110-003-04       | BIOLOGICAL INTEGRITY                          | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-04       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-05       | BIOLOGICAL INTEGRITY                          | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-05       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-06       | BIOLOGICAL INTEGRITY                          | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-06       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-07       | BIOLOGICAL INTEGRITY                          | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-08       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-09       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-10       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-11       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-12       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-13       | BIOLOGICAL INTEGRITY                          | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-13       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-14       | BIOLOGICAL INTEGRITY                          | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE110-003-15       | HABITAT ASSESSMENT                            | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE120-001          | CHLORDANE                                     | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016. |
| DE120-001          | DDD<br>(DICHLORODIPHENYLDI<br>CHLOROETHANE)   | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016. |
| DE120-001          | DDE<br>(DICHLORODIPHENYLDI<br>CHLOROETHYLENE) | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016. |
| DE120-001          | DDT<br>(DICHLORODIPHENYLTRI<br>CHLOROETHANE)  | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016. |



| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                        |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE120-001          | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                            |
| DE120-001          | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                                                                                    |
| DE120-001          | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                                                                                    |
| DE120-002          | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. 2016 delisted in error. 2018 restored category 5 Listing. 2024 state category 5mnr added based on 2018 analysis for the evaluation of Fish Consumption Advisories. |
| DE120-002          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                |
| DE120-003-01       | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2018          | 5mnr       | Low              | Listed 2018. 2024 state category 5mnr added based on 2018 analysis for the evaluation of Fish Consumption Advisories.                                                           |
| DE120-003-01       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-003-01       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-003-02-01    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-003-02-01    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-003-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-004-01       | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                            |
| DE120-004-01       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                                                                                                                                                    |
| DE120-004-02       | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2006          | 5mnr       | Low              | Listed 2006. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                            |
| DE120-004-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-004-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-004-02-01    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |
| DE120-004-02-01    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                    |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------|
| DE120-004-02-03    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-004-03-02    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-004-03-03    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-004-03-04    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-006-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-006-02       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE120-006-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-006-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-006-04       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-006-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-01    | CHLORDANE            | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                     |
| DE120-007-01-01    | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                     |
| DE120-007-01-01    | HEPTACHLOR EPOXIDE   | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                     |
| DE120-007-01-01    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-01    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-02    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-03    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-04    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-04    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-05    | CHLORDANE            | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                     |
| DE120-007-01-05    | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                     |
| DE120-007-01-05    | HEPTACHLOR EPOXIDE   | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                     |
| DE120-007-01-05    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-01-05    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |

| Assessment Unit ID | Parameter                    | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|------------------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------|
| DE120-007-02-02    | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-02-03    | BIOLOGICAL INTEGRITY         | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE120-007-02-03    | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE130-002-02       | BIOLOGICAL INTEGRITY         | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE140-003          | COPPER                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE140-005          | COPPER                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE140-006          | COPPER                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE140-009-02       | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE140-L01          | COPPER                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE150-001-01       | COPPER                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                     |
| DE150-001-02       | COPPER                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                     |
| DE150-001-02       | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE160-002-02       | BIOLOGICAL INTEGRITY         | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE160-002-03       | BIOLOGICAL INTEGRITY         | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE160-003-01       | BIOLOGICAL INTEGRITY         | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE160-003-02       | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE170-001          | TOTAL SUSPENDED SOLIDS (TSS) | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | Listed 2026.                     |
| DE180-001          | COPPER                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | Listed 2026.                     |
| DE180-002-02       | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE180-003-02       | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE180-003-03       | HABITAT ASSESSMENT           | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------|
| DE190-001-02-02    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE190-001-02-03    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE190-001-02-03    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-01       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-01       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-03       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE200-001-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-04       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-001-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-05       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-06       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-07       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-07       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-08       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-09       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE200-002-10       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments     |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|--------------|
| DE200-002-10       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-11       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-11       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-12       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-12       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-13       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-14       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-15       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-16       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-16       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-17       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-18       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-19       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-21       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-21       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-23       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE200-002-24       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE210-002-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE210-002-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE210-003          | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |
| DE210-004          | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998. |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                         |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------|
| DE220-001          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                     |
| DE220-002-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-002-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-002-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-002-04       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE220-003-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-003-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-004-01       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE220-004-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-004-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-005-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-005-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-005-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-005-05       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-005-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-005-06       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE220-L03          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE230-001-02-02    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE230-001-02-02    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                     |
| DE240-001          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |
| DE240-002-01       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026. |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE240-002-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-04       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-05       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-06       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-07       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                        |
| DE240-002-07       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-08       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-08       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-002-09       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-003          | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                        |
| DE240-004-01       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                        |
| DE240-004-01       | LEAD                 | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2024          |            | Low              | 2024 New parameter. Listed 2024. Data collected prior to assessment period did not show exceedances and there were no obvious sources. DNREC will maintain Category 5, but investigate. |
| DE240-004-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-004-03       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-004-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                            |
| DE240-005-01       | COPPER               | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                        |
| DE240-005-01       | ZINC                 | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                                                                                                                                                                            |

| Assessment Unit ID | Parameter                              | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                                                                                               |
|--------------------|----------------------------------------|--------|--------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE240-005-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE240-005-02       | ZINC                                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                                                                                                                                                                                                                                                                                                           |
| DE240-005-03       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE240-005-04       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE240-006-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE240-007-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE240-010-01       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE240-010-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE240-L02          | COPPER                                 | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                                                                                                                                                       |
| DE240-L04          | COPPER                                 | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                                                                                                                                                       |
| DE250-001-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE250-001-03       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE250-002          | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | DDT (DICHLORODIPHENYLTRI CHLOROETHANE) | Cause  | 5      | Fish Consumption                 | 2014          |            | High             | Levels at State Line exceed human health and aquatic life criteria and decline downstream in a response fully explained by simple dilution, indicating sources are in Pennsylvania. The extensive sampling occurred in 2015 as part of the WATAR. DNREC is working with Pennsylvania and US EPA to address this issue. |
| DE260-001-02       | DIELDRIN                               | Cause  | 5      | Fish Consumption                 | 2016          |            | High             | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | DIOXIN                                 | Cause  | 5      | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-02       | FURAN COMPOUNDS                        | Cause  | 5      | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |



| Assessment Unit ID | Parameter                              | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                                                                                                                                                               |
|--------------------|----------------------------------------|--------|--------|----------------------------------|---------------|------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                        |        |        |                                  |               |            |                  | Levels at State Line exceed human health and aquatic life criteria and decline downstream in a response fully explained by simple dilution, indicating sources are in Pennsylvania. The extensive sampling occurred in 2015 as part of the WATAR. DNREC is working with Pennsylvania and US EPA to address this issue. |
| DE260-001-03       | DDT (DICHLORODIPHENYLTRI CHLOROETHANE) | Cause  | 5      | Fish Consumption                 | 2014          |            | High             | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | DIELDRIN                               | Cause  | 5      | Fish Consumption                 | 2016          |            | High             | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | DIOXIN                                 | Cause  | 5      | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | FURAN COMPOUNDS                        | Cause  | 5      | Fish Consumption                 | 2002          |            | High             | Listed 2002.                                                                                                                                                                                                                                                                                                           |
| DE260-001-03       | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE260-002-01       | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE260-002-01       | COPPER                                 | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2026          |            | Low              | 2026 New parameter. Listed 2026.                                                                                                                                                                                                                                                                                       |
| DE260-003-02       | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE260-003-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE270-001-01-01    | DIOXIN                                 | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                                                                                                                   |
| DE270-001-01-01    | FURAN COMPOUNDS                        | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories.                                                                                                                                                                                                   |
| DE270-001-01-01    | CHRONIC TOXICITY                       | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2012          |            | Low              | Listed Based on 2011 journal article. Likely cause is a federal superfund site. The Department is working with EPA on the cleanup and possible TMDL.                                                                                                                                                                   |
| DE270-001-01-02    | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE270-001-02-01    | DIELDRIN                               | Cause  | 5      | Fish Consumption                 | 2014          |            | Low              | Listed 2014.                                                                                                                                                                                                                                                                                                           |
| DE270-001-02-02    | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |
| DE280-001-01-01    | COPPER                                 | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE280-001-01-02    | COPPER                                 | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2016          |            | Low              | Listed 2016.                                                                                                                                                                                                                                                                                                           |
| DE280-001-01-02    | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                                                                                                                                                           |

| Assessment Unit ID | Parameter            | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                             |
|--------------------|----------------------|--------|--------|----------------------------------|---------------|------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| DE290-001-01       | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-01       | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-01       | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-02-01    | DIELDRIN             | Cause  | 5      | Fish Consumption                 | 2016          | 5mnr       | Low              | Listed 2016. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |
| DE290-001-02-01    | DIOXIN               | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                                                         |
| DE290-001-02-01    | FURAN COMPOUNDS      | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                                                         |
| DE290-001-02-02    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-001-02-03    | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-001-02-03    | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-002-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-002-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-002-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-003-01       | MERCURY              | Cause  | 5      | Fish Consumption                 | 2014          |            | Low              | Listed 2014.                                                                                                         |
| DE290-003-02       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-003-03       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-003-04       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-003-05       | MERCURY              | Cause  | 5      | Fish Consumption                 | 2014          |            | Low              | Listed 2014.                                                                                                         |
| DE290-003-05       | HABITAT ASSESSMENT   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-003-06       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-004-01       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |
| DE290-004-02       | BIOLOGICAL INTEGRITY | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                         |

| Assessment Unit ID | Parameter                              | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                    |
|--------------------|----------------------------------------|--------|--------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE290-004-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE290-004-03       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE290-004-04       | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE290-L02          | DIOXIN                                 | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                                                                                                                |
| DE290-L02          | FURAN COMPOUNDS                        | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002.                                                                                                                                                                |
|                    |                                        |        |        |                                  |               |            |                  | Listed 2002. Changed 2018 to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. 2022 updated to correct Cat 5 listing to include 5mnr. |
| DE290-L04          | DDT (DICHLORODIPHENYLTRI CHLOROETHANE) | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              |                                                                                                                                                                             |
| DE300-001-01       | DIELDRIN                               | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                                                                                |
| DE300-001-02-01    | CHLORDANE                              | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                                                                                |
| DE300-001-02-01    | DIELDRIN                               | Cause  | 5      | Fish Consumption                 | 2012          |            | Low              | Listed 2012.                                                                                                                                                                |
| DE300-001-02-01    | HEPTACHLOR EPOXIDE                     | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                                                                                                |
| DE300-001-02-02    | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE300-001-02-02    | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE300-001-02-03    | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE300-001-02-03    | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE300-001-03-01    | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE300-001-03-02    | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE300-001-03-02    | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE310-002-02       | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE310-002-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE310-003-02       | BIOLOGICAL INTEGRITY                   | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE310-003-02       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |
| DE310-003-03       | HABITAT ASSESSMENT                     | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                                                                                                |

| Assessment Unit ID | Parameter                               | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                        |
|--------------------|-----------------------------------------|--------|--------|----------------------------------|---------------|------------|------------------|-------------------------------------------------------------------------------------------------|
| DE310-003-04       | BIOLOGICAL INTEGRITY                    | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE310-003-04       | HABITAT ASSESSMENT                      | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE310-003-05       | BIOLOGICAL INTEGRITY                    | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE320-001-01       | DIELDRIN                                | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                    |
| DE320-001-03       | CHLORDANE                               | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                    |
| DE320-001-03       | DDD (DICHLORODIPHENYLDI CHLOROETHANE)   | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                    |
| DE320-001-03       | DDE (DICHLORODIPHENYLDI CHLOROETHYLENE) | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                    |
| DE320-001-03       | DDT (DICHLORODIPHENYLTRI CHLOROETHANE)  | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                    |
| DE320-001-03       | DIELDRIN                                | Cause  | 5      | Fish Consumption                 | 2016          |            | Low              | Listed 2016.                                                                                    |
| DE320-002-02       | BIOLOGICAL INTEGRITY                    | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE320-002-02       | HABITAT ASSESSMENT                      | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE320-002-03       | HABITAT ASSESSMENT                      | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE320-002-04       | BIOLOGICAL INTEGRITY                    | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2014          |            | Low              | Listed 2014.                                                                                    |
| DE320-002-05       | BIOLOGICAL INTEGRITY                    | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE320-003-05       | BIOLOGICAL INTEGRITY                    | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE320-003-05       | HABITAT ASSESSMENT                      | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DE320-005-01       | HABITAT ASSESSMENT                      | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 1998          |            | Low              | Listed 1998.                                                                                    |
| DEDRBCZone5        | DIELDRIN                                | Cause  | 5      | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dieldrin to be more specific.        |
| DEDRBCZone5        | DIOXIN                                  | Cause  | 5      | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dioxin to be more specific.          |
| DEDRBCZone5        | FURAN COMPOUNDS                         | Cause  | 5      | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Furan Compounds to be more specific. |

| Assessment Unit ID | Parameter        | Status | IR Cat | Use                              | First Listing | Org IR Cat | Priority Ranking | Comments                                                                                                                                                                    |
|--------------------|------------------|--------|--------|----------------------------------|---------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEDRBCZone5c       | DIELDRIN         | Cause  | 5      | Fish Consumption                 | 2002          |            | Low              | Listed 2002. 2016 Changed from "Chlorinated Pesticides" to Dieldrin to be more specific.                                                                                    |
| DEDRBCZone5c       | DIOXIN           | Cause  | 5      | Fish Consumption                 | 2002          |            | Low              | Listed 2002.                                                                                                                                                                |
| DEDRBCZone5c       | FURAN COMPOUNDS  | Cause  | 5      | Fish Consumption                 | 2002          |            | Low              | Listed 2002.                                                                                                                                                                |
| DEDRBCZone5c       | DISSOLVED OXYGEN | Cause  | 5      | Fish, Aquatic Life, and Wildlife | 2006          |            | Low              | Listed 2006. Delaware will work with the DRBC, EPA, other States and Stakeholders to develop and implement a TMDL in these waters.                                          |
| DEDRBCZone6        | MERCURY          | Cause  | 5      | Fish Consumption                 | 2002          | 5mnr       | Low              | Listed 2002. TMDL Target date of 2012 changed to 2016 in the 2012 Cycle. Changed to Monitored Natural Recovery per March 1, 2018 Evaluation of Fish Consumption Advisories. |

## Appendix F: Trend Analysis Plot for Surface Water

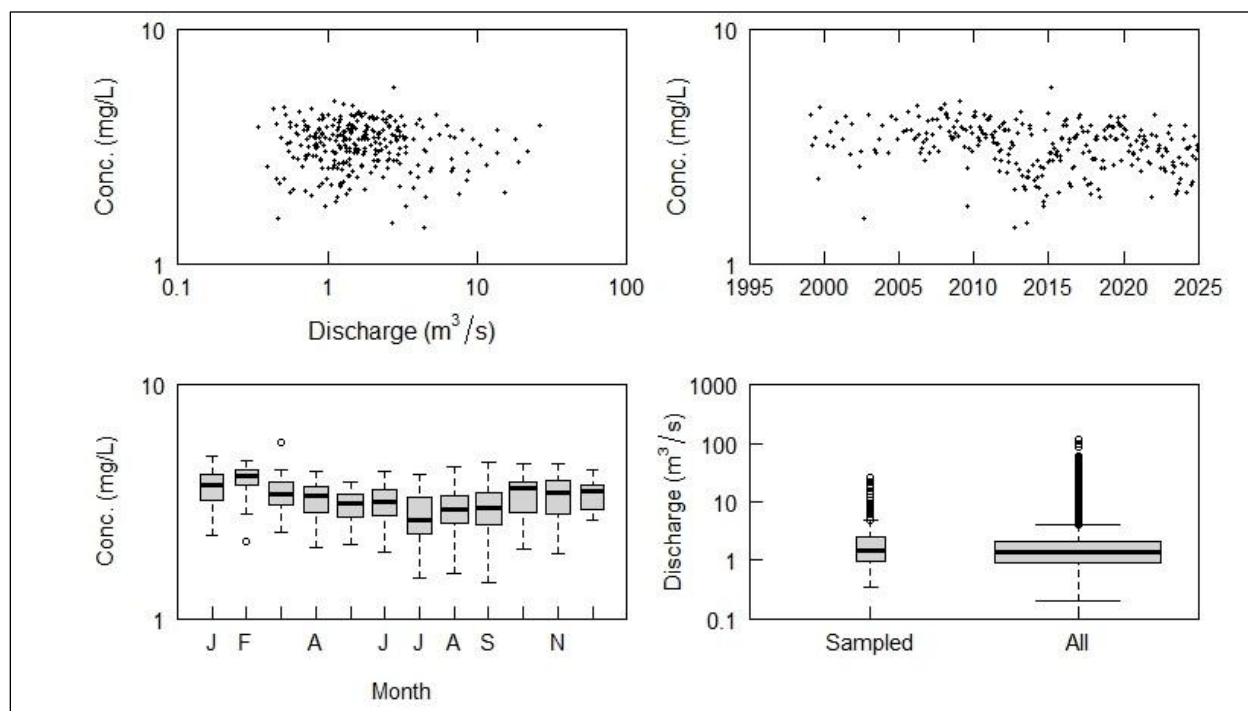


Figure F1: (a) TN concentration changes with discharge (top left) (b) TN concentration changes over time (top right) (c) Monthly TN changes over time (bottom left) (d) Changes in discharge during sampled date vs overall changes in discharge (bottom right) at Wooddale Station, Red Clay Creek Watershed, Delaware.

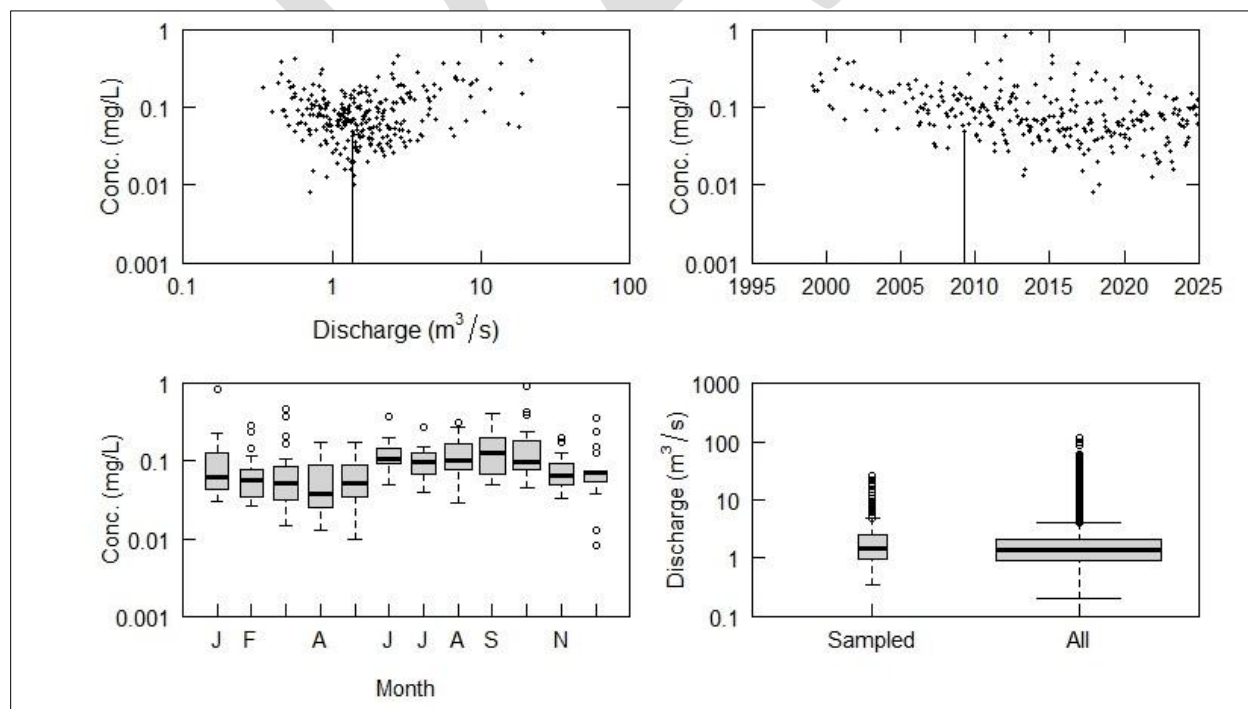


Figure F2: (a) TP concentration changes with discharge (top left) (b) TP concentration changes over time (top right) (c) Monthly TP changes over time (bottom left) (d) Changes in discharge during sampled date vs overall changes in discharge (bottom right) at Wooddale Station, Red Clay Creek Watershed, Delaware.

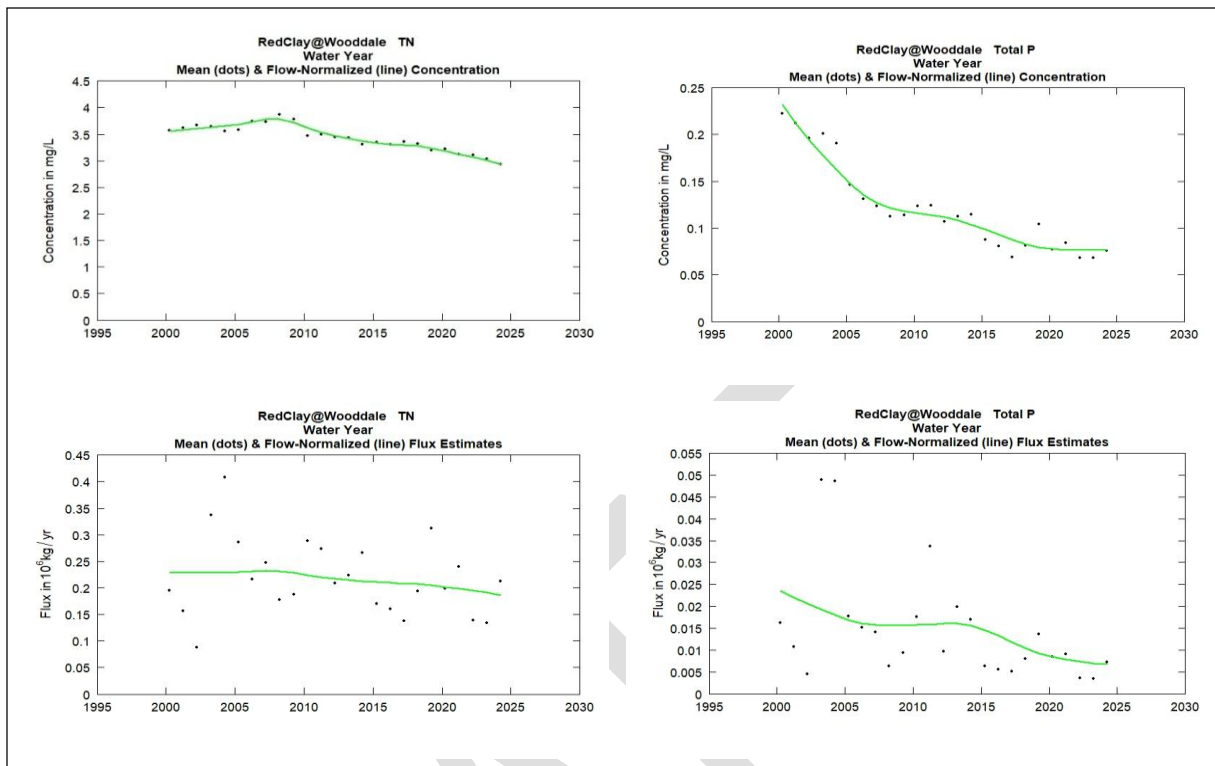


Figure F3: (a) Total Nitrogen trend (top left) (b) Total Phosphorus trend (top right) (c) Total Nitrogen loading rate (bottom left) (d) Total Phosphorus loading rate (bottom right) over time at Wooddale Station, Red Clay Creek Watershed, Delaware.

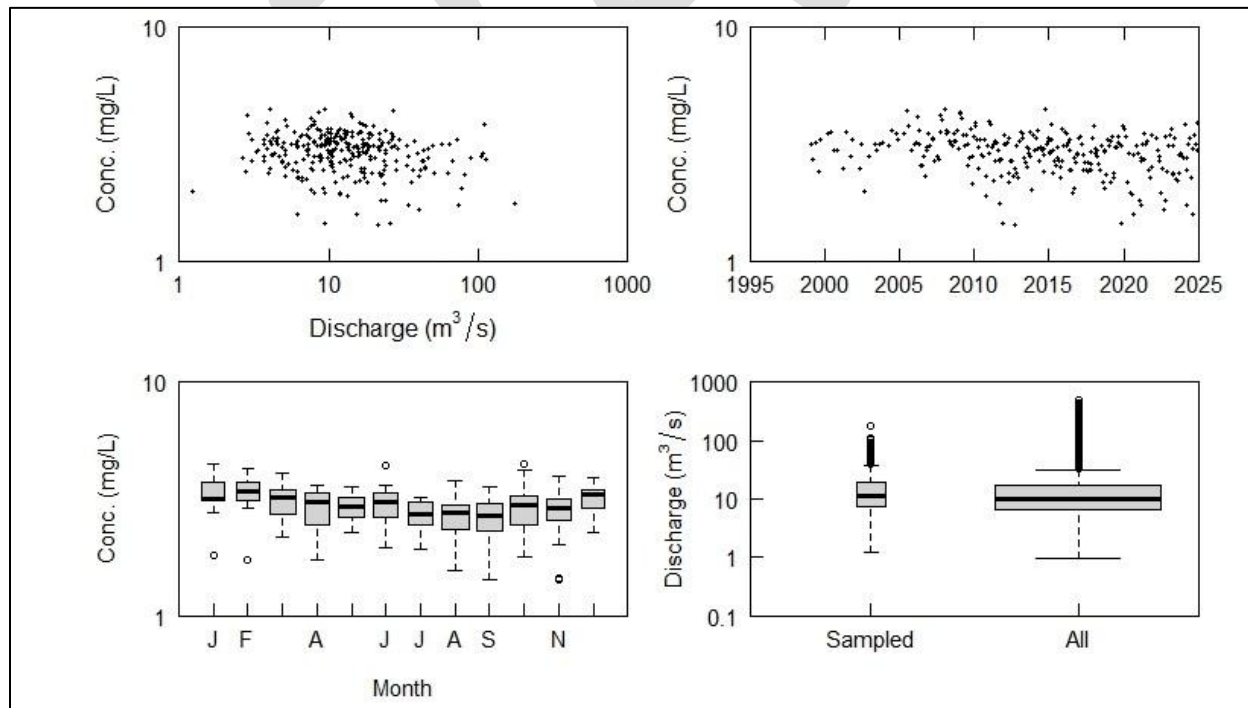


Figure F4: (a)TN concentration changes with discharge (top left) (b) TN concentration changes over time (top right) (c) Monthly changes in TN over time (bottom left) (d) Changes in discharge during sampled date vs overall changes in discharge (bottom right) at Brandywine Creek, Wilmington, Delaware

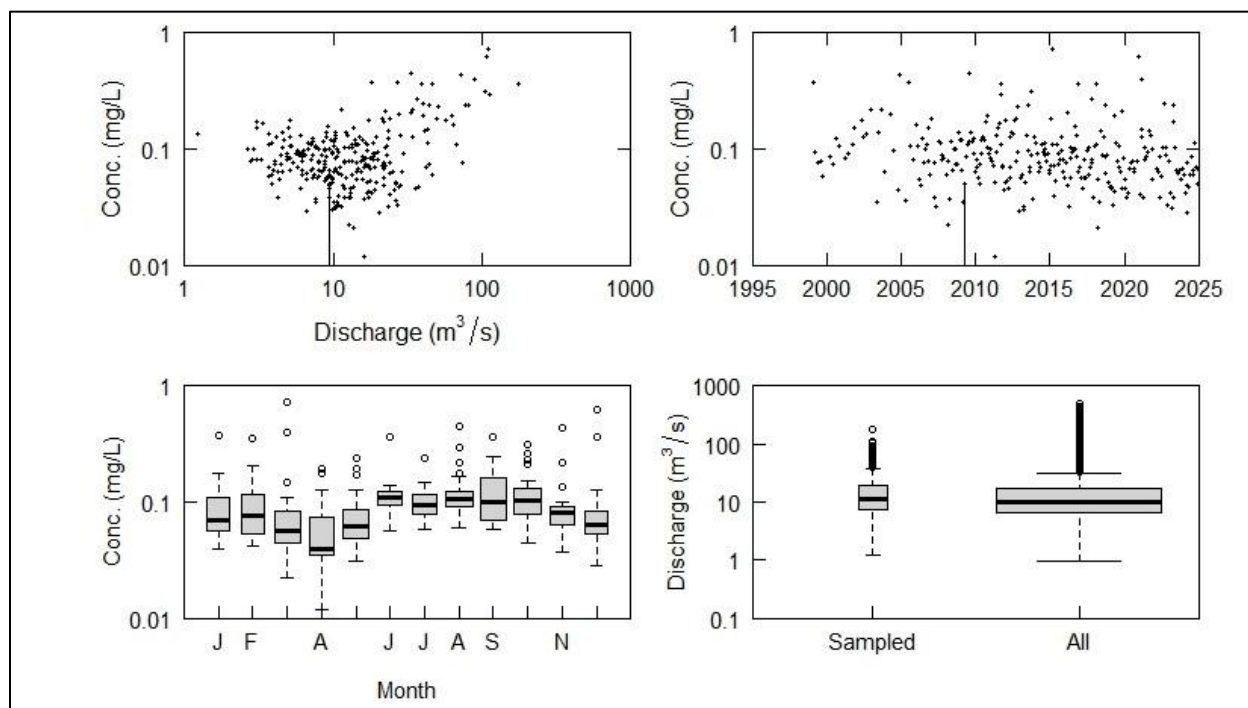


Figure F5: (a) TP concentration changes with discharge (top left) (b) TP concentration changes over time (top right) (c) Monthly changes in TP over time (bottom left) (d) Changes in discharge during sampled date vs overall changes in discharge (bottom right) at Brandywine Creek, Wilmington, Delaware

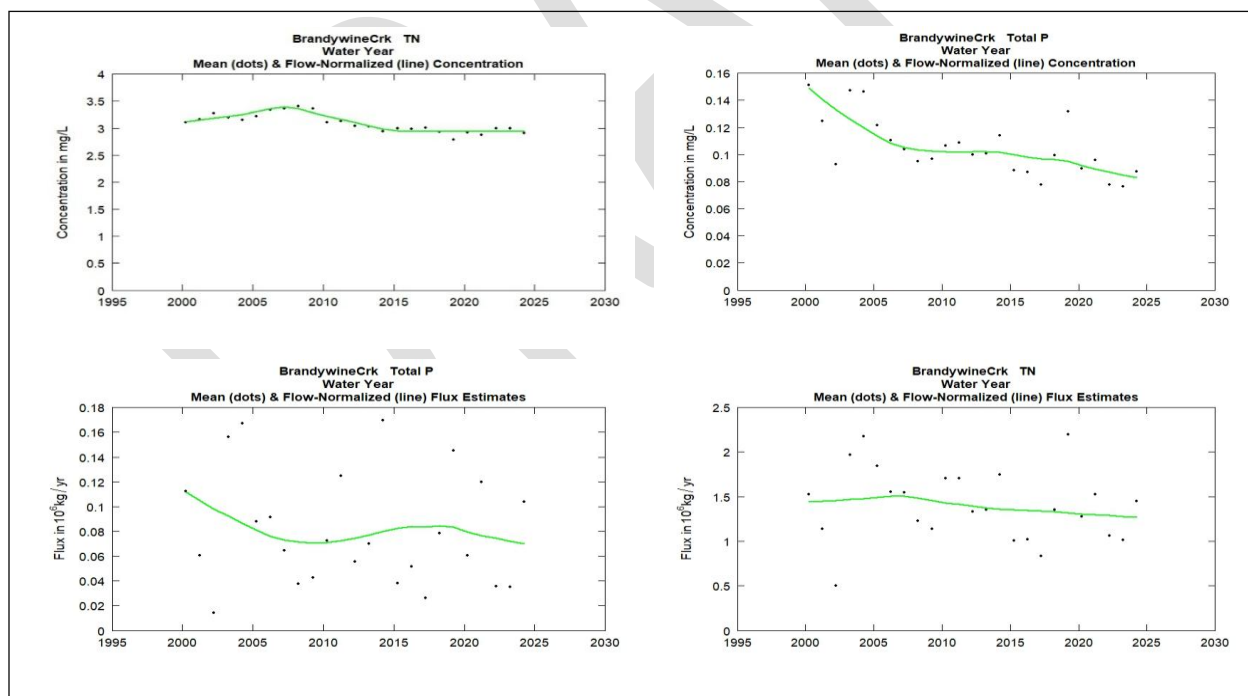


Figure F6: (a) Total Nitrogen trend (top left) (b) Total Phosphorus trend (top right) (c) Total P loading rate (bottom left) (d) Total N loading rate over time (bottom right) at Brandywine Creek, Wilmington, Delaware



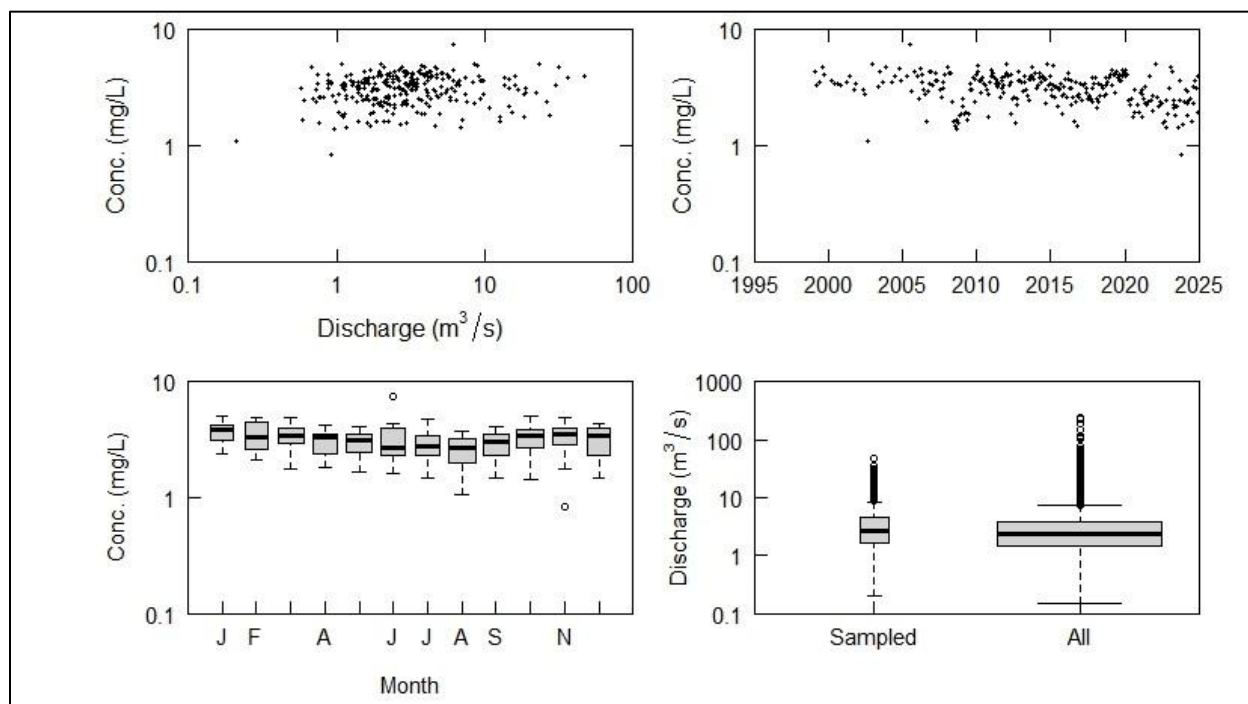


Figure F7: (a) TN concentration changes with discharge (top left) (b) TN concentration changes over time (top right) (c) Monthly changes in TN over time (bottom left) (d) Changes in discharge during sampled date Vs overall changes in discharge (bottom right) White Clay Creek at Delaware Park Blvd, Newark, Delaware

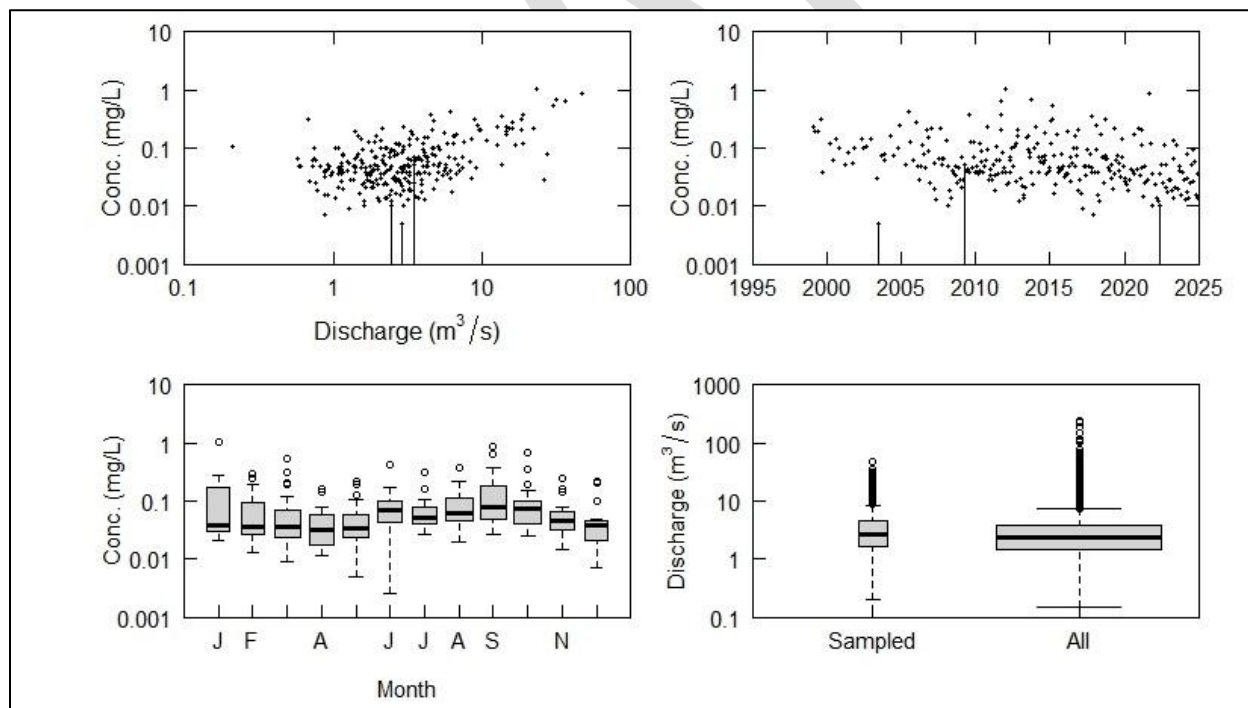


Figure F8: (a) TP concentration changes with discharge (top left) (b) TP concentration changes over time (top right) (c) Monthly changes in TP over time (bottom left) (d) Changes in discharge during sampled date Vs overall changes in discharge (bottom right) White Clay Creek at Delaware Park Blvd, Newark, Delaware

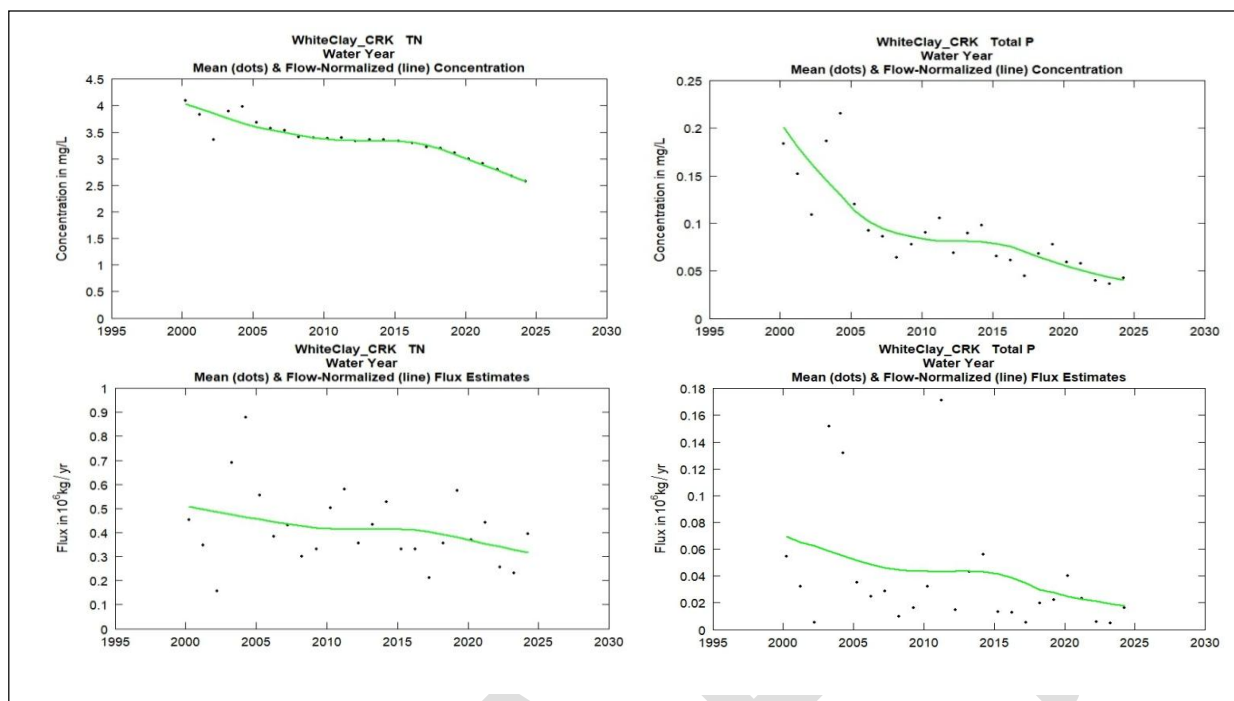


Figure F9: (a) Total Nitrogen trend (top left) (b) Total Phosphorus trend (top right) (c) Total Nitrogen loading rate (bottom left) (d) Total Phosphorus loading rate (bottom right) over time at Delaware Park Blvd, White Clay Creek, Newark, Delaware

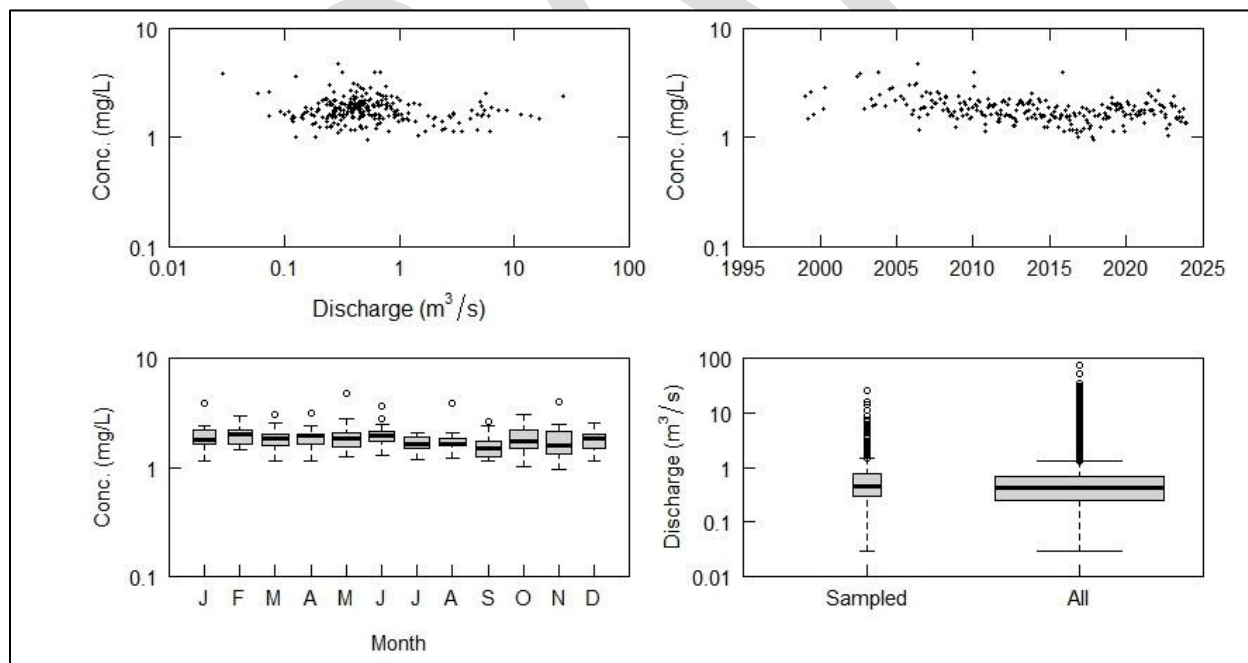


Figure F10: (a) Total Nitrogen concentration changes with discharge (top left) (b) Total Nitrogen concentration changes over time (top right) (c) Monthly changes in Total Nitrogen over time (bottom left) (d) Changes in discharge during sampled date Vs overall changes in discharge (bottom right) at Christina River at Coochs Bridge, Delaware

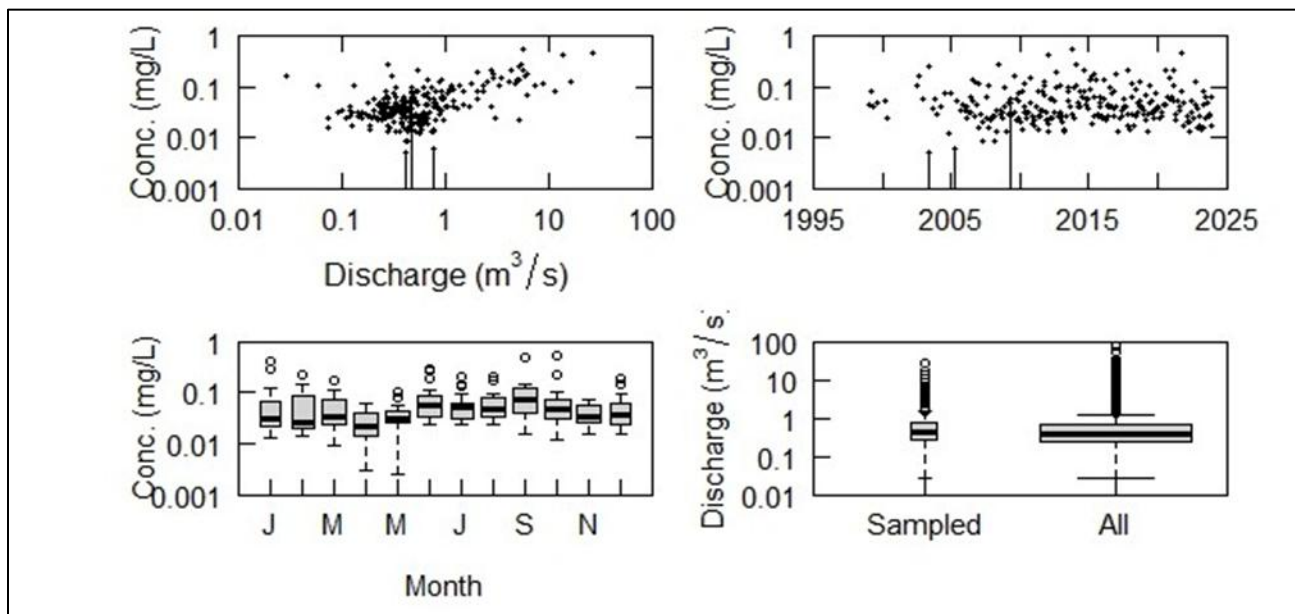


Figure F11:6(a) Total Phosphorus concentration changes with discharge (top left) (b) Total Phosphorus concentration changes over time (top right) (c) Monthly changes in Total Phosphorus over time (bottom left) (d) Changes in discharge during sampled date Vs overall changes in discharge (bottom right) at Coochs Bridge, Christina River, Delaware

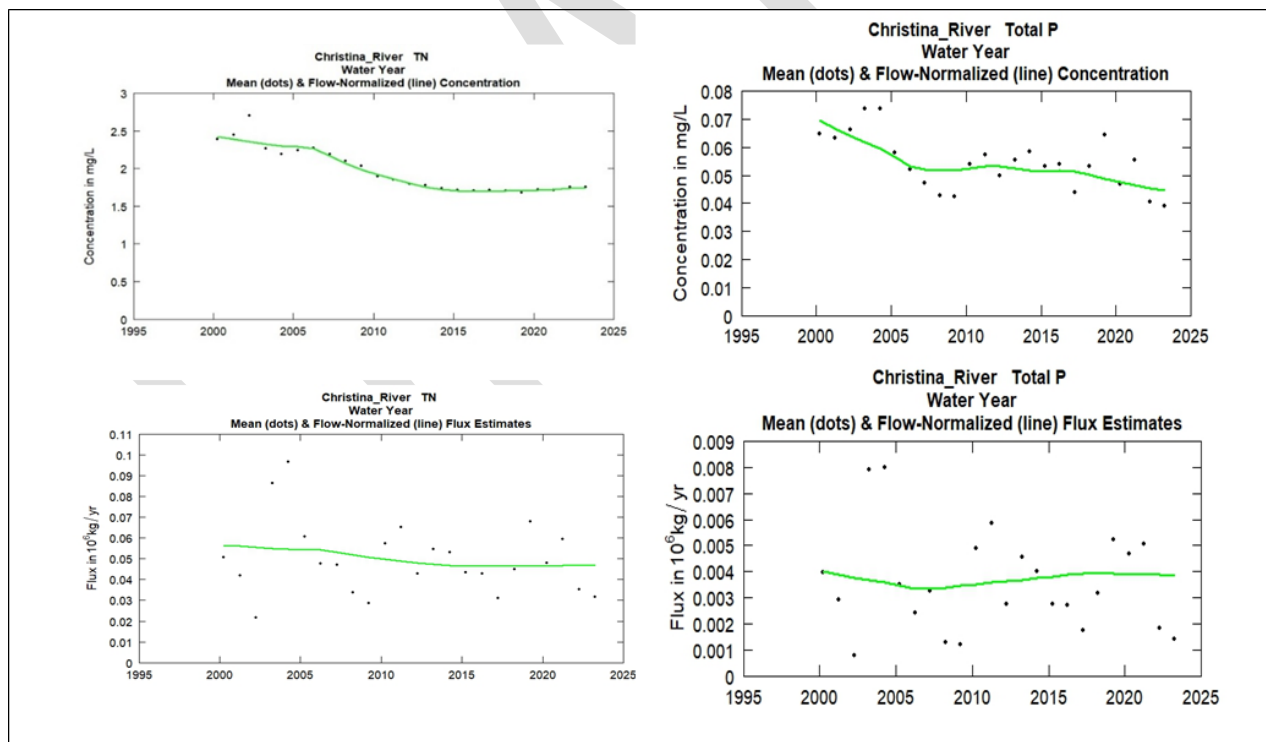


Figure 7(a) Total Nitrogen trend (top left) (b) Total Phosphorus trend (top right) (c) Total Nitrogen loading rate (bottom left) (d) Total Phosphorus loading rate (bottom right) over time at Coochs Bridge, Christina River, Delaware

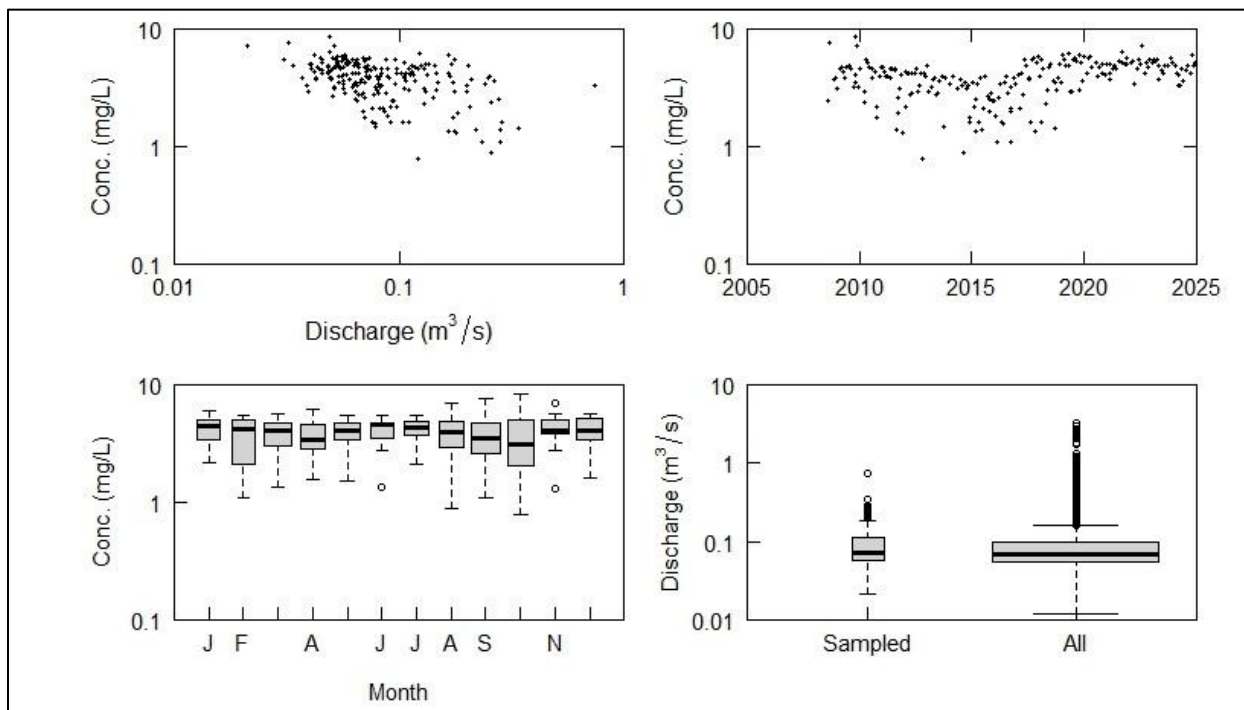


Figure F13: (a) Total Nitrogen concentration changes with discharge (top left) (b) Total Nitrogen concentration changes over time (top right) (c) Monthly changes in Total Nitrogen over time (bottom left) (d) Changes in discharge during sampled date Vs overall changes in discharge (bottom right) at Silver Lake Station in Appoquinimink River Watershed, Middletown, Delaware

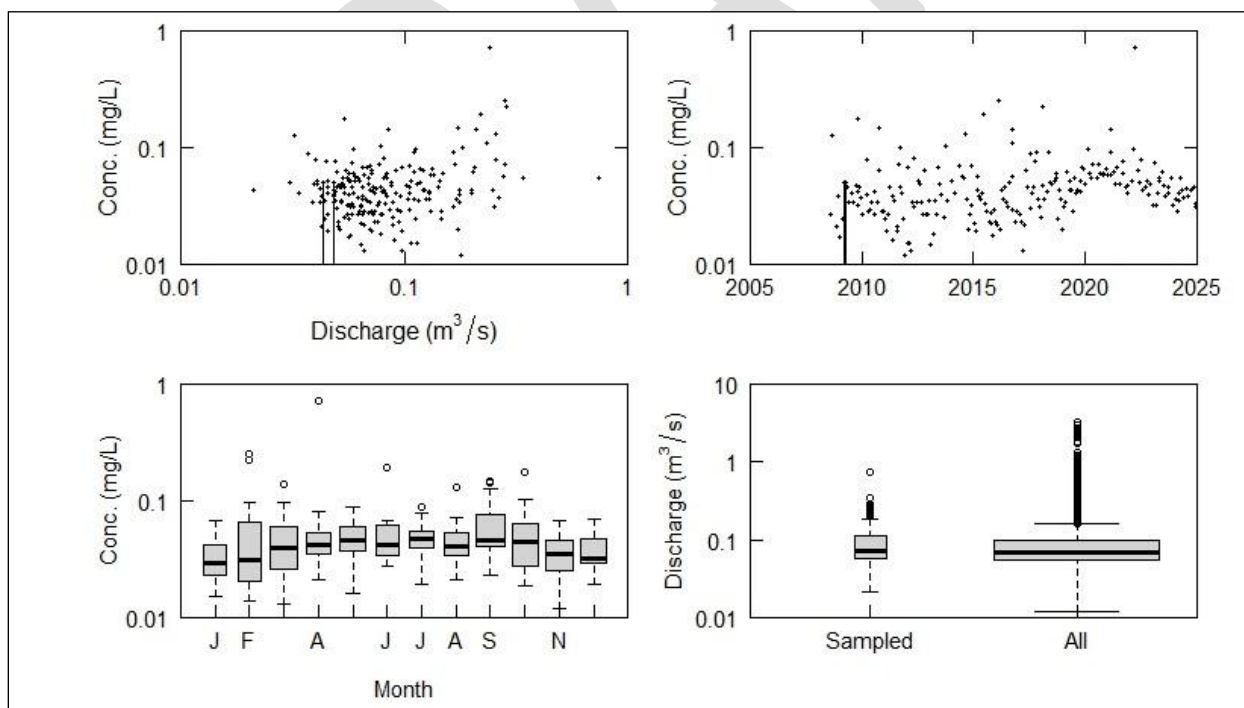


Figure F14: (a) Total Phosphorus concentration changes with discharge (top left) (b) Total Phosphorus concentration changes over time (top right) (c) Monthly changes in Total Phosphorus over time (bottom left) (d) Changes in discharge during sampled date Vs overall changes in discharge (bottom right) at Silver Lake Station in Appoquinimink River Watershed, Middletown, Delaware

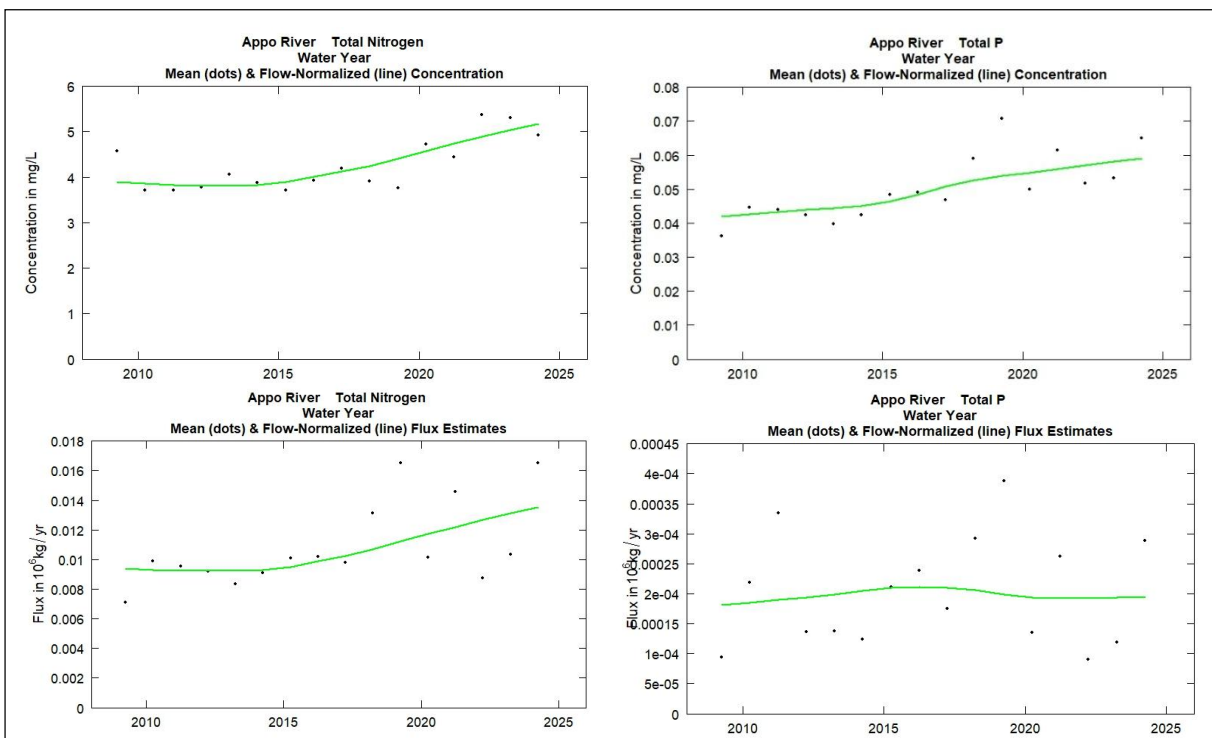


Figure F15: (a) Total Phosphorus trend over time (top left) (b) Total Nitrogen trend over time (top right) (c) Total Phosphorus loading rate over time (bottom left) (d) Total Nitrogen loading rate (bottom right) over time at Silver Lake Station in Appoquinimink River Watershed, Middletown, Delaware

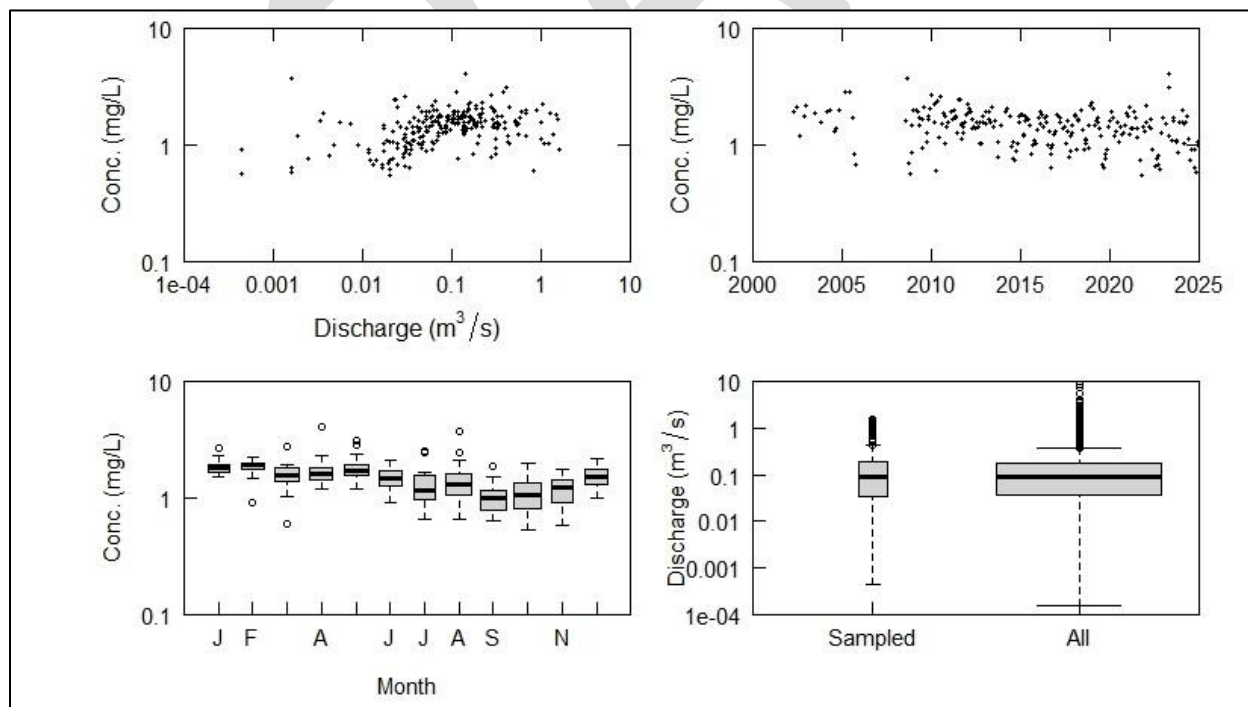


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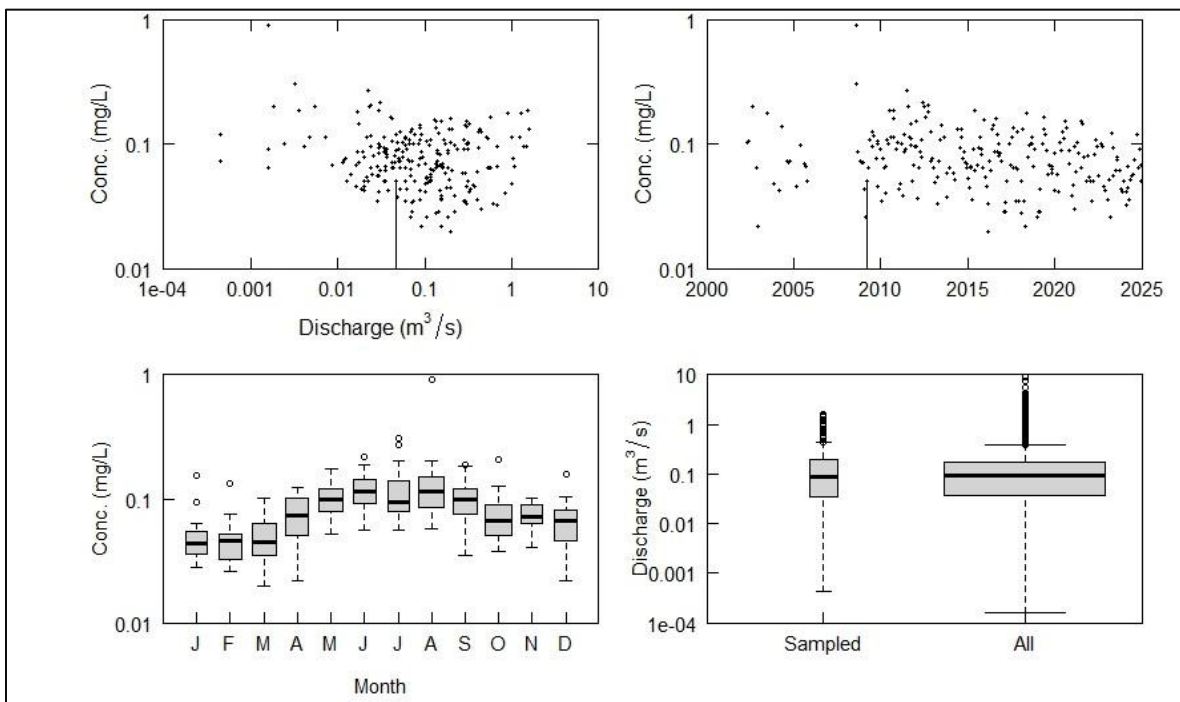


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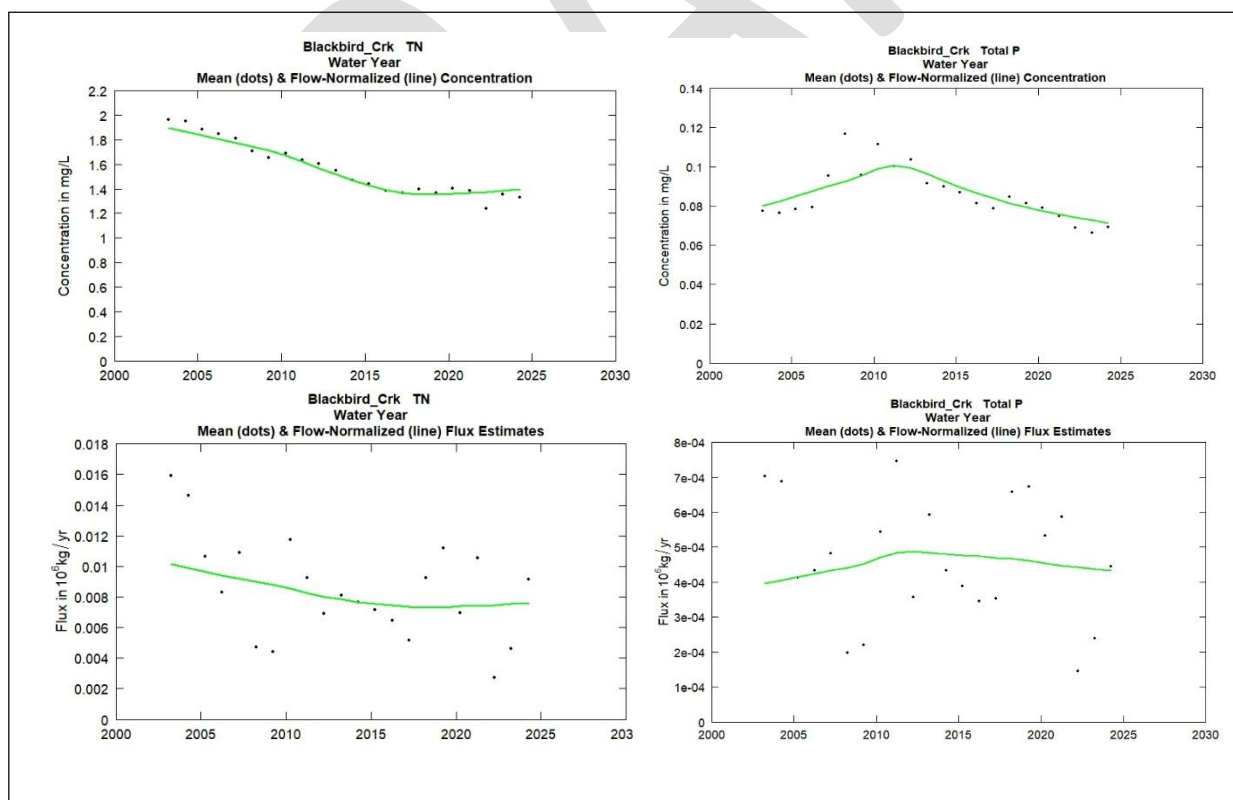


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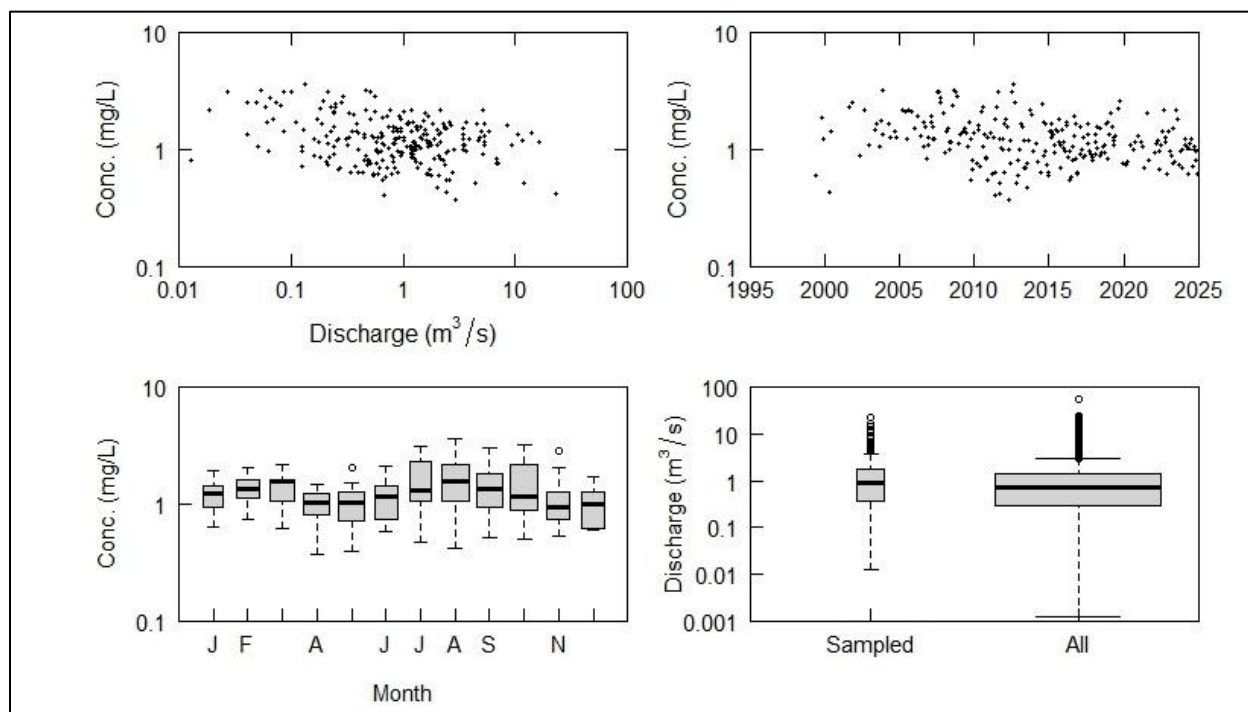


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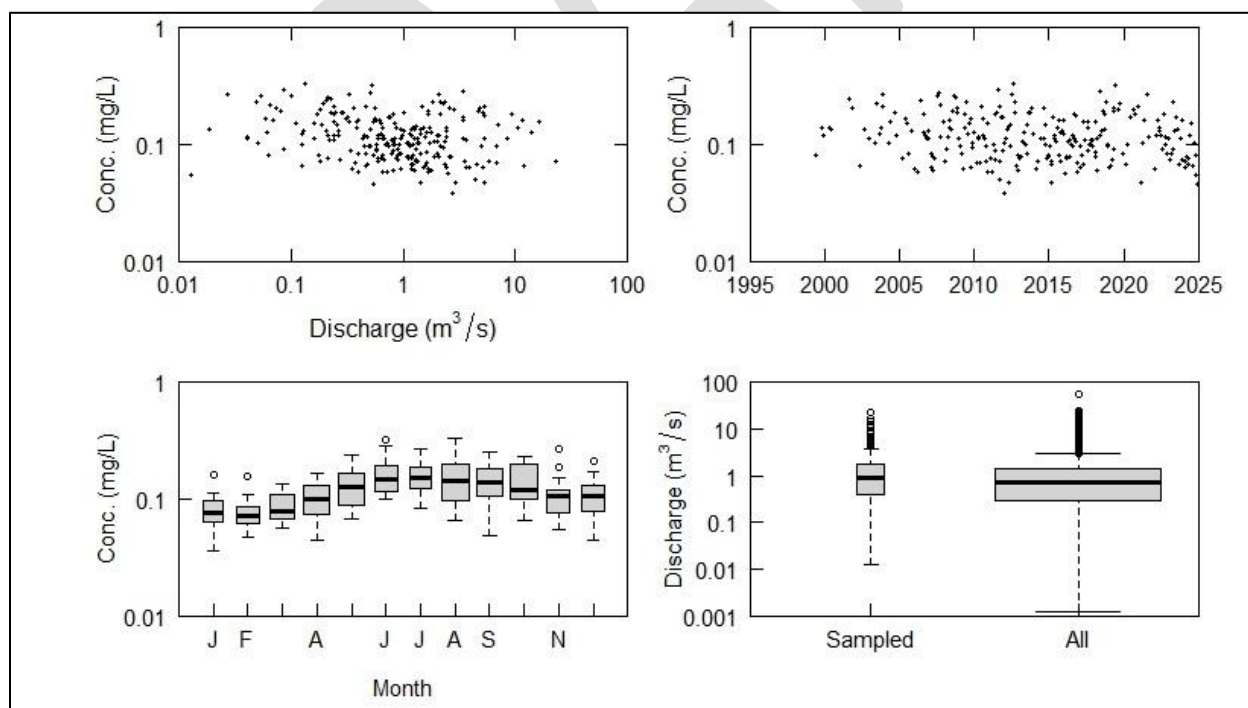


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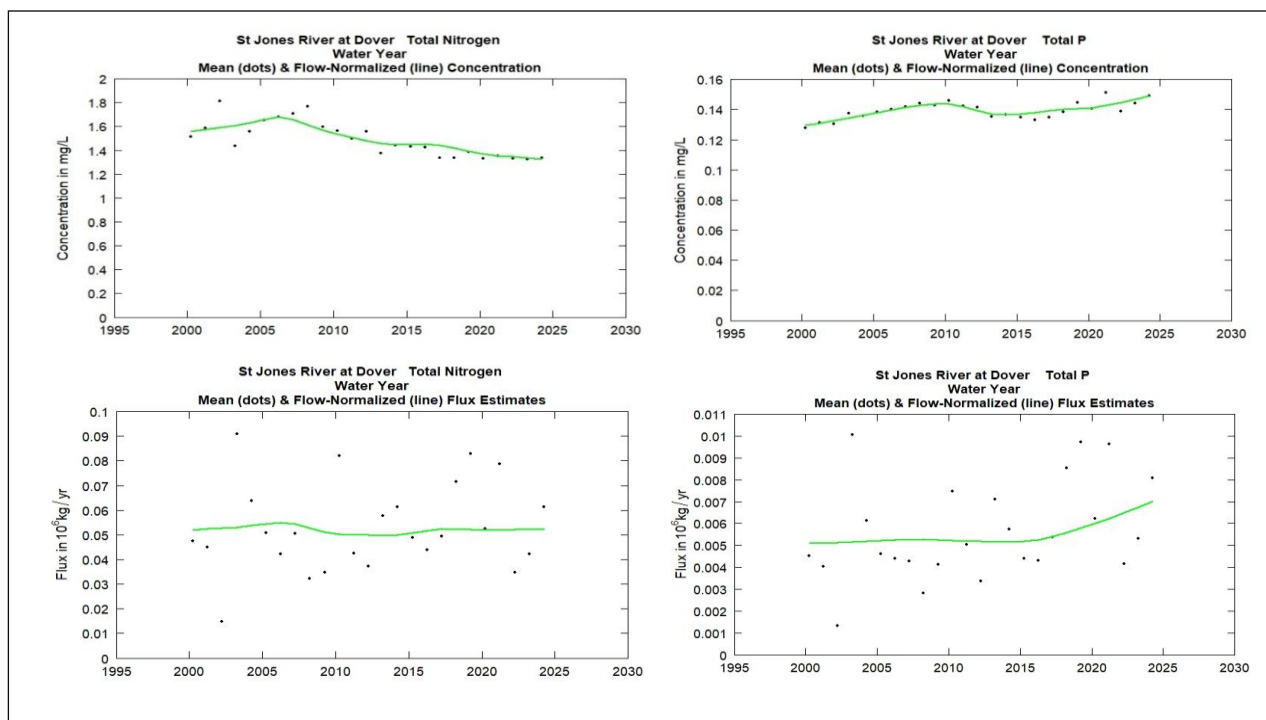


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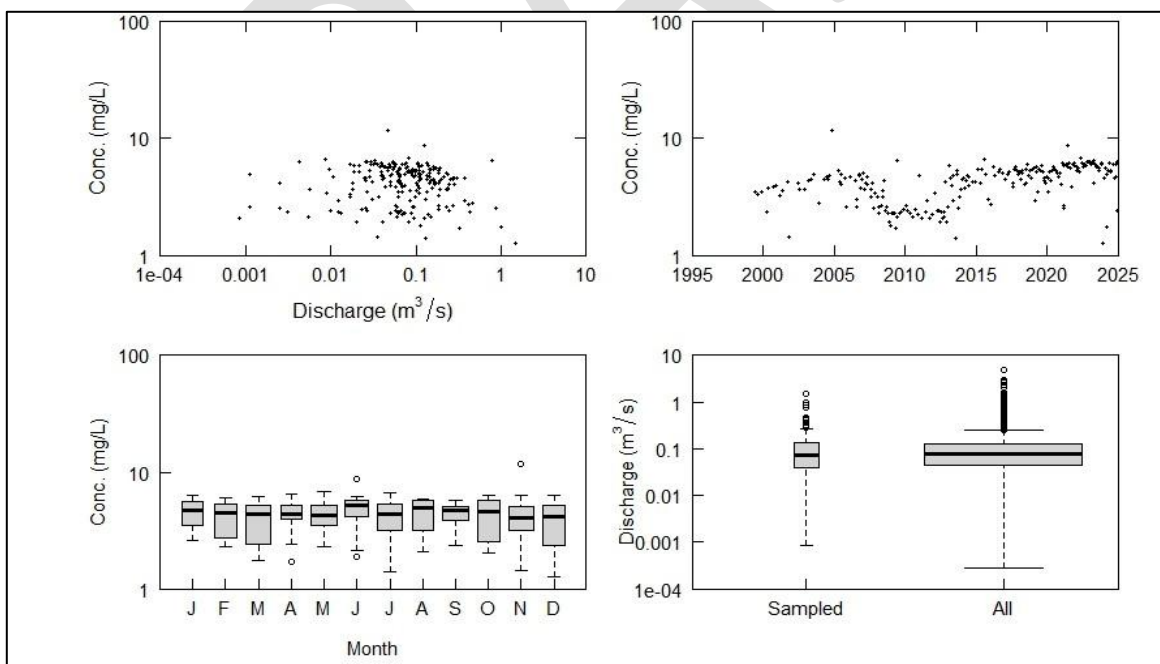


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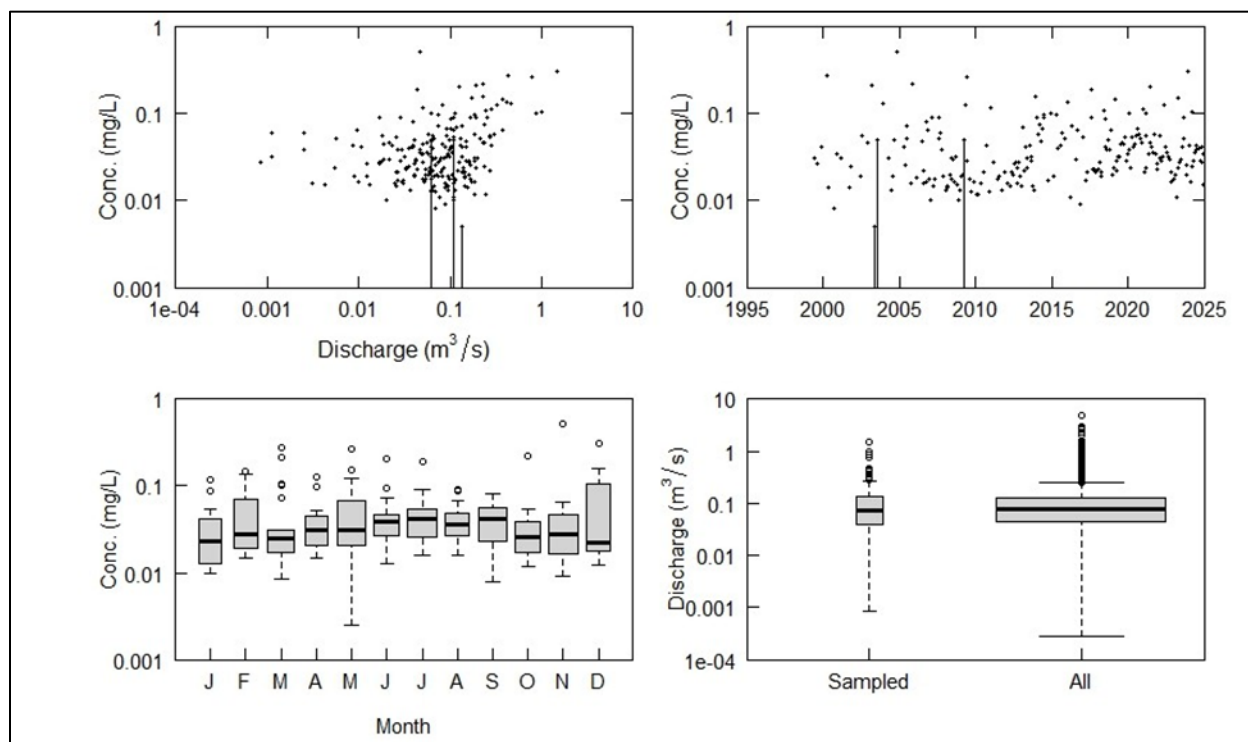


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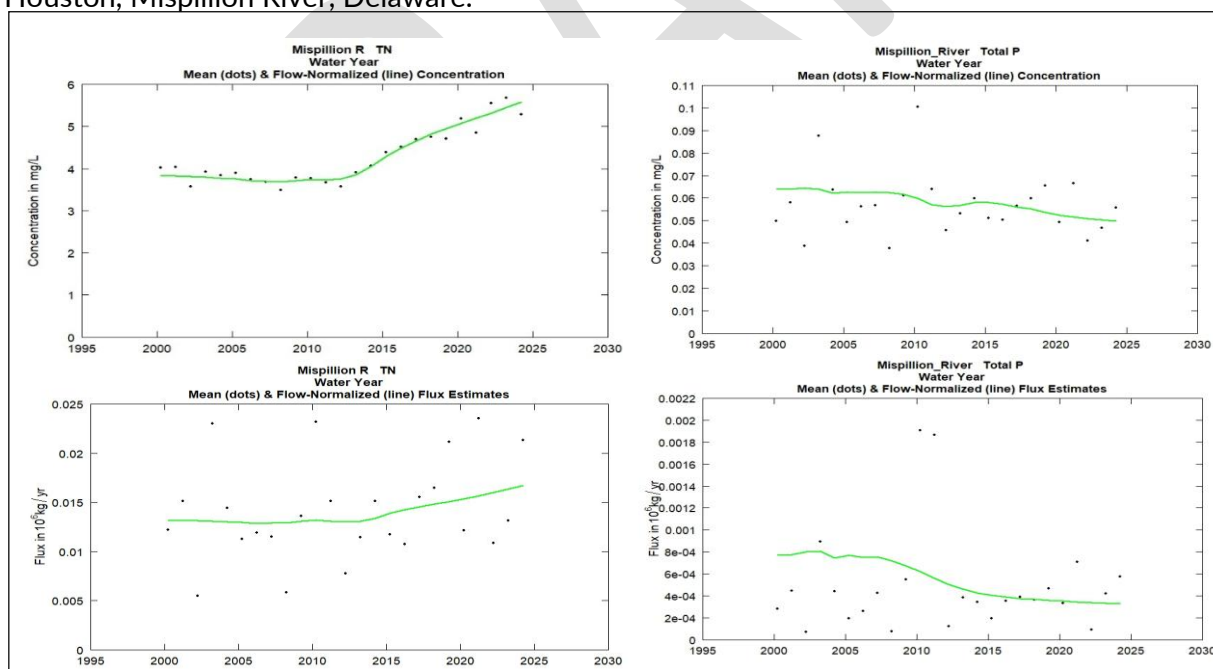


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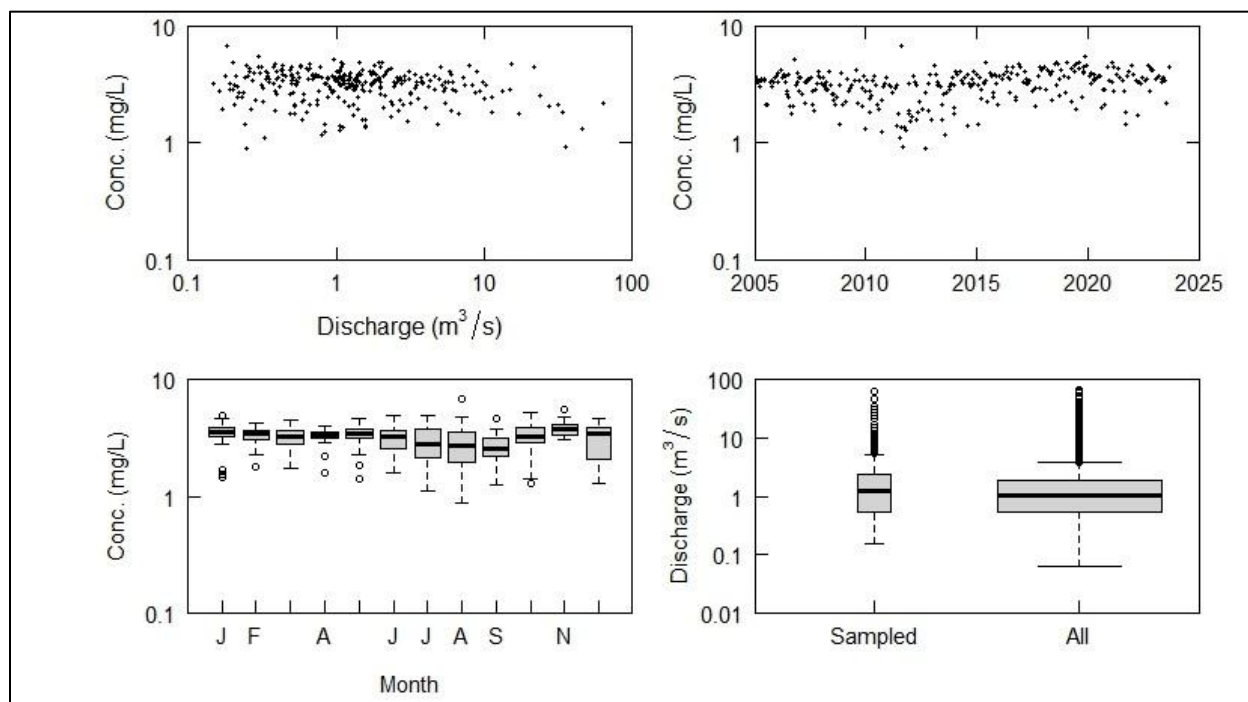


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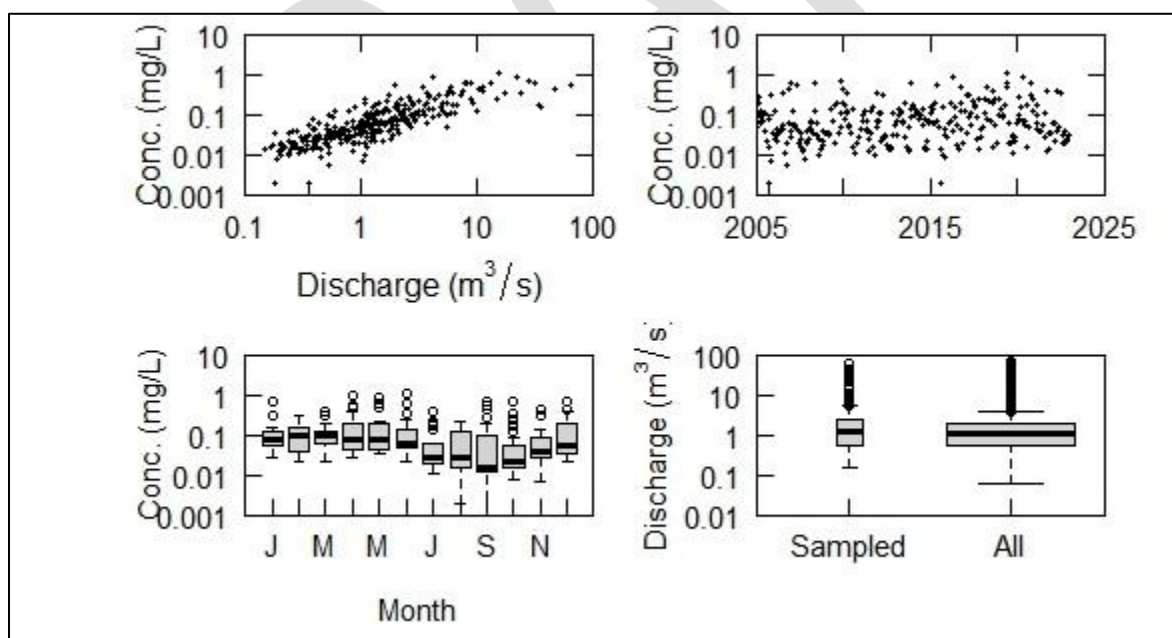


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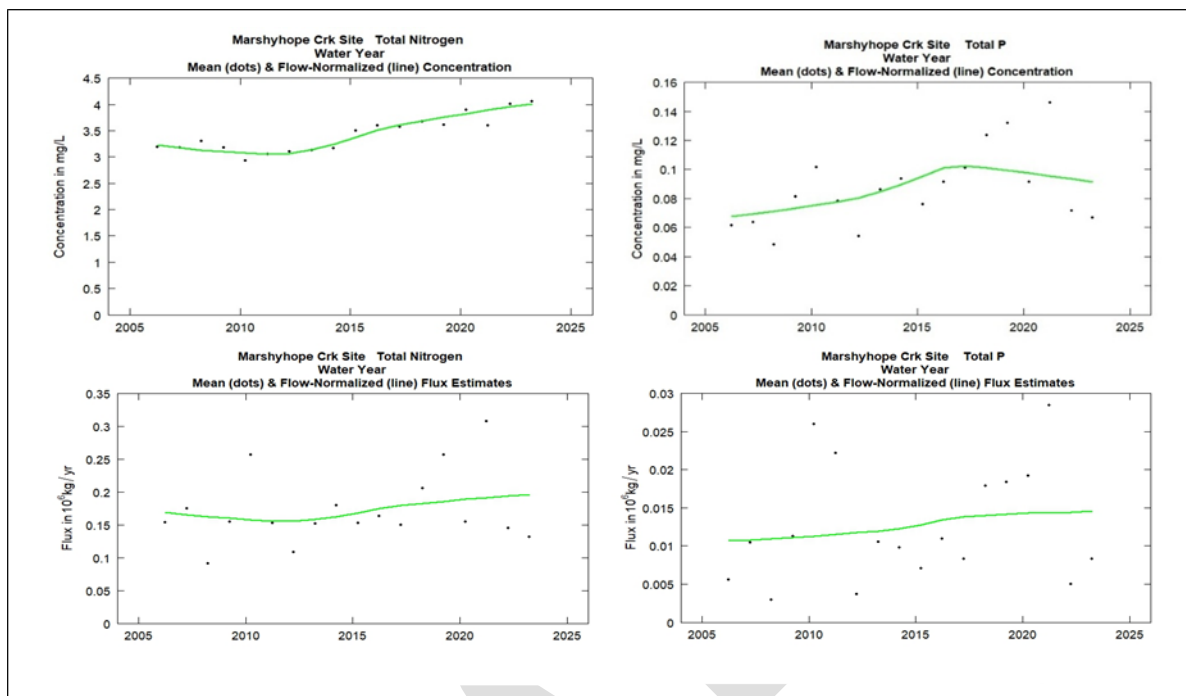


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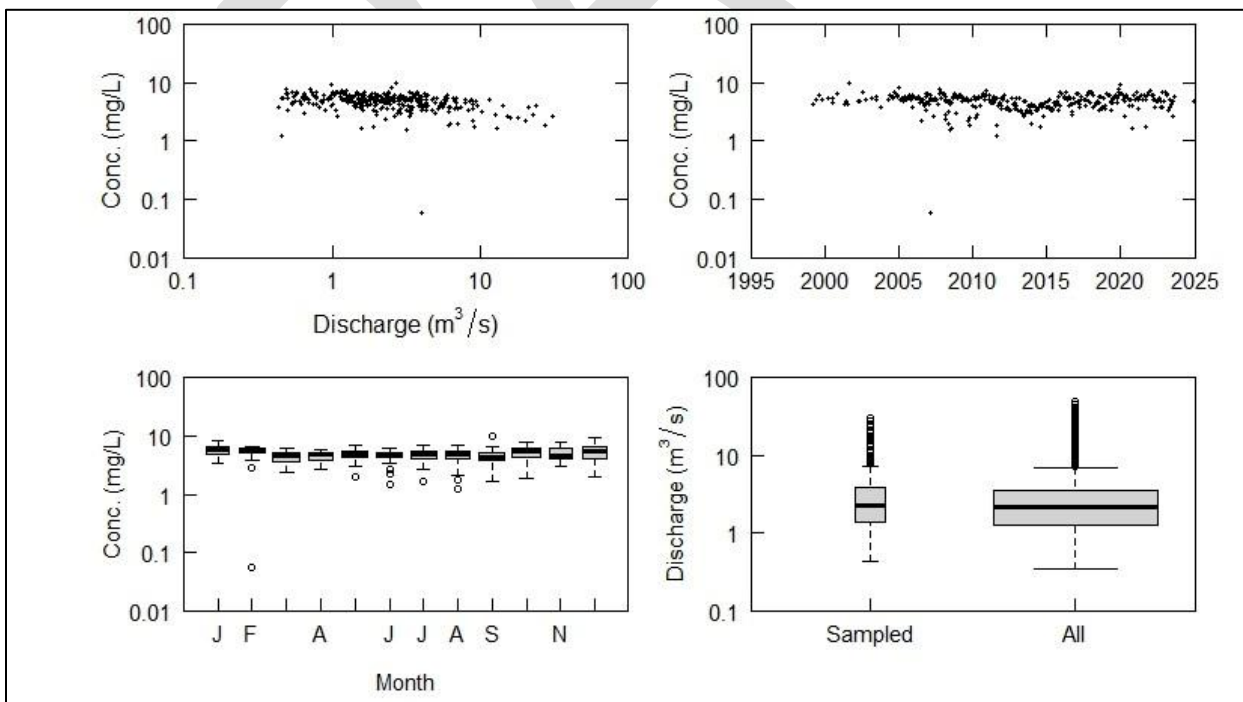


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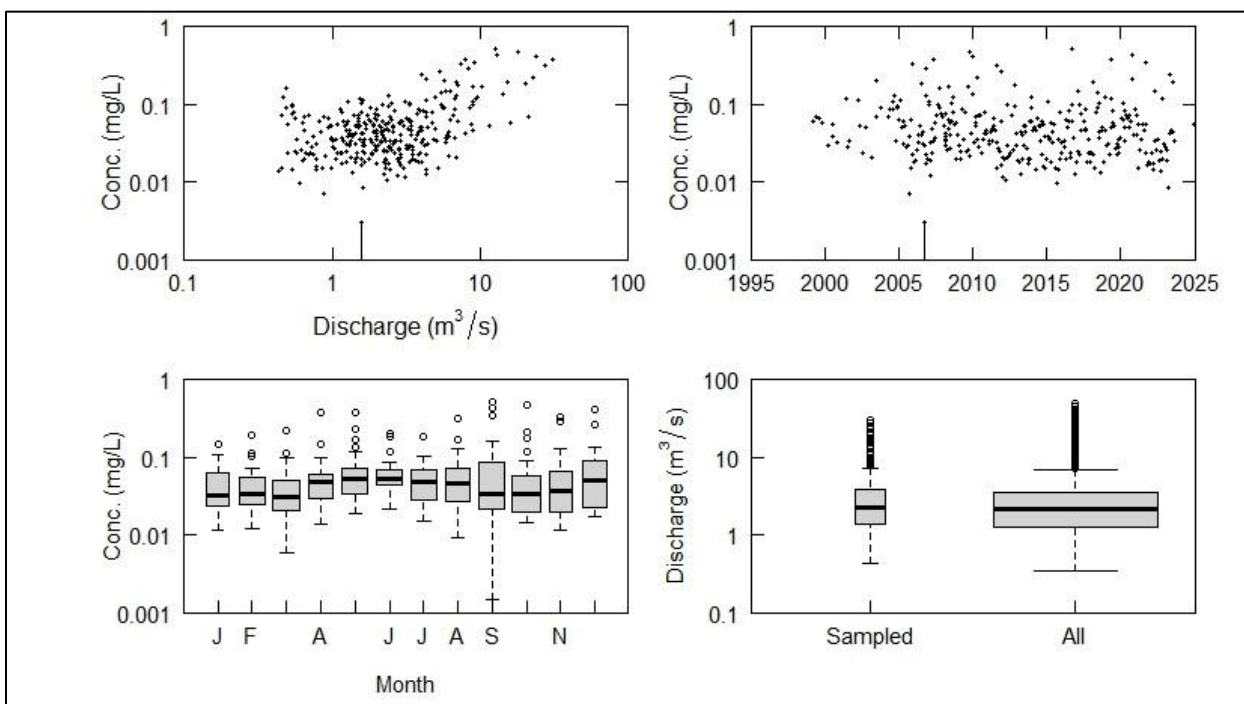


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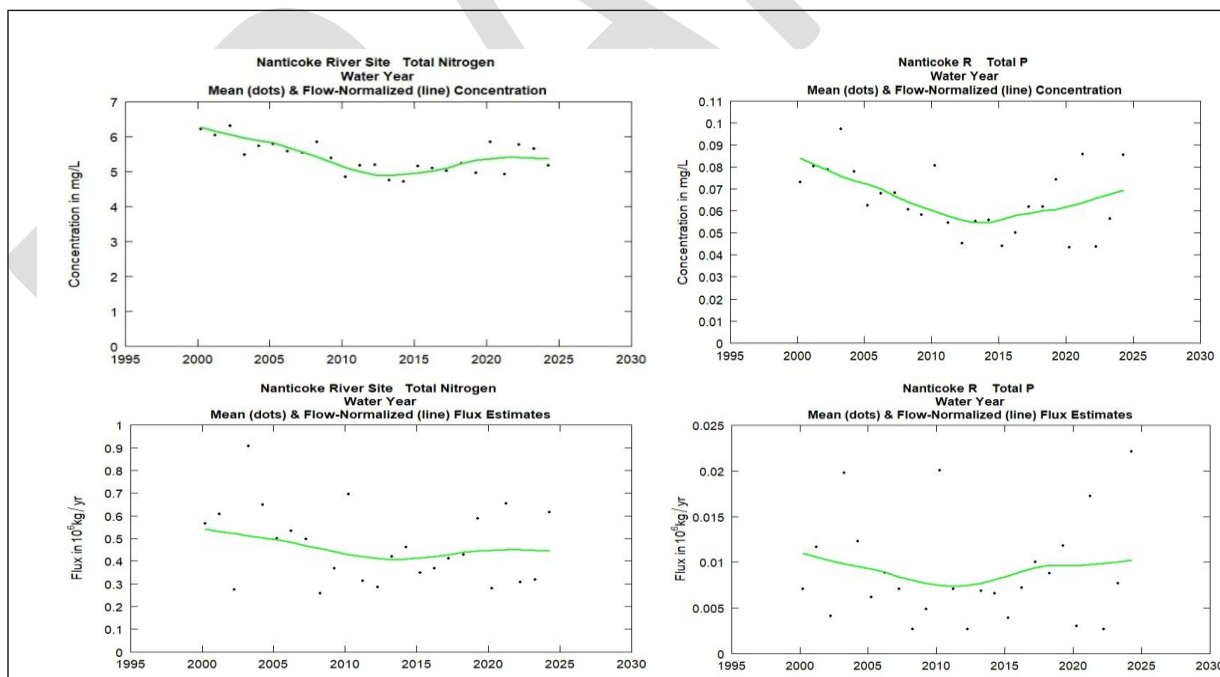


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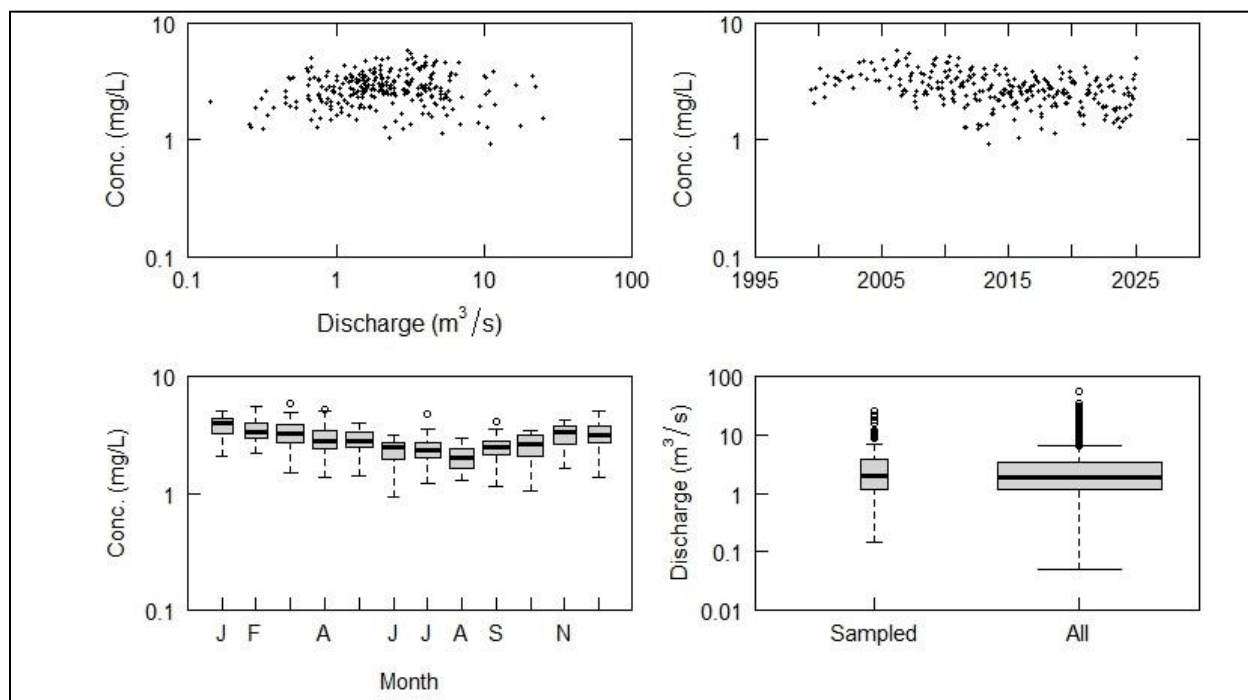


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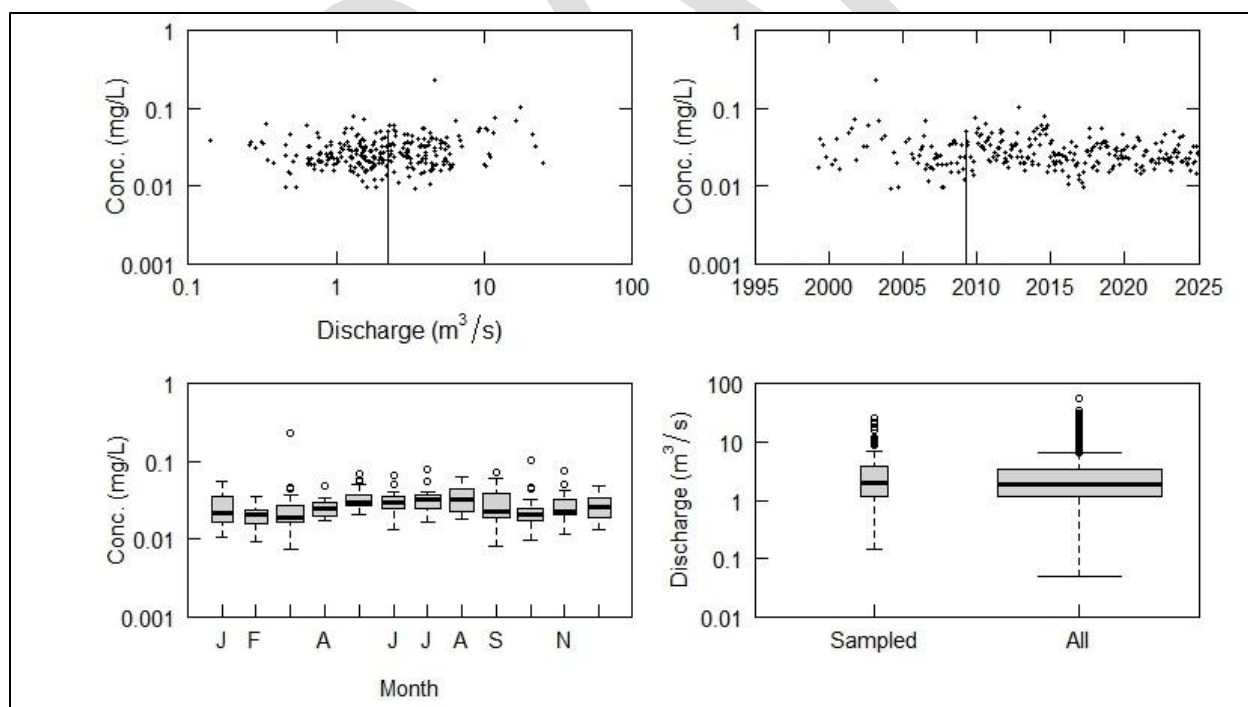


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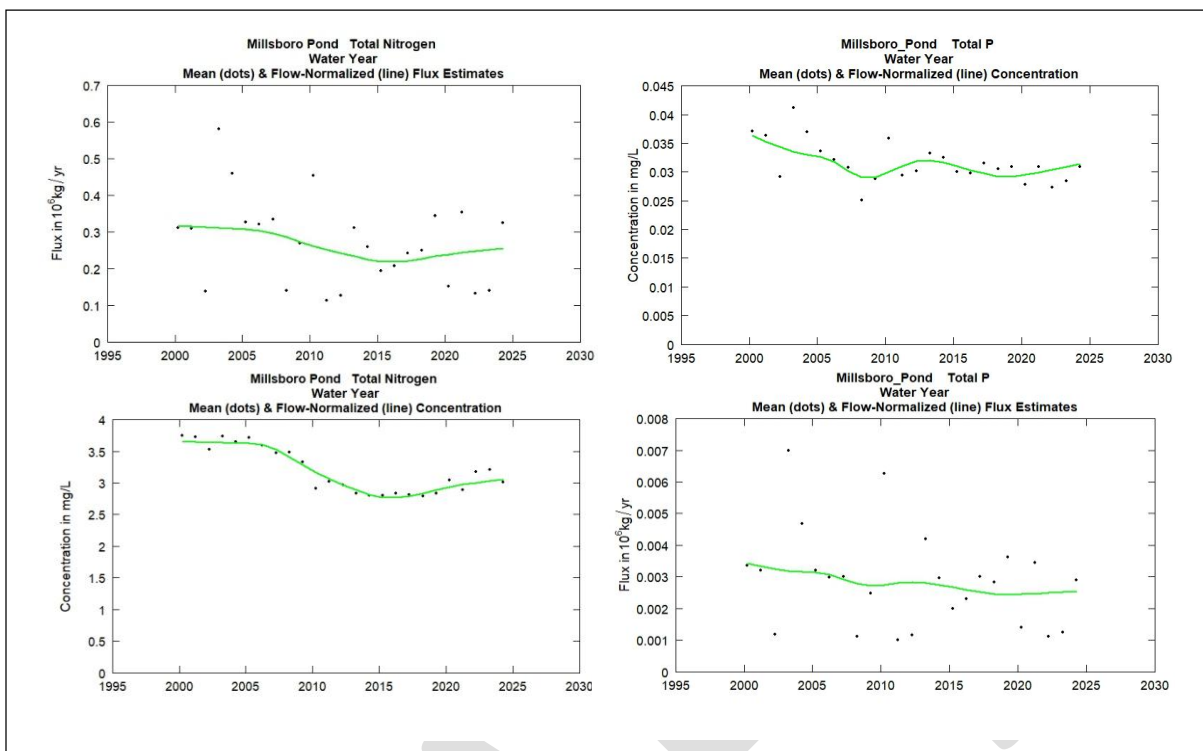


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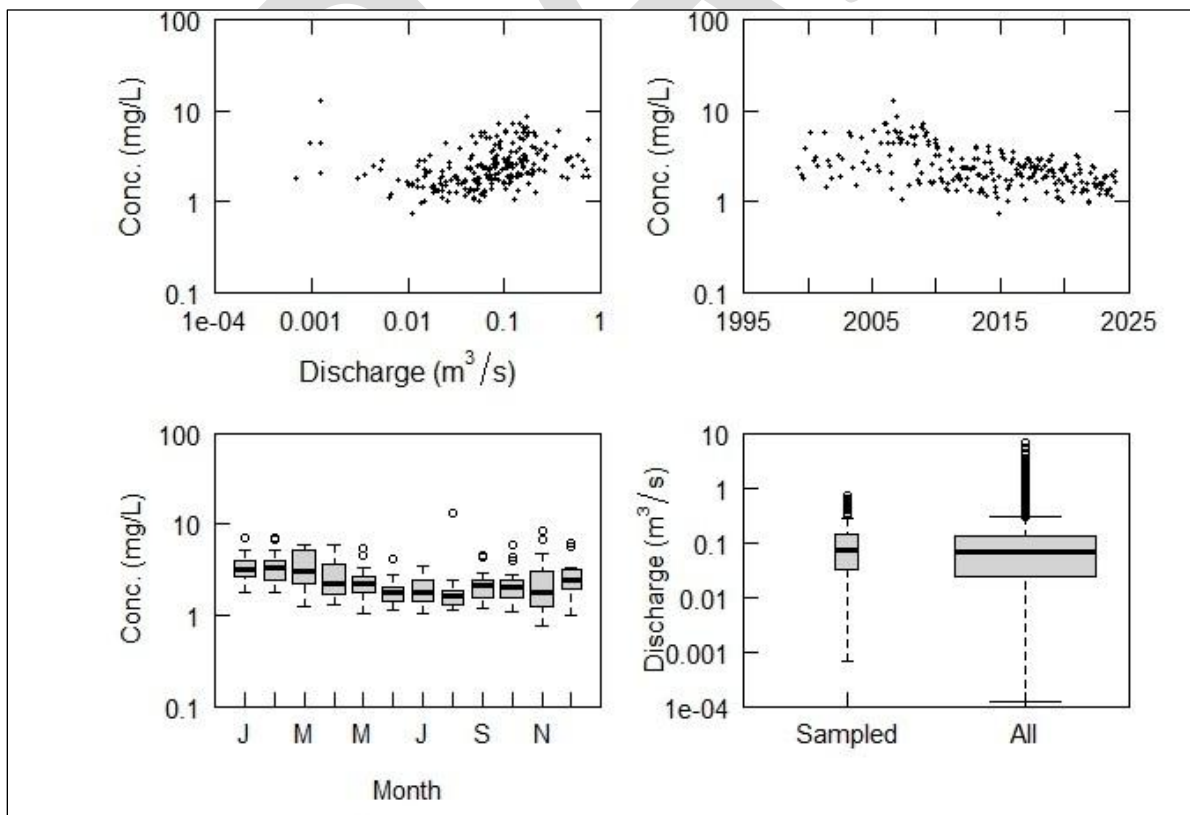


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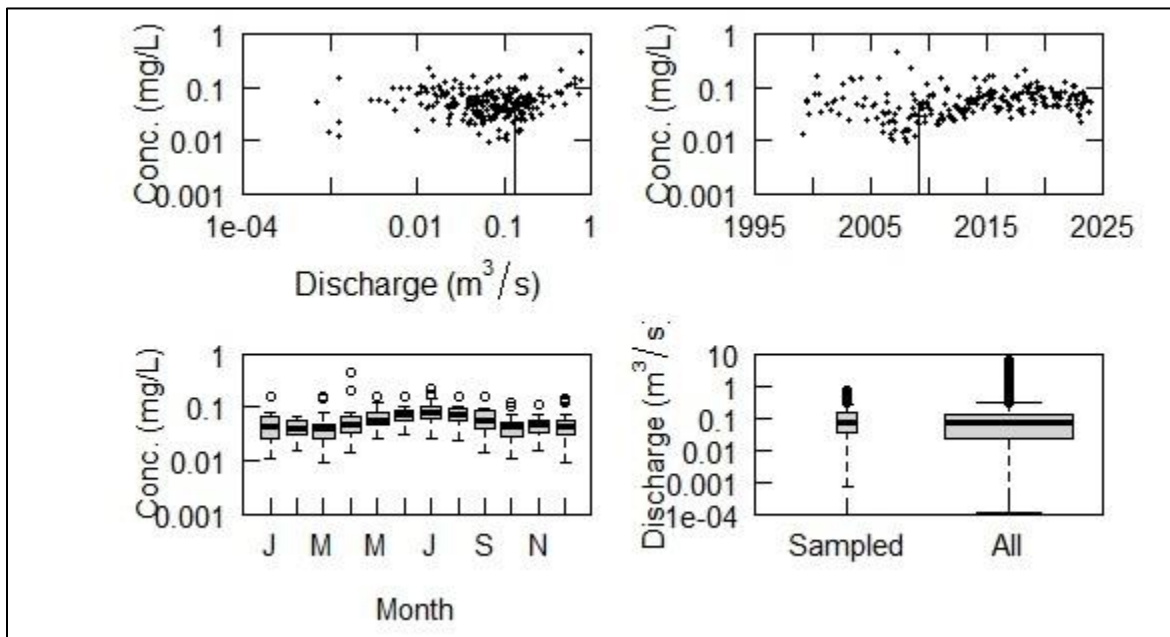


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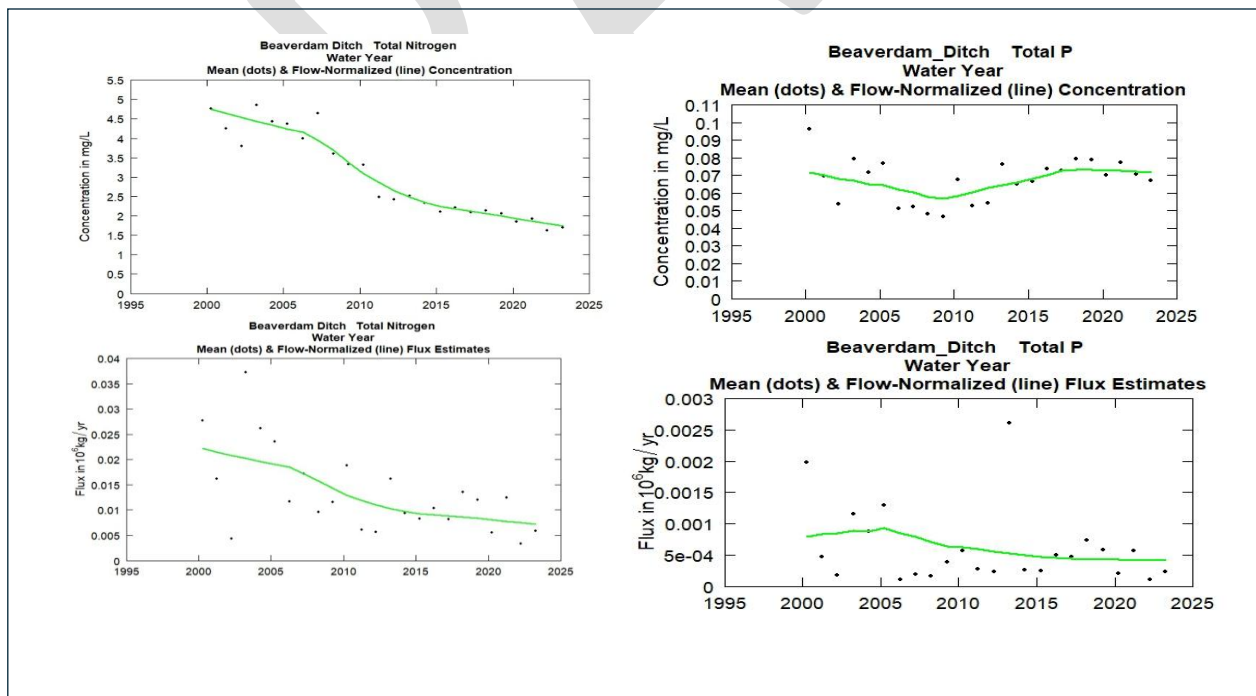


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## Appendix G: Indian River Bay Watershed Groundwater Assessment

DRAFT





DELAWARE DEPARTMENT OF  
**NATURAL RESOURCES AND  
ENVIRONMENTAL CONTROL**

**Re-assessment of water quality from potable wells in the  
surficial aquifer in the Indian River Bay watershed,  
Sussex County, Delaware: Results of sampling, 2024,  
with comparisons to previous sampling in 2001–2003**

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2025

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**Disclaimer**

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# **Re-assessment of water quality from potable wells in the surficial aquifer in the Indian River Bay watershed, Sussex County, Delaware: Results of sampling, 2024, with comparisons to previous sampling in 2001–2003**

*By June Hazewski*

## **Abstract**

This study reassessed groundwater quality within the surficial (Columbia) aquifer of the Indian River Bay Watershed (IRBW) in Sussex County, Delaware, through the resampling of domestic wells originally sampled between 2001 and 2003. Baseline water quality data from 255 wells reported by Kasper and Strohmeier (2007) provided the foundation for this effort, with 51 wells resampled in 2024 to evaluate current conditions and temporal trends spanning more than two decades. Laboratory analyses focused on nutrients, major ions, and related constituents, consistent with methods employed in the earlier study.

Groundwater in the IRBW remains generally dilute, slightly acidic, and dominated by calcium, magnesium, and sodium cations balanced by chloride, bicarbonate, and nitrate anions. Despite modest improvement, nitrate contamination persists: concentrations exceeded the U.S. Environmental Protection Agency's Primary Maximum Contaminant Level (10 mg/L) in 25.5% of wells in 2024 compared to 32% in 2001–2003. A statistically significant reduction in median nitrate concentrations was observed (Wilcoxon signed-rank  $p = 0.021$ ), indicating localized improvement but persistent nonpoint-source influence. Most samples were oxic, exhibited low iron concentrations, and reflected geochemical conditions shaped by both natural processes and anthropogenic inputs.

Findings from this resampling demonstrate that, while overall groundwater quality in the surficial aquifer has remained relatively stable over the last two decades, nutrient enrichment – particularly nitrate – continues to affect portions of the IRBW, primarily in areas dominated by agriculture or septic influence. These results provide critical long-term data for evaluating the effectiveness of nutrient management practices and for supporting ongoing efforts to protect groundwater resources and surface water quality in Delaware's Inland Bays region.

## **Introduction**

The Indian River Bay watershed (IRBW) located in Sussex County, Delaware (Figure 1), contains a coastal lagoon, tidal and non-tidal streams, and ponds enriched with nitrogen (N) and phosphorus (P) (Kasper and Strohmeier, 2007). In accordance with Section 303(d) of the Clean Water Act, the Department of Natural Resources and Environmental Control (DNREC) established Total Maximum Daily Loads (TMDLs) for nitrogen and phosphorus concentrations in the IRBW (7 DE Admin. Code 7407). These TMDLs address both point- and nonpoint-source discharges and are designed to restore and maintain surface water quality standards within the watershed. The nonpoint-source component of the TMDL mandates reductions of up to 85% for nitrogen and 65% for phosphorus (7 DE Admin. Code 7407), representing some of the most stringent nutrient load reductions implemented

statewide. This underscores the critical influence of groundwater discharge and overland flow on surface water impairments in the IRBW.

Previous investigations of groundwater quality in Delaware's Inland Bays region, which includes the IRBW, have documented elevated nitrate concentrations (Andres, 1991a,b; Denver, 1989, 1993; Fleming et al., 2017; Ritter and Chirnside, 1982, 1984; Robertson, 1977, 1979; Walch et al., 2023). The Delaware Center for the Inland Bays cited excessive (> 50% higher than the TMDL goal) phosphorus loading to the Indian River Bay (Walch et al., 2023).

To assess the status of groundwater quality in the IRBW, DNREC initiated a study from 2001 to 2003 that involved sampling wells completed in the Columbia aquifer - the unconfined (water-table) aquifer of Delaware's Coastal Plain (Andres, 1987; Talley, 1988). This effort, reported by Kasper and Strohmeier (2007), followed a gap of over 20 years since the last comprehensive groundwater assessment of the IRBW was completed. The study aimed to (i) characterize the current spatial distribution of major ions and nutrients (nitrate as N, ammonia as N, and phosphorus) in the Columbia aquifer and (ii) establish a well network for ongoing groundwater monitoring and trend analysis.

This report details the results of a 2024 resampling campaign designed to reassess groundwater quality within the IRBW. The study area is contextualized by detailed land use characterization, hydrogeologic framework delineation, and groundwater recharge potential mapping (Andres, 2004; Andres, 1991c). The well selection criteria, sampling protocols, analytical methodologies, and quality assurance/quality control (QA/QC) procedures are described within the Methods of Study section. Data are presented in tabular format with appropriate qualifiers, and a

comprehensive statistical summary is provided. Data are evaluated against U.S. EPA standards for potable water (U.S. EPA, 2024).

Geochemical interpretations of major-ion assemblages are framed in relation to established hydrogeochemical models and prior regional studies (Andres, 1991a; Denver, 1986, 1989, 1993; Hamilton et al., 1993; Soroka et al., 2024). Spatial distributions of nitrate and phosphorus are analyzed in the context of redox conditions, lithologic controls, and recharge dynamics (Andres et al., 2002). Finally, temporal trend analyses compare the 2024 dataset with the findings of Kasper and Strohmeier (2007) to identify statistically significant changes in groundwater quality parameters over the intervening two decades.

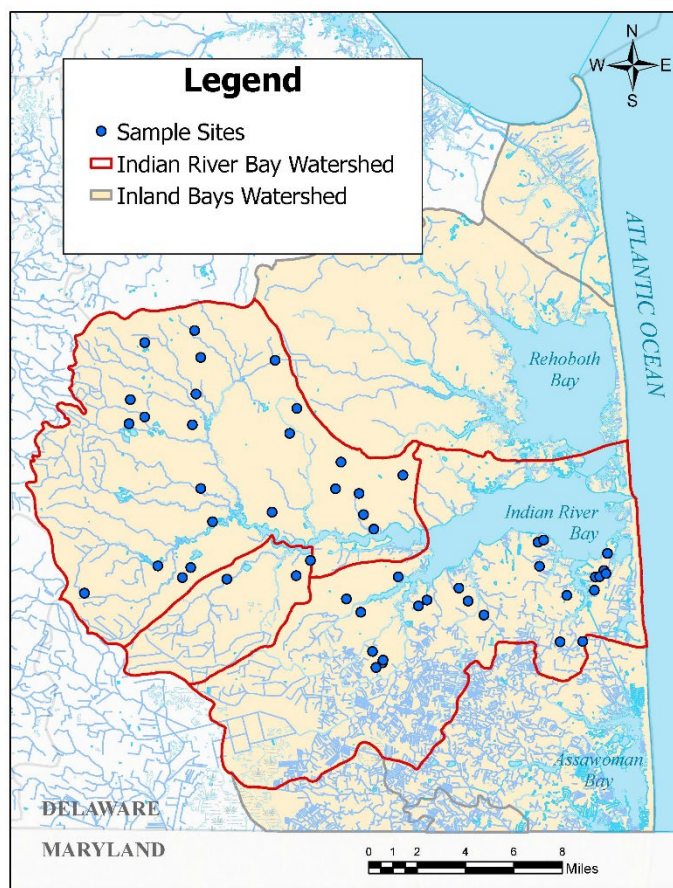


**Figure 1.** Map of the Indian River Bay Watershed (IRBW) including sampling locations.

## Purpose and Scope

The Coastal Plain Physiographic Province covers about 96% of Delaware and contains a regional surficial aquifer long recognized as one of the state's most vital groundwater resources (Johnston, 1973). This aquifer provides a major source of potable water, recharges deeper confined aquifers, and sustains baseflow to streams (Denver et al., 2004). Most domestic wells in Delaware's Coastal Plain are screened within the surficial aquifer, and many public water suppliers also rely on it where saturated thickness permits (Shedlock et al., 1993). Consequently, the quantity and quality of groundwater in this aquifer have substantial public health, environmental, and economic implications.

Protecting the surficial aquifer is challenging due to its high vulnerability to contamination, attributable to flat regional topography, well-drained soils, a shallow water table, and predominantly sandy lithology (Denver et al., 2004). Among anthropogenic contaminants, nitrate is the most pervasive regionally (Denver et al., 2014; Hallberg and Keeney, 1993). Nitrate presence is redox-dependent, persisting under oxidizing conditions (dissolved oxygen > 1 mg/L) and typically absent or reduced to ammonium under anoxic conditions (Denver et al., 2004). According to the U.S. EPA (2024), nitrate concentrations exceeding 10 mg/L (as N) in drinking water pose a public health risk due to methemoglobinemia ("blue-baby syndrome") in infants under six months (U.S. EPA, 2024). This Maximum Contaminant Level (MCL) applies to public water supplies; however, monitoring private (domestic) wells is generally done at the discretion of the well owner. Watershed-scale studies in Delaware have reported nitrate concentrations above the MCL in 36–38% of samples from domestic wells screened in the surficial aquifer (Kasper, 2023; Kasper and Strohmeier, 2007).

The interactions between groundwater and surface water are significant in this region because many Coastal Plain streams incise the sandy geologic units containing the surficial aquifer, resulting in hydraulic connectivity to the groundwater flow system. Groundwater discharge to streams can constitute up to 80% of total streamflow (Johnston, 1976), meaning that degraded groundwater quality directly impacts surface water quality.

TMDLs have been established for several Delaware watersheds to address nutrient inputs from point and nonpoint sources, with groundwater-derived nitrate being a major nonpoint contributor. Because the IRBW TMDL requires some of the most substantial nitrogen load reductions statewide (7 DE Admin. Code 7407), long-term groundwater monitoring is critical for evaluating progress.

In alignment with the goal of long-term monitoring, this study had four primary objectives: (i) reassess water quality from potable wells screened in the surficial aquifer within the IRBW; (ii) document the spatial distribution of nitrate and major ions; (iii) evaluate temporal trends by comparing current data with the 2001–2003 dataset of Kasper and Strohmeier (2007); and (iv) investigate nitrate sources using geochemical approaches. The scope of this study is confined to sampling existing private potable wells, with success contingent on access granted by well owners.

Findings presented in this report provide critical, updated information on groundwater quality, and help to evaluate the effectiveness of nitrate-reducing best management practices (BMPs). Finally, as delineated in grant reporting to U.S. EPA Region III, the DNREC's Division of Water is working to establish a new statewide framework for systematically characterizing spatial, temporal, and aquifer-specific trends in ambient groundwater quality, and this project supports these broader efforts.



## Previous Work

Between 2001 and 2003, the Delaware Department of Natural Resources and Environmental Control (DNREC) Division of Water conducted a comprehensive assessment of groundwater quality in the surficial aquifer within the Indian River Bay Watershed (IRBW) (Kasper and Strohmeier, 2007). Findings from this study established a large-scale baseline for groundwater quality in the IRBW. The original sampling network consisted of 255 wells - 200 domestic, 22 public-supply, 14 monitoring, 12 agricultural, and 7 commercial wells - selected to capture a range of land use and hydrogeologic settings (Kasper and Strohmeier, 2007).

A primary objective of the 2001–2003 investigation was to characterize the occurrence and spatial distribution of nitrate as nitrogen (hereafter “nitrate”) in the surficial aquifer. Nitrate ultimately emerged as the most significant groundwater quality concern in the IRBW, with concentrations ranging from below the method detection limit to 43 mg/L and a median of 6.41 mg/L (Kasper and Strohmeier, 2007). Approximately one-third of samples exceeded the U.S. Environmental Protection Agency's Maximum Contaminant Level (MCL) of 10 mg/L for nitrate in drinking water (Kasper and Strohmeier, 2007). Geochemical evidence suggested that elevated nitrate concentrations were predominantly associated with agricultural sources, consistent with regional land use patterns (Kasper and Strohmeier, 2007).

Because nitrate is a redox-sensitive constituent, concentrations were evaluated in conjunction with dissolved oxygen (DO) levels. The study area encompassed both oxidizing conditions ( $\text{DO} > 1$  mg/L), which favor nitrification and nitrate stability, and reducing conditions ( $\text{DO} < 1$  mg/L), under which nitrate may be denitrified or reduced to ammonia (Denver et al., 2004). These findings highlighted the role of redox gradients in controlling nutrient speciation.

In contrast, phosphorus (P) concentrations were generally low across the study area. Elevated phosphorus was primarily associated with reducing (anoxic) conditions and was most prevalent in areas where the surficial aquifer is locally confined by fine-grained units such as the Cypress Swamp and Omar formations (Andres, 1991a). These conditions suggest that elevated phosphorus may be derived from natural sources and mobilized under low redox potential (Kasper and Strohmeier, 2007).

The persistence of elevated nitrate concentrations, variable redox conditions across the study area, and the potential for phosphorus mobilization under confined, anoxic conditions highlight the complexity of nutrient dynamics in the surficial aquifer system.

Beyond nutrients, Kasper and Strohmeier (2007) also reported that most major ions remained at relatively low concentrations compared to U.S. EPA secondary standards. Iron was frequently detected under anoxic conditions, whereas chloride and sodium concentrations were highest near coastal portions of the study area, suggesting possible saltwater intrusion or other anthropogenic influence (Kasper and Strohmeier, 2007).

Collectively, the results of the 2001–2003 study provide an essential baseline for understanding groundwater quality in the IRBW. However, changing land use, agricultural practices, and nutrient management methods over the past two decades, paired with the susceptibility of unconfined aquifers to contamination, underscored the need for a reassessment.

## Acknowledgements

Special thanks are extended to the residents of the Indian River Bay Watershed who generously provided access to their properties for the collection of groundwater samples.

Emilee Brooks, working as a DNREC intern, assisted with the collection of all samples for this project. Analytical support was provided by staff from DNREC's Environmental Laboratory Section (ELS). Carter Chambers is acknowledged for preparing all maps included in this report.

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## Description of Study Area

### Watershed Characteristics

The Indian River Bay Watershed (IRBW) encompasses approximately 188 square miles in southeastern Sussex County, Delaware (Figure 1). Land-surface elevations range from near mean sea level to about 50 feet above mean sea level. The watershed's hydrology is characterized by a network of tidal and non-tidal streams that incise the surficial aquifer, along with several millponds and an extensive drainage ditch system. The IRBW is tidally influenced by Rehoboth Bay to the north, Little Assawoman Bay to the south, and the Atlantic Ocean to the east, establishing a dynamic hydrologic interface between groundwater and surface water systems. The region has a humid climate with average annual precipitation of roughly 46 inches (NOAA, 2025), about 33% of which recharges the surficial aquifer (DNREC, 2001).

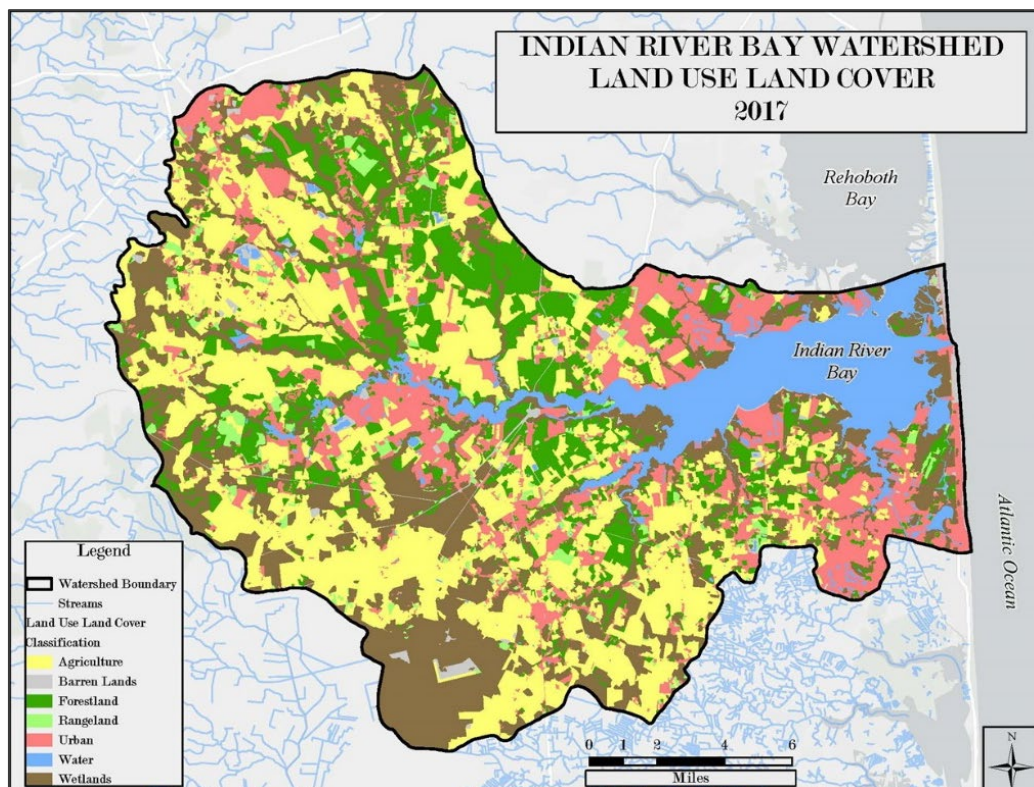


**Figure 2.** Map of the IRBW showing 2017 land use data. Sourced from Delaware's Land Use and Land Cover [LULC] spatial dataset (Aerial Information Systems, 2023).

Land use patterns have shifted over recent decades, influencing hydrologic and water quality conditions. Based on 1997 land-use data as referenced in the 2007 report by Kasper and Strohmeier, agriculture was the predominant land use type, occupying about 37% of the watershed area (DOSPC, 1999). Wetlands and forested lands combined to make up 38%, with the remaining land consisting of urban areas (13%), open water bodies (9%), range land (2%), and barren land (<1%) (DOSPC, 1999).

By 2017, agricultural land had declined by 5%, wetlands and forested areas decreased by 3% combined, and urban areas increased by 6% (Figures 2 and 3; Table 1) (Aerial Information Systems, 2023). These land use changes since the 2001–2003 sampling effort represent one potential impact on groundwater conditions within the IRBW.

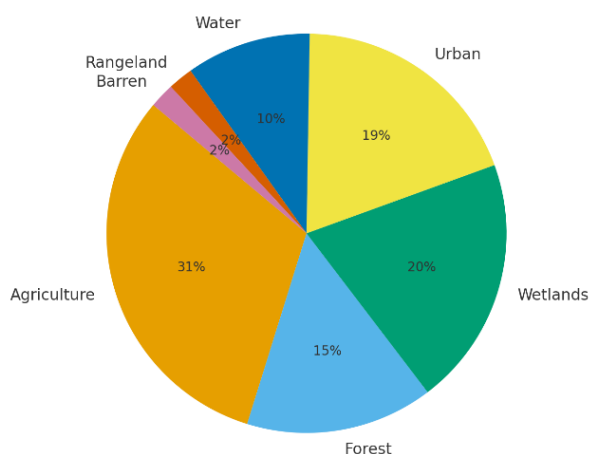


**Figure 3.** Land use in the Indian River Bay Watershed based on 2017 data.

**Table 1.** Comparison of Land Use in the IRBW between 1997 and 2017.

|                         | 1997(%) | 2017(%) | Change(%) |
|-------------------------|---------|---------|-----------|
| <b>Agriculture</b>      | 37      | 32      | -5        |
| <b>Forest</b>           | 22      | 15      | -7        |
| <b>Wetland</b>          | 16      | 20      | +4        |
| <b>Forest + Wetland</b> | 38      | 35      | -3        |
| <b>Urban</b>            | 13      | 19      | +6        |
| <b>Water</b>            | 9       | 10      | +1        |
| <b>Rangeland</b>        | 2       | 2       | 0         |
| <b>Barren</b>           | 1       | 2       | +1        |

## Surficial Hydrogeologic Framework

The study area lies within the Atlantic Coastal Plain Physiographic Province, which consists of a seaward-dipping wedge of unconsolidated to semi-consolidated sedimentary deposits overlying crystalline basement rocks (Andres, 1987; Talley, 1988). Near-surface sediments of this province form the Columbia aquifer, a regionally significant unconfined aquifer system with high hydraulic conductivity that serves as a primary source of potable water in Delaware (Andres, 1987; Talley, 1988 ; Andres and Klingbeil, 2006). Within the IRBW, the Columbia aquifer comprises a lithologically-complex assemblage of Quaternary and Neogene lithostratigraphic units, including Holocene alluvial and estuarine deposits, the Pleistocene- to Holocene-age Cypress Swamp Formation, the Pleistocene-age Lynch Heights, Scotts Corners, and Omar Formations, the Pliocene-age Beaverdam Formation, and the upper Miocene-age Bethany Formation (Andres and Howard, 2000; Ramsey, 2001; Andres et al., 2003).

The upper surficial portion of the Columbia aquifer consists of late Pleistocene to Holocene formations – Omar, Lynch Heights, Scotts Corners, and Cypress Swamp - composed primarily of heterogeneous mixtures of sand, silt, and clay (Andres and Howard, 2000; Ramsey, 2001; Andres et al., 2003). These units are typically thin across the study area and are considered minor components of the aquifer system in terms of total saturated thickness. However, discontinuous fine-grained beds within these formations may function as leaky confining units, particularly in low-lying areas, strongly influencing unsaturated zone flow dynamics and recharge variability (Andres, 1991a).

The Beaverdam Formation and Bethany Formation subcrop the surficial units and serve as the subsurface portion of the Columbia aquifer (Ramsey and Schenck, 1990). The Beaverdam Formation forms the primary water-

bearing unit in much of the study area, constituting the bulk of the aquifer's saturated thickness. This formation consists predominantly of medium to coarse sand with variable quantities of gravel, fine sand, silt, and clay occurring in discontinuous lenses and interbedded layers (Andres, 1991a). The underlying Bethany Formation is predominantly composed of silt with interbedded fine to coarse sands (Ramsey and Schenck, 1990). In areas where confining beds are present within the Bethany Formation, they define the hydrostratigraphic base of the Columbia aquifer; where these confining layers are absent or discontinuous, the sands of the Bethany Formation may be hydraulically connected to those of the overlying Beaverdam Formation, forming a locally thick, laterally extensive unconfined aquifer (Andres, 1987; Talley, 1988).

The thickness of the Columbia aquifer varies across eastern Sussex County, ranging from approximately 75 feet to over 200 feet, depending on topographic position, stratigraphic layering, and the extent of incision by paleochannels or modern fluvial systems (Andres, 1987; Talley, 1988). The geologic units containing the surficial aquifer system also exhibit considerable thickness variability, ranging from less than 20 feet in thin zones to over 220 feet in some areas based on mapping by Andres and Klingbeil (2006). The thickest sections correlate with sand-on-sand contacts between the surficial aquifer and the underlying Pocomoke aquifer, where these formations effectively function as a single unconfined hydrogeologic unit. Conversely, thin aquifer zones correspond with the "surficial confined" hydrogeomorphic region described by Shedlock et al. (1993, 1999), where a shallow water table aquifer and a deeper confined aquifer are separated by confining layers of the Omar and Cypress Swamp formations (Andres and Klingbeil, 2006). These formations are dominated by fine-grained sediments such as silts and clays, which reduce vertical hydraulic conductivity and

create semi-permeable barriers. These confining beds are spatially correlated with areas of poor drainage and an extensive ditch network, indicating impeded natural recharge and enhanced surface water runoff (Andres, 2004). The spatial distribution and thickness of these confining units strongly influence groundwater flow paths, recharge rates, and the potential for contaminant transport within the surficial aquifer system.

Groundwater recharge potential in Kent and Sussex Counties was mapped using subsurface observations and hydraulic testing to assess the water-transmitting properties of the shallow subsurface (Andres, 1991c; 2004). The resulting recharge potential maps indicate that within the IRBW, 40% of the land area is classified as having "fair" recharge potential, 33% as "good," 21% as "poor," and 6% as "excellent" (Andres et al., 2002). Extensive areas of "fair" and "poor" recharge potential, particularly in the southern portion of the study area, coincide with fine-grained, low-permeability deposits of the Cypress Swamp and Omar Formations, which limit vertical infiltration and contribute to spatial variability in groundwater recharge and contaminant transport (Andres, 2004).

Hydraulic head measurements and groundwater flow modeling indicate a predominant south-to-north hydraulic gradient, with groundwater discharging into tidal streams and coastal bays (He and Andres, 2015). Cross-sectional profiles further illustrate groundwater-surface water interactions along incised stream valleys, where the surficial aquifer is hydraulically connected to surface water bodies. This connection facilitates substantial baseflow contributions to streamflow, which have been reported to account for as much as 80% of total stream discharge in some areas (Johnston, 1976).



## Methods of Study

### Well Network

Groundwater samples were collected from a randomly selected subset of domestic wells previously sampled during Kasper and Strohmeier's 2001–2003 sampling effort. A total of 51 domestic wells were sampled, exceeding the minimum sample size of 30 recommended by Gilliom et al. (1995) for regional groundwater quality assessments and land-use impact studies. Wells were selected from Kasper and Strohmeier's (2007) dataset using well type and nitrate concentration as selection criteria. The scope of this study was limited to domestic wells, with nitrate concentrations indicative of anthropogenic influence, defined as nitrate (as nitrogen) levels  $> 1$  mg/L (Dubrovsky et al., 2010). Of the 255 wells in the original network, 162 wells met these criteria (Figure 4).

Random numbers were generated using Microsoft Excel's "RAND()" function and applied to each record. The dataset was then sorted in ascending order by the random numbers, and wells were subsequently numbered 1 through 162. The top 50 wells on this sorted list were designated as preliminary sampling sites for this study.

Once this list was established, well owners were contacted to request access for groundwater sampling. Because access to private wells was voluntary, the final sampling network depended on homeowner participation. When permission to sample a randomly selected well was unobtainable, a nearby well from the list was substituted to maintain sample size and spatial coverage. This approach preserved scientific integrity and allowed for logistical feasibility. Figure 1 shows the locations of all wells sampled during this study.

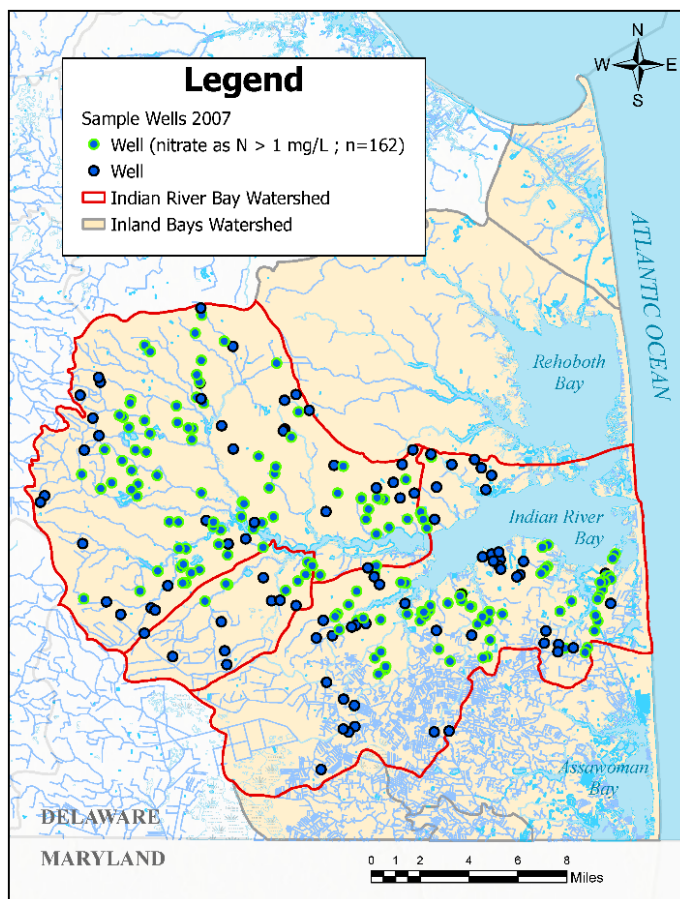


**Figure 4.** Map of the IRBW showing the well network of Kasper and Strohmeier (2007) and the subset of domestic wells with nitrate concentrations  $> 1$  mg/L.

### Groundwater Sampling Procedure

Groundwater sampling was conducted in July and August of 2024, following the Quality Assurance Project Plan (QAPP) developed for the 2001–2003 sampling effort (Kasper and McCleary, 2001). Groundwater samples were collected from existing potable domestic wells at a raw-water spigot prior to any water treatment system. When water treatment systems were present, a pre-treatment water spigot was used to obtain untreated groundwater.

Wells were purged before sampling to evacuate stagnant water from the plumbing system and bladder tank, ensuring the collection of groundwater samples representative of in-situ aquifer conditions. During well purging, field

**Table 2.** Project analytes, analytical methods, and related information.

[Analytical methods, containers, preservation methods, and holding times are from EPA (2001); **CaCO<sub>3</sub>**, calcium carbonate; **N**, nitrogen; **SiO<sub>2</sub>**, silicon dioxide; **P**, polyethylene; **G**, glass; **°C**, degrees Celsius; **H<sub>2</sub>SO<sub>4</sub>**, sulfuric acid; **HNO<sub>3</sub>**, nitric acid]

| Analyte                         | Analytical method | Container | Preservation                                      | Holding time |
|---------------------------------|-------------------|-----------|---------------------------------------------------|--------------|
| Alkalinity as CaCO <sub>3</sub> | 2320              | P, G      | Cool, 4°C                                         | 14 days      |
| Chloride                        | 4500              | P, G      | None required                                     | 28 days      |
| Ammonia as nitrogen             | 350.1             | P, G      | Cool, 4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2 | 28 days      |
| Nitrate+nitrite as nitrogen     | 353.2             | P, G      | Cool, 4°C                                         | 48 hours     |
| Phosphorus                      | 4500              | P, G      | Cool, 4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2 | 28 days      |
| Silica as SiO <sub>2</sub>      | 4500              | P         | Cool, 4°C                                         | 28 days      |
| Sulfate                         | 375.4             | P, G      | Cool, 4°C                                         | 28 days      |
| Calcium                         | 200.7             | P, G      | HNO <sub>3</sub> to pH<2                          | 6 months     |
| Iron                            | 200.7             | P, G      | HNO <sub>3</sub> to pH<2                          | 6 months     |
| Magnesium                       | 200.7             | P, G      | HNO <sub>3</sub> to pH<2                          | 6 months     |
| Potassium                       | 200.7             | P, G      | HNO <sub>3</sub> to pH<2                          | 6 months     |
| Sodium                          | 200.7             | P, G      | HNO <sub>3</sub> to pH<2                          | 6 months     |

parameters - temperature, pH, dissolved oxygen (DO), and specific electrical conductance (SEC) - were measured using an In-Situ Aqua TROLL 600 Multiparameter Sonde. Field measurements were deemed stable when they met the following criteria: temperature  $\pm 0.2^{\circ}\text{C}$ , pH  $\pm 0.1$  S.U., DO  $\pm 0.3$  mg/L, and SEC  $\pm 3\%$  when  $>100 \mu\text{S/cm}$ . Stabilized field data for each well are provided in Appendix 1.

At each site, sampling equipment was flushed with raw groundwater prior to sample collection. Groundwater samples for laboratory analysis were filtered in the field using 45- $\mu\text{m}$  pore-size capsules and stored in laboratory-prepared Nalgene sample bottles. Samples for cation analysis ( $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{Na}^{+}$ ,  $\text{K}^{+}$ ,  $\text{Fe}^{2+}/\text{Fe}^{3+}$ ) were preserved with nitric acid ( $\text{HNO}_3$ ); samples for phosphorus (P) and ammonia ( $\text{NH}_3$  as N) analysis were preserved with sulfuric acid ( $\text{H}_2\text{SO}_4$ ); and samples for nitrate plus nitrite ( $\text{NO}_3^{-} + \text{NO}_2^{-}$  as

N), chloride ( $\text{Cl}^{-}$ ), silica ( $\text{SiO}_2$ ), sulfate ( $\text{SO}_4^{2-}$ ), and alkalinity ( $\text{CaCO}_3$ ) contained no preservatives (Table 2). Immediately after collection, samples were placed in iced coolers with a temperature blank and were delivered to the DNREC Environmental Laboratory Section on the day of collection. Field logs documenting sampling activities are maintained on file and available upon request.

### Laboratory Analyses

Laboratory analyses were performed by the DNREC's Environmental Laboratory Section (ELS) located in Dover, DE. Project analytes and the respective analytical methods used by the ELS are summarized in Table 2.

## Quality Assurance and Quality Control

Project-specific quality assurance (QA) procedures and quality control (QC) measures were based on the Quality Assurance Project Plan (QAPP) utilized in the original 2001–2003 study (Kasper and McCleary, 2001). In addition, the ELS operated under a Quality Assurance Management Plan (QAMP; McCleary, 1999) to guide all analytical activities. Laboratory QC analyses conducted alongside field samples included method blanks, laboratory duplicates, and spiked duplicates, with all results compared against established acceptance criteria. Detection and quantitation limits were defined for each analyte, and laboratory QC reports are maintained on file at DNREC and are available for inspection upon request.

Field QA procedures included standardized sample collection and handling protocols, maintenance of a documented chain of custody, and frequent calibration of water-quality meters used to collect field data. Although field duplicates were not collected during this study, precision was supported through consistent sampling protocols, stable field instrument performance, and extensive laboratory QC procedures.

All data underwent review and validation to ensure consistency with QA/QC requirements before inclusion in this report. While the absence of field duplicates limits direct assessment of sampling precision, the combination of field standardization and laboratory QC measures provides confidence that the dataset is reliable and directly comparable to the 2001–2003 results.

## Data Analysis

Where applicable, analytical results were compared to U.S. Environmental Protection Agency (EPA) Primary Maximum Contaminant Levels (PMCLs) (U.S. EPA, 2024), Secondary Maximum Contaminant Levels (SMCLs) (40 CFR

§143.3), and Health Advisories (HAs) established for public water-supply systems (U.S. EPA, 2018). PMCLs are enforceable standards, whereas SMCLs and HAs are non-enforceable guidelines intended to protect aesthetic and health-related qualities of drinking water (U.S. EPA, 2024). Concentrations of hardness (as calcium carbonate,  $\text{CaCO}_3$ ) were evaluated with respect to the U.S. Geological Survey (USGS) water hardness scale (2018). Because no drinking water standard exists for phosphorus, results were evaluated with respect to the U.S. EPA's (2008) recommended threshold for preventing excessive plant growth in streams (0.1 mg/L). Dissolved oxygen (DO) concentrations were used as an indicator to differentiate between oxidizing conditions ( $\text{DO} \geq 1$  mg/L) and reducing conditions ( $\text{DO} < 1$  mg/L) following Denver et al. (2004).

Major-ion chemistry of shallow groundwater was characterized using Piper (1944) diagrams, which plot major cations and anions on two ternary diagrams and project them onto a central diamond-shaped field to facilitate interpretation of geochemical trends, groupings, and hydrogeochemical facies (Alley, 1993). For this study, concentrations of major cations and anions were converted to milliequivalents per liter (meq/L) and expressed as percentages of total meq/L. Only samples with complete chemical analyses were included. Piper diagrams were constructed in Microsoft Excel using an analytical template designed by Stosch (2025).

Spatial patterns were evaluated using thematic maps of selected water quality parameters. Graphical analyses included scatter plots, frequency histograms, and percentile diagrams. Scatter plots were used to examine correlations and potential trends among variables. Frequency histograms characterized the distribution of individual parameters, while percentile diagrams evaluated variability in parameter concentrations with respect to factors such as sample depth.

Hardness (in mg/L) is the only calculated parameter included in this report, and was computed following Hounslow (1995) as:

Hardness =

$$\left( \text{Ca (mg/L)} \times \left( \frac{\text{MW CaCO}_3}{\text{AW Ca}} \right) \right) + \left( \text{Mg (mg/L)} \times \left( \frac{\text{MW CaCO}_3}{\text{AW Mg}} \right) \right)$$

where MW CaCO<sub>3</sub> is the molecular weight of calcium carbonate (100.088), AW Ca is the atomic weight of calcium (40.08), and AW Mg is the atomic weight of magnesium (24.312) (Hounslow, 1995). Hardness concentrations were calculated to evaluate general groundwater characteristics and, therefore, are not included in Appendix 1.

## Results and Discussion

Results are presented in four sections: (i) general groundwater quality, (ii) major-ion chemistry, (iii) nutrient results, and (iv) temporal comparison of groundwater quality. Table 3 presents the summary statistics for all field measurements, nutrients, and major-ion constituents from the 51 wells sampled in 2024. Minimum, 25<sup>th</sup> percentile, 50<sup>th</sup> percentile (median), 75<sup>th</sup> percentile, and maximum values are reported. Values below the method detection limit were treated as zeroes in these calculations, following the methodology of Kasper and Strohmeier (2007). Such entries are denoted with an 'E' to indicate an estimated concentration.

### General Groundwater Quality

Groundwater in the Columbia aquifer in the IRBW is generally dilute. The median total dissolved solids (TDS) concentration was 80 mg/L (range: 30–640 mg/L) (Table 3). Only two samples (≈4%) exceeded the U.S. EPA secondary maximum contaminant level (SMCL) of 500 mg/L.

Specific electrical conductance (SEC) was measured in the field during well sampling and ranged from 46.39 to 989.3 microsiemens per centimeter (μS/cm) (median: 120.14 μS/cm) (Table 3). SEC values display a strong positive correlation with TDS concentration ( $R^2 = 0.9992$ ), where SEC increases along with increasing TDS (Figure 7a). SEC also displays a weak positive correlation with nitrate concentration ( $R^2 = 0.1436$ ) (Figure 7b). Figure 7b reflects the removal of two anomalous high SEC values (989.3 μS/cm and 783.83 μS/cm).

The median field pH was 5.185 standard units (S.U.), which falls below the SMCL range (6.5–8.5) (Table 3). A total of 49 (≈96%) samples had pH values below 6.5, indicating slightly acidic conditions within the IRBW.

Dissolved oxygen (DO) concentrations indicated predominantly oxidizing conditions in the IRBW, with a median of 5.6 mg/L. Measurements taken at 49 (≈96%) of the well sites showed DO levels greater than or equal to 1 mg/L, which is the general threshold between oxidizing (oxic) and reducing (anoxic) conditions (Denver et al., 2004). DO is a key control on redox-sensitive constituents in groundwater, such as nitrogen and iron (Denver, 1989). These oxic conditions are consistent with low concentrations of iron observed in the dataset.

Low iron concentrations are common in oxidizing conditions, when DO levels are elevated. Iron was detected above the method detection limit in only one sample (≈2%) (111327; 35.1 μg/L), and this detection was well below the SMCL of 300 μg/L. Iron concentrations were below the method detection limit in the remaining 50 samples (≈98%), consistent with the generally oxic conditions observed in field-measured DO values.

Nitrate is the only analyte in this study with a PMCL (10 mg/L). Laboratory results are reported as nitrate + nitrite as nitrogen; however, because



nitrite concentrations are generally negligible, values are assumed to represent nitrate. According to the U.S. EPA (2024), consumption of water exceeding the nitrate PMCL poses health risks to infants, including methemoglobinemia (“blue-baby syndrome”), which can be fatal if untreated. Epidemiological studies have also suggested potential associations between nitrate exposure and increased risk of certain cancers, including bladder and ovarian cancers (Weyer et al., 2001) and non-Hodgkin’s lymphoma (Ward et al., 1996). Nitrate was detected in all 51 samples (100%) and exceeded the PMCL in 13 (≈25.5%) samples, the locations of which are shown in Figure 5. Significant nitrate detections were expected in this study, as only wells with previous nitrate concentrations > 1 mg/L were considered for resampling. As such, the median nitrate concentration was 6.02 mg/L, and the mean was 8.09 mg/L (Table 3). Nitrate shared a weak positive correlation with SEC ( $R^2 = 0.1436$ ) (Figure 7b), a moderately positive relationship with Calcium + Magnesium ( $R^2 = 0.4029$ ) (Figure 7c), and a statistically insignificant, very weakly positive, correlation with Potassium + Chloride ( $R^2 = 0.0015$ ) (Figure 7d). In general, positive correlations between these groundwater constituents are consistent with agricultural land use (Clune and Denver, 2012). Specifically, Calcium + Magnesium has been associated with lime applied to agricultural fields to buffer the pH of acidic soils, and Potassium + Chloride from potash, which is often applied to increase the availability of potassium (Clune and Denver, 2012; Denver, 1986).

Chloride concentrations exceeded the SMCL of 250 mg/L in one sample (≈2%), collected from domestic well 163704. In addition to a chloride concentration of 409 mg/L, this sample also returned the highest sodium (165,000 µg/L), magnesium (32300 µg/L), and TDS (640 mg/L) concentrations in this study. This well is located in a residential area bordering Indian River Bay, and these elevated concentrations are consistent

with possible saltwater intrusion. The median chloride concentration was 20 mg/L, and the mean was 38 mg/L.

Sodium concentrations exceeded the HA (20,000 µg/L) in 12 samples (≈23.5%), the locations of which are shown in Figure 6. The median sodium concentration was 13,300 µg/L. Elevated sodium may be consistent with possible influence from septic-system effluent (Denver, 1989) or poultry manure applied to agricultural fields (Denver, 1986).

Sulfate concentrations were below both the SMCL (250 mg/L) and the HA level (500 mg/L) in all samples (100%). Sulfate concentrations ranged from non-detect to 98.5 mg/L, with a median of 8.1 mg/L and a mean of 10.53 mg/L. The highest concentration was observed in well 4387, which also showed elevated chloride (244 mg/L), nitrate (21.3 mg/L), and potassium (21,200 µg/L). These co-occurring elevated concentrations are consistent with possible influence from large-scale fertilizer application in nearby agricultural fields.

With respect to the USGS (2018) water hardness scale, 41 samples (80.4%) were classified as “soft” (< 60 mg/L), 8 samples (15.6%) as “moderately hard” (61–120 mg/L), one sample (≈2%) as “hard” (121–180 mg/L), and one sample (≈2%) as “very hard” (> 180 mg/L). The two samples exceeding 120 mg/L, collected from wells 4387 and 163704, also exhibited elevated chloride (244 mg/L and 409 mg/L) and TDS (510 mg/L and 640 mg/L), and were screened at intermediate depths (60 ft and 59 ft bgs, respectively). Overall, higher hardness in this study was associated with elevated TDS, chloride, sodium, and sulfate.

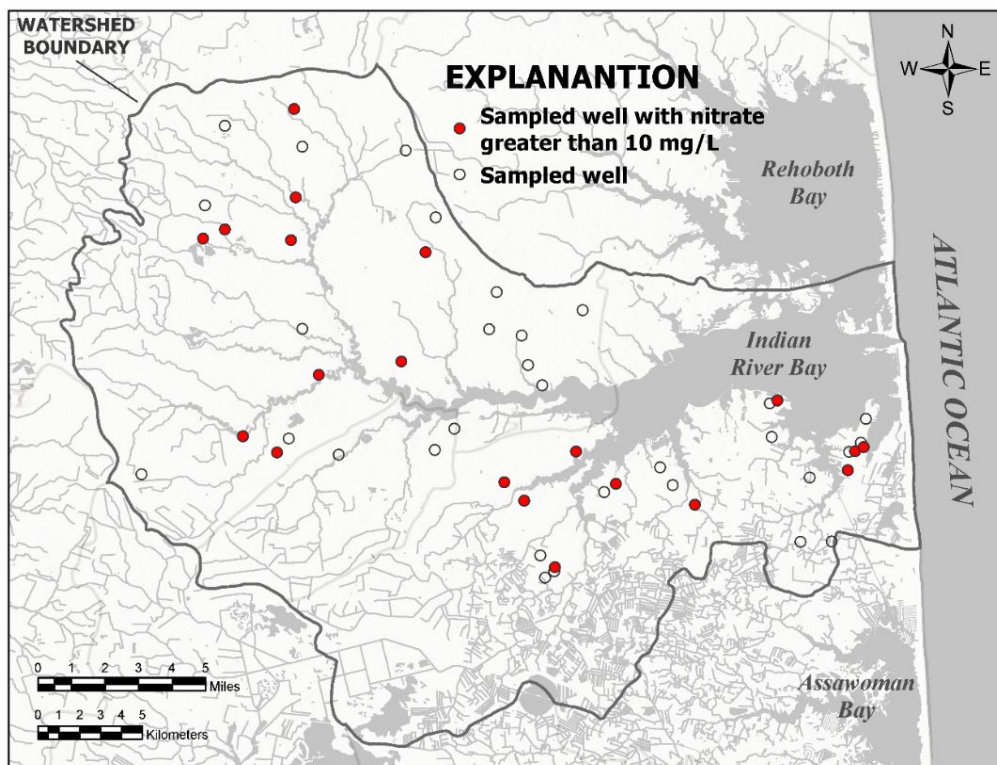


**Figure 5.** Map of resampled wells with nitrate concentrations above the PMCL (10 mg/L).

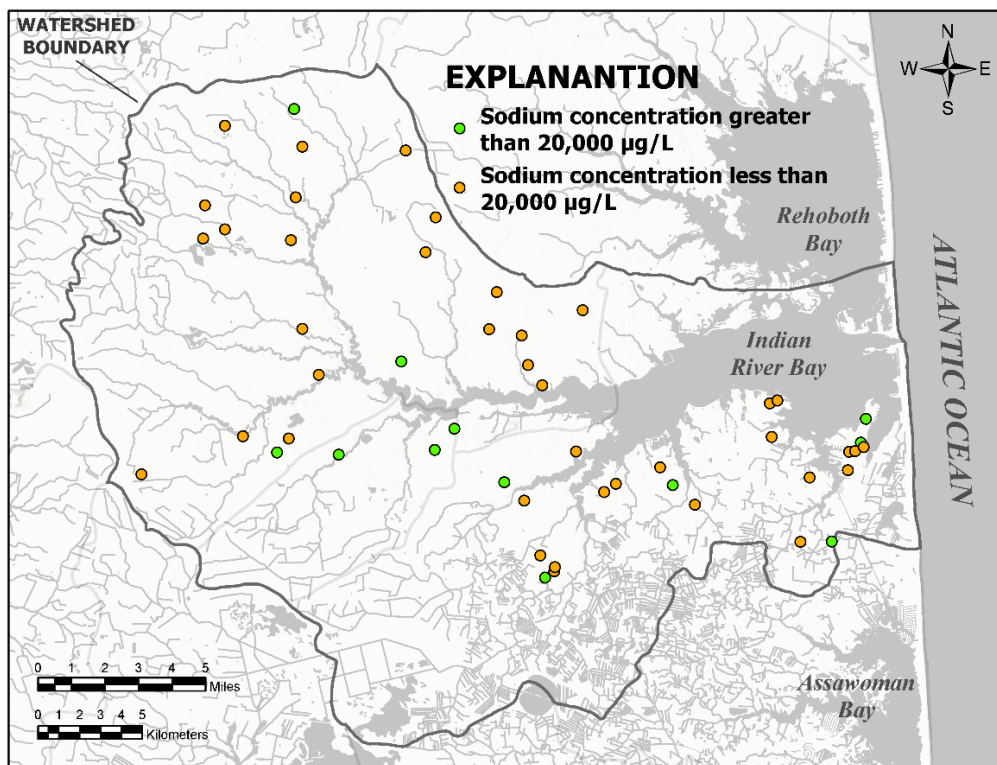


**Figure 6.** Map of resampled wells with sodium concentrations above the HA (20,000 µg/L).

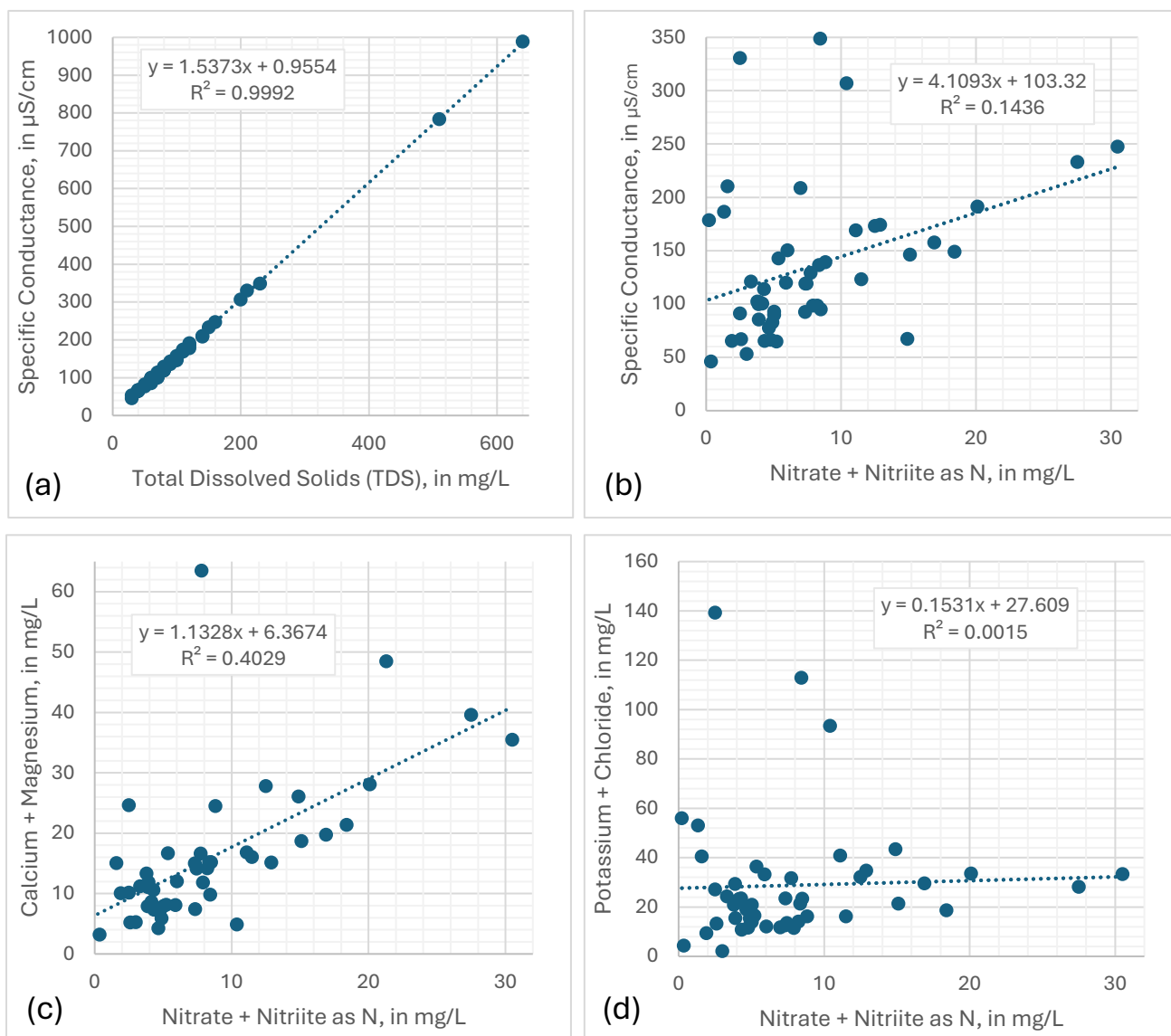


**Figure 7.** Plots showing relationships between (a) Total Dissolved Solids and Specific Conductance, (b) Nitrate and Specific Conductance, (c) Nitrate and Calcium + Magnesium, and (d) Nitrate and Potassium + Chloride. Graphs reflect the removal of anomalous values as follows: two high specific conductance samples (989.3  $\mu\text{S/cm}$  and 783.83  $\mu\text{S/cm}$ ) in (b); one high calcium sample (63.5  $\text{mg/L}$ ) in (c); two high chloride samples (409  $\text{mg/L}$  and 244  $\text{mg/L}$ ) in (d).

**Table 3.** Summary statistics for water quality from domestic wells in the surficial aquifer of the Indian River Bay watershed, 2024 (n=51).

[ft, feet; mg/L, milligrams per liter; µg/L, micrograms per liter; S.U., standard units; µS/cm, microsiemens per centimeter; °C, degrees Celsius; <, less than; E, estimated; PMCL, primary maximum contaminant level; SMCL, secondary maximum contaminant level; HA, health advisory; drinking water standards per U.S. EPA (2024).]

| Parameter                                  | Units | Drinking Water Standard (Type) | Min     | Percentile |         |          | Max    |
|--------------------------------------------|-------|--------------------------------|---------|------------|---------|----------|--------|
|                                            |       |                                |         | 25th       | 50th    | 75th     |        |
| Sample depth                               | ft    | —                              | 31      | 55         | 60      | 67.5     | 97     |
| <b>Field Measurements</b>                  |       |                                |         |            |         |          |        |
| Dissolved Oxygen                           | mg/L  | —                              | 0.37    | 4.025      | 5.6     | 7.14     | 9.66   |
| pH                                         | S.U.  | 6.5 to 8.5 (SMCL)              | 2.07    | 4.9        | 5.185   | 5.4275   | 7.57   |
| Specific Conductance                       | µS/cm | —                              | 46.39   | 91.925     | 120.14  | 173.93   | 989.3  |
| Temperature                                | °C    | —                              | 14.87   | 15.995     | 16.35   | 16.67    | 22.78  |
| <b>Nutrients</b>                           |       |                                |         |            |         |          |        |
| Ammonia as N                               | mg/L  | —                              | < 0.01  | < 0.01     | < 0.01  | < 0.01   | 0.035  |
| Nitrate as N                               | mg/L  | 10 (PMCL)                      | 0.219   | 3.92       | 6.02    | 9.615    | 30.5   |
| Phosphorus (P)                             | mg/L  | —                              | < 0.006 | E 0.0095   | E 0.013 | E 0.0165 | 0.151  |
| <b>Major ions, elements, or properties</b> |       |                                |         |            |         |          |        |
| Calcium                                    | µg/L  | —                              | < 1000  | E 5060     | E 7280  | E 12850  | 34400  |
| Magnesium                                  | µg/L  | —                              | < 1000  | E 2520     | E 3890  | E 6070   | 32300  |
| Sodium                                     | µg/L  | 20,000 (HA)                    | 4020    | 8555       | 13300   | 19200    | 165000 |
| Potassium                                  | µg/L  | —                              | < 1000  | E 1870     | E 2310  | E 3355   | 21200  |
| Chloride                                   | mg/L  | 250 (SMCL)                     | < 5     | E 13.5     | E 20    | E 30.5   | 409    |
| Sulfate                                    | mg/L  | 250 (SMCL)                     | < 1.0   | E 2        | E 8.1   | E 15.05  | 98.5   |
| Iron                                       | µg/L  | 300 (SMCL)                     | < 18.12 | < 18.12    | < 18.12 | < 18.12  | 35.1   |
| Silica                                     | mg/L  | —                              | 8.6     | 14.65      | 17.9    | 21.75    | 29.5   |
| Alkalinity                                 | mg/L  | —                              | < 2.3   | E 4.1      | E 6.9   | E 11.4   | 93.9   |
| Total Dissolved Solids                     | mg/L  | 500 (SMCL)                     | 30      | 60         | 80      | 110      | 640    |

## Major-Ion Chemistry

Groundwater chemistry in the IRBW is influenced by the dissolution of minerals in aquifer sediments, inputs from the land surface, and prevailing redox conditions (Soroka et al., 2024). Piper (1944) diagrams (Figures 8 and 9) illustrate the relative distribution of major cations ( $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{Na}^+ + \text{K}^+$ ) and anions ( $\text{HCO}_3^-$ ,  $\text{SO}_4^{2-}$ ,  $\text{Cl}^- + \text{NO}_3^-$ ) in shallow groundwater. The composite plot of all samples with complete analyses (Figure 8;  $n=51$ ) reveals considerable variability and distinct hydrochemical trends.

Cation compositions generally fall into two groups: (1) waters with mixed  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ , and  $\text{Na}^+$

+  $\text{K}^+$ , showing no dominant type, and (2) waters distinctly enriched in  $\text{Na}^+ + \text{K}^+$ . Waters with mixed  $\text{Ca}^{2+}$ – $\text{Mg}^{2+}$ – $\text{Na}^+ + \text{K}^+$  composition generally occur in upland recharge areas dominated by agricultural and residential land uses, whereas  $\text{Na}^+ + \text{K}^+$ -enriched waters are more common in low-lying, poorly drained settings where longer residence times exist and ion exchange processes are enhanced (Denver, 1989; Denver 1993; Andres, 1991a; Hamilton et al., 1993).

Anion compositions are dominated by  $\text{Cl}^- + \text{NO}_3^-$ , consistent with both evaporite dissolution and anthropogenic sources such as agricultural inputs, septic effluent, and road salt (Denver, 1986, 1989; Ator and Denver, 2012; Fleming et al.,

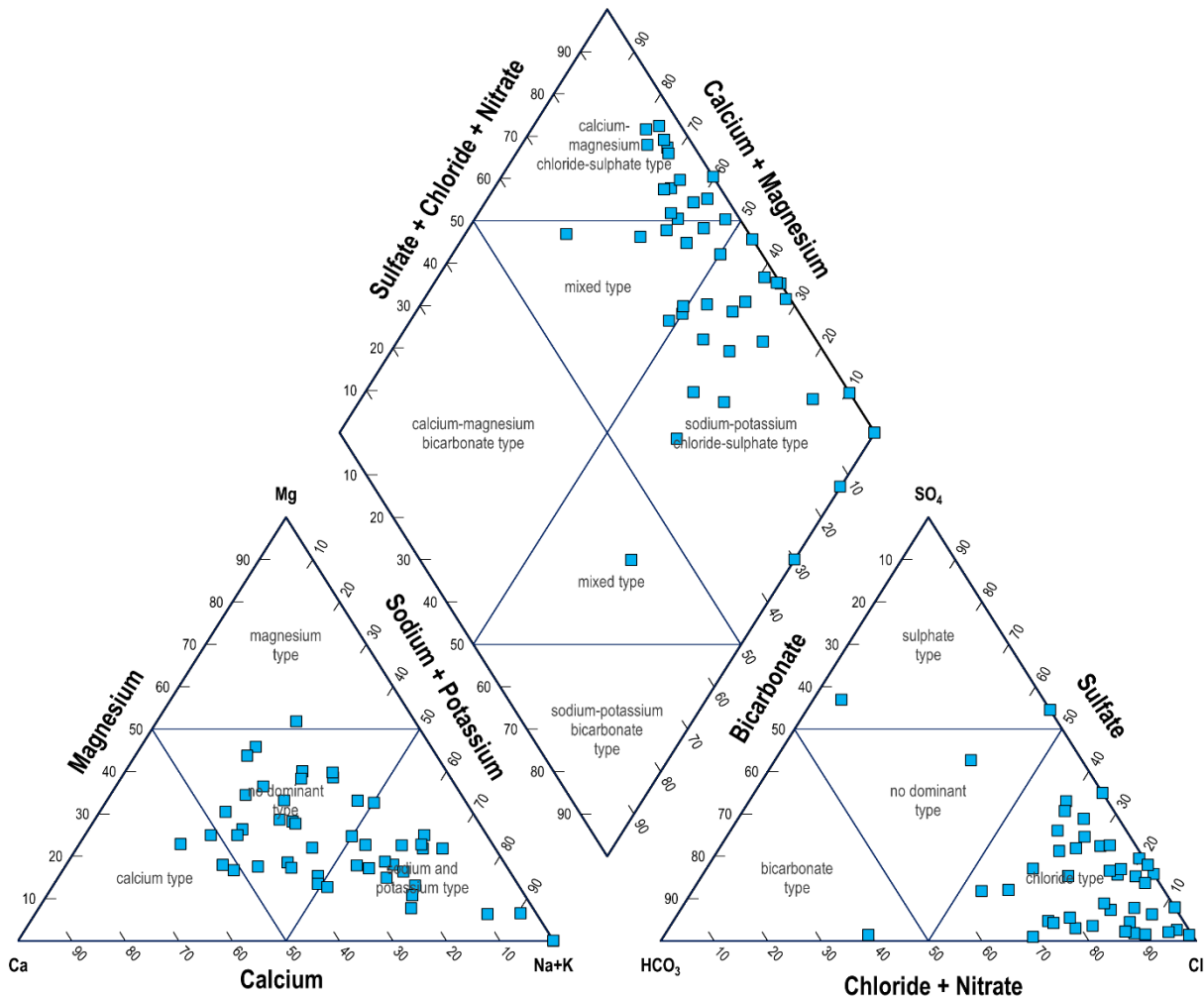


**Figure 8.** Piper diagram showing major-ion chemistry (as percentages of total milliequivalents per liter, or meq/L) for all samples with complete chemical analyses ( $n=51$ ).

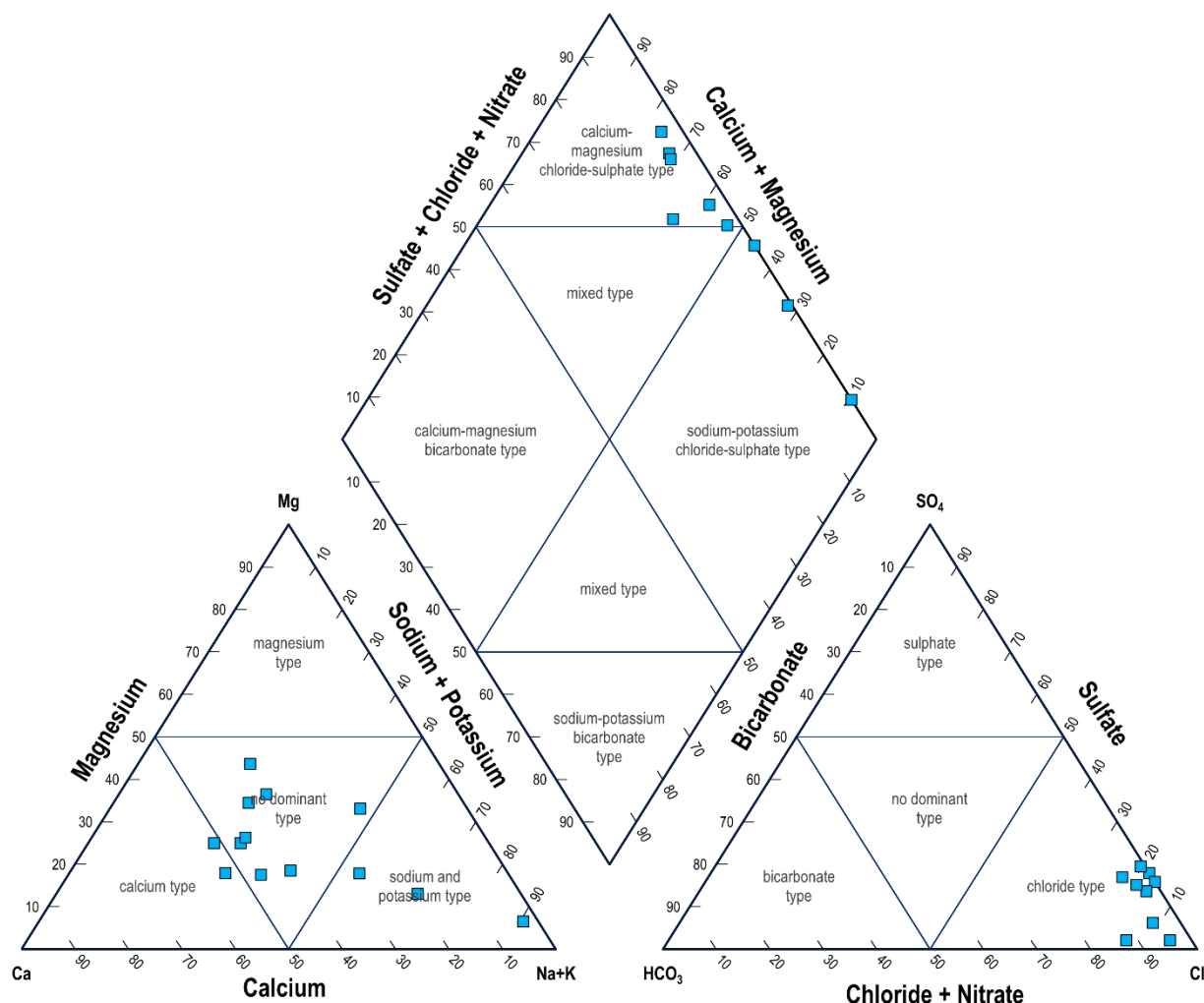


**Figure 9.** Piper diagram showing major-ion chemistry (as percentages of total milliequivalents per liter, or meq/L) for samples with nitrate concentrations greater than 10 mg/L and complete chemical analyses (n=13).

2017; Soroka et al., 2024). A smaller subset of samples exhibits elevated  $\text{HCO}_3^-$  or  $\text{SO}_4^{2-}$ , indicating localized influence of carbonate weathering or sulfate-bearing minerals (Shedlock et al., 1999; Fleming et al., 2017). Although the dataset shows relatively few outliers, variations within both the cation and anion groups reflect spatial heterogeneity in recharge, geochemistry, and land use across the IRBW (Figure 8).

Groundwater samples with nitrate concentrations exceeding the PMCL of 10 mg/L (n = 13) were typically dominated by  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ , and  $\text{Cl}^- + \text{NO}_3^-$  (Figure 9), although  $\text{Na}^+ + \text{K}^+$  occasionally appeared as the major cations. The

prevalence of  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  has been linked to agricultural practices (Denver, 1989; Hamilton et al., 1993; Böhlke, 2002; Fleming et al., 2017), whereas  $\text{Na}^+$  and  $\text{Cl}^-$  are commonly associated with septic and animal wastes, commercial fertilizers, saltwater intrusion, and road deicing salts (Denver, 1986, 1989; Ator and Denver, 2012; Fleming et al., 2017). Elevated  $\text{Cl}^-$  and  $\text{K}^+$  have also been associated with urban land use (Fleming et al., 2017; Soroka et al., 2024) and potash fertilizer application (Shedlock et al., 1999).

The clustering of samples in Figure 9 resembles the “calcium-magnesium-nitrate water type”



previously documented in groundwater influenced by agricultural activities on the Delmarva Peninsula (Hamilton et al., 1993; Fleming et al., 2017; Soroka et al., 2024). In these high-nitrate samples,  $\text{Cl}^- + \text{NO}_3^-$  typically contributed more than 80% of total anions, while  $\text{SO}_4^{2-}$  and  $\text{HCO}_3^-$  each contributed  $\leq 20\%$  (meq/L). The depletion of bicarbonate likely reflects its consumption in acid-buffering reactions during nitrification (Denver, 1986).

Previous hydrochemical analyses of groundwater in southern Delaware have demonstrated a positive correlation between nitrate and  $\text{Ca}^{2+} + \text{Mg}^{2+}$  (Denver, 1989; Kasper and Strohmeier, 2007; Soroka et al., 2024), attributing this pattern to agricultural influence on shallow groundwater. The chemical analysis of samples collected for this study is consistent with these findings (Figure 7c, Figure 10). Reported Pearson correlation coefficients were 0.98 and 0.77 in prior studies (Denver, 1989; Kasper and Strohmeier, 2007, respectively); the coefficient for this dataset is 0.65. Although more moderate, this positive correlation still suggests a persistent agricultural signature on groundwater chemistry in the IRBW. The observed geochemical patterns provide

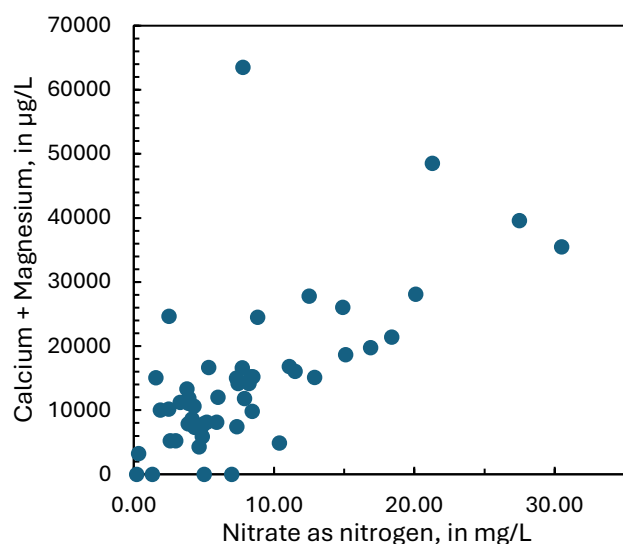


**Figure 10.** Scatter plot of Calcium + Magnesium versus Nitrate. Calculated Pearson correlation coefficient = 0.65.

context for interpreting nutrient behavior in the IRBW, as described in the following section.

## Nutrient Results

Sources of nitrogen and phosphorus in the IRBW include agricultural fertilizer use, land application of animal manure, wastewater disposal practices (including septic systems), and atmospheric deposition. Within the Delmarva Peninsula, inorganic fertilizer and manure have been estimated to account for more than 95% of the nitrogen input (Denver et al., 2004). Inorganic fertilizers often contain nitrogen in the form of ammonia, while manure and septic-system effluent contain both ammonia and organic nitrogen (Denver, 1989). Phosphorus inputs are similarly associated with fertilizer, manure, and wastewater (Denver, 1986). These nutrients are of concern because elevated nitrogen and phosphorus concentrations can contribute to eutrophication in surface waters and may pose risks to drinking-water quality. In this study, dissolved nutrient concentrations of nitrate, ammonia, and phosphorus were measured in groundwater samples (see Table 2 for analytical methods). The occurrence, distribution, and controlling factors for each of these parameters are addressed in the following sections.

### Nitrate

Nitrate concentrations in the IRBW ranged from 0.219 mg/L to 30.5 mg/L, with a median of 6.02 mg/L and a mean of 8.09 mg/L. The distribution of nitrate is positively skewed, as indicated by the frequency histogram of detections (Figure 13).

As noted previously, nitrate is a significant groundwater problem in the IRBW, exceeding the PMCL in 13 ( $\approx 25.5\%$ ) of the samples. In 49 samples ( $\approx 96\%$ ), nitrate exceeded 0.4 mg/L, a threshold distinguishing natural groundwater from water affected by anthropogenic activities (Hamilton et al., 1993). Spatially, PMCL exceedances occurred throughout the IRBW (Figure 5).

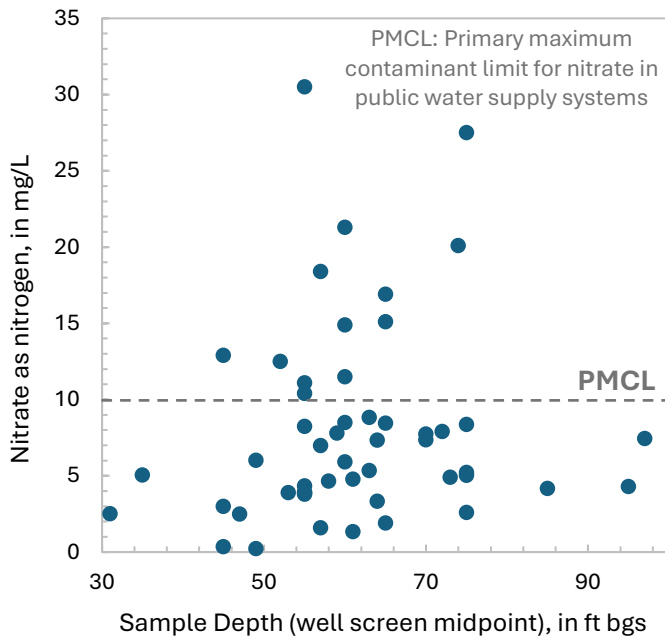


**Figure 11.** Scatter plot of nitrate (mg/L) versus sample depth. Sample depth is based on the depth of the well screen midpoint, represented in feet below ground surface (ft bgs).

Elevated nitrate concentrations were observed across all sampled depths in the Columbia aquifer (31–97 ft bgs), with no apparent trend in concentration versus sample depth (Figure 11). The highest nitrate concentration (30.5 mg/L) was detected in well 159625 at a depth of 55 ft bgs. The deepest PMCL exceedance (27.5 mg/L) occurred in well 92926 at 75 ft bgs. These results indicate that nitrate contamination is pervasive in both shallow and intermediate portions of the surficial aquifer.

For this study, sample depths were grouped into 5 categories: < 50 ft, 50–59 ft, 60–69 ft, 70–79 ft, and > 80 ft below ground surface (bgs). The 70–79 ft interval had the highest median nitrate concentration (9.67 mg/L), followed by the 60–69 ft (9.03 mg/L) and 50–59 ft (8.80 mg/L) ranges. Together, these intervals represent 40 of the 51 samples (78% of the dataset). Shallower (< 50 ft) and deeper (> 80 ft) wells had median nitrate concentrations of 4.07 mg/L and 5.30 mg/L, respectively, but these depth ranges were less common in the dataset (Figure 11; Figure 12).

In unconfined aquifers, nitrate concentrations typically increase under oxic conditions and decrease under anoxic conditions. Oxic groundwater preserves nitrate introduced from surface recharge, allowing it to persist along flow paths for decades (Andres, 1991a; Shedlock et al., 1999). In contrast, reducing environments can inhibit nitrate formation or promote its reduction to nitrogen gas, resulting in lower concentrations (Shedlock et al., 1999; Denver et al., 2004). In this study, oxic groundwater samples ( $\text{DO} \geq 1$  mg/L) had a median nitrate concentration of 8.18 mg/L, consistent with the stability of nitrate under oxidizing conditions. Two samples exhibited reducing conditions ( $\text{DO} < 1$  mg/L), yet their nitrate concentrations were 4.16 mg/L and 7.35 mg/L – values near the dataset median (6.02 mg/L). The persistence of nitrate under both redox regimes likely reflects spatial heterogeneity in recharge sources and localized variability in aquifer geochemistry.

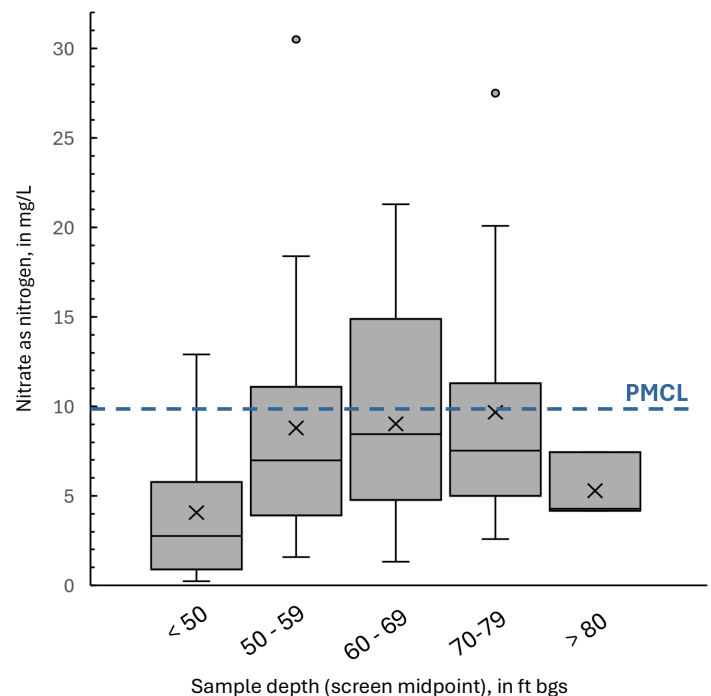


**Figure 12.** Percentile diagram of nitrate (mg/L) distributions versus sample depth (ft bgs) showing maximum, 75<sup>th</sup> percentile, 50<sup>th</sup> percentile, 25<sup>th</sup> percentile, and minimum values; X denotes the mean; circles denote outliers. [PMCL, Primary Maximum Contaminant Level]



Nitrate concentrations were evaluated in relation to mapped groundwater recharge potential (Andres et al., 2002). Exceedances of the PMCL were observed in all recharge-potential categories (Figure 14), indicating that nitrate contamination is not limited to a single hydrogeologic setting. Wells in good recharge-potential areas (n = 17) had the lowest median nitrate concentration (5.03 mg/L), with 23.5% of samples exceeding the PMCL. Wells located in poor recharge-potential areas (n = 7) exhibited a nearly identical median concentration (5.04 mg/L), though only one exceedance was observed (14%). In contrast, wells in excellent recharge-potential areas (n = 10) displayed a slightly higher median concentration (5.75 mg/L), but a relatively low exceedance rate of 10%. The highest nitrate levels were observed in wells situated within fair recharge-potential areas (n = 17), which had a median concentration of 8.5 mg/L and the highest proportion of PMCL exceedances (41%). These results suggest that recharge potential alone does not control nitrate occurrence, and that fair recharge areas may represent a balance between sufficient infiltration to mobilize nitrate and limited dilution capacity, resulting in elevated concentrations and frequent exceedances. As noted by Andres (1991a), determining the source of nitrate contamination in an individual well is often not

possible, since land use at the wellhead may not reflect the true recharge area. Wells screened near the water table are more likely to represent overlying land use (Hamilton and Denver, 1990), while deeper wells may intercept groundwater that is recharged thousands of feet upgradient, reflecting land use at the recharge location rather than at the well site (Andres, 1991a; Denver, 1993; Hamilton and Denver, 1990). The occurrence of PMCL exceedances across all recharge classes underscores the complex and pervasive nature of nitrate in the IRBW.

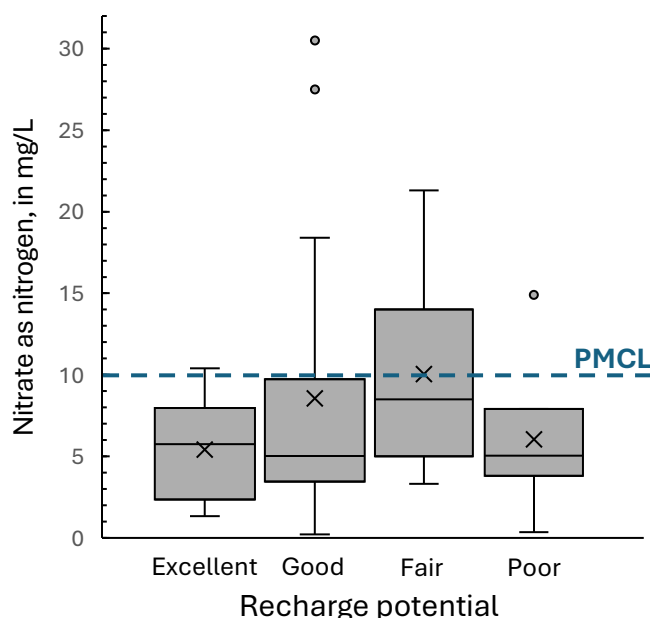


**Figure 14 (above).** Percentile diagram of nitrate distributions for each recharge-potential setting, showing maximum, 75<sup>th</sup> percentile, 50<sup>th</sup> percentile, 25<sup>th</sup> percentile, and minimum values; X denotes the mean; circles denote outliers. [mg/L, milligrams per liter; PMCL, Primary Maximum Contaminant Level]

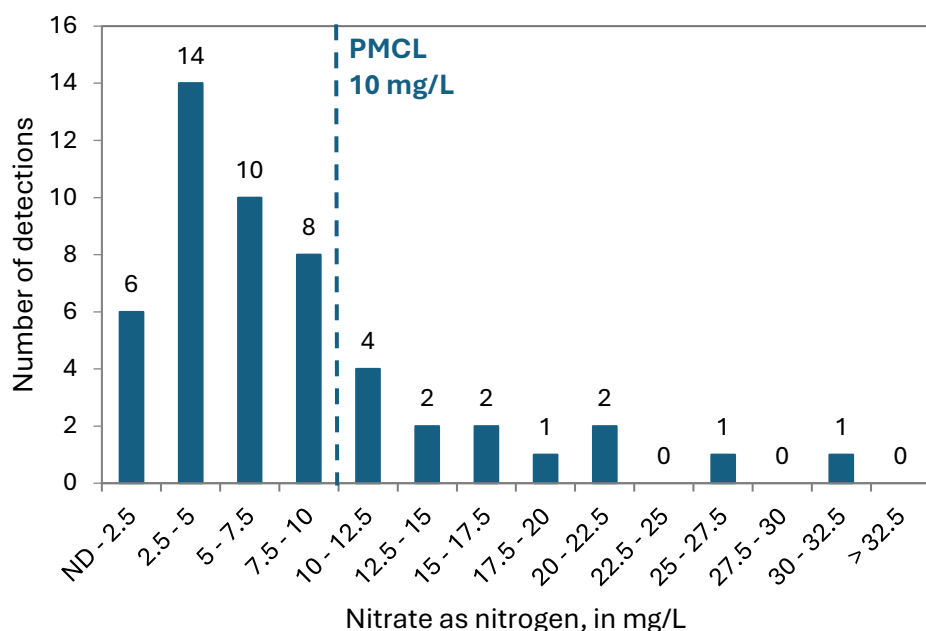


**Figure 13 (left).** Frequency histogram of nitrate detections. [ND, not detected above method detection limit; mg/L, milligrams per liter; PMCL, Primary Maximum Contaminant Level]

### Ammonia

Ammonia was only detected above the method detection limit (0.01 mg/L) in one sample. The only elevated ammonia concentration (0.035 mg/L) was detected in well 160619 and was associated with low nitrate concentration (Appendix 1). As noted by Denver et al. (2004), ammonia is readily converted to nitrate under oxidizing conditions and, therefore, ammonia concentrations are relatively low (<1 mg/L) in the surficial aquifer of the Delmarva Peninsula. Well 160619 also had elevated phosphorus (0.151 mg/L). In some instances, elevated ammonia and phosphorus may be attributed to naturally occurring sources, such as organic-rich sediments in confining beds (Ator et al., 2004).

### Phosphorus

Phosphorus concentrations ranged from non-detectable levels to 0.151 mg/L. Median and mean phosphorus concentrations were 0.013 and 0.016 mg/L, respectively. The phosphorus data, like the nitrate and ammonia data, are skewed (Figure 15). Phosphorus was non-detect

(< 0.006 mg/L) in 7 of the samples (≈14%) (Figure 15). One sample collected from 160619 had a phosphorus concentration of 0.15 mg/L. This was the only sample where phosphorus was detected in a concentration greater than 0.1 mg/L (Figure 15), a recommended threshold to prevent excessive plant growth in streams (U.S. EPA, 2008). Well 160619 has a screen midpoint depth of 57 ft bgs. As with the nitrate data, there is no obvious trend between phosphorus concentration and sample depth (Figure 16).

In contrast with nitrate, phosphorus concentrations tend to be higher under reducing conditions than oxidizing conditions. Reducing conditions allow for the dissolution of phosphorus, while oxidizing conditions cause phosphorus to bind tightly to soil particles, resulting in less phosphorus mobility in the subsurface (Denver et al., 2004). In this study, the median phosphorus concentration for oxic groundwater conditions was 0.016 mg/L. The two samples displaying anoxic conditions had phosphorus concentrations of 0.016 and 0.018. While these values are not obviously

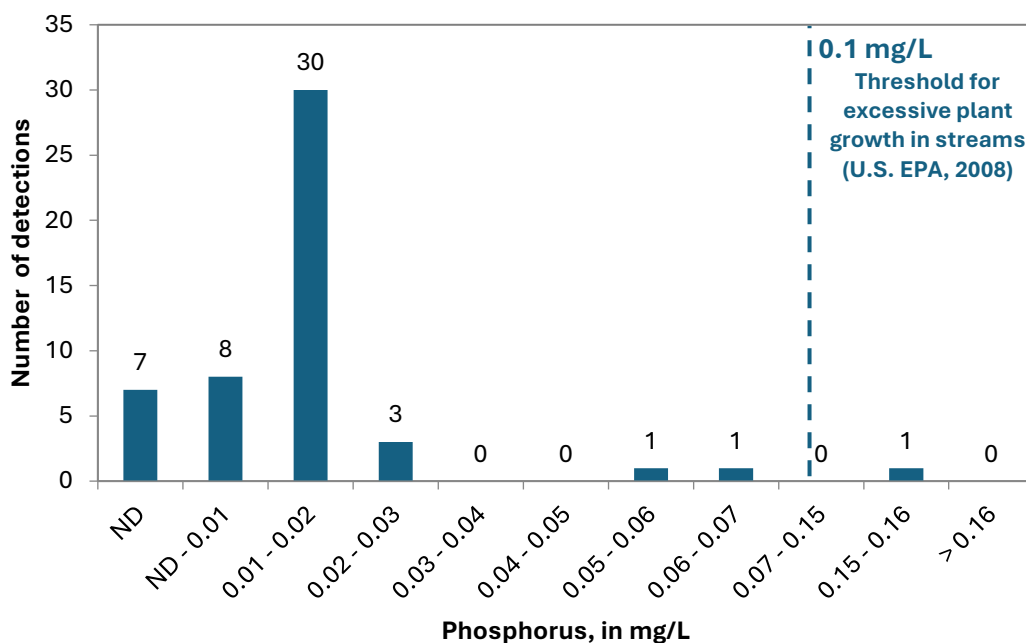


**Figure 15.** Frequency histogram of phosphorus detections. [ND, not detected above method detection limit; mg/L, milligrams per liter]

representative of the expected trend, this result is consistent with the underrepresentation of anoxic conditions in this study. Additionally, samples from wells in both excellent and poor recharge-potential settings had the highest median phosphorus concentrations (both 0.015 mg/L). Lower overall phosphorus concentrations align with the overall oxic conditions in the IRBW.

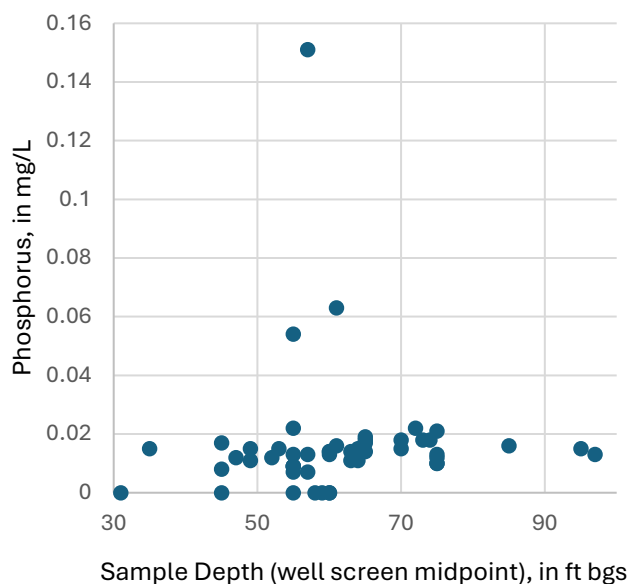


**Figure 16.** Scatter plot of phosphorus (mg/L) versus sample depth. Sample depth is based on the depth of the well screen midpoint, represented in feet below ground surface (ft bgs).

### Temporal Comparison of Groundwater Quality

The dataset of Kasper and Strohmeier (2007) provides a valuable baseline for evaluating temporal changes in groundwater quality within the Indian River Bay Watershed (IRBW). Although the 2001–2003 study sampled 255 wells compared to 51 wells in this study, and included domestic, public, monitoring, agricultural, and commercial wells (while this study focused exclusively on domestic wells), the comparison provides insight into long-term trends. Given the differences in sample size and well type, temporal trends are discussed primarily in terms of relative percentages rather than absolute

numerical comparisons. A summary of statistics and temporal trends is provided in Table 4, and boxplots comparing each analyte are shown in Figure 17. Trends for key analytes—nitrate, ammonia, and phosphorus—are discussed in detail in the “Nutrient Trends” section.

### General Groundwater Quality Trends

#### Total Dissolved Solids (TDS)

TDS concentrations in the IRBW have increased slightly since 2001–2003. SMCL exceedances rose from 1% to 4%, and the median increased from 77 mg/L to 80 mg/L, while the overall range remained stable. These small changes suggest that bulk salinity of groundwater has remained relatively constant, and no major new sources of dissolved solids have emerged over the past two decades.

#### Specific Electrical Conductance (SEC)

SEC displayed minor changes, with the median decreasing from 149  $\mu\text{S}/\text{cm}$  to 120.14  $\mu\text{S}/\text{cm}$  and the overall reported range remaining similar (2007: 41–1389  $\mu\text{S}/\text{cm}$ ; 2024: 46.39–989.30  $\mu\text{S}/\text{cm}$ ). This stability indicates that the ionic strength of groundwater has not changed substantially, supporting the conclusion of largely stable aquifer chemistry for major ions.

#### pH

Slightly acidic conditions persist in the IRBW, with median pH increasing only marginally from 5.1 to 5.19, and the proportion of samples with  $\text{pH} < 6.5$  remaining high (99% in 2001–2003 vs. 96% in 2024). These results indicate that natural acidification processes and buffering capacity of the Columbia aquifer remain consistent, and that pH remains below the SMCL range (6.5–8.5).

#### Dissolved Oxygen (DO)

Based on the threshold dissolved oxygen concentration (1 mg/L) between oxidizing (oxic) and reducing (anoxic) conditions, oxidizing

conditions prevail in the IRBW. Median DO increased from 3.5 mg/L to 5.6 mg/L, and the proportion of wells with DO  $\geq$  1 mg/L increased from 82% to 96%. This trend toward more oxidizing conditions may enhance the attenuation of redox-sensitive contaminants in the Columbia aquifer, including iron and reduced forms of nitrogen.

### Iron

Iron concentrations declined markedly, with non-detects increasing from 44% to 98% of samples, and SMCL exceedances dropping from 12% to 0%. This decrease is consistent with increased DO concentrations, as iron solubility decreases under oxic conditions. This trend indicates reduced mobilization of iron within groundwater in the IRBW.

### Nitrate

Nitrate remains the primary constituent of concern. PMCL exceedances declined from 32% to 25.5%, and median concentrations decreased slightly (6.41 mg/L to 6.02 mg/L), while mean concentrations increased marginally (7.73 mg/L to 8.09 mg/L). Nitrate was detected in all samples in 2024, compared to 92.5% in 2001–2003. However, widespread detections were expected in this study because a previous nitrate concentration  $> 1$  mg/L was a limiting criterion to qualify for resampling. Nevertheless, these results suggest continued nonpoint-source loading from agricultural and residential activities, with widespread contamination persisting throughout the aquifer. Spatial and depth patterns indicate that nitrate transport is pervasive across the unconfined aquifer, with no clear attenuation with depth.

### Chloride

Chloride concentrations have increased slightly, with the proportion of SMCL exceedances rising from 1% to 2%, and maximum concentrations increasing from 367 mg/L to 409 mg/L. This trend

is consistent with potential contributions from saltwater intrusion, possibly enhanced by coastal hydrology or groundwater pumping near Indian River Bay.

### Sodium

Sodium loading has increased, with HA exceedances rising from 10% to 23.5% and median concentrations increasing from 9,630  $\mu$ g/L to 13,300  $\mu$ g/L. Potential non-point sources of sodium in the Columbia aquifer include septic-system effluent, poultry manure application, and saltwater intrusion (Denver 1989). The increase reflects both anthropogenic inputs and potential hydrologic influences on shallow groundwater.

### Sulfate

Sulfate concentrations increased modestly, with median values rising from 2.4 mg/L to 8.1 mg/L, and mean values increasing from 8.06 mg/L to 10.53 mg/L. Despite these changes, concentrations remain below the SMCL and HA, and maximum values decreased slightly from 135 mg/L to 98.5 mg/L. This suggests that while background sulfate loading has increased, peak concentrations have not intensified, consistent with minor inputs from fertilizer, manure, or natural geochemical sources.

### Hardness

Comparison of data from the 2001–2003 and 2024 sampling efforts shows that water hardness has remained relatively consistent over the past two decades, with the majority of samples classified as soft in both studies. In 2024, 80.4% of samples were soft, 15.6% moderately hard, and approximately 4% hard or very hard, whereas in 2001–2003, 85.5% of samples were soft, 13.3% moderately hard, and 1.2% hard. Wells with higher hardness in both periods were associated with elevated chloride, TDS, sodium, and sulfate concentrations. These findings indicate that, although most groundwater in the IRBW remains soft, localized areas of elevated hardness persist.

Summary and Implications

Groundwater quality in the IRBW has remained largely stable over the past two decades. Modest increases in TDS, sodium, sulfate, and chloride concentrations (Figure 17; Table 4) indicate slight compositional changes, while higher dissolved oxygen and lower iron concentrations reflect more oxidizing conditions that limit the mobility of redox-sensitive constituents.

Slight increases in sodium and chloride, particularly near Indian River Bay, may indicate localized saltwater intrusion or anthropogenic inputs. Overall, the Columbia aquifer maintains generally good water quality, though persistent nitrate exceedances suggest ongoing nutrient loading from nonpoint sources. Nitrate remains the principal water quality concern, and this analyte is discussed in detail in the following section.

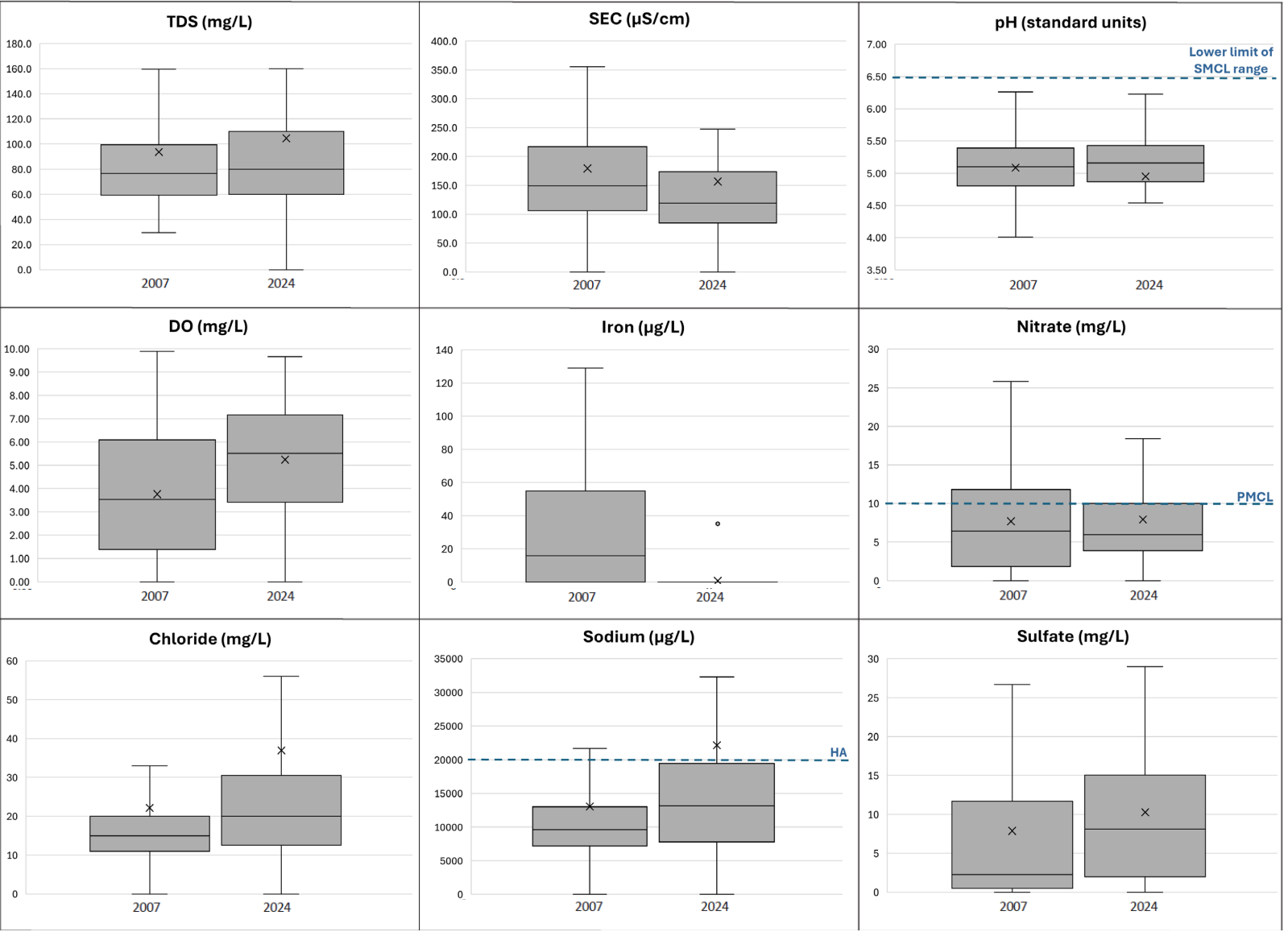


**Figure 17.** Temporal comparison of key groundwater constituents in the IRBW, as reported by Kasper and Strohmeier (2007) and the 2024 dataset. Plots represent unpaired comparisons of the complete (255 wells) 2007 dataset to the 51-well dataset included in this report. Maximum, 75<sup>th</sup>/50<sup>th</sup>/25<sup>th</sup> percentiles, and minimum values are shown; X, mean; circles, outliers.

**Table 4.** Summary Statistics and Temporal Trends for Key Groundwater Constituents in the IRBW. Comparison of results reported by Kasper and Strohmeier (2007) to 2024 sampling.

[SMCL, Secondary Maximum Concentration Limit; HA, Health Advisory; PMCL, Primary Maximum Concentration Limit]

| Parameter                               | 2007 Median | 2007 Mean | 2007 % Exceeding SMCL/HA | 2024 Median | 2024 Mean | 2024 % Exceeding SMCL/HA | Trend / Interpretation                                                       |
|-----------------------------------------|-------------|-----------|--------------------------|-------------|-----------|--------------------------|------------------------------------------------------------------------------|
| Total Dissolved Solids (mg/L)           | 76.54       | 93.66     | 1%                       | 80          | 106.67    | 4%                       | Slight increase; aquifer remains dilute                                      |
| Specific Electrical Conductance (µS/cm) | 149         | 180.18    | -                        | 120.14      | 164.93    | -                        | Minor decrease; overall ionic composition stable                             |
| pH (S.U.)                               | 5.1         | 5.11      | 99% < 6.5                | 5.185       | 5.15      | 96% < 6.5                | Slight increase; acidic conditions persist                                   |
| Dissolved Oxygen (mg/L)                 | 3.53        | 3.78      | 82% ≥1                   | 5.6         | 5.35      | 96% ≥1                   | More oxidizing conditions; redox-sensitive constituents likely less mobile   |
| Iron (µg/L)                             | 15.4        | 955.11    | 12% >SMCL                | ND          | 0.61      | 0% >SMCL                 | Decline reflects increasing DO; reduced mobilization of iron                 |
| Nitrate (mg/L)                          | 6.41        | 7.73      | 32% >PMCL                | 6.02        | 8.09      | 25.5% >PMCL              | Slight decrease in exceedances; persistent nonpoint-source loading           |
| Chloride (mg/L)                         | 15          | 22.27     | 1% >SMCL                 | 20          | 38        | 2% >SMCL                 | Minor increase; consistent with saltwater intrusion or anthropogenic sources |
| Sodium (µg/L)                           | 9,630       | 13,120.24 | 10% >HA                  | 13,300      | 25,325.77 | 23.5% >HA                | Increase; consistent with anthropogenic and/or saltwater influence           |
| Sulfate (mg/L)                          | 2.4         | 8.06      | 0%                       | 8.1         | 10.46     | 0%                       | Slight increase; below SMCL/HA; likely influenced by agricultural inputs     |

## Nutrient Trends

### Nitrate

Nitrate continues to represent a key groundwater quality concern in the IRBW, with both the 2007 and 2024 datasets confirming widespread anthropogenic influence on shallow groundwater. However, several notable differences emerge when comparing the two studies. This discussion is divided into two sections - an unpaired comparison, and a direct paired comparison. The unpaired comparison analyzes general trends in the full datasets from Kasper and Strohmeier (2007) and this study. The paired comparison focuses only on the wells that were sampled in both studies.

#### *Unpaired Comparison*

During 2001–2003, nitrate exceeded the PMCL (10 mg/L) in 81 of 255 samples (32%), compared to 13 of 51 samples (25.5%) in 2024 (Table 4). Although this represents a slight reduction in the proportion of exceedances, nitrate remains elevated in a substantial fraction of samples, indicating persistent loading from nonpoint sources. Non-detects (7.5% in 2007) were not observed in 2024, which was expected because only wells with nitrate concentrations > 1 mg/L in the 2007 dataset were considered for resampling. However, the continued occurrence of elevated nitrate concentrations over the past two-decades suggests that nitrate levels in the Columbia aquifer have not declined significantly, despite fewer exceedances of the regulatory threshold.

The 2007 dataset reported a median nitrate concentration of 6.41 mg/L, slightly higher than the 6.02 mg/L median observed in 2024 (Table 4). However, the mean concentration increased from 7.73 mg/L in 2007 to 8.09 mg/L in 2024. The 2024 dataset was positively skewed with a maximum concentration of 30.5 mg/L, compared to 43 mg/L in the 2007 report. Together, these observations suggest that while extreme outlier values may have decreased, moderate-to-high nitrate

concentrations remain common, keeping the overall mean slightly elevated.

Both studies found the highest nitrate concentrations in intermediate-depth wells (50–80 ft bgs), although the median concentrations in 2024 are slightly higher across these depth intervals (8.80–9.67 mg/L) compared to 2001–2003 (6.28–7.36 mg/L). Aside from the exclusion of low (< 1 mg/L) nitrate concentrations in this study, this trend may indicate continued nitrate loading and migration to slightly deeper portions of the aquifer. Similar to results reported by Kasper and Strohmeier, shallow (<50 ft bgs) and deep (>80 ft bgs) zones were underrepresented in 2024, limiting firm conclusions about vertical trends across the entire aquifer profile.

Both datasets confirm that nitrate concentrations are strongly controlled by redox conditions. In the 2007 report, median nitrate concentrations were 7.8 mg/L under oxic conditions ( $\text{DO} \geq 1$  mg/L) and only 0.14 mg/L under reducing conditions. When resampled in 2024, median nitrate concentrations under oxic conditions were similar (8.18 mg/L), but only two samples were collected under reducing conditions, with relatively high nitrate values (4.16 and 7.35 mg/L). This observation aligns with expected results, as zones with sustained reducing conditions - and therefore strong denitrification potential - were less represented in the 2024 study.

These findings suggest that while the proportion of wells exceeding the PMCL has declined since the 2001–2003 sampling effort, nitrate remains persistent across a wide range of depths under oxic conditions. This pattern is consistent with continued nonpoint source inputs (fertilizer, manure, septic effluent) and the long residence times of groundwater in the Columbia aquifer, which can delay improvements following changes in land-management practices. The persistence of elevated nitrate concentrations under oxic conditions indicates a sustained vulnerability of drinking water supplies to nitrate

contamination, underscoring the importance of nutrient management strategies in the watershed.

### *Paired Comparison*

Although the comparison between the full dataset of Kasper and Strohmeier (2007) and the 2024 results highlights general trends in nitrate concentrations across the IRBW, variability in well type, distribution, and sample size introduces potential bias that can obscure localized temporal changes. Furthermore, because only wells with nitrate concentrations >1 mg/L in the 2007 dataset were considered for resampling, the 2024 dataset is inherently skewed towards higher nitrate conditions. To minimize these effects, analyses in this section are restricted to wells that were sampled in both 2001–2003 and 2024, enabling direct paired comparisons. By focusing on matched wells, the observed changes in nitrate concentrations can be more confidently attributed to temporal trends rather than spatial variability, providing a more robust assessment of how groundwater quality has evolved at specific locations over a two-decade interval. The analysis includes calculation of absolute and percent changes in nitrate concentration for each well, and evaluation of overall trends using the Wilcoxon signed-rank test to assess whether changes are statistically significant. Wells exhibiting increasing versus decreasing nitrate concentrations are shown in Figure 19.

Because the distribution of nitrate concentrations was non-normal and paired observations were available, the Wilcoxon signed-rank test - a nonparametric method proposed by Frank Wilcoxon in 1945 - was employed to evaluate whether median concentrations have changed over time. This statistical analysis is appropriate for paired samples, and its application in this study follows the methodology described in the original publication (Wilcoxon, 1945). Wells exhibiting no

change in concentration ( $n = 1$ ) were excluded from the analysis, consistent with standard procedure for the Wilcoxon signed-rank test.

For the 50 wells with nonzero differences, absolute differences between 2024 and 2001–2003 concentrations were ranked, and signed ranks were assigned according to the direction of change. The sum of negative ranks ( $W^-$ ) was 398.5, representing the smaller of the two rank sums. Using the normal approximation for  $n = 50$  with continuity correction, the resulting z-score was -2.31, yielding a two-sided p-value of 0.021. A tie correction was applied to account for wells with identical absolute differences; the adjustment was minimal (tie sum = 6), and the corrected standard deviation (103.57) differed negligibly from the uncorrected value (103.59), indicating minimal impact on the test statistic.

These results demonstrate a statistically significant decrease in median nitrate concentrations between 2001–2003 and 2024. Median nitrate concentrations declined from 8.12 mg/L in the 2007 report to 6.02 mg/L in 2024. A side-by-side boxplot (Figure 18) corroborates the statistical findings, showing that most wells exhibited reduced nitrate concentrations although a small number of wells displayed minor increases.

The observed decline in nitrate concentrations between the 2007 report and the 2024 resampling effort may reflect a combination of environmental and anthropogenic factors affecting groundwater quality in the study area. Potential contributors include changes in land-use practices, such as reduced fertilizer application rates or the implementation of nutrient management strategies in agricultural areas, as well as improvements in wastewater treatment and septic system management. Hydrogeological factors, including natural attenuation processes, dilution from recharge,



and variations in groundwater flow paths, may also have influenced the observed patterns. Notably, the variability among wells - where a few wells showed slight increases in nitrate - highlights spatial heterogeneity in sources, subsurface transport, and residence times.

These results underscore the importance of longitudinal monitoring of groundwater quality to capture temporal trends and evaluate the effectiveness of management interventions. While the median decrease in nitrate suggests an overall improvement in water quality, continued monitoring is warranted to assess the persistence of low concentrations and to identify locations at risk for localized increases. Integrating statistical analyses with spatial and hydrogeological data can further inform targeted mitigation strategies and policy decisions for protecting groundwater resources.

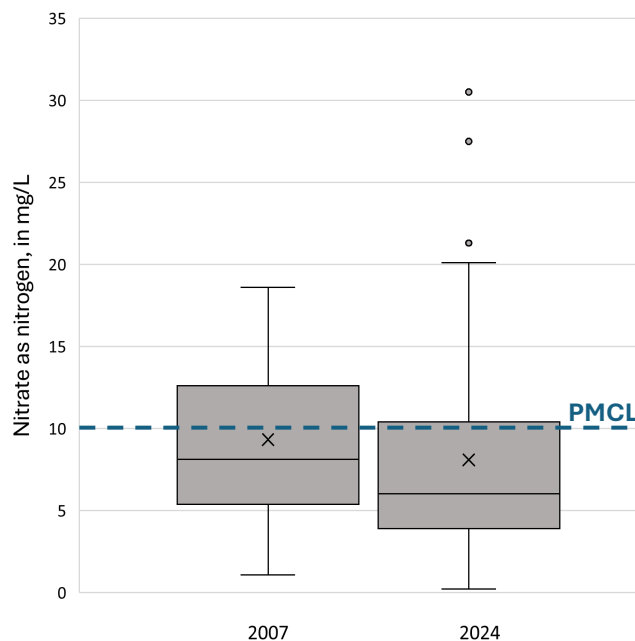


**Figure 18.** Direct paired comparison of nitrate concentrations (mg/L) in 51 wells sampled in 2001–2003 (as reported by Kasper and Strohmeier, 2007) and 2024. Maximum, 75<sup>th</sup>/50<sup>th</sup>/25<sup>th</sup> percentiles, and minimum values are shown; X, mean; circles, outliers.

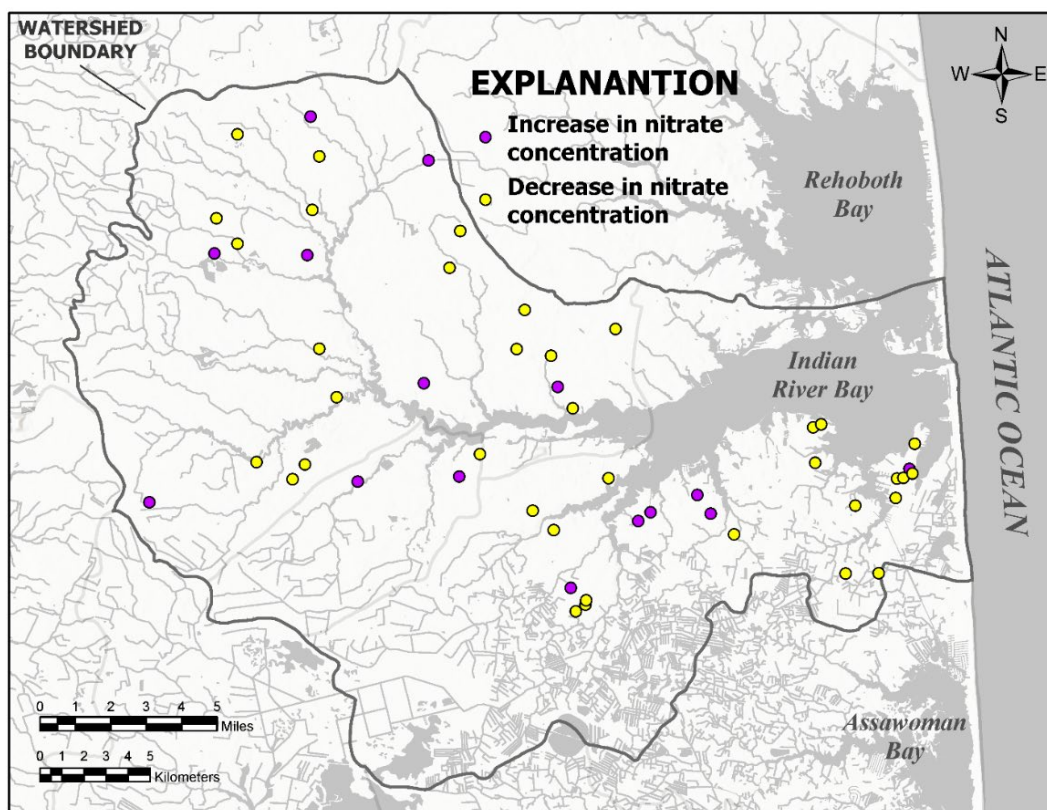


**Figure 19.** Map of 51 resampled wells showing where nitrate concentrations increased versus decreased between Kasper and Strohmeier’s 2007 report and the 2024 resampling.

### *Summary of Unpaired and Paired Comparisons*

Unpaired and paired analyses of nitrate data (2001–2003 vs. 2024) revealed broadly consistent results, indicating that nitrate concentrations in the IRBW have remained largely stable over the past two decades, with modest overall improvement. The percentage of samples exceeding the PMCL declined from 32% to 25.5%, and median concentrations decreased slightly from 6.41 to 6.02 mg/L. The paired analysis confirmed this trend, with most wells showing stable or decreasing concentrations (Figure 18), indicating limited but measurable improvement in some areas. However, persistent detections above background levels ( $> 0.4$  mg/L) suggest that the aquifer continues to be under substantial pressure from nonpoint nitrogen inputs.

### Ammonia

Ammonia concentrations in the Indian River Bay watershed were generally low in both the 2007 and 2024 studies, consistent with expectations for groundwater in oxidizing conditions. The 2007 report documented a measurable range of ammonia concentrations, from below detection to 0.662 mg/L, with median and mean values of 0.011 mg/L and 0.034 mg/L, respectively. Ammonia was not detected above the method detection limit in 36 samples (14%). Stratification by redox condition indicated slightly higher median concentrations under reducing conditions (0.019 mg/L) relative to oxidizing conditions (0.011 mg/L), consistent with the role of denitrification and the suppression of nitrification in reducing environments.

In contrast, the 2024 study reported ammonia at detectable levels in only one sample, with a concentration of 0.035 mg/L in well 160619. This detection was accompanied by a low nitrate concentration and elevated phosphorus, suggesting localized geochemical influences possibly related to organic-rich sediments. The near absence of detectable ammonia in the 2024

dataset aligns with the limited representation of reducing conditions relative to 2001–2003.

Combined, the two studies suggest that while low concentrations of ammonia can occasionally occur in the aquifer system, they are typically rare and of limited spatial extent. The broader geochemical framework - where ammonia is readily converted to nitrate under oxidizing conditions - was evident in both studies. However, the 2024 dataset suggests an even stronger dominance of oxidizing conditions in the aquifer compared to 2001–2003, resulting in fewer measurable ammonia detections.

This shift has important implications for nutrient cycling in the IRBW. The scarcity of ammonia indicates that most reduced nitrogen is rapidly transformed to nitrate, the more mobile and environmentally significant species in groundwater. Consequently, the risk to surface-water quality is tied less to ammonia accumulation and more to sustained nitrate transport under oxidizing conditions. The 2024 results therefore reinforce the conclusion that nitrate remains the primary nitrogen species of concern for groundwater quality and nutrient loading to the IRBW.

### Phosphorus

Phosphorus concentrations in the Indian River Bay watershed were generally low in both the 2007 and 2024 datasets, although the distribution was skewed by occasional elevated detections. In 2001–2003, phosphorus ranged from below detection to 0.688 mg/L, with median and mean concentrations of 0.014 and 0.031 mg/L, respectively. Phosphorus was not detected above the method detection limit in 69 samples (27%), and 12 samples (4.7%) exceeded 0.1 mg/L, a threshold associated with the potential to stimulate excessive plant growth in surface waters (U.S. EPA, 2008). Median concentrations under anoxic conditions (0.037 mg/L) were nearly three times higher than those under oxic

conditions (0.013 mg/L), consistent with the expected release of phosphorus from sediments in reducing environments.

By comparison, phosphorus concentrations in 2024 ranged from below detection to 0.151 mg/L, with median and mean values of 0.013 and 0.016 mg/L, respectively. Non-detects ( $< 0.006$  mg/L) occurred in seven samples (14%), a smaller proportion than in 2001–2003, suggesting slightly broader low-level detection across the aquifer. Only one well (160619) exceeded 0.1 mg/L, with a concentration of 0.151 mg/L. This well also contained elevated ammonia and low nitrate, suggesting possible localized phosphorus release from organic-rich sediments. Median concentrations under oxic conditions were 0.016 mg/L, while the two anoxic samples showed similar concentrations (0.016 and 0.018 mg/L). Although these results did not clearly reflect the expected pattern of higher phosphorus under reducing conditions, the small number of anoxic samples in the 2024 dataset limited the ability to assess this relationship robustly.

Both datasets indicate that phosphorus concentrations in the aquifer are generally low, with most values well below the 0.1 mg/L threshold of ecological concern. The 2007 dataset documented a wider range of concentrations, including multiple exceedances above 0.1 mg/L, whereas the 2024 dataset showed only a single exceedance. These differences may reflect localized geochemical heterogeneity, differences in sampling coverage, or potential temporal shifts in phosphorus mobility in the aquifer system.

The consistency of low median phosphorus concentrations across both studies suggests that phosphorus is less mobile in the surficial aquifer than nitrogen species. While reducing conditions can enhance phosphorus release, such conditions appear to be relatively uncommon in the IRBW, limiting widespread phosphorus transport. Consequently, phosphorus poses a

more localized and intermittent concern compared to nitrate, reinforcing the interpretation that nitrate remains the dominant nutrient of concern for groundwater-derived inputs.

### Summary and Implications

Results from both the 2001–2003 and 2024 investigations confirm that nitrate remains the principal groundwater contaminant of concern in the IRBW. Elevated nitrate concentrations, potentially driven by agricultural and residential nonpoint sources, continue to exceed the PMCL in a substantial fraction of wells. In contrast, ammonia and phosphorus occur at consistently low concentrations, reflecting predominantly oxic aquifer conditions that promote nitrification and limit phosphorus mobility. Additionally, the conversion of discharge from the City of Rehoboth Beach's wastewater treatment system to an ocean outfall in 2018 has effectively eliminated major point sources of nutrient loading to the Inland Bays (Walch et al., 2023), indicating that observed nutrient contamination in the IRBW is attributable to nonpoint sources. Overall, these findings underscore nitrate's continued dominance as the key nutrient impacting groundwater quality in the IRBW.

## Summary and Conclusions

In 2024, groundwater samples were collected from 51 wells completed in the Columbia aquifer within the Indian River Bay Watershed (IRBW) to reassess water quality and evaluate temporal changes since the 2001–2003 investigation by Kasper and Strohmeier (2007). Samples were analyzed for field parameters (pH, temperature, dissolved oxygen, and specific electrical conductance) and laboratory parameters (major ions, silica, and nutrients). Nutrient analytes included nitrate, ammonia, and phosphorus. Results were compared to U.S. EPA drinking-water standards including Primary and Secondary Maximum Contaminant Levels (PMCLs and SMCLs, respectively) and Health Advisories (HAs), to assess current groundwater conditions and long-term trends. These results establish an updated baseline for groundwater quality in the surficial aquifer and support ongoing evaluation of nonpoint-source nutrient management under the IRBW Total Maximum Daily Loads (TMDLs).

### Current Groundwater Quality

Groundwater in the IRBW remains generally dilute and slightly acidic, with a median total dissolved solids (TDS) concentration of 80 mg/L and a median pH of 5.19. Most samples were oxic (96% with DO  $\geq 1$  mg/L), consistent with correspondingly low iron concentrations. Specific electrical conductance (median 120  $\mu\text{S}/\text{cm}$ ) and hardness data (80% classified as soft) indicate stable bulk chemistry relative to 2001–2003. Localized increases in chloride, sodium, and TDS were observed near coastal areas, suggesting possible saltwater intrusion or anthropogenic inputs.

### Major-Ion Chemistry

Piper diagrams show two dominant cation facies: mixed  $\text{Ca}^{2+}$ – $\text{Mg}^{2+}$ – $\text{Na}^{+}$ + $\text{K}^{+}$  waters and  $\text{Na}^{+}$ + $\text{K}^{+}$ -enriched waters, the latter reflecting ion exchange and longer residence times. The

dominant anions ( $\text{Cl}^{-}$ + $\text{NO}_3^{-}$ ) are consistent with agricultural and septic influences. High-nitrate samples ( $> 10$  mg/L) typically exhibit  $\text{Ca}^{2+}$ – $\text{Mg}^{2+}$ – $\text{NO}_3^{-}$ + $\text{Cl}^{-}$  compositions, resembling the “calcium-magnesium-nitrate” water type characteristic of recharge influenced by agricultural activity. These hydrochemical signatures are consistent with those described by Kasper and Strohmeier (2007).

### Nutrient Occurrence

Nitrate was detected in all samples (0.22–30.5 mg/L), exceeding the PMCL in 25.5% of wells. Elevated nitrate concentrations were observed across all depth intervals, with the highest median values (8.8–9.7 mg/L) in wells screened between 50 and 79 ft bgs. Ammonia and phosphorus were generally absent or present at very low concentrations, reflecting oxic aquifer conditions that suppress their mobility.

### Temporal Trends (2001–2003 vs. 2024)

Comparisons with the 2001–2003 dataset indicate that groundwater chemistry in the IRBW has remained largely stable over the intervening two decades:

- **Nitrate:** PMCL exceedances declined from 32% to 25.5%, and median concentrations decreased slightly (6.41 to 6.02 mg/L). A paired analysis of 50 wells showed a statistically significant decrease in nitrate concentrations (Wilcoxon signed-rank  $p=0.021$ ), although nitrate remains widespread and above background levels ( $> 0.4$  mg/L) in nearly all samples.
- **Redox Conditions:** Median DO increased from 3.5 to 5.6 mg/L, and iron non-detects rose from 44% to 98%, indicating a shift toward more oxidizing aquifer conditions.
- **Salinity Indicators:** Slight increases in sodium (median 9,630 to 13,300  $\mu\text{g}/\text{L}$ ) and chloride (15 to 20 mg/L) suggest persistent anthropogenic inputs or localized saltwater influence.

- **Sulfate and Hardness:** Sulfate increased modestly (median 2.4 to 8.1 mg/L), but all values remained below health advisories or secondary standards. Water hardness remained predominantly soft, with localized areas of moderate hardness associated with higher TDS, chloride, and sodium.

## Conclusions

1. **Overall Stability with Localized Changes** - Bulk groundwater chemistry in the IRBW has remained largely stable since 2001–2003, with slight increases in TDS, sodium, chloride, and sulfate, and a shift toward more oxidizing conditions.
2. **Persistent Nitrate Contamination** - Although the proportion of PMCL exceedances has declined slightly, nitrate concentrations remain elevated above natural background levels, indicating continued vulnerability of drinking water supplies to nonpoint-source nitrogen inputs.
3. **Limited Phosphorus Mobility** - Phosphorus concentrations remain low, with only isolated exceedances, reflecting restricted transport potential under the oxic conditions of the surficial aquifer.
4. **Need for Continued Monitoring** - Long-term groundwater monitoring at fixed sites is essential to evaluate BMP effectiveness, identify emerging problem areas, and guide nutrient reduction strategies aligned with TMDL goals.

## Management Implications

Although the Columbia aquifer in the IRBW maintains good overall water quality, elevated nitrate and rising salinity indicate continued loading of contaminants to shallow groundwater. The persistence of long-term, widespread nitrate contamination from nonpoint sources such as agriculture and land use practices underscores the pervasive nature of nitrate in the surficial aquifer, and reflects the slow response of groundwater systems to management efforts. Elevated sodium and chloride concentrations near Indian River Bay suggest potential coastal saltwater intrusion or wastewater influences. These findings emphasize the persistence of legacy nutrient inputs and highlight the need for continued nutrient management, targeted monitoring in coastal areas, and evaluation of BMP effectiveness to mitigate further contaminant loading.

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**Appendix 1.** Water quality data for domestic wells within the surficial aquifer in the Indian River Bay Watershed, 2024. Part 1: Well IDs 3975 – 11226.

[**Local ID**, well ID used in Kasper and Strohmeier’s 2007 report; **Easting** and **Northing**: Delaware State Plane coordinates in meters (m), North American Datum of 1983 (NAD83); **ft bgs**, feet below ground surface; **µS/cm**, microsiemens per centimeter; **°C**, degrees Celsius; **mg/L**, milligrams per liter; **µg/L**, micrograms per liter; **TDS**, total dissolved solids; **<**, less than – used when concentration is below method detection limit (result reported as < MDL); **J**, estimated value – concentration is less than quantitation limit and greater than MDL; **—**, no data]

| Well ID | Local ID | Easting (m) | Northing (m) | Sample Date | Midpoint of screen interval (ft. bgs) | Spec. Cond. (µS/cm) | pH   | Temp. (°C) | Dissolved Oxygen (mg/L) | Alkalinity as CaCO <sub>3</sub> (mg/L) | Chloride, dissolved (mg/L) |
|---------|----------|-------------|--------------|-------------|---------------------------------------|---------------------|------|------------|-------------------------|----------------------------------------|----------------------------|
| 3975    | IRB-156  | 228950      | 63415.7      | 8/8/24      | 58                                    | 77.67               | 4.79 | 16.25      | 2.83                    | 4.8                                    | 17                         |
| 4387    | IRB-247  | 212109      | 66741        | 8/22/24     | 60                                    | 783.83              | 4.99 | 16         | 7.92                    | 4.3                                    | 244                        |
| 32804   | IRB-220  | 226255      | 65328.7      | 8/13/24     | 70                                    | 119.33              | 5.16 | 16.5       | 0.62                    | 12.4                                   | 21                         |
| 39259   | IRB-153  | 229581      | 64646.1      | 8/5/24      | 31                                    | 330.7               | 5.43 | 16.38      | 7.2                     | 4.7                                    | 135                        |
| 43749   | IRB-223  | 217538      | 58685.3      | 8/19/24     | 49                                    | 150.42              | 6.23 | 16.29      | 6.81                    | < 2.3                                  | 10                         |
| 51355   | IRB-070  | 228906      | 62731.4      | 8/8/24      | 64                                    | 121.2               | 5.16 | 16.04      | 4.83                    | 5.6                                    | 22                         |
| 58023   | IRB-135  | 214116      | 64237.1      | 8/8/24      | 61                                    | 186.66              | 6.1  | 17.37      | 6.62                    | 51.9                                   | 53                         |
| 63402   | IRB-052  | 215415      | 67961.4      | 8/20/24     | 64                                    | 92.64               | 5.35 | 16.42      | 9.11                    | 5.3                                    | 11                         |
| 64197   | IRB-051  | 216638      | 67718        | 8/5/24      | 53                                    | 85.58               | 5.44 | 16.01      | 5.66                    | 7.9                                    | 14                         |
| 66064   | IRB-255  | 217412      | 65870.5      | 8/20/24     | 95                                    | 114.1               | 5.6  | 16.19      | 6.61                    | 16.1                                   | 21                         |
| 71393   | IRB-252  | 207447      | 63341.4      | 8/19/24     | 49                                    | 178.61              | 3.55 | 17.36      | 5.4                     | 34.6                                   | 56                         |
| 79795   | IRB-154  | 229505      | 63595.7      | 8/13/24     | 97                                    | 119.35              | 5.49 | 16.62      | 3.21                    | 6.6                                    | 12                         |
| 80606   | IRB-253  | 215696      | 69345.5      | 8/20/24     | 55                                    | 102.02              | —    | 15.18      | 6.56                    | 7.3                                    | 20                         |
| 84089   | IRB-184  | 205477      | 75530        | 7/11/24     | 57                                    | 208.88              | 5.36 | 15.74      | 7.34                    | < 2.3                                  | 10                         |
| 88432   | IRB-206  | 204728      | 72571.7      | 7/30/24     | 60                                    | 95.04               | 5.48 | 17.44      | 8.98                    | 7.1                                    | 20                         |
| 92926   | IRB-215  | 220188      | 62194.2      | 7/24/24     | 75                                    | 233.35              | 5.34 | 18.09      | 7.51                    | 5.8                                    | 26                         |
| 95710   | IRB-228  | 208070      | 76157.9      | 7/11/24     | 60                                    | 67.36               | 4.75 | 16.5       | 9.66                    | 4.9                                    | 39                         |
| 105358  | IRB-143  | 206167      | 63944.7      | 8/26/24     | 65                                    | 157.7               | 4.93 | 16.74      | 4.83                    | 7.5                                    | 25                         |
| 107017  | IRB-209  | 209012      | 66238.2      | 8/1/24      | 55                                    | 98.79               | 5.24 | 16.4       | 8.31                    | 4.1                                    | 12                         |
| 108046  | IRB-038  | 217353      | 59516        | 8/13/24     | 60                                    | 123.34              | 4.91 | 16.63      | 5.6                     | 3.5                                    | 14                         |
| 110787  | IRB-254  | 216874      | 66624        | 8/5/24      | 63                                    | 142.99              | 5.34 | 15.7       | 6.26                    | 6.9                                    | 34                         |
| 110928  | IRB-042  | 218920      | 68671.9      | 8/20/24     | 75                                    | 64.88               | 4.61 | 16.15      | 7.08                    | 3.5                                    | 14                         |
| 111327  | IRB-059  | 227130      | 60042.8      | 8/26/24     | 65                                    | 65.41               | 5.42 | 16.69      | 4.02                    | 10.2                                   | 8                          |
| 112226  | IRB-155  | 229177      | 63440.7      | 8/19/24     | 85                                    | 100.63              | 2.07 | 16.28      | 0.37                    | 10.5                                   | 21                         |

**Appendix 1 (Continued).** Water quality data for domestic wells within the surficial aquifer in the Indian River Bay Watershed, 2024. Part 1: Well IDs 3975 – 112226.

| Ammonia as nitrogen, dissolved (mg/L) | Nitrate as nitrogen, dissolved (mg/L) | Phosphorus, dissolved (mg/L) | Silica as SiO <sub>2</sub> , dissolved (mg/L) | Sulfate, dissolved (mg/L) | Calcium, dissolved (µg/L) | Iron, dissolved (µg/L) | Magnesium, dissolved (µg/L) | Potassium, dissolved (µg/L) | Sodium, dissolved (µg/L) | TDS (mg/L) |
|---------------------------------------|---------------------------------------|------------------------------|-----------------------------------------------|---------------------------|---------------------------|------------------------|-----------------------------|-----------------------------|--------------------------|------------|
| < 0.010                               | 4.66                                  | < 0.006                      | 13.5                                          | 2                         | 1820                      | < 18.2                 | 2450                        | 1960                        | 13400                    | 50         |
| < 0.010                               | 21.3                                  | < 0.006                      | 13.6                                          | 98.5                      | 34400                     | < 18.2                 | 14100                       | 21200                       | 126000                   | 510        |
| < 0.010                               | 7.35                                  | 0.018                        | 18.9                                          | 2.4                       | 3240                      | < 18.2                 | 4200                        | 2480                        | 18700                    | 80         |
| < 0.010                               | 2.51                                  | < 0.006                      | 13.7                                          | 5.1                       | 16200                     | < 18.2                 | 8430                        | 4280                        | 51700                    | 210        |
| < 0.010                               | 6.02                                  | 0.011                        | 13.5                                          | 18.3                      | 6080                      | < 18.2                 | 5940                        | 2120                        | 32300                    | 100        |
| < 0.010                               | 3.32                                  | 0.011                        | 16.7                                          | 22.9                      | 5230                      | < 18.2                 | 6000                        | 2350                        | 16100                    | 80         |
| < 0.010                               | 1.33                                  | 0.063                        | 14.4                                          | < 1.0                     | < 1000                    | < 18.2                 | < 1000                      | <1000                       | 55000                    | 120        |
| < 0.010                               | 7.33                                  | 0.015                        | 18.5                                          | 14.7                      | 10700                     | < 18.2                 | 4300                        | 1610                        | 5340                     | 60         |
| < 0.010                               | 3.9                                   | 0.015                        | 23.8                                          | 10.7                      | 7410                      | < 18.2                 | 3650                        | 1530                        | 8230                     | 60         |
| < 0.010                               | 4.29                                  | 0.015                        | 13.6                                          | 12                        | 6670                      | < 18.2                 | 3940                        | 2460                        | 13700                    | 70         |
| < 0.010                               | 0.219                                 | 0.015                        | 20                                            | 1                         | < 1000                    | < 18.2                 | < 1000                      | <1000                       | 45500                    | 120        |
| < 0.010                               | 7.44                                  | 0.013                        | 12.9                                          | 21.2                      | 7450                      | < 18.2                 | 6710                        | 1490                        | 9650                     | 80         |
| < 0.010                               | 3.94                                  | 0.022                        | 19.2                                          | 13.3                      | 7970                      | < 18.2                 | 3890                        | 2100                        | 8880                     | 70         |
| < 0.010                               | 6.99                                  | 0.013                        | 14.6                                          | 3.2                       | < 1000                    | < 18.2                 | < 1000                      | 1770                        | 16600                    | 140        |
| < 0.010                               | 8.5                                   | < 0.006                      | 16                                            | 1.1                       | 12700                     | < 18.2                 | 2500                        | 3360                        | 7090                     | 60         |
| < 0.010                               | 27.5                                  | 0.013                        | 29.5                                          | 2.8                       | 30600                     | < 18.2                 | 8990                        | 2180                        | 14800                    | 150        |
| < 0.010                               | 14.9                                  | 0.014                        | 26.3                                          | 19.4                      | 20400                     | < 18.2                 | 5670                        | 4370                        | 21300                    | 40         |
| < 0.010                               | 16.9                                  | 0.014                        | 19.7                                          | < 1.0                     | 13000                     | < 18.2                 | 6740                        | 4530                        | 6720                     | 100        |
| < 0.010                               | 8.23                                  | 0.007 J                      | 15.4                                          | 8.9                       | 7660                      | < 18.2                 | 6510                        | 2080                        | 4570                     | 60         |
| < 0.010                               | 11.5                                  | 0.014                        | 18.6                                          | 4.1                       | 9940                      | < 18.2                 | 6100                        | 2200                        | 7460                     | 80         |
| < 0.010                               | 5.35                                  | 0.011                        | 24.5                                          | 14.1                      | 12000                     | < 18.2                 | 4680                        | 2340                        | 16400                    | 90         |
| < 0.010                               | 5.22                                  | 0.012                        | 13                                            | < 1.0                     | 5520                      | < 18.2                 | 2600                        | 2560                        | 4430                     | 40         |
| < 0.010                               | 1.91                                  | 0.019                        | 16.4                                          | 20.2                      | 6290                      | 35.1 J                 | 3750                        | 1350                        | 6300                     | 40         |
| < 0.010                               | 4.16                                  | 0.016                        | 18.1                                          | 9.5                       | 5460                      | < 18.2                 | 3150                        | 2210                        | 12800                    | 70         |

**Appendix 1 (Continued).** Water quality data for domestic wells within the surficial aquifer in the Indian River Bay Watershed, 2024. Part 2: Well IDs 156299 – 188484.

| Well ID | Local ID | Easting (m) | Northing (m) | Sample Date | Midpoint of screen interval (ft. bgs) | Spec. Cond. (µS/cm) | pH   | Temp . (°C) | Dissolved Oxygen (mg/L) | Alkalinity as CaCO <sub>3</sub> (mg/L) | Chloride, dissolved (mg/L) |
|---------|----------|-------------|--------------|-------------|---------------------------------------|---------------------|------|-------------|-------------------------|----------------------------------------|----------------------------|
| 156299  | IRB-013  | 207958.4    | 71268.53     | 8/21/24     | 74                                    | 191.52              | 5.3  | 16.38       | 5.96                    | 10                                     | 31                         |
| 159113  | IRB-063  | 215989.8    | 62241.81     | 8/5/24      | 55                                    | 307.23              | 4.67 | 16.5        | 5.07                    | < 2.3                                  | 88                         |
| 159582  | IRB-250  | 213019.8    | 70830.47     | 8/22/24     | 45                                    | 53.43               | 4.79 | 15.32       | 8.53                    | < 2.3                                  | < 5                        |
| 159625  | IRB-138  | 204660.3    | 71322.27     | 7/30/24     | 55                                    | 247.57              | 4.68 | 15.6        | 2.89                    | < 2.3                                  | 27                         |
| 160251  | IRB-006  | 212259.8    | 74619.14     | 8/22/24     | 61                                    | 66.54               | 5.52 | 15.83       | 4.78                    | 11.2                                   | 10                         |
| 160538  | IRB-097  | 208397.5    | 67963.22     | 8/1/24      | 55                                    | 100.05              | 5.07 | 16.13       | 6.15                    | 7.9                                    | 27                         |
| 160619  | IRB-159  | 228306.6    | 60065.62     | 8/26/24     | 57                                    | 210.54              | 7.57 | 22.78       | 4.33                    | 93.9                                   | 38                         |
| 161412  | IRB-181  | 207880.2    | 63860.86     | 7/30/24     | 75                                    | 90.1                | 5.09 | 16.18       | 4.11                    | 12                                     | 18                         |
| 163704  | IRB-099  | 229392.1    | 63757.13     | 8/8/24      | 59                                    | 989.3               | 4.97 | 17.96       | 6.01                    | 3.5                                    | 409                        |
| 164571  | IRB-019  | 221846.6    | 62818.12     | 8/26/24     | 75                                    | 67.16               | 5.53 | 15.99       | 2.92                    | 12.9                                   | 12                         |
| 166111  | IRB-077  | 226041.4    | 63965.53     | 8/8/24      | 75                                    | 136.64              | 4.93 | 16.58       | 1                       | 5.2                                    | 18                         |
| 167036  | IRB-098  | 213371.5    | 63444.65     | 8/1/24      | 45                                    | 174.47              | 4.54 | 15.66       | 2.79                    | < 2.3                                  | 28                         |
| 168759  | IRB-204  | 218687.7    | 63393.98     | 8/26/24     | 65                                    | 146.53              | 5.4  | 16.65       | 4.03                    | 11.4                                   | 19                         |
| 169545  | IRB-043  | 227473      | 62457.4      | 7/23/24     | 73                                    | 82.99               | 5.21 | 15.6        | 2.41                    | 12.8                                   | 14                         |
| 171337  | IRB-020  | 222331.9    | 62148.38     | 8/26/24     | 65                                    | 349.07              | 5.39 | 16          | 1.04                    | 16.5                                   | 109                        |
| 172645  | IRB-054  | 208388.5    | 74759.73     | 8/22/24     | 45                                    | 46.39               | 5.01 | 15.57       | 5.42                    | 8.9                                    | < 5                        |
| 172864  | IRB-229  | 213391      | 72126.17     | 7/30/24     | 47                                    | 91.21               | 5.54 | 16.78       | 5.9                     | 12.5                                   | 25                         |
| 173433  | IRB-221  | 225962.1    | 65212.11     | 8/13/24     | 60                                    | 120.14              | 4.89 | 14.87       | 4.06                    | 6.3                                    | 31                         |
| 174006  | IRB-140  | 202345.5    | 62529.4      | 8/21/24     | 63                                    | 139.44              | 6.13 | 15.55       | 7.85                    | 31.5                                   | 13                         |
| 174021  | IRB-211  | 217905.6    | 59070.46     | 8/13/24     | 72                                    | 98.52               | 4.76 | 16.35       | 9.13                    | 2.7                                    | 9                          |
| 174733  | IRB-207  | 205474.7    | 71672.27     | 7/30/24     | 57                                    | 149.24              | 4.9  | 16.55       | 7.54                    | 2.8                                    | 15                         |
| 175485  | IRB-175  | 209761.2    | 63260.53     | 8/21/24     | 35                                    | 93                  | 4.9  | 16.92       | 1.75                    | 7.9                                    | 14                         |
| 176800  | IRB-095  | 223159.5    | 61423.4      | 7/23/24     | 70                                    | 129.28              | 5.29 | 15.86       | 4.2                     | 11.4                                   | 30                         |
| 183883  | IRB-245  | 216744      | 61555.12     | 7/24/24     | 55                                    | 169.33              | 4.96 | 18.79       | 8.06                    | 2.9                                    | 36                         |
| 184654  | IRB-216  | 219745.6    | 61889.62     | 7/24/24     | 52                                    | 173.39              | 5.27 | 17.46       | 6.53                    | 6.2                                    | 30                         |
| 184953  | IRB-203  | 217871.5    | 58924.93     | 7/23/24     | 55                                    | 102.53              | 4.86 | 17.4        | 2.53                    | 4.1                                    | 19                         |
| 188484  | IRB-232  | 208143.7    | 72864.47     | 8/5/24      | 55                                    | 65.53               | 5.49 | 16.12       | 4.26                    | 13.7                                   | 9                          |

**Appendix 1 (Continued).** Water quality data for domestic wells within the surficial aquifer in the Indian River Bay Watershed, 2024. Part 2: Well IDs 156299 – 188484.

| Ammonia as nitrogen, dissolved (mg/L) | Nitrate as nitrogen, dissolved (mg/L) | Phosphorus, dissolved (mg/L) | Silica as SiO <sub>2</sub> , dissolved (mg/L) | Sulfate, dissolved (mg/L) | Calcium, dissolved (µg/L) | Iron, dissolved (µg/L) | Magnesium, dissolved (µg/L) | Potassium, dissolved (µg/L) | Sodium, dissolved (µg/L) | TDS (mg/L) |
|---------------------------------------|---------------------------------------|------------------------------|-----------------------------------------------|---------------------------|---------------------------|------------------------|-----------------------------|-----------------------------|--------------------------|------------|
| < 0.010                               | 20.1                                  | 0.018                        | 26.5                                          | < 1.0                     | 23300                     | < 18.2                 | 4780                        | 2560                        | 13300                    | 120        |
| < 0.010                               | 10.4                                  | < 0.006                      | 9.5                                           | 29                        | 2050                      | < 18.2                 | 2810                        | 5370                        | 71500                    | 200        |
| < 0.010                               | 3                                     | 0.008 J                      | 8.6                                           | 12.3                      | 2530                      | < 18.2                 | 2710                        | 2120                        | 4020                     | 30         |
| < 0.010                               | 30.5                                  | 0.054                        | 15.5                                          | < 1.0                     | 20300                     | < 18.2                 | 15200                       | 6330                        | 10100                    | 160        |
| < 0.010                               | 4.77                                  | 0.016                        | 20.3                                          | 2                         | 5640                      | < 18.2                 | 1440                        | 1680                        | 7620                     | 40         |
| < 0.010                               | 3.88                                  | 0.009 J                      | 21.2                                          | 4.5                       | 5230                      | < 18.2                 | 2660                        | 2400                        | 14600                    | 60         |
| 0.035                                 | 1.59                                  | 0.151                        | 26                                            | 2.1                       | 12500                     | < 18.2                 | 2540                        | 2550                        | 42400                    | 140        |
| < 0.010                               | 5.03                                  | 0.01                         | 23.9                                          | 1.6                       | 5660                      | < 18.2                 | 2270                        | 2900                        | 12600                    | 60         |
| < 0.010                               | 7.8                                   | < 0.006                      | 15.1                                          | 8.1                       | 31200                     | < 18.2                 | 32300                       | 12600                       | 165000                   | 640        |
| < 0.010                               | 2.6                                   | 0.021                        | 22.4                                          | 5.1                       | 3770                      | < 18.2                 | 1440                        | 1220                        | 10500                    | 40         |
| < 0.010                               | 8.36                                  | 0.01                         | 18.2                                          | 16.7                      | 7150                      | < 18.2                 | 8060                        | 3350                        | 13000                    | 90         |
| < 0.010                               | 12.9                                  | < 0.006                      | 14.1                                          | 17.9                      | 10900                     | < 18.2                 | 4230                        | 6700                        | 20500                    | 110        |
| < 0.010                               | 15.1                                  | 0.017                        | 23.4                                          | 1.9                       | 15200                     | < 18.2                 | 3480                        | 2310                        | 12200                    | 100        |
| < 0.010                               | 4.9                                   | 0.018                        | 27.2                                          | 2.1                       | 4490                      | < 18.2                 | 1400                        | 1370                        | 16000                    | 50         |
| < 0.010                               | 8.44                                  | 0.018                        | 19.2                                          | 16.1                      | 6920                      | < 18.2                 | 2910                        | 3880                        | 71400                    | 230        |
| < 0.010                               | 0.355                                 | 0.017                        | 18.4                                          | 12.9                      | 2140                      | < 18.2                 | 1070                        | 4330                        | 5350                     | 30         |
| < 0.010                               | 2.5                                   | 0.012                        | 17.3                                          | 3.1                       | 8340                      | < 18.2                 | 1820                        | 2130                        | 11400                    | 60         |
| < 0.010                               | 5.91                                  | 0.013                        | 16.7                                          | 1                         | 4500                      | < 18.2                 | 3610                        | 2240                        | 17000                    | 80         |
| < 0.010                               | 8.83                                  | 0.014                        | 17.9                                          | 10.4                      | 19800                     | < 18.2                 | 4700                        | 3240                        | 5500                     | 90         |
| < 0.010                               | 7.91                                  | 0.022                        | 14.8                                          | 12.2                      | 4890                      | < 18.2                 | 6950                        | 2500                        | 5150                     | 60         |
| < 0.010                               | 18.4                                  | 0.007 J                      | 17.8                                          | < 1.0                     | 15800                     | < 18.2                 | 5600                        | 3630                        | 9490                     | 100        |
| < 0.010                               | 5.04                                  | 0.015                        | 16.7                                          | 15.4                      | < 1000                    | < 18.2                 | < 1000                      | <1000                       | 24300                    | 60         |
| < 0.010                               | 7.74                                  | 0.015                        | 24.3                                          | 7.5                       | 13200                     | < 18.2                 | 3420                        | 1640                        | 15000                    | 80         |
| < 0.010                               | 11.1                                  | 0.009 J                      | 13.6                                          | 14.1                      | 8400                      | < 18.2                 | 8410                        | 4900                        | 19700                    | 110        |
| < 0.010                               | 12.5                                  | 0.012                        | 24.6                                          | 18.2                      | 21000                     | < 18.2                 | 6810                        | 2140                        | 13500                    | 110        |
| < 0.010                               | 3.8                                   | 0.009 J                      | 14.7                                          | 17.3                      | 7280                      | < 18.2                 | 6040                        | 1940                        | 8950                     | 70         |
| < 0.010                               | 4.34                                  | 0.013                        | 22.3                                          | < 1.0                     | 6040                      | < 18.2                 | 1290                        | 1800                        | 8890                     | 40         |



DELAWARE DEPARTMENT OF  
**NATURAL RESOURCES AND  
ENVIRONMENTAL CONTROL**

Watershed Assessment Branch  
285 Beiser Blvd, Suite 102  
Dover, DE 19904  
302-739-9921  
[dnrec.delaware.gov](http://dnrec.delaware.gov)

Matthew T. Grabowski  
Environmental Program Administrator  
Division of Water, DNREC  
89 Kings Hwy  
Dover, DE 19901

RE: Data Submittal for Delaware's 2026 Integrated Report

The Delaware Department of Natural Resources and Environmental Control's (DNREC) Watershed Assessment Branch (WAB) received your submitted groundwater quality data on October 24, 2025, for consideration in the 2026 Integrated Report (IR). The DNREC WAB reviewed the Submitted Data per the July 28, 2025, External Data Policy, which was publicly posted as part of the 2026 Integrated Report Data Solicitation on August 8, 2025 (<https://dnrec.delaware.gov/public-notice/wss20250294/>). The Submitted Data was determined to be classified as Tier-II: Supporting Data.

The submitted report was considered as part of statewide reporting of water quality status to fulfil the Clean Water Act (CWA) section 305(b) requirements. A summary of the report findings was included in chapter 4 of the 2026 Integrated Report and the full report included in the appendix. DNREC WAB appreciates the Division of Water's efforts in monitoring Delaware's groundwater and invites you to submit data for future IRs.

Please reach out to Josh Barth via email: [Joshua.barth@delaware.gov](mailto:Joshua.barth@delaware.gov) or via cell: 302-535-0699, should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Josh Barth".

**Joshua Barth**

Environmental Program Manager-II

## Appendix H: External Data

### Submitted Data and Reports

DRAFT

## Public Notice Documentation

DRAFT



**AFFIDAVIT OF PUBLICATION**

Kim Stangl  
Sd Soil Water Dnrec  
97 Commerce WAY # 106  
Dover DE 19904-7794



DNREC – Division of Watershed Stewardship  
Watershed Assessment Branch

**PUBLIC NOTICE**

**DELAWARE'S 2026 DRAFT 305(B) AND 303(D) WATERS  
ASSESSMENT METHODOLOGIES AND DATA SOLICITATION**

This notice announces the availability and opportunity to comment on the Delaware Department of Natural Resources and Environmental Control's Draft Assessment and Listing Methodologies for Delaware's 2026 Combined Watershed Assessment Report (305(b)) and Determination for the Clean Water Act Section 303(d) List of Waters Needing TMDLs (the Integrated Report). EPA's Integrated Reporting Guidance documents are available online at [www.epa.gov/tmdl/identifying-and-listing-impairedwaters-under-clean-water-act](http://www.epa.gov/tmdl/identifying-and-listing-impairedwaters-under-clean-water-act).

The Department plans to have a draft Integrated Report ready for public comment by January 2026.

The Draft Assessment Methodologies document is available on the Department's website at <https://documents.dnrec.delaware.gov/Watershed/Assessment/2026DRAFT-Integrated-Report-Assessment-Methodologies.pdf>.

Related documents and prior Integrated Reports are available on the Department's website at [dnrec.delaware.gov/watershed-stewardship/assessment/reports/](https://documents.dnrec.delaware.gov/Watershed/Assessment/reports/).

Additionally, the Department is soliciting additional data or information from the public that may not already be considered for the Draft Integrated Report. The Department has developed an external data policy, explaining how any data received will be used. The policy can be found on the Department's website at <https://documents.dnrec.delaware.gov/Watershed/Assessment/External-DataPolicy.pdf>. Please contact the Department not later than September 8, 2025, to submit pertinent data and information.

All comments on the Assessment Methodologies document and any additional data received on or prior September 8, 2025, will be considered in developing the Integrated Report. Comments and data may be sent to Dr. Bhanu Paudel by mail at DNREC/Division of Watershed Stewardship, Watershed Assessment and Management Section, 285 Beiser Blvd., Suite 102, Dover, DE 19904 or email at [SurfaceWQS@delaware.gov](mailto:SurfaceWQS@delaware.gov). Electronic submissions are preferred.

Please call Dr. Paudel at (302) 739-9939 with questions or requests for additional information.

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8/8-NJ

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State of Wisconsin

## Proof of Publication

8/8/2025

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Before me, a Notary Public, for the County and State aforesaid. Tonda L. Parks, known to me to be such, who being sworn according to law deposed and says that she is the Associate Publisher of **Daily State News**, a daily newspaper published at Dover, County of Kent, and State of Delaware, and that the notice, a copy of which is hereto attached, as published in the **Daily State News** in its issue(s) of

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DSN: 8/8/2025 .



Tonda L. Parks  
Associate Publisher  
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Notary Public this date of 8/8/2025

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| Name          | DNREC WATERSHED ASSESSMENT SECTION          |
| Order Number  | 27937                                       |
| Ordered By    | KIM STANGL                                  |
| Order Date    | 8/5/2025                                    |
| Description   | DNREC/Watershed Assessment                  |
| Number Issues | 2                                           |
| Pub Count     | 2                                           |
| Ad Cost       | \$190.20                                    |
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#### DNREC-Division of Watershed Stewardship Watershed Assessment Branch

#### PUBLIC NOTICE

#### DELAWARE'S 2026 DRAFT 305(B) AND 303(D) WATERS ASSESSMENT METHODOLOGIES AND DATA SOLICITATION

This notice announces the availability and opportunity to comment on the Delaware Department of Natural Resources and Environmental Control's Draft Assessment and Listing Methodologies for Delaware's 2026 Combined Watershed Assessment Report (305(b)) and Determination for the Clean Water Act Section 303(d) List of Waters Needing TMDLs (the Integrated Report). EPA's Integrated Reporting Guidance documents are available online at [www.epa.gov/tmdl/identifying-and-listing-impaired-waters-under-clean-water-act](http://www.epa.gov/tmdl/identifying-and-listing-impaired-waters-under-clean-water-act).

The Department plans to have a draft Integrated Report ready for public comment by January 2026.

The Draft Assessment Methodologies document is available on the Department's website at <https://documents.dnrec.delaware.gov/Watershed/Assessment/2026-DRAFT-Integrated-Report-Assessment-Methodologies.pdf>.

Related documents and prior Integrated Reports are available on the Department's website at [dnrec.delaware.gov/watershed-stewardship/assessment/reports/](http://dnrec.delaware.gov/watershed-stewardship/assessment/reports/).

Additionally, the Department is soliciting additional data or information from the public that may not already be considered for the Draft Integrated Report. The Department has developed an external data policy, explaining how any data received will be used. The policy can be found on the Department's website at <https://documents.dnrec.delaware.gov/Watershed/Assessment/External-Data-Policy.pdf>. Please contact the Department not later than September 8, 2025, to submit pertinent data and information.

All comments on the Assessment Methodologies document and any additional data received on or prior September 8, 2025, will be considered in developing the Integrated Report. Comments and data may be sent to Dr. Bhanu Paudel by mail at DNREC/Division of Watershed Stewardship, Watershed Assessment and Management Section, 285 Beiser Blvd., Suite 102, Dover, DE 19904 or email at [SurfaceWQS@delaware.gov](mailto:SurfaceWQS@delaware.gov). Electronic submissions are preferred.

Please call Dr. Paudel at (302) 739-9939 with questions or requests for additional information.

DNREC Notice No. WSS20250294

View DNREC's non-discrimination policy at <https://de.gov/titlevi>

27937 DSN 8/8/2025



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Watershed Assessment Branch**

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**DNREC – Divizyon Administrasyon Basen Dlo**

**Sikisal Evalyasyon Basen Dlo**

**NOTIFIKASYON PIBLIK**

**PREMYE VÈSYON PWOJÈ 305(B) AK 303(D) AN 2026  
NAN DELAWARE SOU METODOLOJI EVALYASYON DLO  
AK SOLISITASYON DONE**

Notifikasyon sa a anonse disponiblite ak opòtinite pou fè kòmantè sou Premye Vèsyon Evalyasyon ak Metodoloji Referansman ki soti nan men Depatman Resous Natirèl ak Kontwòl Anviwònmantral la pou Rapò Konbine an 2026 nan Delaware sou Evalyasyon Basen Dlo (305 (b)) ak Detèminasyon pou Seksyon Lwa Dlo Pwòp 303 (d) Lis Mas Dlo ki Bezwen TMDLs (Rapò Entegre a). Dokiman sou Oryantasyon Rapò Entegre ki soti nan EPA a disponib anliy sou [www.epa.gov/tmdl/identifying-and-listing-impaired-waters-under-clean-water-act](http://www.epa.gov/tmdl/identifying-and-listing-impaired-waters-under-clean-water-act).

Depatman gen plan pou l gen yon premye vèsyon Rapò Entegre prè pou kòmantè piblik apati Janvyè 2026.

Dokiman Premye Vèsyon Metodoloji Evalyasyon disponib sou sit wèb Depatman an nan <https://documents.dnrec.delaware.gov/Watershed/Assessment/2026-DRAFT-Integrated-Report-Assessment-Methodologies.pdf>.

Dokiman ki lye ak ansyen Rapò Entegre disponib sou sit wèb Depatman an nan [dnrec.delaware.gov/watershed-stewardship/assessment/reports/](http://dnrec.delaware.gov/watershed-stewardship/assessment/reports/).

Adisyonèlman, Depatman an ap solisite done oubyen enfòmasyon adisyonèl nan men piblik la ki ka petèt poko konsidere pou Premye Vèsyon Rapò Entegre a. Depatman an te devlope yon politik done ekstèn, ki eksplike kijan nenpòt done yo resevwa pral itilize.

Ou ka jwenn regleman an sou sit wèb Depatman an nan <https://documents.dnrec.delaware.gov/Watershed/Assessment/External-Data-Policy.pdf>. Tanpri kontakte Depatman an pa pita pase 8 Septanm 2025, pou w soumèt done ak enfòmasyon apwopriye.

Tout kòmantè sou dokiman Metodoloji Evalyasyon ak nenpòt done adisyonèl ki resevwa nan dat oubyen anvan 8 septanm 2025 pral konsidere nan kad devlopman Rapò Entegre a. Ou ka voye kòmantè oubyen done bay Dr. Bhanu Paudel atravè lapòs nan DNREC/Division of Watershed Stewardship, Watershed Assessment and Management Section, 285 Beiser Blvd., Suite 102, Dover, DE 19904 oubyen voye yon imel nan [SurfaceWQS@delaware.gov](mailto:SurfaceWQS@delaware.gov). Nou prefere mesaj elektwonik.

Tanpri rele Dr. Paudel nan (302) 739-9939 ak kesyon oubyen demann pou enfòmasyon adisyonèl.

Nimewo Notifikasyon DNREC : WSS20250294  
Konsilte politik anti-diskriminasyon DNREC a nan  
<https://de.gov/titlevi>



**DNREC – División de Administración de Cuencas  
Sección de Evaluación y Gestión de Cuencas  
AVISO PÚBLICO**

**METODOLOGÍAS DE EVALUACIÓN DE AGUAS Y SOLICITUD DE  
DATOS PARA EL INFORME 305(b)/303(d) DE DELAWARE  
VERSIÓN PRELIMINAR 2026**

Este aviso anuncia la disponibilidad y la oportunidad de enviar comentarios sobre la Versión Preliminar de las Metodologías de Evaluación y Listado del Departamento de Recursos Naturales y Control Ambiental (*Department of Natural Resources and Environmental Control*, DNREC), correspondientes al Informe Integrado de Evaluación de Cuencas 2026 de Delaware (305(b)) y a la Determinación conforme a la Sección 303(d) de la Ley de Agua Limpia (*Clean Water Act*, CWA), que identifica los cuerpos de agua que requieren la elaboración de Límites Máximos de Carga Diaria (*Total Maximum Daily Load*, TMDL). Los documentos de orientación de la Agencia de Protección Ambiental (*Environmental Protection Agency*, EPA) sobre la elaboración de informes integrados están disponibles en línea en [www.epa.gov/tmdl/identifying-and-listing-impaired-waters-under-clean-water-act](http://www.epa.gov/tmdl/identifying-and-listing-impaired-waters-under-clean-water-act).

El Departamento tiene previsto contar con una versión preliminar del Informe Integrado disponible para comentarios públicos en enero de 2026.

El documento con las Metodologías de Evaluación – Versión Preliminar está disponible en el sitio web del Departamento en <https://documents.dnrec.delaware.gov/Watershed/Assessment/2026-DRAFT-Integrated-Report-Assessment-Methodologies.pdf>.

Los documentos relacionados y los Informes Integrados anteriores están disponibles en el sitio web del Departamento [dnrec.delaware.gov/watershed-stewardship/assessment/reports/](http://dnrec.delaware.gov/watershed-stewardship/assessment/reports/).

Además, el Departamento está solicitando datos o información adicional del público que aún no se haya considerado para la elaboración del Informe Integrado que se encuentra en su fase preliminar. El Departamento ha desarrollado una política de uso de datos externos, en la que se explica cómo se utilizarán los datos recibidos.

La política está disponible en el sitio web del Departamento en <https://documents.dnrec.delaware.gov/Watershed/Assessment/External-Data-Policy.pdf>. Le solicitamos comunicarse con el Departamento a más tardar el 8 de septiembre de 2025 para enviar datos e información pertinentes.

Todos los comentarios sobre el documento de Metodologías de Evaluación, así como cualquier dato adicional recibido hasta o antes del 8 de septiembre de 2025, se tomarán en cuenta en la elaboración del Informe Integrado. Los comentarios y datos pueden enviarse al Dr. Bhanu Paudel por correo postal a: DNREC / División de Administración de Cuencas, Sección de Evaluación y Gestión de Cuencas, 285 Beiser Blvd., Suite 102, Dover, DE 19904 o por correo electrónico a [SurfaceWQS@delaware.gov](mailto:SurfaceWQS@delaware.gov). Se recomienda el envío electrónico.

Si tiene preguntas o desea solicitar información adicional, comuníquese con el Dr. Paudel al (302) 739-9939.

Aviso del DNREC N.º WSS20250294

Consulte la política de no discriminación del DNREC en <https://de.gov/titlevi>

## Submitted Comments on Assessment Methodologies

DRAFT

**From:** Ann Burruss, Conservation Committee Chair, Sierra Club Delaware Chapter  
Dr. Michael Waldon, Member, Sierra Club Delaware Chapter  
**To:** Dr. Bhanu Paudel, Watershed Assessment and Management Section  
SurfaceWQS@delaware.gov  
**Date:** September 6, 2025  
**RE:** Comments on 2026 draft 305(b) and 303(d) listing methodology

On August 8, DNREC announced<sup>1</sup> the availability and opportunity to comment on “Delaware's 2026 Draft 305(b) and 303(d) Waters Assessment Methodologies and Data Solicitation.” In our comments we will refer to DNREC’s draft document as the “Draft Methodologies.”

Thank you for the opportunity to comment on how the listings will be created. Allowing public comment on the methods used to develop the lists, in addition to commenting next year on the full draft Integrated Report (IR), demonstrates DNREC’s sincere commitment to public involvement.

## **Overall Assessment**

The 2026 Draft Methodologies are part of DNREC’s compliance with Clean Water Act requirements for assessing Delaware water quality, and prioritizing pollution control efforts. Formalizing DNREC data acquisition and assessment processes facilitates the cyclical improvement of the biennial IR. Overall, the 2026 Draft Methodologies are clear, well written, and provide the detail required for development of the 2026 303(d) and 305(b) lists and IR. The decision diagrams are particularly valuable in clarifying how specific classifications will be performed.

## **Detailed Comments and Potential Improvements**

### **1. Data Solicitation and Use:**

- **Formalized External Data Policy:** The Draft Methodologies formalize the External Data Use Policy needed by both DNREC staff and contributors. The draft policy outlines requirements for external data to be considered "Tier-I" (for listing and assessment purposes), requiring precise documentation of methods and quality assurance plans. Data not meeting these criteria would be categorized as "Tier-II" and used only as supporting information.
- **Potential Deficiency:** The stringency of the External Data Policy could result in useful data being excluded, thus adding unnecessary uncertainty in classifications. While standardization is crucial, the strictness of the Tier-I requirements could be a deficiency if it inadvertently excludes valuable, albeit less formally documented, data from academic institutions, citizen science groups, or other organizations that may not have complete formal documentation of their methods or quality assurance procedures.
- **In the 2024 cycle,** the Department used data from the Center for the Inland Bays (CIB) but excluded data from other external sources (Adventure Scientist, University of

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<sup>1</sup> <https://dnrec.delaware.gov/public-notices/wss20250294/>



Delaware Citizen Monitoring Program, White Clay Wild and Scenic River) because they were not raw data or were deemed "not representative of the entire waterbody" (e.g., bottom water samples). While the proposed policy aims to clarify this, DNREC should ensure that the policy's implementation fosters data sharing rather than creating barriers for comprehensive assessment.

- **Improvement suggested:**

- **Citizen contributed data:** Data should not be lost because of a failure in formatting or because additional information is needed. In development of the 2026 Integrated Report, DNREC should correspond with all organizations submitting data that fails to meet DNREC data criteria to request additional missing or deficient information or documents. DNREC explicitly mentions working with CIB on "DO monitoring projects to offer insight on station placement and representativeness of ambient conditions". Such collaboration is vital and should *extend to other data contributors*. Describe these collaborations in the IR.
- **Inter-agency Data Integration:** The Draft Methodologies state that DNREC will incorporate assessments from the Delaware River Basin Commission (DRBC) and the Chesapeake Bay Program (CBP) when provided. This is an essential cooperative step. DNREC did not receive these data in the 2024 cycle. Ensuring these data are consistently received and integrated will enhance the protection of our shared waterways. DNREC must be proactive in requesting additional information or revised data formats from contributors, and in acquiring inter-agency data as early as possible. Consider routing inter-agency data requests through the Office of the Secretary or regional EPA offices.

## 2. Assessment of Numeric and Narrative Non-Numeric Criteria:

- **Numeric Criteria:** The 2026 Draft Methodologies provide a clear approach to numeric criteria.
  - **Nutrient and Solids Assessment:** The Draft Methodologies outlines specific numeric criteria for assessing dissolved inorganic nitrogen (DIN) (0.14 mg/L) and dissolved inorganic phosphorus (DIP) (0.01 mg/L) in the Inland Bays, as well as total suspended solids (TSS) (20 mg/L). These are quantitative measures against which collected data are compared using statistical methods (e.g., 95% confidence levels).
  - **Human Health Criteria:** For human health criteria, the methodology focuses on long-term exposure, requiring at least two samples exceeding the criterion within a three-year period to identify a segment as a candidate for listing in Category 5.
- **Narrative Criteria:**
  - **Nuisance Species:** While the Delaware Surface Water Quality Standards (WQS) define "Nuisance Species" narratively as causing "unreasonable interference with the designated uses of the waters or the uses of adjoining land areas," including filamentous and blue-green algae, the 2026 Draft Methodologies primarily address this indirectly through numeric assessments of nitrogen and phosphorus (nutrients) and dissolved oxygen.



- **Population Balance:** The Delaware Water Quality Standards<sup>2</sup> require assurance of “the protection and propagation of a balanced, indigenous population of fish, shellfish, aquatic vegetation, and wildlife, and provide for recreational activities in and on the water.”
- **Designated Uses:** Delaware Water Quality Standards require<sup>3</sup> that waters must be free of any contaminants “that may interfere with attainment and maintenance of designated uses”
- **Improvement suggested:** The Draft Methodologies do not explicitly detail a direct assessment process for the *narrative* component of “nuisance species” or “unreasonable interference.” An improvement should involve developing “narrative translators” or specific implementation processes, as seen in Minnesota’s approach<sup>4</sup> for industrial and agricultural uses, which moved from numeric to narrative standards but developed detailed processes to interpret and apply them (e.g., for specific conductance). This could involve biological indicators, frequency/duration of algal blooms, or other qualitative/quantitative measures to directly assess the “nuisance” aspect beyond just nutrient concentrations.

### 3. Overlooked Important Contaminants:

Important contaminants are not addressed in the Draft Methodologies because Delaware has not established numerical criteria for these contaminants. Overlooking known contamination risks the failure to list impaired stream segments and consequently means impairment will not be addressed. When no numeric criterion has been established in the Delaware standards, the narrative criteria must be applied. One approach is to translate the narrative criteria into a numerical value for the contaminant of concern.

- **Significant Omission: Salt/Chloride:** Salt is one example of an overlooked contaminant. Salinization of our streams is a growing concern.<sup>5</sup> A critical deficiency in the Draft Methodologies is the absence of explicit methods for assessment of the impact of salt (chloride/salinity), and particularly road salt, on freshwater aquatic life. Delaware water quality criteria do not give a numerical criterion for chloride or salinity as a pollutant causing impairment of aquatic life. Despite this omission, there are well-documented environmental impacts of road salt. The USEPA guidance states

”Dramatic increases in salt (sodium chloride) concentrations are occurring in freshwaters globally due to human activities such as road salt application, water softening, mining and oil extraction, wastewater from commercial and industrial processes, weathering of concrete, sea level rise, and fertilizer application. Too much salt in the environment is toxic and lethal to aquatic life, pollutes drinking water sources, and damages infrastructure”.<sup>6</sup>

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<sup>2</sup> Section 5.6.3.4.1.3

<sup>3</sup> Section 4.1.1.3

<sup>4</sup> <https://www.pca.state.mn.us/sites/default/files/wq-rule4-17d.pdf>

<sup>5</sup> <https://stroudcenter.org/salt/>

<sup>6</sup> <https://www.epa.gov/risk/salt>

Research published after that EPA guidance has demonstrated even greater sensitivity to salt pollution. Impairment caused by road salt must not be ignored.

- **Improvement suggested:** Integrated Report comments in 2020 and 2024 by the White Clay Wild and Scenic River Stream Watch Monitoring Program suggested the use of 50 mg/L maximum chloride concentration. That suggestion is a reasonable translation of Delaware's narrative criteria. Translate the narrative criteria into a numerical value of 50 mg/L chloride concentration as the maximum 15 day average. Perform analyses of impairment caused by elevated chloride concentration in all freshwater segments with available data.

#### 4. Water Quality Impacts in Freshwater and Coastal Wetlands:

It is unclear how the Draft Methodologies will assess and list impairment/use attainment in our state's wetlands. Nearly a quarter of Delaware is made up of wetlands with roughly half of all wetlands (52%) classed as non-tidal freshwater wetlands.<sup>7</sup> While the The Wetland Monitoring and Assessment Program (WMAP) and index of biotic integrity (IBI) development are important, the 2026 Draft Methodologies do not explicitly detail how *wetland-specific water quality impacts* are comprehensively assessed.

- **Improvement suggested:** DNREC should clearly articulate how the state's WQS, including narrative provisions regarding "natural conditions" and "nuisance species", are specifically applied and assessed for freshwater and coastal wetlands. Given the unique hydrological and ecological functions of wetlands, the methodologies should ensure that assessments account for site-specific characteristics and pollutants that disproportionately affect wetland health (such as road salt). The revitalized Habitat and Biology Program should explicitly include wetland-specific biological and physical indicators that can robustly assess changes in wetland integrity due to various pollutants.

**In conclusion,** the 2026 Draft Methodologies show progress in formalizing data acquisition and assessment. The writing is clear and appropriately detailed. To ensure comprehensive protection, assessment methodologies need to:

1. Be proactive in acquiring all available data.
2. Apply all criteria when assessing use attainment and impairment.
3. Translate narrative criteria to assess chloride impacts.
4. Assess impairment of freshwater and coastal wetlands.

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<sup>7</sup> <https://wmap.blogs.delaware.gov/2021/03/22/wetland-acreage-status-in-delaware/>

Thank you for your comments on 2026 Draft Methodologies. We appreciate your time reviewing.

### **1. Response on Data Solicitation and Use:**

We are not excluding any raw data, report, or any other documentation submitted as part of the Integrated Report. We have clarified in the external data policy that if the data does not meet Tier-I status then those will be presented as appendices in the Integrated Report and could be used as supporting evidence for water quality concerns within the State.

Wharton's Bluff data from the Center for the Inland Bays is an example of data that was used as supporting evidence for assessment purposes. Fish kills within that segment, coupled with the supporting data for Wharton's Bluff were used for impairment determination. All other data from the Center for the Inland Bays was not used for assessments. The External Data Policy and future Integrated Reports intend to clarify this.

Consistency when comparing data is important when the data is used for regulatory decision-making purposes. Results obtained by different collection methods could result in contradicting conclusions. Assessments must be made with a standardized set of data.

The External Data Policy provides documentation to our partners what the standardized expectation will be. The intent is to explicitly state what data will be used for assessments to allow our external partners the ability to collect congruent data. This will only allow more data to be used for assessments in the future now that the standard for data use is explicitly stated.

Thank you for your suggestion in improving our data request effort. The Department appreciates your suggestions.

### **2. Response on Assessment of Numeric and Narrative Non-Numeric Criteria:**

Thank you for reviewing the draft methodology related to Numeric and Narrative Non-Numeric criteria and reviewing Delaware Surface Water Quality Standard. The Department appreciates your suggestions.

### **3. Response on Overlooked Important Contaminants:**

Thank you for your comment and suggestion regarding salt/chloride. The Department understands impacts of chloride on streams and its biota and will consider this suggestion within future Water Quality Standard reviews and updates. For a request for modification of water quality criteria to be approved, Section 9.1.2 of the Surface Water Quality Standards shall be met.

**4. Response on Water Quality Impacts in Freshwater and Coastal Wetlands:**

Thank you for your comment. The Department is continually improving the assessment methodology. The Department is working to identify a biological integrity index and indicators in order to measure habitat and biology of the State by selecting a few case study sites. Subsequent Integrated Reports intend to provide detail on this work.

Submitted Data and Reports

DRAFT

## White Clay Wild and Scenic River Stream Watch Monitoring

### 2026 DNREC Integrated Water Report Data Submission

Waterbody: White Clay Creek Watershed

Location: New Castle County, DE

Submitted by: Shane Morgan, Program Director, White Clay Creek Wild and Scenic River

Contact information:

[smorgan@whiteclay.org](mailto:smorgan@whiteclay.org)

484-716-6836

Website: [www.whiteclay.org](http://www.whiteclay.org)

Date submitted: May 23, 2025

## White Clay Wild and Scenic River Stream Watch Monitoring

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# White Clay Wild and Scenic River Stream Watch Monitoring

## Delaware Active Site List

| Site ID        | Latitude | Longitude | Site Name                                            | Continuous Monitoring Present                             |
|----------------|----------|-----------|------------------------------------------------------|-----------------------------------------------------------|
| <b>WCLD28</b>  | 39.7787  | -75.6949  | Hickory Hill (Mill Creek)                            | Mayfly removed 9/2022; Hobo Temp Sensor installed 10/2022 |
| <b>WCLD29</b>  | 39.7460  | -75.6781  | Northpoint Main (Mill Creek)                         |                                                           |
| <b>WCLD30</b>  | 39.7459  | -75.6787  | Northpoint Tributary (Mill Creek)                    |                                                           |
| <b>WCUD31</b>  | 39.715   | -75.7188  | Middle Run Main                                      |                                                           |
| <b>WCUD32</b>  | 39.715   | -75.7191  | Unnamed Tributary to Middle Run                      |                                                           |
| <b>WCUD32A</b> | 39.7197  | -75.7297  | Unnamed Tributary to Middle Run below Papermill Road | Mayfly removed 2024, HOBO installed 2025                  |
| <b>WCUD32B</b> | 39.7209  | -75.7320  | Unnamed Tributary to Middle Run above Papermill Road | Mayfly removed 2024; Hobo installed 2022                  |
| <b>WCUD37</b>  | 39.6931  | -75.7572  | Fairfield Run                                        |                                                           |
| <b>WCUD38</b>  | 39.6899  | -75.7540  | Bogy Run/Blue Hen Creek                              |                                                           |
| <b>WCUD39</b>  | 39.6910  | -75.7491  | Jenney's Run                                         |                                                           |
| <b>WCUD40</b>  | 39.6923  | -75.7252  | WCC Main Stem@ Capitol Trail and A street            |                                                           |
| <b>WCLD42</b>  | 39.7068  | -75.6949  | Lower Pike Creek                                     |                                                           |

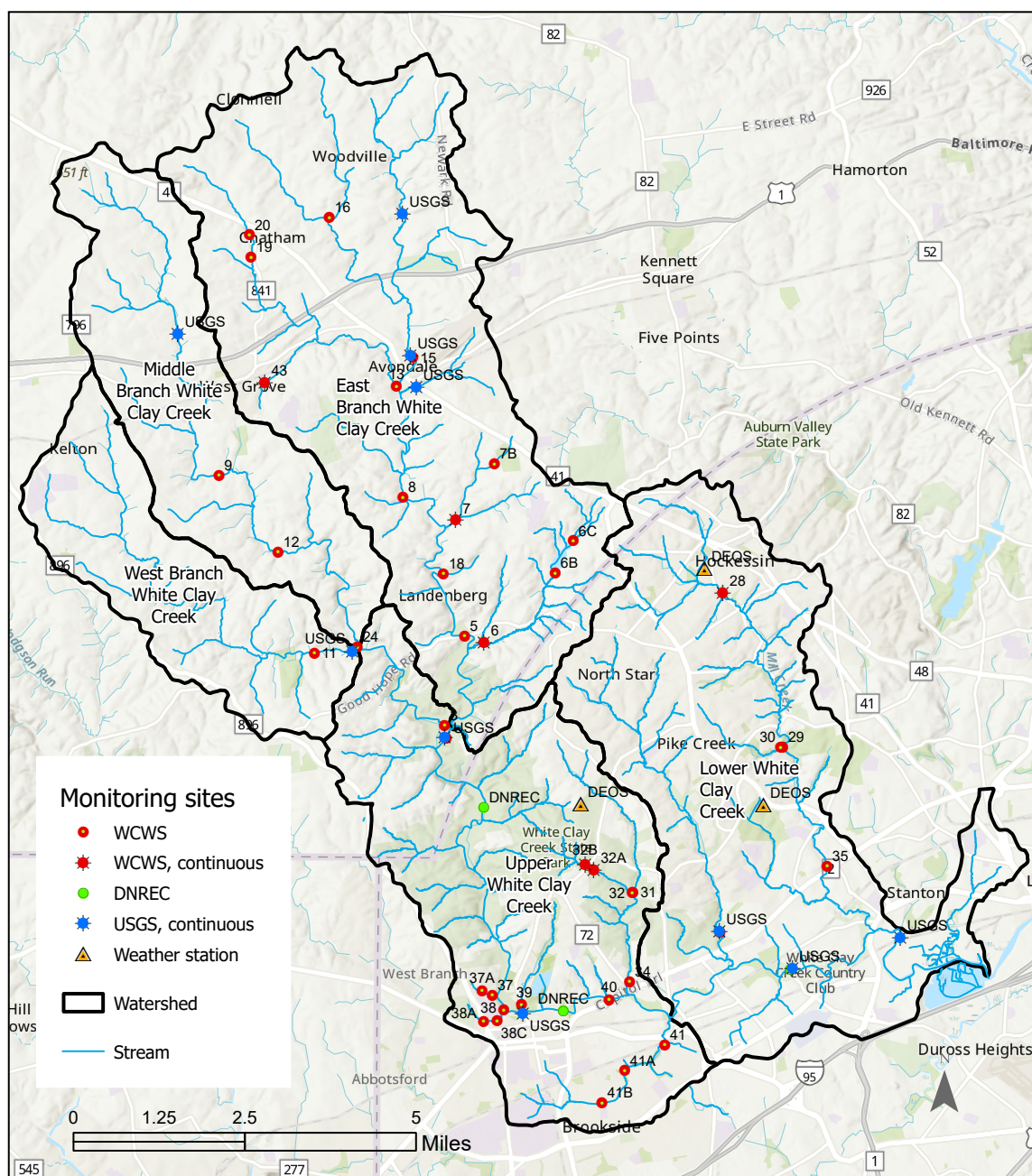


## White Clay Wild and Scenic River Stream Watch Monitoring

### White Clay Creek Active Sites Map

(link to interactive map:

<https://udel.maps.arcgis.com/apps/webappviewer/index.html?id=4bd6252384a44beca0105e5ed4cd64d0>



### Stream Monitoring Sites in the White Clay Creek Watershed

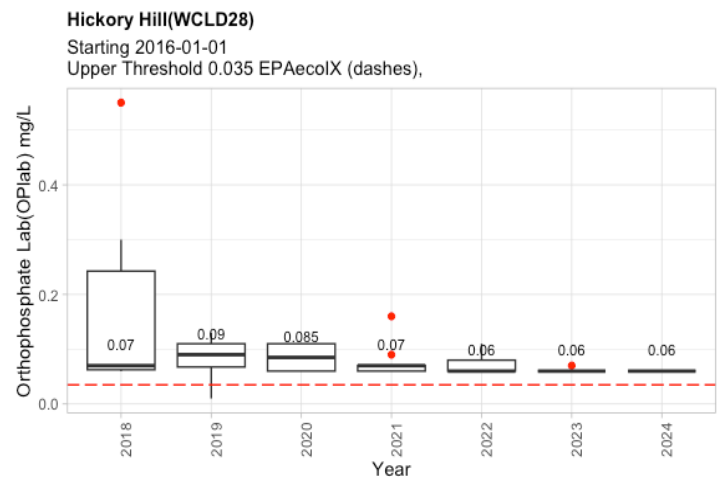
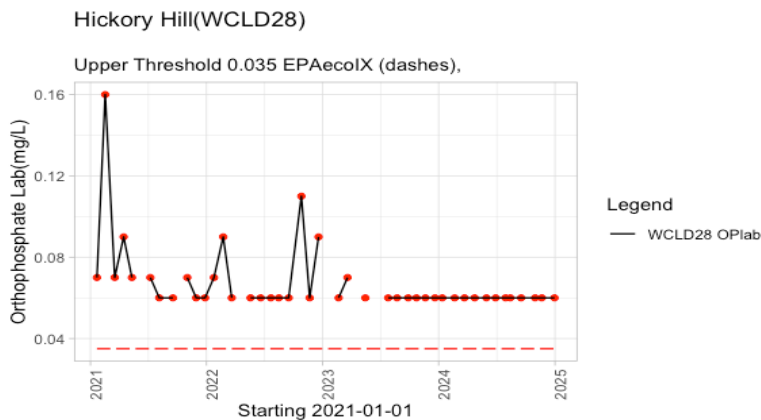
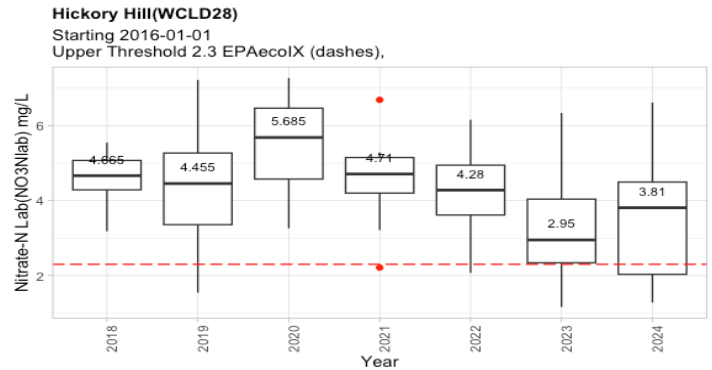
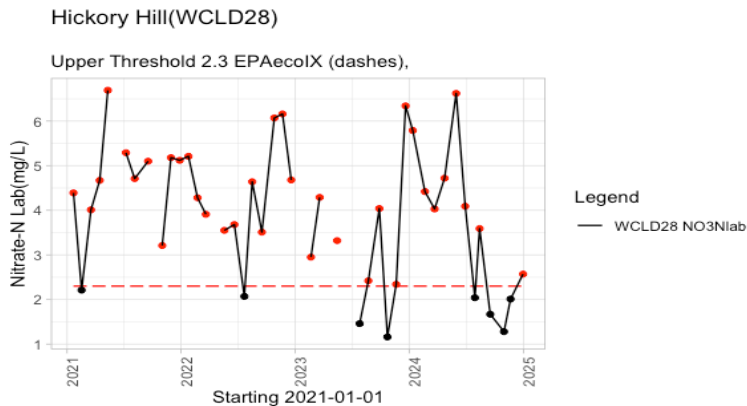
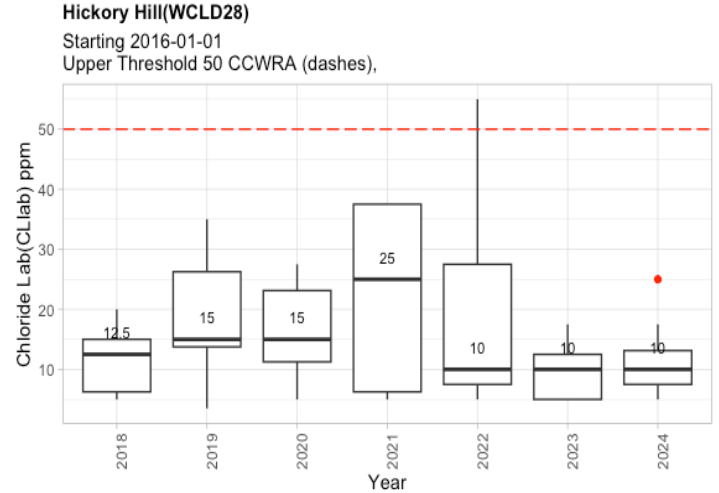
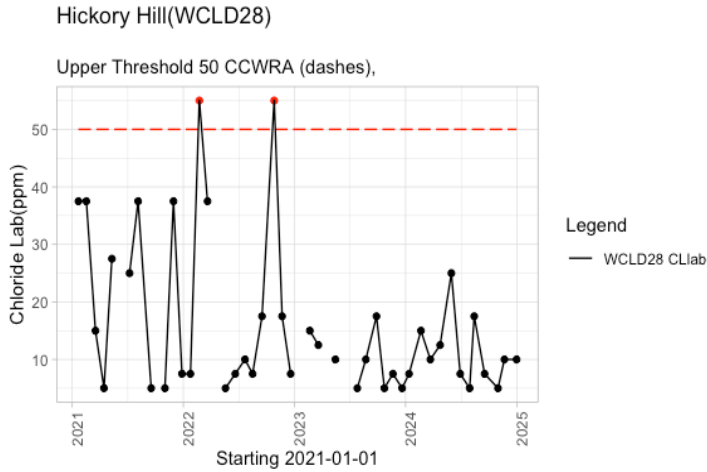
Map produced by the University of Delaware Water Resources Center, for the White Clay Watershed Association. Updated April 2025.



## White Clay Wild and Scenic River Stream Watch Monitoring

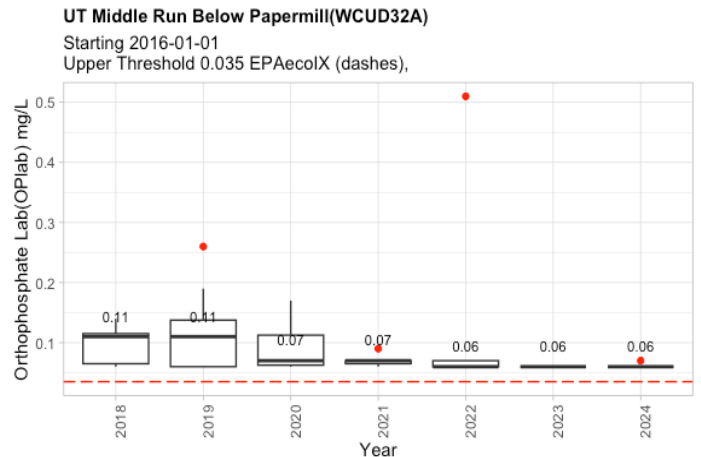
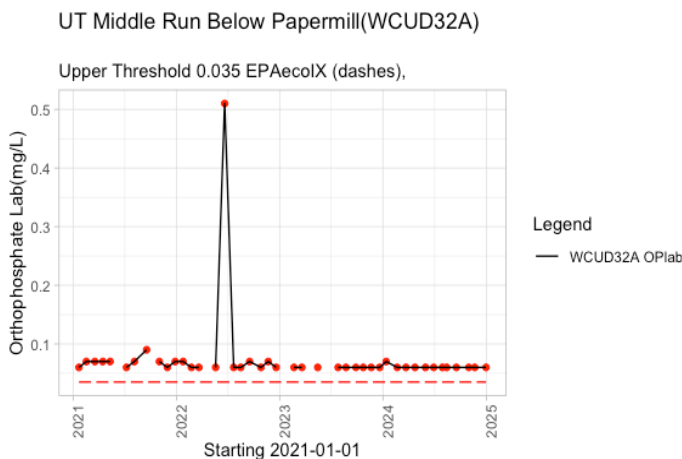
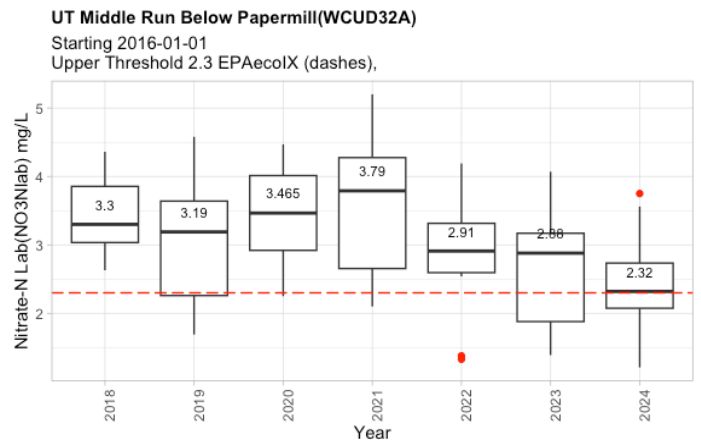
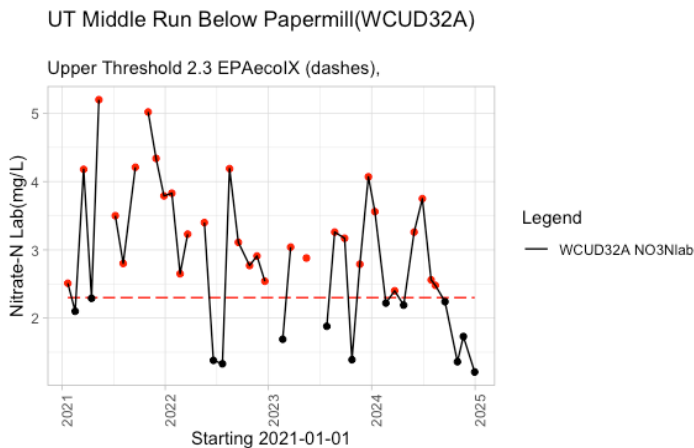
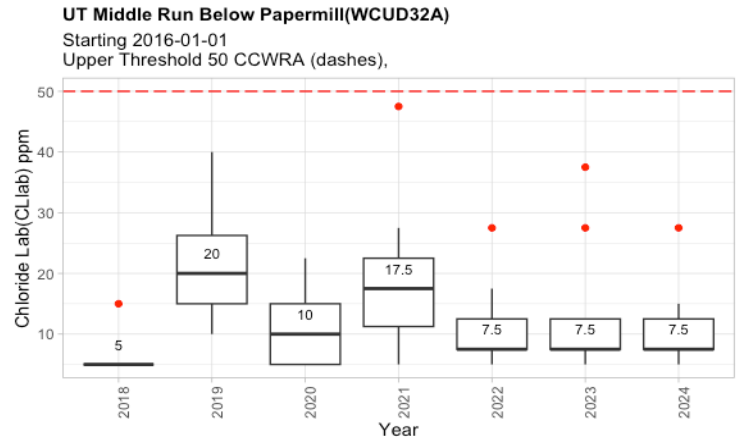
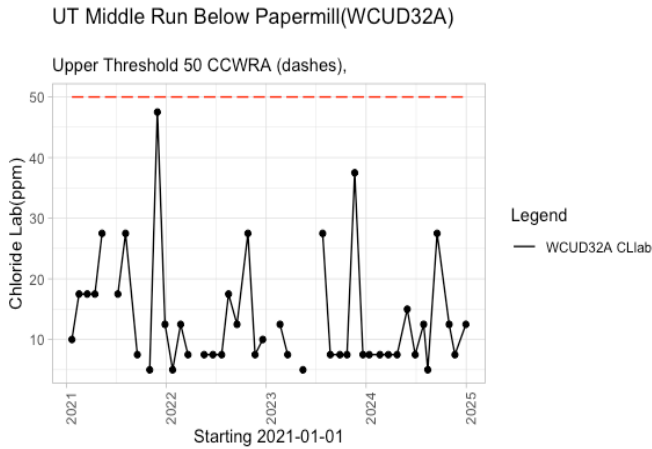
### Hickory Hill Site on Mill Creek (WCLD28) Chlorides, Nitrates, and Orthophosphates

Graphic presentation of all data points for Chlorides (CL), Nitrates (NO<sub>3</sub>N), and Orthophosphate (OP) at baseflow (defined as <0.25" rain in a 48-hour period). Exceedance of standards indicates impairment. Individual site data for the 2-year reporting period are shown on the left. Box and whisker plots for the prior four-year period are shown on the right.



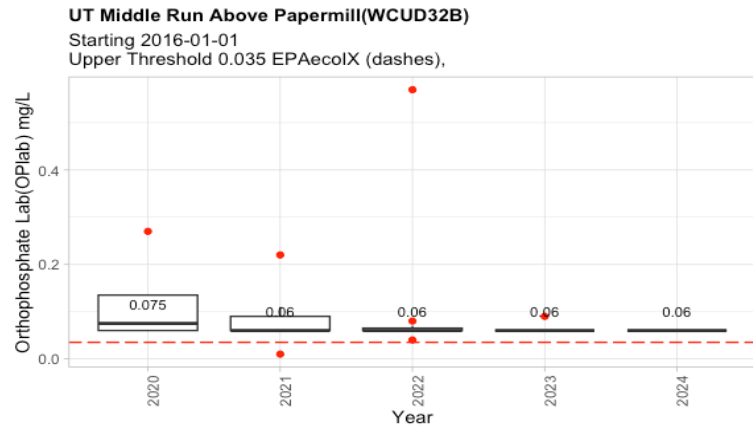
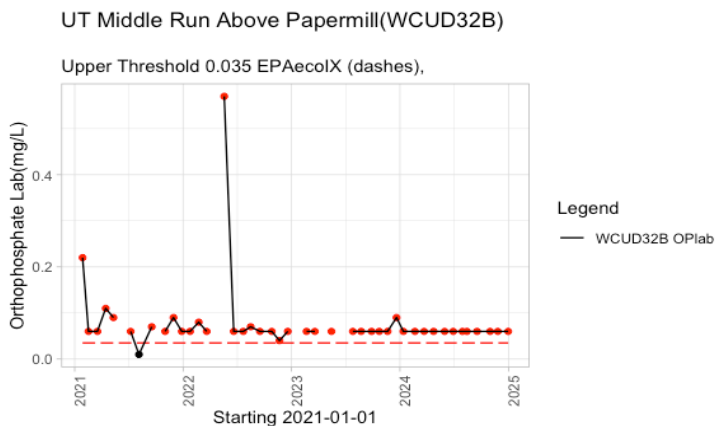
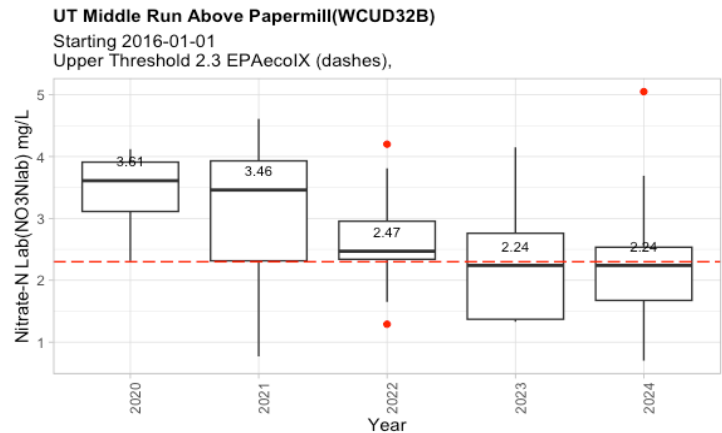
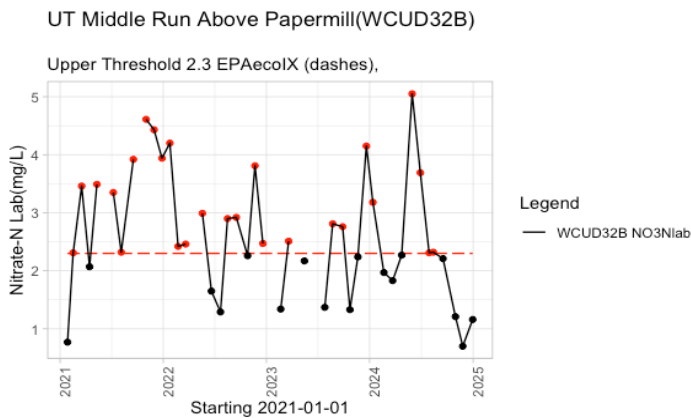
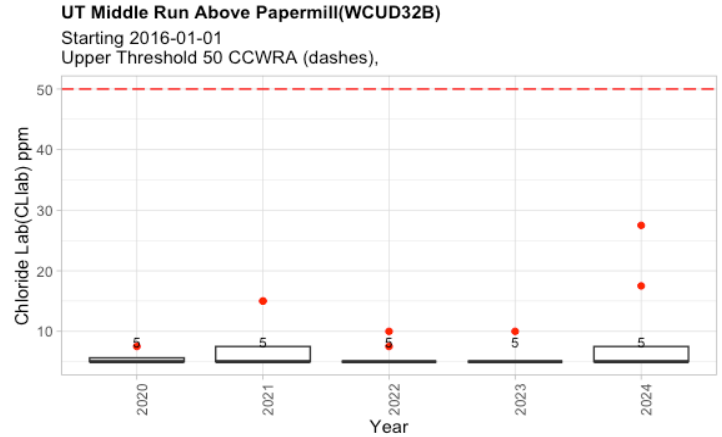
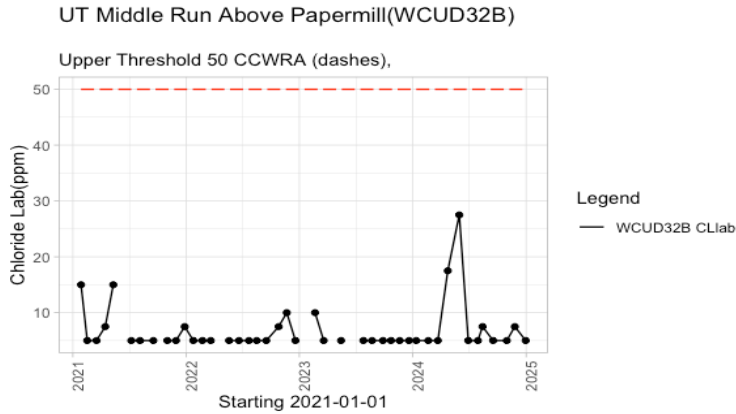
## UT Middle Run Below Papermill Road (WCUD32A) Chlorides, Nitrates, and Orthophosphates

Graphic presentation of all data points for Chlorides (CL), Nitrates (NO<sub>3</sub>N), and Orthophosphate (OP) at baseflow (defined as <0.25" rain in a 48-hour period). Exceedance of standards indicates impairment. Individual site data for the 2-year reporting period are shown on the left. Box and whisker plots covering a 4-year period are shown on the right.



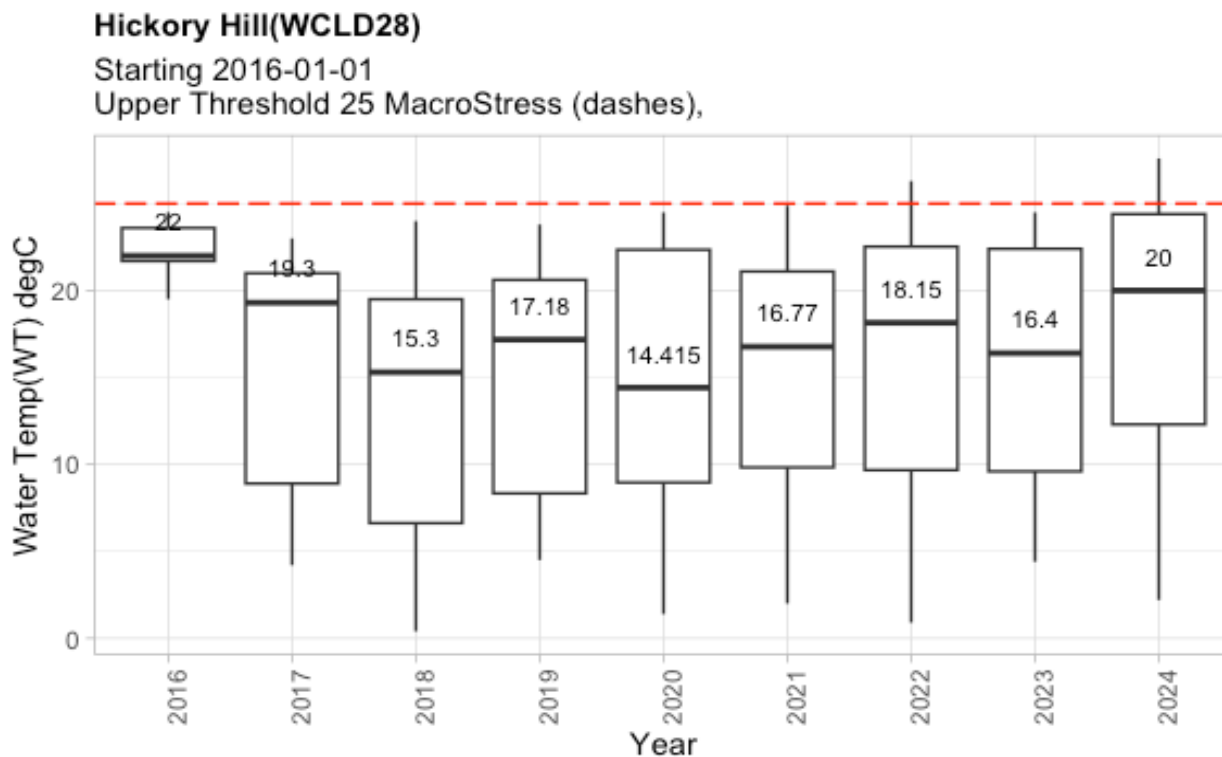
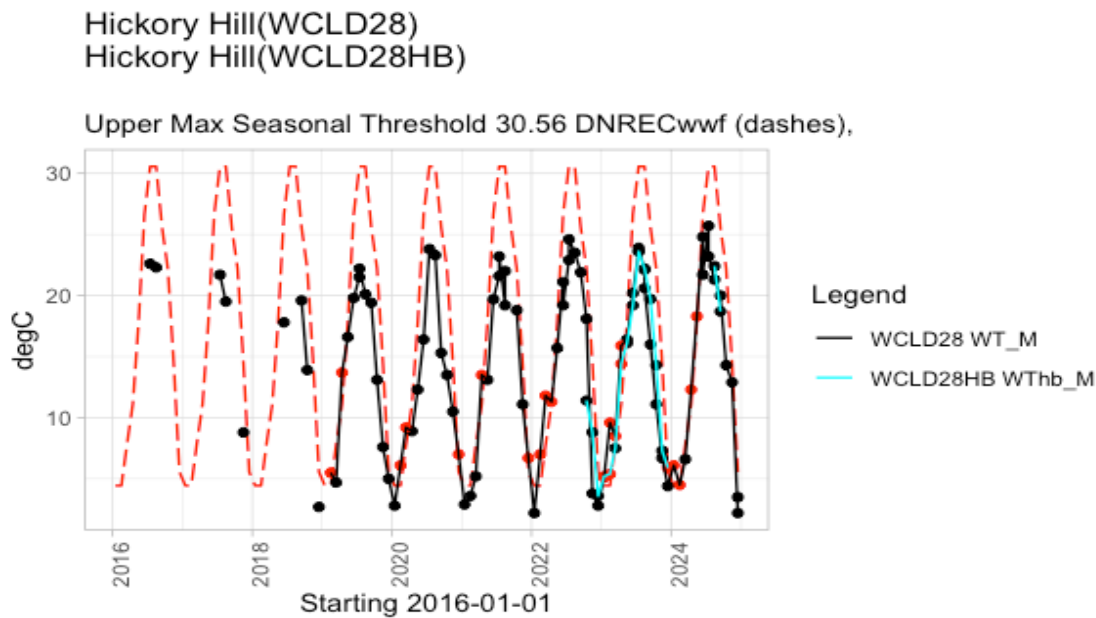
## UT Middle Run Above Papermill Road (WCUD32B) Chlorides, Nitrates, and Orthophosphates

Graphic presentation of all data points for Chlorides (CL), Nitrates (NO<sub>3</sub>N), and Orthophosphate (OP) at baseflow (defined as <0.25" rain in a 48-hour period). Exceedance of standards indicates impairment. Individual site data for the 2-year reporting period are shown on the left. Box and whisker plots covering a 4-year period are shown on the right.



## Hickory Hill Site on Mill Creek (WCLD28) Water Temperature

Graphic presentation of monthly average water temperature taken by in-stream continuous data loggers and monthly field readings (top). Box and whisker plot covering an extended time of monthly readings (bottom).



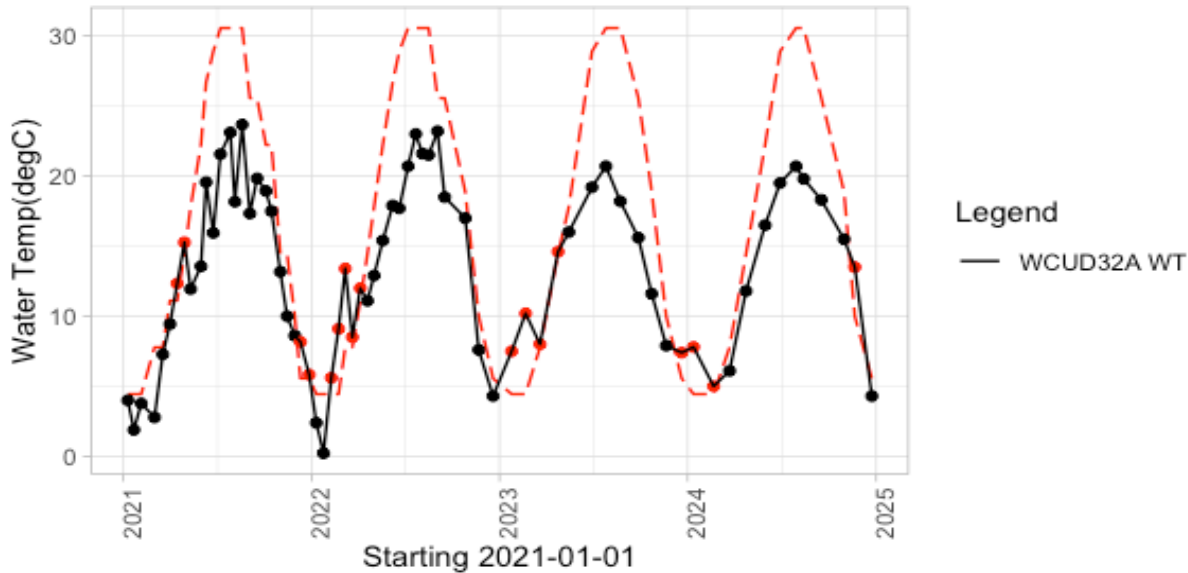


## UT Middle Run Below Papermill Road (WCUD32A) Water Temperature

Graphic presentation of monthly average water temperature taken monthly with handheld meter (top). Box and whisker plot covering an extended time period (bottom).

### UT Middle Run Below Papermill(WCUD32A)

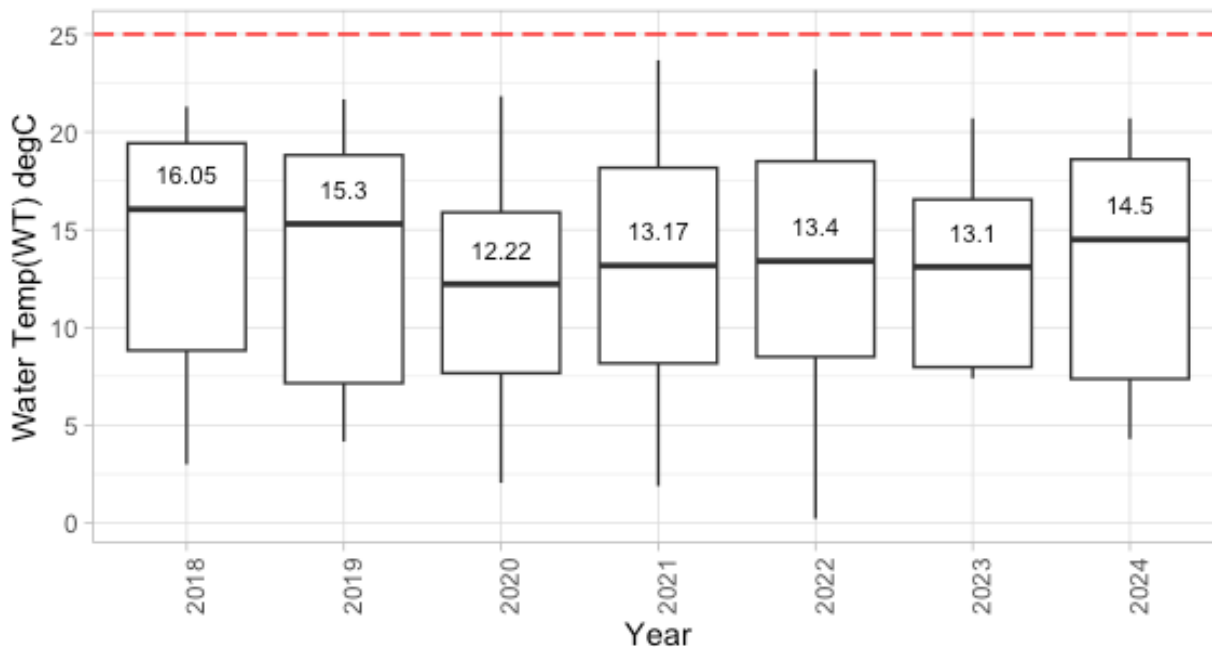
Upper Max Seasonal Threshold 30.56 DNRECwwf (dashes),



### UT Middle Run Below Papermill(WCUD32A)

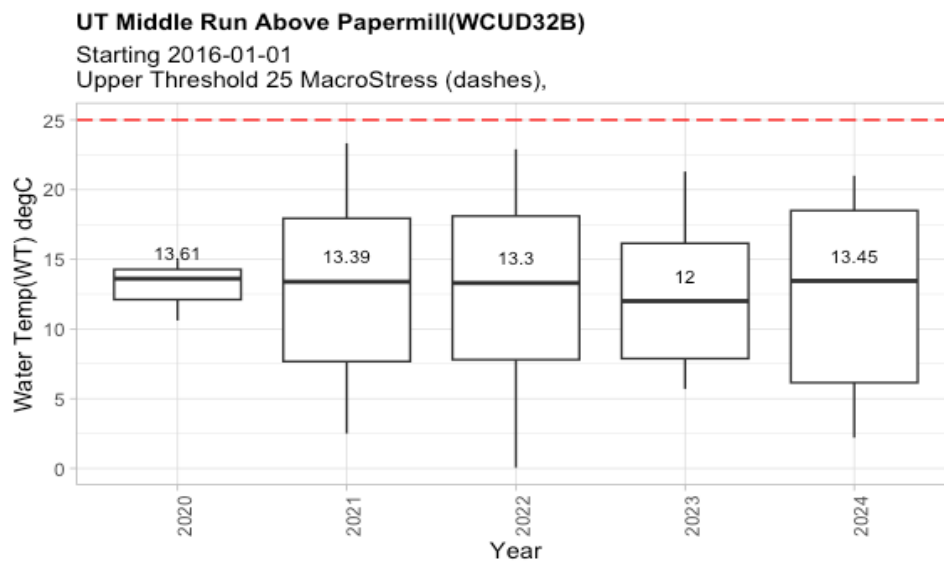
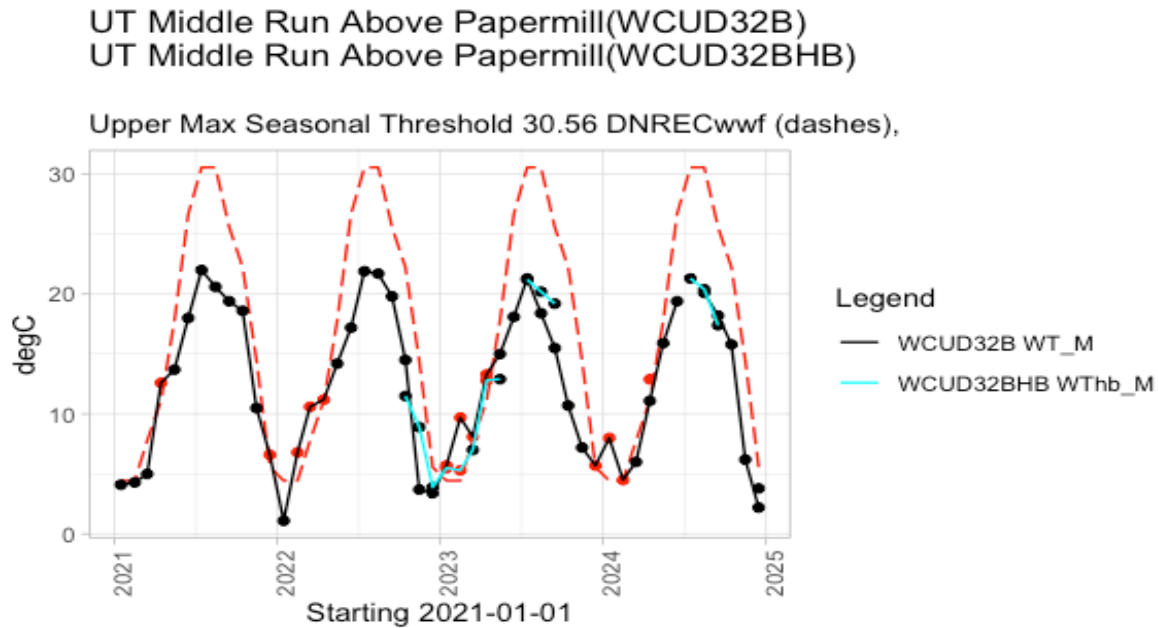
Starting 2016-01-01

Upper Threshold 25 MacroStress (dashes),



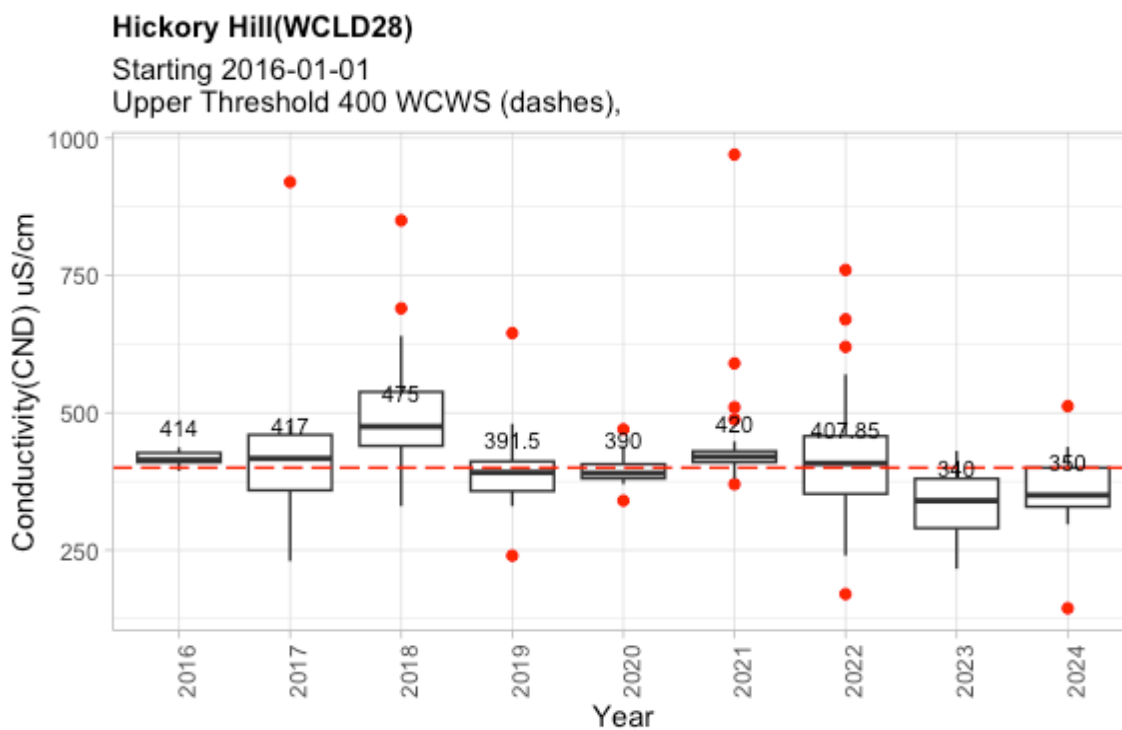
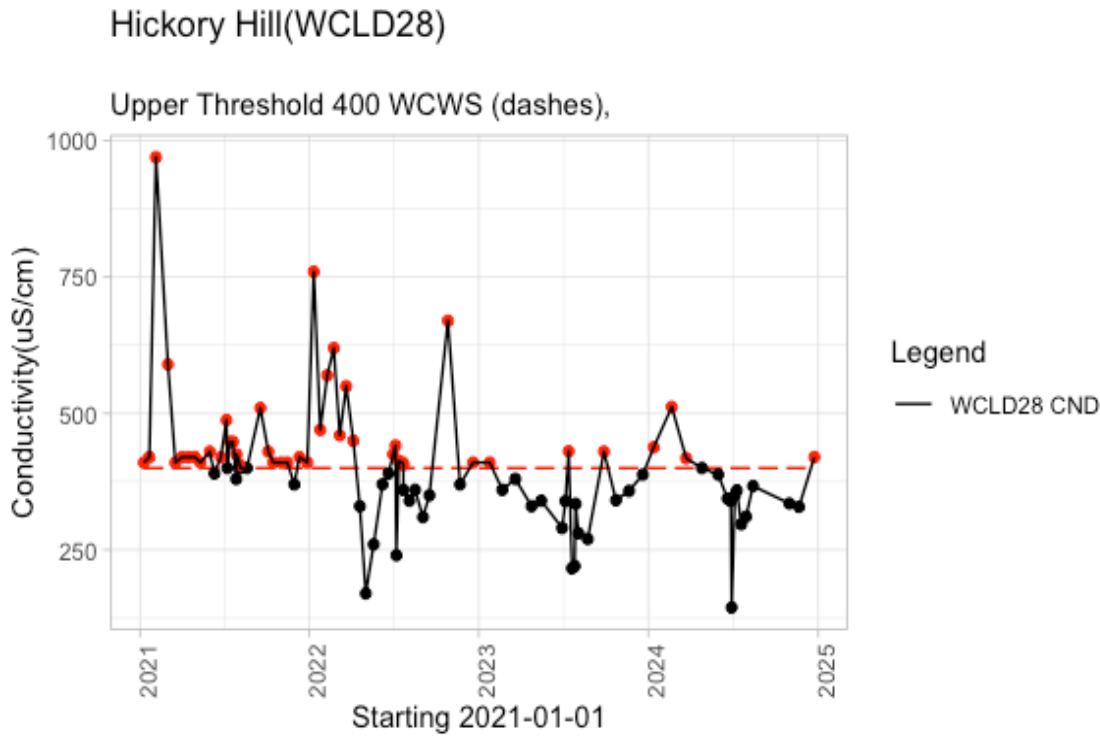
## UT Middle Run Above Papermill Road (WCUD32B) Water Temperature

Graphic presentation of monthly average water temperature taken by in-stream continuous data loggers and bimonthly field readings (top). Box and whisker plots covering an extended time are shown on the bottom.



### Hickory Hill Site on Mill Creek (WCLD28) Conductivity

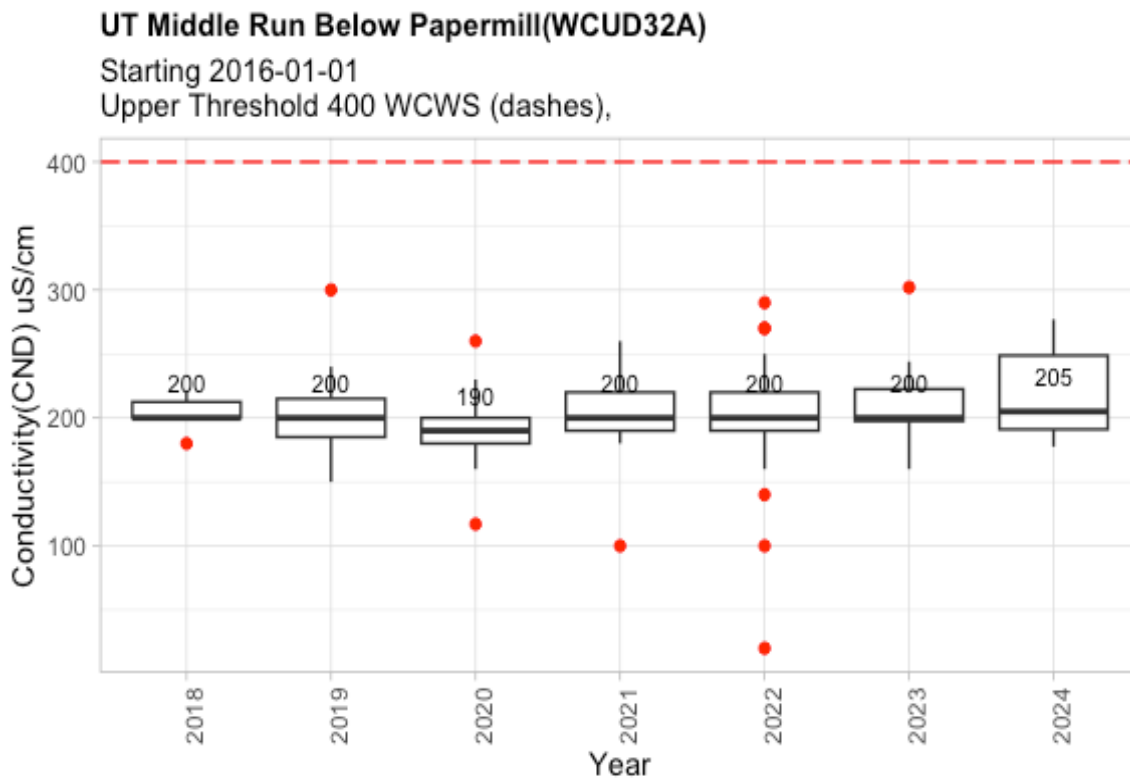
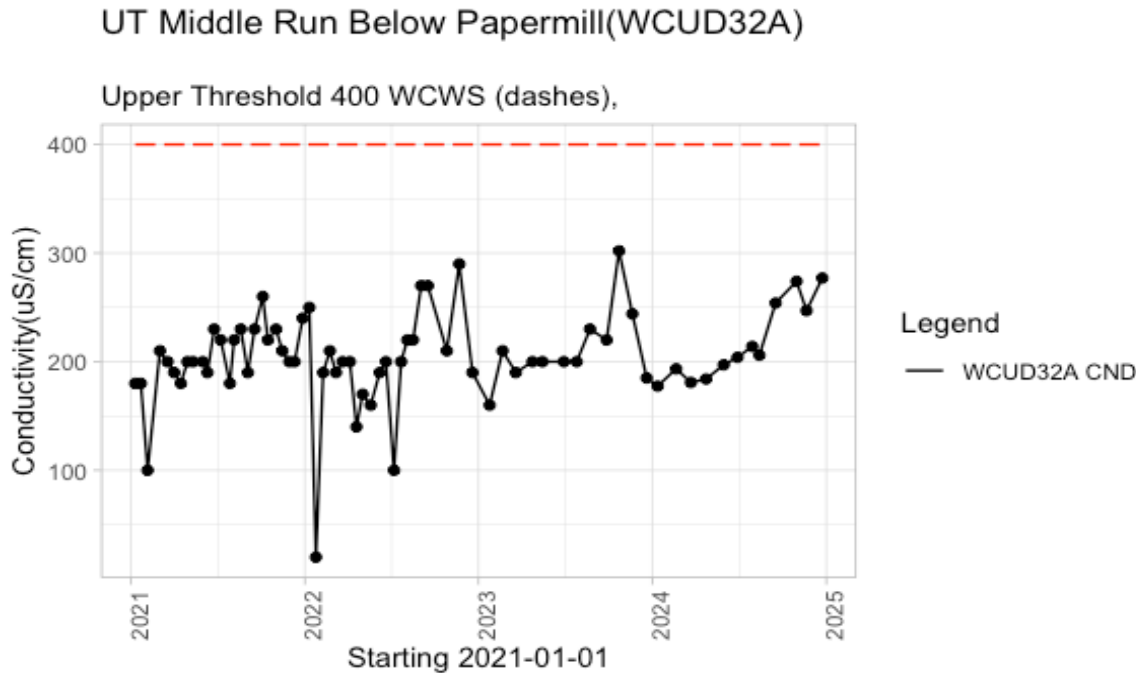
Graphic presentation of conductivity taken by bimonthly field measurements over a 4-year period (top). Box and whisker plot covering an extended time (bottom).





### UT Middle Run Below Papermill Road (WCUD32A) Conductivity

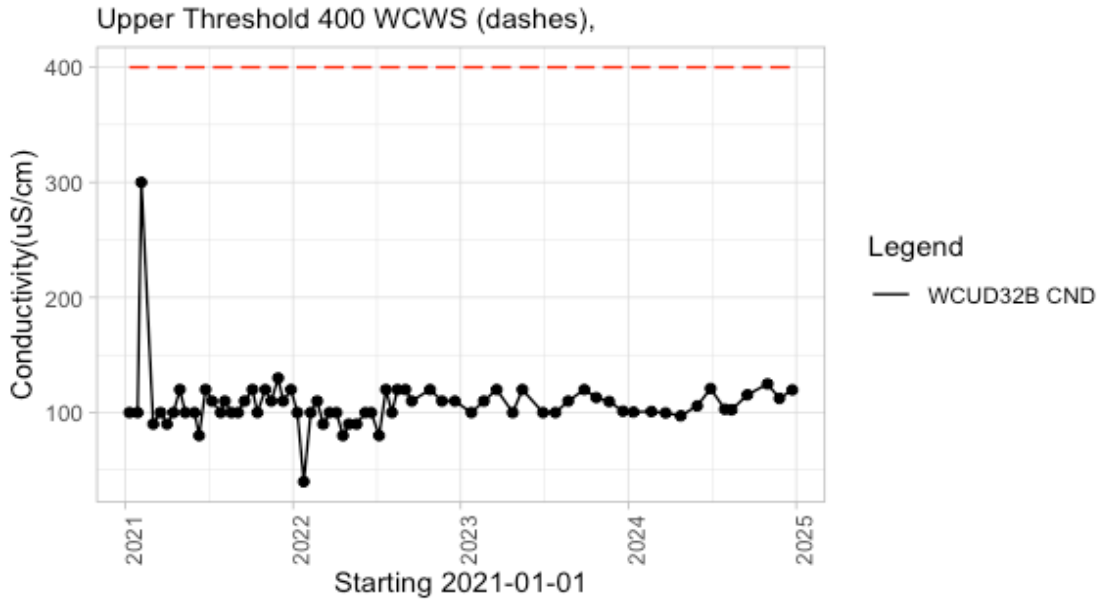
Graphic presentation of conductivity taken by bimonthly field measurements over 4-year period (top). Box and whisker plot covering an extended time bottom).



### UT Middle Run Above Papermill Road (WCUD32B) Conductivity

Graphic presentation of conductivity taken by bimonthly field measurements over a 4-year period (top). Box and whisker plot covering an extended time (bottom).

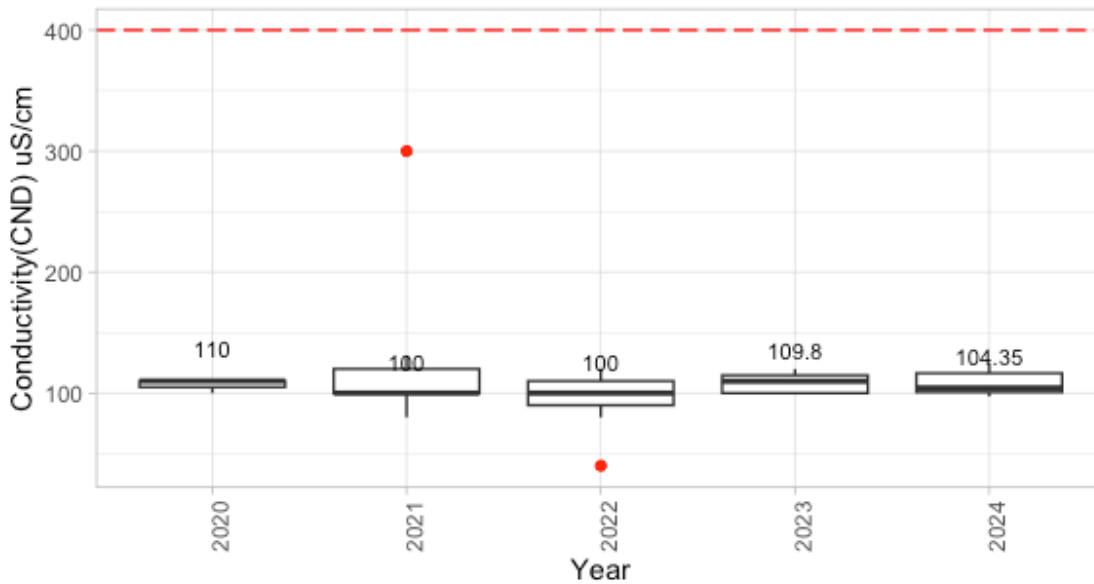
#### UT Middle Run Above Papermill(WCUD32B)



#### UT Middle Run Above Papermill(WCUD32B)

Starting 2016-01-01

Upper Threshold 400 WCWS (dashes),



## White Clay Wild and Scenic River Stream Watch Monitoring

### Table of Recreational Season Fecal Indicator Bacteria Geometric Means.

Table of geometric means for Enterococcus readings taken during multiple recreational seasons. The table is color coded to show sites that exceed EPA's recreational water quality threshold for primary contact 35 cfu/100ml by different orders of magnitude (ex. red = >800%); Only one site in 2024 met DNREC's threshold for primary contact (100 cfu/100ml).

**Recreational Bacteria (Enterococcus) Geometric Means MPN/100ml**

| Site Name                | Site ID | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------------------|---------|------|------|------|------|------|------|------|------|------|
| Hickory Hill             | WCLD28  | 551  | 1957 | 576  | 1696 | 1947 | 2263 | 1467 | 365  | 274  |
| Northpointe Main on Mill | WCLD29  | 176  | 775  | 504  | 463  | 1693 | 2046 | 331  | 794  | 246  |
| Northpointe Trib to Mill | WCLD30  | 292  | 1103 | 386  | 609  | 1407 | 1657 | 796  | 710  | 1083 |
| Middle Run Main Stem     | WCUD31  | 439  | 1146 | 1046 | 506  | 1825 | 1721 | 221  | 757  | 399  |
| Middle Run Trib to Main  | WCUD32  | 347  | 732  | 407  | 271  | 1120 | 1058 | 342  | 431  | 271  |
| Fairfield Run            | WCUD37  | NA   | NA   | 874  | 604  | 1243 | 1830 | 140  | 427  | 411  |
| Bogy Run WCD (lower)     | WCUD38  | NA   | NA   | 1405 | 1541 | 1608 | 1008 | 645  | 1476 | 626  |
| Bogy Run NLR (upper)     | WCUD38A | NA   | NA   | NA   | NA   | NA   | NA   | 627  | 640  | 1176 |
| Bogy Run Pencader        | WCUD38C | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | 929  |
| Jenney's Run             | WCUD39  | NA   | NA   | 899  | 807  | 1761 | 2117 | 1506 | 675  | 1318 |
| Main @ Kirkwood & A      | WCUD40  | NA   | NA   | 517  | 442  | 935  | 981  | 46   | 243  | 61   |
| Lower Pike Creek         | WCLD42  | NA   | NA   | NA   | 965  | 945  | 1275 | 81   | 420  | 315  |

#### Methodology behind grading:

Because much of the data exceeded the EPA Recreational Water Quality Criteria, we considered any CFU under the Recreational Water Quality Criteria as "Good" and gave it a score of 100 or "A". We then created five additional categories based on large increases over the criteria—i.e., up to 200%, 200-400%, 400-600%, 600-800%, and >800%.

The annual means were converted to a sub-index score by employing the following Recreational Water Quality Criteria for Enterococcus:

Enterococcus: 35 colony forming units per 100 milliliters (35 cfu/100 mL)

These criteria are for an Estimated Illness Rate (NGI) of 32-36 per 1,000 primary-contact recreators. The distribution of available data for Enterococcus was assessed in a separate histogram (Figure 73) using the recreational criteria defined above to then establish six WQIS-equivalent scoring categories (Table 52).

While *E. coli* is a strong indicator of human fecal contamination, enterococci's broader environmental tolerance, source diversity, and persistence contribute to their often-higher levels in freshwater environments. Factors like non-point source pollution, agricultural runoff, and urban runoff can further exacerbate these differences.

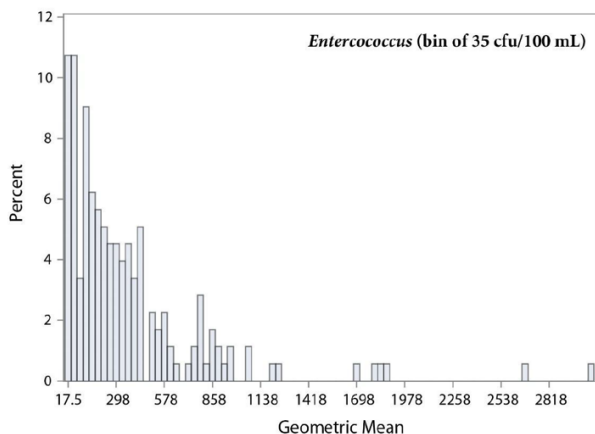
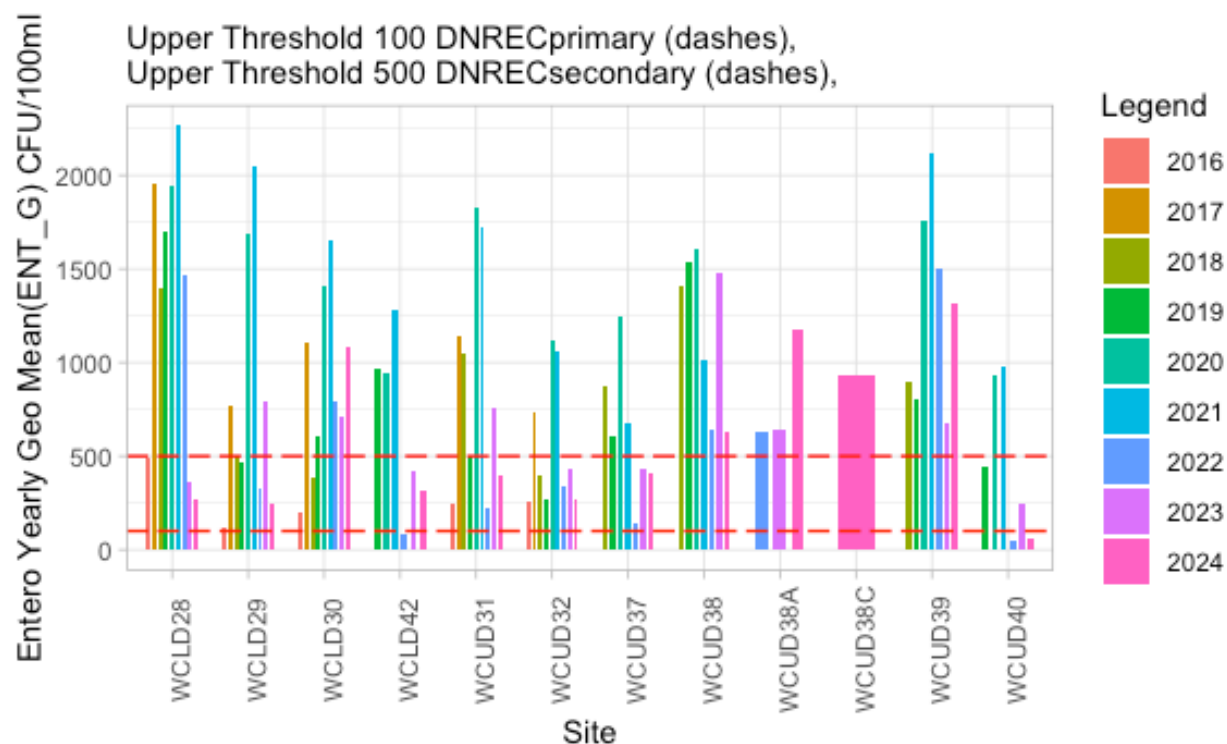


Table 52. Recreation sub-index scores and associated concentration ranges for Enterococcus and *E. Coli*. (White Clay Creek State of the Watershed Methodology Report, 2024)

| Sub-Index Score value | Concentration ranges (cfu/100mL) for each associated score value |    |
|-----------------------|------------------------------------------------------------------|----|
|                       | <b>Enterococcus</b>                                              |    |
| 100                   | < 35                                                             | A  |
| 80                    | 35-105                                                           | A- |
| 60                    | 105-175                                                          | B  |
| 40                    | 175-245                                                          | C  |
| 20                    | 245-315                                                          | D  |
| 0                     | > 315                                                            | F  |

## Graphical Presentation of Recreational Season Fecal Indicator Bacteria Geometric Means

*Enterococcus* (ENT) samples were taken during multiple recreational seasons at baseflow (defined as <0.25" rain in a 48-hour period). A minimum of five samples were collected at each site within a 30-day period during the month of July to calculate geometric means (ENT\_G). Exceedance of standards indicates impairment. All samples were processed at Stroud Water Research Center using the IDEXX Colilert method.



The graph above shows DNREC's thresholds for primary contact (100 CFU/100ml) and secondary contact (500 CFU/100ml). Bars above the dashed red lines exceed the thresholds for the associated recreational contact.

## Bacteria Sampling Protocol

1. Check Precipitation. We are looking for less than .25 inches in the previous 48 hours.  
Visit: <http://www.deos.udel.edu/>  
Data>current conditions AND  
Data>daily summaries  
Look at data for nearest DEOS site to sampling location
2. Sample the furthest downstream site first and then move to the upstream sites.
3. Fill out the Field Notebook, including weather information.
4. Make sure that sample vessels are labeled as seen below with black indelible ink before sampling.

|                                   |                       |
|-----------------------------------|-----------------------|
| Name of responsible organization: | WCWA                  |
| Test(s) to be run:                | E. coli, Enterococcus |
| Stream Name:                      | White Clay Creek      |
| Date:                             | 08082012              |
| Site ID:                          | WCLEB06               |
| Time (military time):             | 1320                  |
| Samplers Name:                    | Kelly Jacobs          |

5. Collecting the sample:
  - a) Face upstream, and sample mid-channel, mid-depth. Avoid stagnant water and eddies.
  - b) Do not disturb the bottom sediment. Do not collect sediment in your stream sample. If sediment is disturbed, wait a period before sampling.
  - c) Open the sterile 1L whirl Pak bag just before sampling. Make sure nothing – including your fingers – encounters the inside surfaces of the bag.
  - d) Hold the open bag from the top ties with the opening facing directly downward at the water. Then plunge the bag, open end first, below the water surface, and collect the water sample from 8-12” beneath the surface, but not against the substrate. If the stream is not that deep, collect the sample at mid-depth. Do this by facing the submerged bag into the current and away from you in an upstream dipping motion.
  - e) Try to leave a little air space in the bag, but not more than a few inches. If the bag comes up completely full, pour off the excess water.
  - f) Secure the bag using the yellow ties and place it into the cooler.
6. For every ten water samples you collect and send to a lab for analysis, you must collect one “replicate.” Label the replicated by placing a -R after the site ID.
7. All samples must go on ice immediately and be brought to the lab within 6 hours from sampling time.

## Monthly Year-Round Sampling Protocol

1. Visit all year-round monitoring stations once a month or every four weeks at baseflow (no more than .25" rain in last 48 hours). Check precipitation data at local DEOS site for rainfall before going out to sample. [http://www.deos.udel.edu/data/monthly\\_retrieval.php](http://www.deos.udel.edu/data/monthly_retrieval.php)
2. Label all grab sample containers with a sharpie prior to taking sample:  
White Clay Watershed Association (WCWA)  
Site ID  
date of collection  
time of collection (in military time)

\*if the sample is a replicate use SITE ID SL182 and make note of the actual SITE ID in the filed notes. Replicates should be taken every 10 samples.

3. Take instream measurements of water temperature and conductivity with handheld meter. Do not stir up dirt or if can't be avoided wait for it to settle before taking any measurements.
4. Take grab samples for lab analysis of nitrate, orthophosphate, and chloride at all sites (NO3N, OP, CL). Samples should be taken in a labeled 1 L container and brought to Brandywine Science Center, 204 Line Road, Kennett Square, PA 19348, 610-444-9850 – You will need to fill out a Chain of Custody Sheet obtained at the lab when dropping off samples (see sample in google folder)
5. Upload data from HOBO sensors: When out in the field, you will need to pull up the sensor (out of the water) and press down firmly on the center. If you are successful, you will see a red-light flash – this pairs the sensor with your mobile device. Make sure the Bluetooth on your phone is on. Open Hobo Connect App and select download data. Data goes in the data folder – you can open that folder, select the files, and email to Shane (smorgan@whiteclay.org) from on-site. Once data is downloaded, check battery strength and place it back into the water. If the battery is low, make a note of it in the field notes.
6. Complete Data Entry (after you return from every visit)
  - After every sampling event, when you return, upload data to the Google folder WQ\_UD\_INTERNS in the card uploads folder and share new files via email (to smorgan@whiteclay.org)
  - Field data should be input into the Field\_Data\_Entry\_Sheet located in the Google folder WQ\_UD\_INTERNS. Enter data directly into the Google sheet online.
  - Upload any photos to the Google folder WQ\_UD\_INTERNS Photos Folder. Label each photo as SiteID\_yyyymmdd\_exposure (i.e., facing N, S, E, W, etc.)

## Definitions of Water Quality Thresholds

Chlorides: While there are no instream standards, a threshold of 50 mg/L was selected based on Chester County Water Resources Authority and USGS data that correlates this threshold with poor index of biological integrity (IBI) scores. Furthermore, the DRBC also uses 50 mg/L as its threshold for interstate streams.<sup>1</sup>

Nitrates: DNREC does not have a water quality standard for Nitrate, but they have a water quality target set for TN between 1-3mg/ml. However, based on an analysis of nutrient concentrations from 1990 to 1998, for a stream that is not impaired by nutrients in this ecoregion (ecoregion IX), the EPA recommended a TN threshold of 2.225 mg/L.<sup>3</sup> More recent analysis, based on nutrient concentrations in Southeastern Pennsylvania streams from 2000 to 2019, raises this TN threshold slightly to 2.3 mg/L, which we selected for this report.<sup>4</sup>

Phosphates: DNREC does not have a water quality standard for Total Phosphorus, but they have a water quality target level of Total Phosphorus in DE Freshwater of 0.05-0.1mg/L. Natural background concentrations of total phosphorus are estimated to be 0.025 - 0.060 mg/L for this region.<sup>5</sup> An analysis of nutrient concentrations from 2000 to 2019 in streams in Southeastern Pennsylvania found that the maximum total phosphorus concentration for a stream that is not impaired by nutrients is 0.035 mg/L which is what we selected for this report.<sup>4</sup>

Fecal Indicator Bacteria - Enterococcus (ENT) and Escherichia coli (ECOLI): The US EPA has recommended recreational water quality standards for fecal indicator bacteria. We used these standards for this report.<sup>5</sup>

- 
1. Delaware River Basin Commission (DRBC), Administrative Manual – Part III WATER QUALITY REGULATIONS WITH AMENDMENTS THROUGH DECEMBER 7, 2022, 18 CFR PART 410.  
<https://www.nj.gov/drbc/library/documents/WQregs.pdf>
  2. Delaware Department of Natural Resources and Environmental Control (DNREC), Division of Watershed Stewardship, 7401 Surface Water Quality Standards.  
<https://regulations.delaware.gov/AdminCode/title7/5000/7400/7401.shtml>
  3. USEPA. Ambient Water Quality Criteria Recommendations: Rivers and Streams in Ecoregion IX. 108 (2000).  
<https://www.epa.gov/sites/default/files/documents/rivers9.pdf>
  4. Clune, J. W., Crawford, J. K. & Boyer, E. W. Nitrogen and Phosphorus Concentration Thresholds toward Establishing Water Quality Criteria for Pennsylvania, USA. Water 12, 3550 (2020).
  5. Smith, R. A., Alexander, R. B. & Schwarz, G. E. Natural Background Concentrations of Nutrients in Streams and Rivers of the Conterminous United States. Environ. Sci. Technol. 37, 3039–3047 (2003).  
<https://pubmed.ncbi.nlm.nih.gov/12901648/>
  6. USEPA. Recreational Water Quality Criteria. <https://www.epa.gov/sites/default/files/2015-10/documents/rwqc2012.pdf> (2012).

## Acknowledgments

We gratefully acknowledge the National Park Service for their generous support, which makes this work possible. We want to thank the Water Resources Center at the University of Delaware for their assistance with GIS mapping and sampling and the Stroud Water Research Center for their technical support of the bacteria collection and analysis. We also enthusiastically thank citizen scientist Rob Tuttle for his valuable contributions to collecting, organizing, analyzing, and reporting our data using R software.





DELAWARE DEPARTMENT OF  
NATURAL RESOURCES AND  
ENVIRONMENTAL CONTROL

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Shane Morgan  
Program Director  
White Clay Creek Wild and Scenic River  
P.O. Box 10  
Landenberg, PA 19350

RE: Data Submittal for Delaware's 2026 Integrated Report

The Delaware Department of Natural Resources and Environmental Control's (DNREC) Watershed Assessment Branch (WAB) received your submitted water quality data on May 23, 2025, for consideration in the 2026 Integrated Report (IR). The DNREC WAB reviewed the Submitted Data per the July 28, 2025, External Data Policy, which was publicly posted as part of the 2026 Integrated Report Data Solicitation on August 8, 2025 (<https://dnrec.delaware.gov/public-notice/wss20250294/>). The Submitted Data was determined to be classified as Tier-II: Supporting Data for this reason:

**Methodology:** No analytical methodologies were part of the Submitted Data package to demonstrate equivalence to Environmental Protection Agency approved methodologies and congruence with State of Delaware methods for assessment purposes. This can be done by providing a Quality Assurance Program Plan, a Quality Assurance Project Plan, or a similar document that details the organization's methodologies.

All Tier-II data will be included as supporting data in the 2026 IR appendix. DNREC WAB appreciates White Clay Creek Wild and Scenic River's efforts in monitoring Delaware waters and invites you to submit data for future IRs. For future submissions, please reference the External Data Policy at: <https://dnrec.delaware.gov/watershed-stewardship/assessment/reports/> to tailor your submission to the appropriate tier.

Please reach out to Josh Barth via email: [Joshua.barth@delaware.gov](mailto:Joshua.barth@delaware.gov) or via cell: 302-535-0699, should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Joshua Barth", is written over a light blue horizontal line.

**Joshua Barth**

Environmental Program Manager-II

**Center for the Inland Bays (CIB) continuous DO data summary table**

| <b>Site</b>        | <b>Sampling Time</b>       | <b>Data Count</b> |
|--------------------|----------------------------|-------------------|
| Coastal Kayak Reef | Apr-Jul 2023; Apr-Oct 2024 | 21697             |
| DCS Dock           | Apr-Sep 2023; Apr-Oct 2024 | 24488             |
| Fishers Dock       | Apr-Sep 2023; Apr-Oct 2024 | 24564             |
| Pasture Point      | Jul-Oct 2024               | 7435              |
| RBSA Dock          | May-Sep 2023; Apr-Oct 2024 | 20449             |
| Robbins Dock       | Apr-Sep 2023; Apr-Oct 2024 | 22161             |
| Whartons Bluff     | Apr-Oct 2023; Apr-Oct 2024 | 24059             |

To review the raw continuous Dissolved Oxygen data, please contact the Delaware Center for the Inland Bays (CIB)

Result of Center for the Inland Bays CIB) Stations' continuous Dissolved Oxygen data. DNREC received raw data from CIB, and the raw data was analyzed by DNREC.

| Site ID            | Latitude | Longitude | Dissolved<br>Oxygen<br>Count | Dissolved<br>Oxygen<br>Average | Dissolved<br>Oxygen<br>Minimum | Dissolved<br>Oxygen<br>Fail | Dissolved<br>Oxygen<br>Percent Fial | Continuous<br>Dissolved<br>Oxygen<br>Support | Parameter<br>Attainment |
|--------------------|----------|-----------|------------------------------|--------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------|-------------------------|
| Coastal Kayak Reef | 38.47435 | 38.47435  | 21697                        | 7.279303129                    | 3.95                           | 0                           | 0                                   | 1                                            | Meeting Criteria        |
| DCS Dock           | 38.59131 | 38.59131  | 24488                        | 7.02620998                     | 0.22                           | 2484                        | 10.14374387                         | 5                                            | Not Meeting Criteria    |
| Fishers Dock       | 38.56262 | 38.56262  | 24564                        | 7.976614965                    | 0.01                           | 1993                        | 8.11349943                          | 5                                            | Not Meeting Criteria    |
| Pasture Point      |          |           | 7435                         | 6.577876261                    | 1.26                           | 103                         | 1.38533961                          | 5                                            | Not Meeting Criteria    |
| RBSA Dock          | 38.68123 | 38.68123  | 20449                        | 5.88841068                     | 0.01                           | 2340                        | 11.44310235                         | 5                                            | Not Meeting Criteria    |
| Robbins Dock       | 38.63887 | 38.63887  | 22161                        | 6.808338974                    | 0.01                           | 2994                        | 13.51022066                         | 5                                            | Not Meeting Criteria    |
| Whartons Bluff     | 38.58619 | 38.58619  | 24059                        | 8.54231722                     | 0.01                           | 3017                        | 12.54000582                         | 5                                            | Not Meeting Criteria    |



DELAWARE DEPARTMENT OF  
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Science Coordinator  
Delaware Center for the Inland Bays  
39375 Inlet Rd  
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November 25, 2025

RE: Data Submittal for 2026 Integrated Report Consideration

The Delaware Department of Natural Resources and Environmental Control's (DNREC) Watershed Assessment Branch (WAB) received your submitted Dissolved Oxygen data (Submitted Data) on September 8, 2025 for consideration in the 2026 Integrated Report. The DNREC WAB reviewed the Submitted Data per the July 28, 2025 External Data Policy, which was publicly posted as part of the 2026 Integrated Report Data Solicitation on August 8, 2025 (<https://dnrec.delaware.gov/public-notices/wss20250294/>). The Submitted Data was determined to be classified as Tier-II: Supporting Data. The reason for this determination is as follows.

Methodology: After reviewing the Delaware Center for the Inland Bays Quality Assurance Project Plan (QAPP), effective date: August 14, 2020, the DNREC WAB has determined that the Submitted Data is not congruent with State of Delaware assessment methods. Per Table 1 of the QAPP the data sondes are deployed from 1.5ft to 6in from the bottom of the water column. When comparing this methodology to the State of Delaware Standard Operating Procedures for Ambient Surface Water Sampling and Field Measurements there is a noticeable methodology difference. State of Delaware Standard Operating Procedures for Ambient Surface Water Sampling and Field Measurements specify that water quality monitoring samples are to be retrieved from several inches below the surface of the water. Due to the different sampling methods which naturally result in different Dissolved Oxygen concentrations, the Submitted Data will be accepted as Tier-II Supporting Data.

Per the External Data Policy, Tier-II Data on its own will not be used for listing or assessment purposes but it will be used to draw attention to water quality issues. The Indian River (DE140-004), within the area of Wharton's Bluff, had fish kills reported to the DNREC WAB the summer of 2021. The fish kill reports, coupled with the supporting Dissolved Oxygen data of Wharton's Bluff sampling site resulted in the Wharton's Bluff data being used for listing and assessment purposes in the 2022 and

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2024 Integrated Report. Therefore, the 2026 Integrated Report will also use Wharton's Bluff sample site for listing and assessment purposes. This decision is consistent with previous Integrated Reports as documented within Section 4.2.1.3 of the 2024 Integrated Report. All other Submitted Data will be Tier-II data and included within the appendix of the 2026 Integrated Report.

The DNREC WAB is committed to working with the Delaware Center for the Inland Bays on water quality monitoring projects and methodology and we invite the Delaware Center for the Inland Bays to submit data for future Integrated Report cycles. Please reach out to Josh Barth via email: [Joshua.barth@delaware.gov](mailto:Joshua.barth@delaware.gov) or via cell: 302-535-0699, should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Josh Barth", with a stylized flourish extending from the end.

**Joshua Barth**  
Environmental Program Manager-II

## Appendix I: Public Participation

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## Public Notice Documentation

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## Submitted Comments

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