New Jersey Department of Environmental Protection
Division of Water Monitoring and Standards
Bureau of Environmental Analysis, Restoration and Standards

2016 New Jersey Integrated Water Quality Assessment Report

DRAFT
September 2019

Acknowledgements

New Jersey's integrated water quality assessment process requires the participation and expertise of many individuals. The Division of Water Monitoring and Standards gratefully acknowledges all who participated in the completion of this report. The Bureau of Environmental Analysis, Restoration and Standards (BEARS) Water Quality Assessment Team prepared this report under the direction of Director Bruce Friedman and Bureau Chief Kimberly Cenno.

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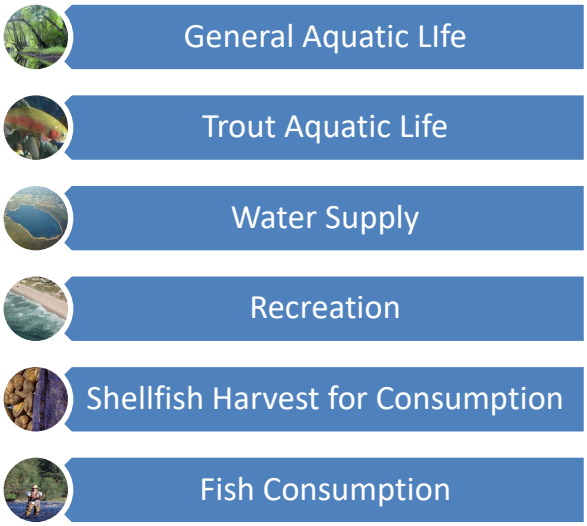
Table of Contents

Executive Summary

The 2016 Integrated Water Quality Assessment Report (Integrated Report) continues the comprehensive, regional approach to water quality assessment launched by the 2014 Integrated Report to support the identification of specific causes and sources of pollution, and to develop management measures tailored to the unique circumstances of one of New Jersey's five Water Regions each assessment cycle. This approach is important in identifying and managing all the sources contributing to water quality impairment (including point and nonpoint sources of pollution), land use planning, and other resource management tools. The Barnegat Bay Initiative served as a pilot for this approach, which was expanded to the entire Atlantic Coastal Water Region for the 2014 Integrated Report.

The 2016 Integrated Report focuses on the Raritan Water Region. The New Jersey portion of the entire Delaware River watershed will be the focus of the 2018/2020 Integrated Report. The Northeast Water Region will be the focus of the 2022 Integrated Report, after which the rotating regional assessment will return to the Atlantic Coastal Water Region in 2024. This approach will result in an extensive assessment of the entire State every 10 years as well as a comprehensive assessment of each water region that produces a greater number of thorough, validated, high confidence assessment decisions regarding ambient water quality conditions and the identification of data gaps. This report aims to guide future water quality sampling, sources of impairment on which to focus restoration activities, and new water quality issues for future investigation.

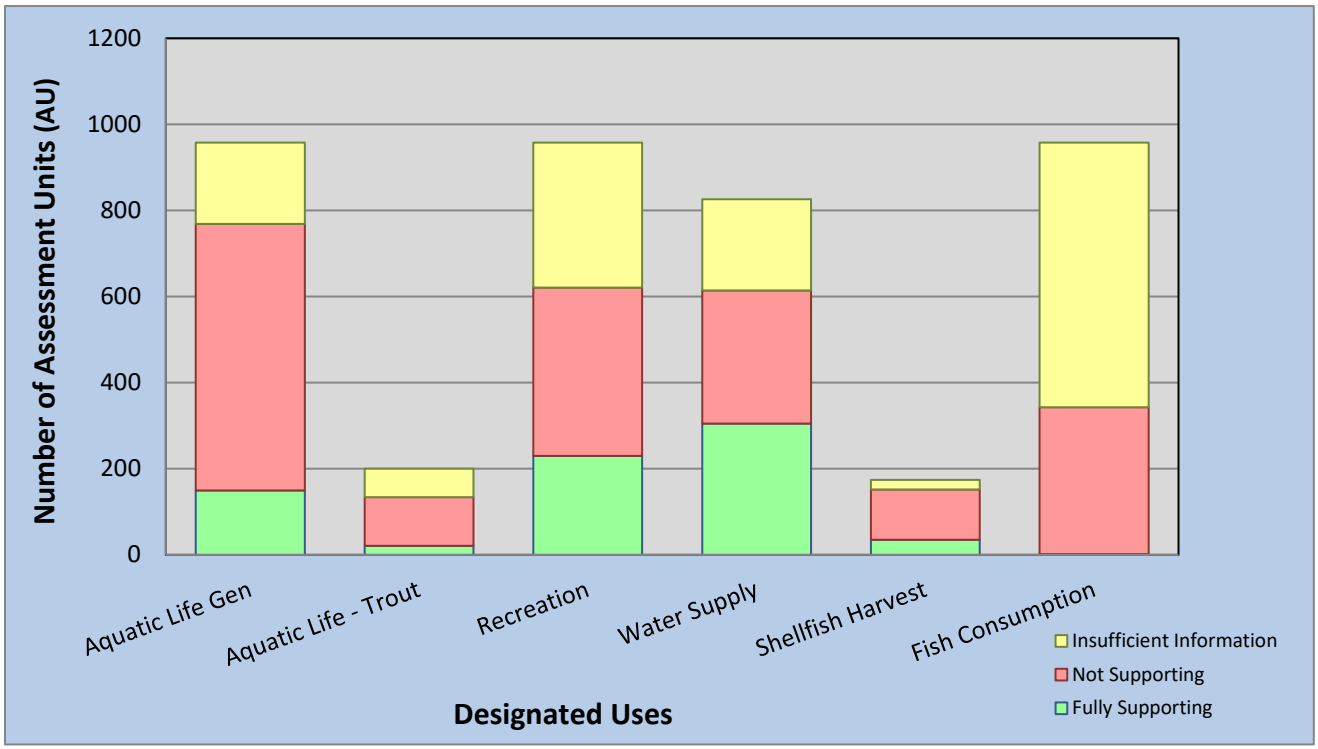


This report provides the information about New Jersey's water resources, current water quality conditions, and causes and sources of water quality impairment needed to inform and guide water quality monitoring, restoration and protection efforts conducted at the state, regional, watershed and local levels. The information provided in this report is also used by Congress, the U.S. Environmental Protection Agency (USEPA), and the State of New Jersey to establish program priorities and funding for restoring, maintaining, enhancing and protecting waters of the State and the uses and benefits (public health, environmental, and economic) they provide.

The 2016 Integrated Report summarizes results of both short-term and long-term water quality analysis. The majority of the water quality data assessed for this report was generated during a five-year period, from January 2010 through July 2015. Such data provides a "snapshot" of regional water quality conditions over a relatively short period of time along with an overview of statewide water quality conditions as required to meet the federally-mandated, two-year reporting

cycle. Long-term monitoring data, including certain ambient chemical data, macroinvertebrate data, and fish population studies, provide a better indication of changes in water quality over time.

Figure ES-1: Statewide Designated Use Assessment Results, 2016



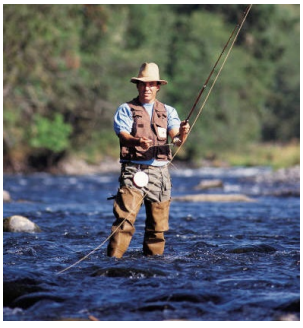
Water Supply: Thirty-eight percent of waters designated for the drinking water supply use fully support the use, 43 percent do not support the use, and 19 percent have insufficient information to assess the use. All New Jersey freshwater streams and lakes are designated for potential use as drinking water supply; however, most of the waters that do not support this use are not used for drinking water purposes. Arsenic is the predominant cause of water supply use impairment with 95% of impaired assessment units (AU's) exceeding the arsenic surface water quality standards (SWQS) human health criterion for arsenic of 0.017 micrograms per liter (ug/L). The frequency of arsenic impairment has increased over time due to improved laboratory methods that detect arsenic at levels approaching the human health criteria and increased monitoring throughout the state.

Recreation: All waters of the State are designated for recreational use (e.g., swimming, boating). Most recreation occurs in ocean bathing beaches where all are fully swimmable. Overall, twenty-

four percent of all New Jersey waters including lakes, ponds, rivers, and streams fully support the recreational use; 43 percent do not support the use; and 33 percent have insufficient information. The Department has addressed pathogens (fecal coliform, *E. coli, Enterococcus*) through development of total maximum daily loads (TMDLs), as a regulatory response for most of these impairments.

Aquatic Life: All waters of the State are designated for general aquatic life use and 81 percent have been assessed for this use. Seventeen percent of State waters fully support the general aquatic life use, 64 percent do not support the use, and 19 percent have insufficient information to assess the use. Fourteen percent of waters designated for the trout aquatic life use fully support this use, 59 percent do not support this use, and 27 percent have insufficient information. Impaired biological communities and nutrient-related parameters, particularly total phosphorus (TP), are the primary cause of general aquatic life use impairment. Over 130 TP TMDLs have been established to date. Temperature is the primary cause of trout use impairment.

Shellfish Harvest for Consumption: Almost ninety percent of shellfish waters are classified as harvestable. Harvestable waters include: approved with no restrictions, seasonal harvest, and special restrictions. Only shellfish waters approved with no restrictions are considered to be fully supporting the designated use in the Integrated Report. Since an AU encompasses many shellfish classifications, the Integrated Report's conservative assessment method determines an AU as impaired if any of the classifications are not approved with no restrictions. The results indicate that 20 percent of New Jersey's AUs fully support this use, 67 percent do not support this use, and 13 percent have insufficient information. Total coliform is the sole cause of shellfish use impairment and TMDLs have been developed for 79% of the impaired shellfish waters.



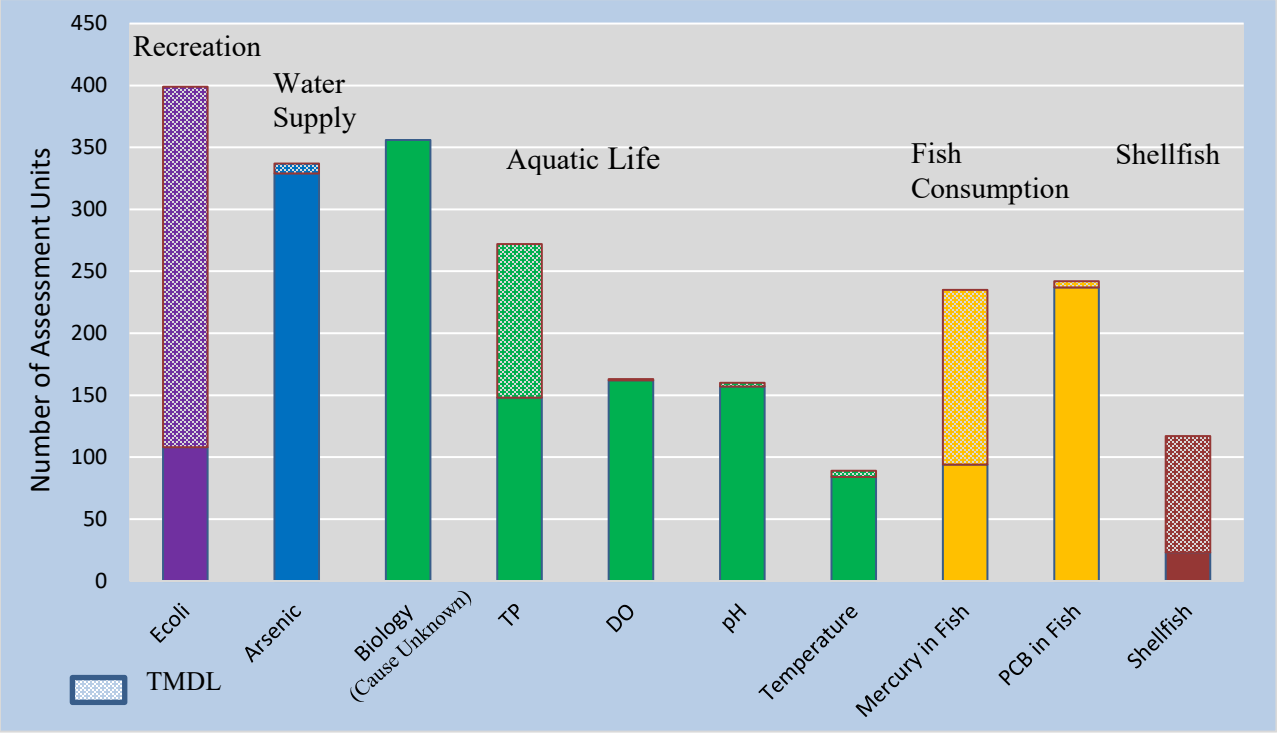
Fish Consumption: All New Jersey waters are designated for fish consumption. A very small percentage (<1 percent) of waters fully support the fish consumption use, 35 percent do not support the use, and 64 percent have insufficient information to assess the use. While there is a relatively small amount of data available, the majority of fish tissue data collected continues to show the impairment of the fish consumption use. The Department issues both statewide and waterbody-specific fish consumption advisories for such impaired waters. Bioaccumulative toxic pollutants are the cause of fish consumption use impairment; however, many of these pollutants, such as PCB and DDT and its metabolites, are no longer manufactured

and are considered "legacy" pollutants for which point source controls, such as wasteload allocations from TMDLs, are not effective restoration strategies.

The 303(d) List identifies pollutant causes of water quality impairment that require TMDL development. Causes already covered by an approved TMDL are identified on Sublist 4 of the Integrated List. The impairment list identifies 35 different causes of impairment for a total of 2,930 assessment unit (AU)/pollutant combinations (some AUs are impaired by multiple causes). Of all causes of water quality impairment, five of the top ten are associated with the aquatic life use, including biological impairments.

The most significant change to the listing methodology for the 2016 Integrated Report is the listing of biological assessment results. The new method lists all biological impairments based on macroinvertebrate and fish data whereas the previous listing methodology did not list biological impairments where there were other aquatic-life based chemical/physical impairments in an AU. The new listing methodology resulted in 228 biological listings on the 303(d) List that previously were not listed.

Figure ES-2: 2016 Top Ten Causes of Use Impairment



Over 150 AU/pollutant combinations were delisted from the 2016 303(d) List for various reasons (see Section 2.2). Forty-one percent of these delistings were due to water quality improvements while 47% of the delistings were due to an approved TMDL and placed on Sublist 4.

Trends: A recent USGS statewide water quality trend analyses[1] using data collected as far back as 1975 indicate that water quality has generally improved since the mid 1970's, particularly with respect to total phosphorus and total nitrogen (nutrients). This improvement is most likely due to the upgrade and regionalization of wastewater treatment plants that occurred throughout the State in the late 1980's through the early 1990's, as well as improved treatment for nutrients in New Jersey Pollutant Discharge Elimination System (NJPDES) permits, implementation of nonpoint source pollution control programs, and stewardship activities at the local level aimed at reducing nonpoint source of pollution.

Declining water quality trends for nitrate, total dissolved solids (TDS) and chlorides were also observed. Ammonia reduction measures implemented at waste treatment plants oxidize ammonia to form nitrate, resulting in increased nitrate concentrations over time. Runoff from urban and agricultural areas, including runoff of salt used to control ice on roadways, are the likely cause of increased TDS and chloride concentrations over time.

Stable and improving nutrient trends are evident in the Raritan Water Region as well. In addition to chemical trends, biological trends and metal trends were observed in this region. Biological trend analysis from 1999 to 2015 points to stable conditions with the majority of sites showing no changes over the 15-year period. However, there was an observable trend in the number of "Excellent" conditions and "Poor" conditions migrating toward the "Good" and "Fair" categories. The trends also show a correlation between biological impairment and anthropogenic factors such as land use, total urban land, increase in impervious surface, and decrease in forests and wetlands in a stream's drainage basin. The replacement of pervious land with impervious surfaces increases storm water and the associated impacts such as degraded riparian zones, unstable streambanks, higher turbidity, nutrients and other chemicals.

The most significant trend in the Raritan Water Region is the dramatic decrease of metal and ammonia levels in the region resulting in a 95% reduction of impairments on the 303(d) List since 1998. These results do not include arsenic which continues to be detected at levels that exceed the human health criteria. In 1998, there were 191 303(d) listings for metals including unionized ammonia. Years of monitoring has revealed only nine 303(d) listings for metals remain in 2016. This improvement is the result of rules and regulations that have limited the discharge of toxins in the waterways and air, the remediation of contaminated sites, and the closing or shifting of many manufacturers out of the region.

[1] Hickman, R.E. and R.M. Hirsch. 2017. Trends in the Quality of Water in New Jersey Streams, Water Years 1971-2011. SIR 2016-5176. USGS. Reston, VA.

The Department's strategic goal outlined in the "New Jersey Water Monitoring & Assessment Strategy (2005-2014)" to develop a comprehensive monitoring program for all waters of the state has resulted in drastic growth in the number of monitoring stations and samples collected over the last decade. In collaboration with other water monitoring stakeholders and agencies, the number of AUs with data has risen significantly. This trend has increased the number of samples used in the Integrated Report from approximately 300,000 data samples used in the 2006 assessment process to over 3.2 million discrete data samples and 1.8 million continuous data points for the 2016 Integrated Report. This data-rich environment has allowed the Department to increase the number of watersheds assessed and improve the validity of the assessments resulting in thorough, sound, high confidence assessment decisions.

For the 2016 Integrated Report, the Raritan Water Region underwent a comprehensive analysis to determine water quality in the region. The comprehensive assessment includes a detailed analysis of water quality and biological data, hydrography, land use, weather events, potential pollution sources, and historical data to confirm current water quality conditions. Restoration activities that are associated with improved water quality are identified as well as potential pollutant sources specifically in impaired waters that had minimal development or point sources. The comprehensive assessment also identifies data gaps to guide future water quality sampling, sources of impairment on which to focus restoration activities, and water quality issues for future investigation.

An analysis of land use demonstrates how developed land use and impervious surface impacts the aquatic ecosystem. Studies have shown that impervious surface is the most predictive and reliable land use indicator for biological integrity[2]. These studies reveal that where impervious surface exceeds 10% of watershed land use biological degradation occurs. In watersheds where biota reflect healthy communities, the data show they are located in watersheds with healthy, forested riparian zones that include wetlands. Riparian areas are transitional areas between terrestrial and aquatic ecosystems that are vital to watershed health. In watersheds with agricultural use or anthropogenic disturbance such as industrial, commercial, and residential development, the riparian zone provides a buffering between the stream and the area of disturbance. When observing impervious surface in riparian zones, the riparian buffer exhibits the highest sensitivity to

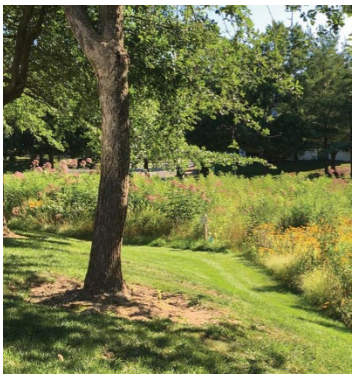
[2] Booth, D.B. and L. Reinelt. 1993. Consequences of Urbanization on Aquatic Systems - Measured Effects, Degradation Thresholds, and Corrective Strategies. Proceedings of the Watershed '93 Conference.

Klein, R.D. 1979. Urbanization and Stream Quality Impairment. Water Resources Bulletin 15: 948-963.

Schueler, T.R. 1994. The Importance of Imperviousness. Watershed Protection Techniques 1(3): 100- 111.

Steedman, R.J. 1988. Modification and Assessment of an Index of Biotic Integrity to Quantify Stream Quality in Southern Ontario. Canadian Journal of Fisheries and Aquatic Sciences 45: 492-501.

disturbances in the watershed. In the Raritan Water Region, where impervious surface exceeds 10% in the riparian zone, the biological communities display extensive degradation with 90% of the biological communities impaired. Without a buffer to reduce the effects of stressors within the watershed, the biological communities are inundated and unable to recover. Development in the riparian zone degrades the benefits from a healthy ecosystem by intensifying storm water flow, destabilizes streambanks, increases levels of sedimentation and other nonpoint pollutants, rises water temperatures, damages stream habitat, reduces infiltration into the soil, as well as increases the frequency and intensity of flooding and low stream flows.



Over the last 10 years the Department has focused a strategy that allocated the resources needed to increase monitoring that has successfully reduced data gaps and achieved a stronger understanding of water quality conditions in the region. With this understanding of water quality issues in the Raritan Water Region, the Department has been able to initiate management actions to protect, maintain and restore water quality. Several significant efforts in the region include the approval of the Raritan TMDL, the "Non-Tidal Raritan River Watershed Protection Plan", and nonpoint restoration efforts. Since 1998, the Department has funded over $11 million in nonpoint restoration projects including $7.6 million since 2015. These actions along with future efforts are expected to reduce pollutant loading to help restore water quality.

In the effort to optimize resources for restoration efforts, the Department has initiated actions that identify and prioritize future nonpoint restoration efforts at a regional level. The goal of this effort is to maximize the utilization of restoration funding by identifying AUs that show the best potential for improving water quality, identifying areas within the AU that will have the most impact on water quality, and prioritizing these efforts. For the Raritan Water Region, 39 AUs were selected and vetted with stakeholders encompassing all four watershed management areas where AUs show the best potential in achieving water quality improvements to restore designated uses.

The Department administers numerous programs to restore, maintain, and enhance water quality. These programs include regulatory and non-regulatory water pollution control programs along with pollution prevention through education, outreach and stewardship programs for volunteer and community groups. The success of the Department's water quality management programs is supported by the results of the water quality trends analysis, which shows improving and stabilizing conditions over time (Chapter 2 and 3). These improvements are the result of significant financial investment, including millions of dollars in grants awarded for water quality planning, restoration, land acquisition, and wastewater facility infrastructure improvements, operations, and maintenance (Chapter 5). Since its inception in 1987, the NJ Water Bank Program as financed approximately $5.5 billion dollars to upgrade wastewater treatment facilities, reduce infiltration/inflow, control discharges from Combined Sewer Overflows (CSOs), construct sludge handling facilities, improve stormwater runoff, and close landfills. These investments have generated tangible results - increased beach days, trout waters, and shellfish harvests – that yield economic benefits for the entire State.

New Jersey is the fifth smallest and most densely populated state in the Nation. It is also one of the most geologically and hydrogeologically diverse states, with over 18,000 miles of rivers and streams; over 50,000 acres of lakes, ponds, and reservoirs; 950,000 acres of wetlands; 260 square miles of estuaries; 127 miles of coastline; and over 450 square miles of ocean under its jurisdiction. The combination of population density, diversity of natural resources, and a wide range of industries and land uses presents unique challenges to protecting New Jersey's water resources and these uses.

New Jersey's surface waters provide much of the water used for public drinking water, and serves as the primary resource for recreation, fish consumption and shellfish harvesting; yet most of the State's streams, lakes, ponds, bays, ground waters and ocean waters are impacted to some degree by both point and nonpoint sources of pollution. Protecting and restoring our water resources from such impacts has a direct and positive impact on the State's economy, particularly dollars generated by tourism, including recreational boating, swimming, and fishing, as well as from commercial fisheries, including shellfish, and the seafood industry. The Department estimates that the economic value of New Jersey's aquatic ecosystems at more than 19 billion dollars[3].

The full 2016 Integrated Report is available on the Department's website at http://www.state.nj.us/dep/wms/bears/assessment.htm along with other related documents.

[3] NJDEP. Valuing New Jersey's Natural Capital: An Assessment of the Economic Value of the State's Natural Resources. April 2007. Available at http://www.nj.gov/dep/dsr/naturalcap.
Table 5.1 is based on data from Table 4 of Part II of the report. Dollar amounts were converted from 2004 to 2009 dollars using the change in the Consumer Price Index for All Urban Consumers published by the U.S. Department of Labor's Bureau of Labor Statistics at http://www.bls.gov/cpi/.

Chapter 1: Introduction

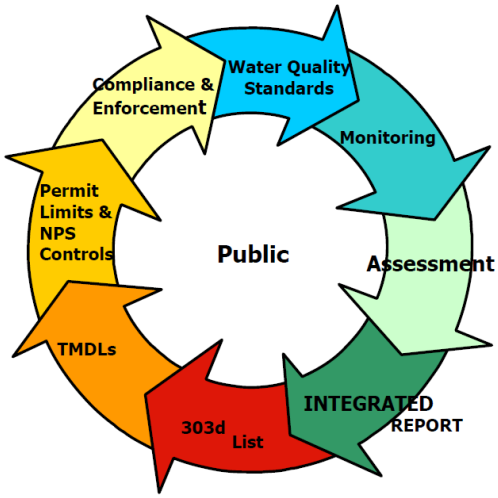
New Jersey is the fifth smallest and most densely populated state in the Nation and is one of the most geologically and hydrogeologically diverse. New Jersey has a variety of surface waterbody types that range from intermittent streams to large river systems (a significant number of which are tidally influenced); acres of lakes, ponds, and reservoirs; and miles of estuarine and coastal (ocean) waters. Wetlands are found near most surface waterbodies, both freshwater and saltwater. New Jersey's surface water systems are located in a wide variety of geologic settings, from the glaciated regions of northern New Jersey to the coastal plain of southern New Jersey and include ecologically unique and/or protected areas such as the Pinelands and the Highlands regions. This combination of population density, diversity of natural resources, and a wide range of industries and land uses presents unique challenges in protecting New Jersey's water resources.

New Jersey's surface waters provide much of the water used for drinking water supplies, recreation, fishing, boating, swimming, commercial fisheries including shellfish, and tourism, all of which support our State's ecology, economy, and quality of life for our residents. The New Jersey Integrated Water Quality Assessment Report (Integrated Report) is a compilation of information about the quality of New Jersey's surface waters. The New Jersey Department of Environmental Protection (Department) prepares the Integrated Report as a biennial assessment of statewide water quality that identifies and prioritizes waters for protection, restoration, and additional monitoring or research. The Integrated Report thus serves as an effective tool for enhancing, maintaining, and restoring water quality in all surface waters of the State to support their use for aquatic life, recreation, water supply, fish consumption, and shellfish harvest for consumption.

1.1 - Overview of Integrated Water Quality Assessment

The primary purpose of the integrated water quality assessment program is to determine the health of New Jersey's water resources so the appropriate steps can be taken to restore, maintain and protect our water resources and their designated uses. Water quality standards, monitoring, and assessment provide the scientific foundation for the integrated assessment that supports protection of New Jersey's water resources and implementation of the federal Clean Water Act, the New Jersey Water Quality Planning Act, and the New Jersey Water Pollution Control Act (see Figure 1.1).

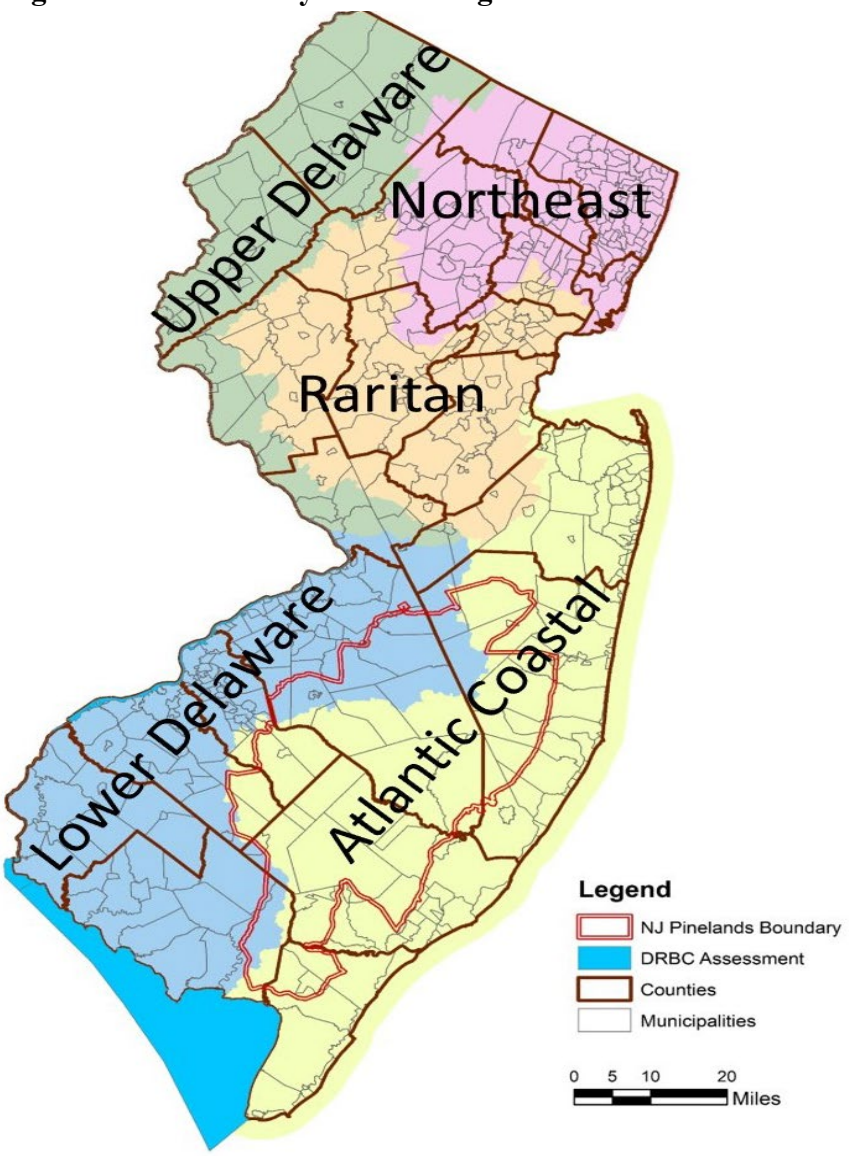
Figure 1.1: Water Quality



Water Quality Assessment

The Department initiates a new water quality assessment cycle every two years with the public solicitation of water quality data from other monitoring entities for a defined data collection and period. The Department compiles all existing and readily available data for the specified reporting period, evaluates the data to ensure that it meets established data quality requirements, and assesses the data using scientific methods developed specifically for the applicable type of parameter, designated use, and waterbody classification to determine compliance with New Jersey's surface water quality standards and support of applicable designated uses. These methods are fully described in the Integrated Water Quality Assessment Methods (Methods Document) published on the Department's assessment website (see http://www.state.nj.us/dep/wms/bears/assessment.htm). Any changes to the Methods Document are published for public review and comment prior to the assessment of data to be used for the corresponding assessment cycle.

Figure 1.2: New Jersey's Water Regions and Assessment Units



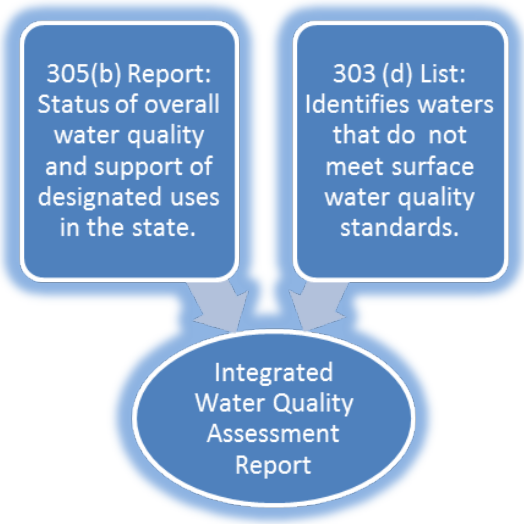
Water quality data are compiled and evaluated on both a station level, for attainment with applicable SWQS, and on an assessment unit level, for support of applicable designated uses, for all surface waters of the State. Assessment units (AUs) represent the scale at which waters of the State are grouped for assessment purposes. New Jersey waters are grouped into 958 AUs, which are delineated based on the U.S. Geological Survey (USGS) 14-digit Hydrologic Unit Code (HUC) boundaries except for waters of the Barnegat Bay Estuary and the Delaware River, and are grouped within five water regions (see Figure 1.2). The intra-state waters of the Delaware River are assessed by the

Delaware River Basin Commission (DRBC) based on their configuration of river "zones".[4] The Department revised the AU boundaries for the Barnegat Bay in 2014, based on hydrologic and water quality data, to more accurately reflect conditions within the bay. Assessment unit boundaries are explained in more detail in the 2016 Methods Document (see http://www.state.nj.us/dep/wms/bears/docs/2016_final_methods_document.pdf). Assessment results are summarized in a draft Integrated Report, which is also published for public review and comment before it is formally submitted to USEPA for approval. Additional information about the assessment process, including prior assessment cycles, is available on the Department's website at http://www.state.nj.us/dep/wms/bears/assessment.htm.

Federal Reporting Requirements

The federal Clean Water Act (CWA) mandates that states submit biennial reports to the U.S. Environmental Protection Agency (USEPA) describing the quality of their waters. CWA Section 305(b) requires submission of a biennial water quality inventory (305(b) Report) that assesses overall water quality and support of designate uses of all principal waters, as well as strategies to maintain and improve water quality. The 305(b) Reports are used by Congress and USEPA to establish program priorities and funding for federal and state water resource management programs. CWA Section 303(d) requires submission of a biennial list of water quality-limited waters (303(d) List), which identifies waters that are not supporting designated uses because they do not meet surface water quality standards despite the implementation of technology-based effluent limits. States must prioritize waters on the 303(d) List for development of Total Maximum Daily Load (TMDL) analyses or alternative approaches and identify those high priority waters on the 303(d) List for which they anticipate establishing TMDLs in the next two years. These separate requirements were integrated in 2002 to produce one biennial Integrated Report (see Figure 1.3). This statewide assessment of water quality also provides a key component of New Jersey's Continuing Planning Process, in accordance with N.J.S.A. 58:11A-7(b) and 40 CFR 130.5(b).

Figure 1.3: Integrated Report



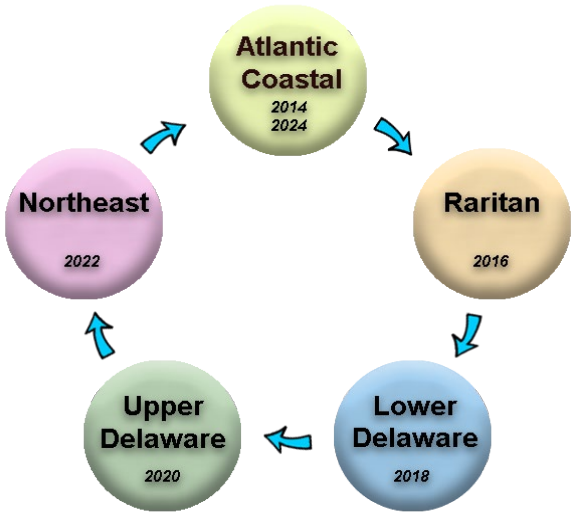
1.2 - Rotating Regional Approach to Water Quality Assessment

New Jersey employs an integrated approach to assessing water quality by compiling a vast amount of water monitoring data and related information collected by numerous sources throughout the state and evaluating it to determine the health of New Jersey's surface waters. This statewide assessment

[4] DRBC. 2016 Delaware River and Bay Water Quality Assessment. Delaware River Basin Commission. West Trenton, NJ. August 2014. Available on DRBC's Web site at http://www.state.nj.us/drbc/library/documents/WQAssessmentReport2016.pdf.

of water quality is conducted every two years and includes a comprehensive assessment of one of the five water regions each assessment cycle. A different water region is selected each assessment cycle, on a rotating basis (see Figure 1.4). This integrated water quality assessment process is used to determine if water quality conditions have changed over time; if water quality standards are met and if designated uses, such as recreation and water supply, are fully supported; to identify causes and sources of water quality impairment; and to develop restoration strategies for impaired waters and protection strategies for healthy waters.

Figure 1.4: Rotating Regional Approach



Since 2014, New Jersey has employed this rotating regional approach to integrated water quality assessment. Under this approach, the Department conducts a streamlined assessment of statewide water quality along with a more comprehensive, detailed assessment of water quality in one of New Jersey's five water regions, Atlantic Coastal, Raritan, Lower Delaware, Upper Delaware and Northeast each assessment cycle. This rotating regional approach will produce a comprehensive assessment of the entire State every ten years and will support development of measures to restore, maintain, and enhance water quality tailored to the unique circumstances of each regions. This approach is consistent with U.S. Environmental Protection Agency (USEPA) guidance for administering the federal Clean Water Act Section 303(d) Program entitled: "A Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program" issued in 2013. New Jersey's approach for implementing this guidance was submitted to USEPA and published as Appendix G of the 2014 Integrated Report, entitled: "New Jersey's Vision Approach for Assessment, Restoration, and Protection of Water Resources under the Clean Water Act Section 303(d) Program".

Figure 1.5: Integrated Water Quality Assessment

An updated Vision Approach is included in Appendix G of this report. This update explains how public participation and local commitment to a common goal of water quality restoration is needed to achieve fully supported uses in all waters of the State and what steps the Department is taking to engage stakeholders and the watershed community in the key aspects of the integrated water quality assessment process through outreach, monitoring, assessment and implementation (see Figure 1.5). This commitment to public involvement is reflected in the Department's redesigned water quality assessment website at

http://www.state.nj.us/dep/wms/bears/assessment.htm#/, which shows the various stages of the integrated assessment process underway in each water region during each assessment cycle. An interactive mapping tool is being developed for this website to provide easier access to the data and assessment results on a statewide, regional, AU and waterbody level.

1.3 - 2016 Integrated Report

As explained under the Rotating Regional Approach to Water Quality Assessment, the 2016 Integrated Report provides both a statewide assessment of water quality and a comprehensive assessment of water quality in the Raritan Water Region (RWR). Assessment results describe the overall quality of New Jersey's surface waters based on existing, readily available data collected generally between January 1, 2010 and July 1, 2015. The Department compiled data available from various public data repositories and evaluated it to verify that the data met the Department's data quality requirements. Data was then assessed using scientific methods developed specifically for the applicable type of parameter, designated use, and waterbody to determine compliance with New Jersey's surface water quality standards (SWQS). These methods are described in detail in the final 2016 Methods Document.

While the majority of water quality data used for assessment purposes is generated by the Department, various monitoring organizations and other partners also collect relevant data. These include federal and county government agencies, regional commissions (e.g., Pinelands Commission) watershed associations and other voluntary citizen monitoring, and discharger associations. The Integrated Report is generated using data from all the Department's surface water quality monitoring networks along with relevant data from our monitoring partners that meets all data requirements and quality controls set forth in the corresponding Integrated Water Quality Assessment Methods (Methods Document). An explanation of any data sets not used for the 2016 Integrated Report is provided in Appendix E.

Water quality parameters are assessed as attaining or not attaining the applicable SWQS at each station for which there is sufficient data to compliance. Data from all stations located within each assessment unit (AU) are assessed collectively to determine if the applicable deisgnated uses are fully supported, not supported, or if there is insufficient information to assess the use. AUs assessed as "not supporting" a designated use include those that require a TMDL for pollutant cause(s) of use impairment as well as those covered by an approved TMDL that has not yet attained the applicable water quality standards necessary to fully support the use. These assessment results correspond to placement on the Integrated List of Waters (see Table 1.1), which identifies which waters are fully supporting all or some of the applicable designated uses (Sublists 1 and 2), which waters are not supporting one or more designated uses (Sublists 4 and 5), and which waters have insufficient data to assess use support (Sublist 3). Placement on these sublists enables the Department to develop, prioritize and implement appropriate response strategies including protection of high quality waters, additional monitoring to fill data gaps, and restoration activites to address impairment.

Table 1.1: Components of New Jersey's Integrated List of Water (Integrated List)

Sublist 1/ Sublist 2	An assessment unit is fully supporting designated uses and no uses are threatened.
Sublist 3	Insufficient data and information are available to determine if the designated use is fully supported.
Sublist 4	One or more designated uses are not supported or are threatened but TMDL development is not required because of one of the following reasons:
Sublist 4A	A TMDL has been completed for the parameter causing designated use non-support.
Sublist 4B	Other enforceable pollutant control measures are reasonably expected to result in fully supporting the designated use in the near future.
Sublist 4C	Non-support of the designated use is caused by something other than a pollutant.
Sublist 5	One or more designated uses are not supported or are threatened by a pollutant(s), that requires development of a TMDL.
Sublist 5A	Arsenic does not attain standards, but concentrations are below those demonstrated to be from naturally occurring conditions.
Sublist 5L	Designated use impairment is caused by a "legacy" pollutant that is no longer actively discharged by a point source.
Sublist 5R	Water quality impairment is not effectively addressed by a TMDL, such as nonpoint source pollution that will be controlled under an approved watershed restoration plan or 319(h) Watershed Based Plan.

Sublist 5A (Arsenic Naturally Occurring) identifies AUs where arsenic does not attain standards, but concentrations are below those demonstrated to be from naturally occurring conditions; Sublist 5L (Legacy pollutants) identifies AUs where designated use impairment is caused by a "legacy" pollutant that is no longer actively discharged by a point source; and Sublist 5R (watershed restoration) identifies AUs for which water quality impairment is not effectively addressed by a TMDL, such as nonpoint source pollution that will be controlled under an approved watershed restoration plan or 319(h) Watershed Based Plan. Development of a watershed restoration plan can be an effective alternative to a formal TMDL to characterize pollutant sources, the reductions needed to attain standards, and the means to achieve the reductions. Pollutant causes of use impairment on Sublist 5 are placed on the 303(d) List, which also identified their priority ranking for TMDL development (H, M, L). TMDLs for AUs/pollutant combinations identified on Sublists 5A, 5L and 5R are assigned a low priority for TMDL development since alternative restoration measures are being pursued. The structure of the 2016 Integrated List and the rationale for each subpart is explained in more detail in the 2016 Methods Document (see 7.0 Integrated List Guidance).

Chapter 2: Statewide Water Quality

The 2016 Integrated Water Quality Assessment was completed using readily available chemical and biological monitoring data collected generally between January 2010 through July 2015, which was compiled and assessed in accordance with the 2016 Methods Document (see http://www.state.nj.us/dep/wms/bears/docs/2016_final_methods_document_and_response_to_comments.pdf). The data were used to assess designated use support for all waters of the State and to identify pollutants causing designated use impairment. The use assessment results for each of New Jersey's 958 assessment units (AUs)[5] are presented in the 2016 Integrated List of Waters (Integrated List)[6], which is included in Appendix A of this report. Appendix A also includes a table of changes to designated use assessment results from the 2014 Integrated Report. The pollutant causes of use impairment in each AU are identified in Sublist 5 of the Integrated List, which also serves as the 2016 303(d) List of Water Quality Limited Waters (303(d) List) and is included in Appendix B. The 2016 303(d) List also includes the priority ranking for TMDL development, the listing station and cycle, the Sublist 5 subpart (where applicable) and the priority ranking for TMDL development. Appendix B identifies the sources of parameters causing use impairment and a table of TMDLs to be developed over the next two years. Causes removed from the 303(d) List and from Sublist 4 are included in Appendix C along with corresponding reasons and explanations. Decisions to not list causes on the 303(d) List is in Appendix D while data sources used to support the Integrated Report are identified in Appendix E.

The results presented in these appendices are summarized in Section 2.1 and 2.2. Section 2.1 focuses on use assessment results as well as the pollutants associated with impairment of each designated use. Section 2.2 summarizes key differences in the assessment results for the 2016 Integrated List compared to the prior cycle and identifies the new listings and new delistings to the 303(d) List and Sublist 4.

2.1 - Current Water Quality Conditions

The 2016 Integrated List (Appendix A) contains the use assessment results for New Jersey's 958 AUs. Each AU is assessed by the Department to determine if the applicable designated uses are fully supported, not supported, or not assessed due to insufficient information. Statewide use assessment results show that out of the 4,063 designated use results 48% of designated uses do not support use, 19% support use, and 33% have insufficient data.

[5] New Jersey's waters are grouped for assessment purposes into hydrologically connected assessment units (AUs), most of which are based on United States Geological Survey (USGS) 14-digit Hydrologic Unit Code (HUC) boundaries. HUCs are geographic areas representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by USGS in cooperation with the National Resources Conservation Service (NRCS). AUs containing the Barnegat Bay Estuary are delineated based on hydrologic and water quality data and modeling into 9 AUs that more accurately reflect conditions within the bay. Shared waters of the Delaware River mainstem, estuary, and bay are assessed based on the 8 Delaware River AUs delineated by the Delaware River Basin Commission (DRBC), which is responsible for assessing those intra-state waters.

[6] Formerly referred to as the "Status of Designated Uses by Subwatershed Report", "Statewide Water Quality Inventory Report", or "305(b) Report" in previous Integrated Reports.

A summary of statewide use assessment results is provided in Table 2.1 and Figure 2.1. The water supply use has the highest percentage of use support (38%), followed by the recreation use (24%). The fish consumption use has the lowest percentage of use support (>1%). The general aquatic life use has the highest number of AUs with sufficient data for use assessment with 779 of 958 (81%) AUs with data and 17% of AUs fully support the use. Shellfish and aquatic life–trout designated uses apply to a relatively small number of AUs. Shellfish is fully supported in 20% of applicable AUs, while the aquatic life trout use is fully supported in 14% of applicable AUs.

Table 2.1: 2016 Statewide Designated Use Assessment Results (Number and Percent of AUs)

Designated Use	Aquatic Life Gen		Aquatic Life - Trout		Recreation		Water Supply		Shellfish Harvest		Fish Consumption	
Fully Supporting	164	17%	27	14%	232	24%	305	38%	34	20%	6	1%
Not Supporting	615	64%	116	59%	410	43%	353	43%	118	67%	339	35%
Insufficient Information	179	19%	56	27%	316	33%	159	19%	22	13%	613	64%
Total AUs	**958**		**199**		**958**		**817**		**174**		**958**	

Figure 2.1: 2016 Statewide Designated Use Assessment Results

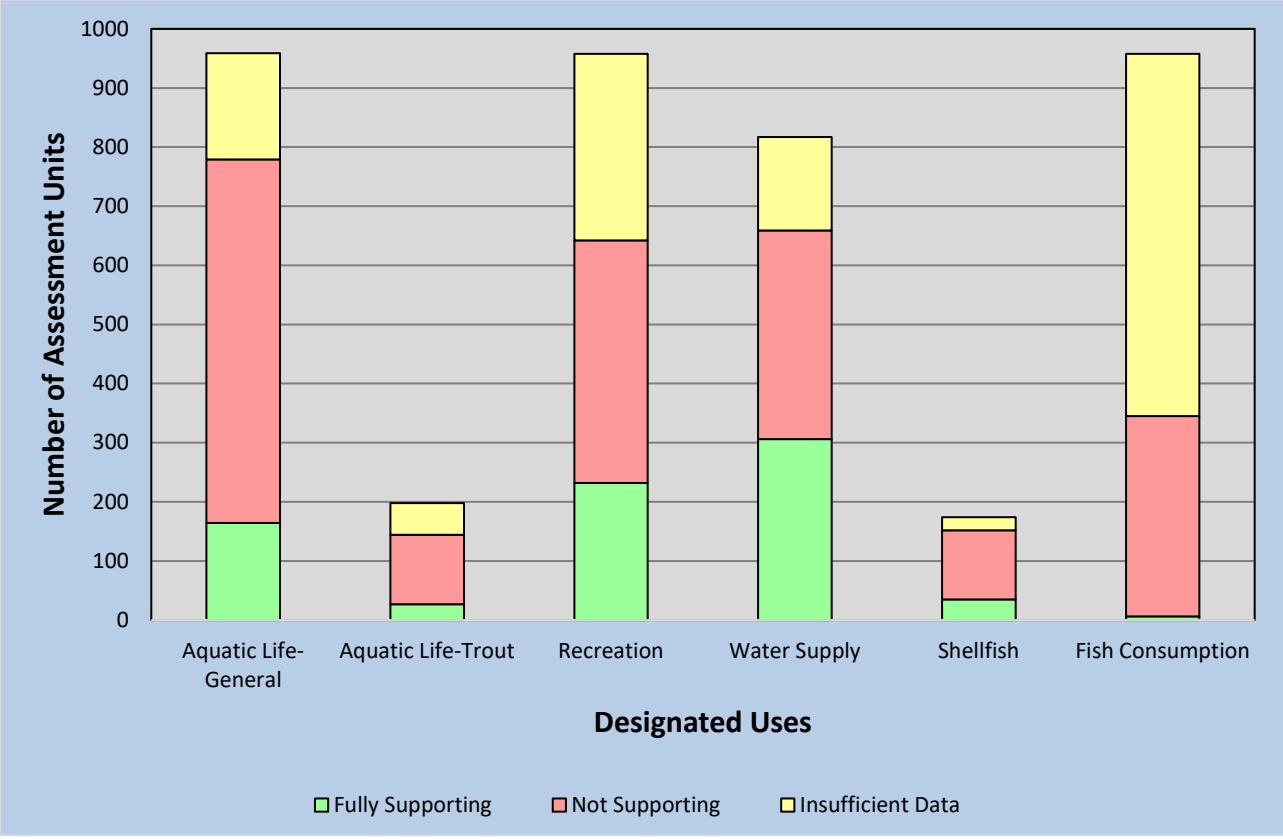
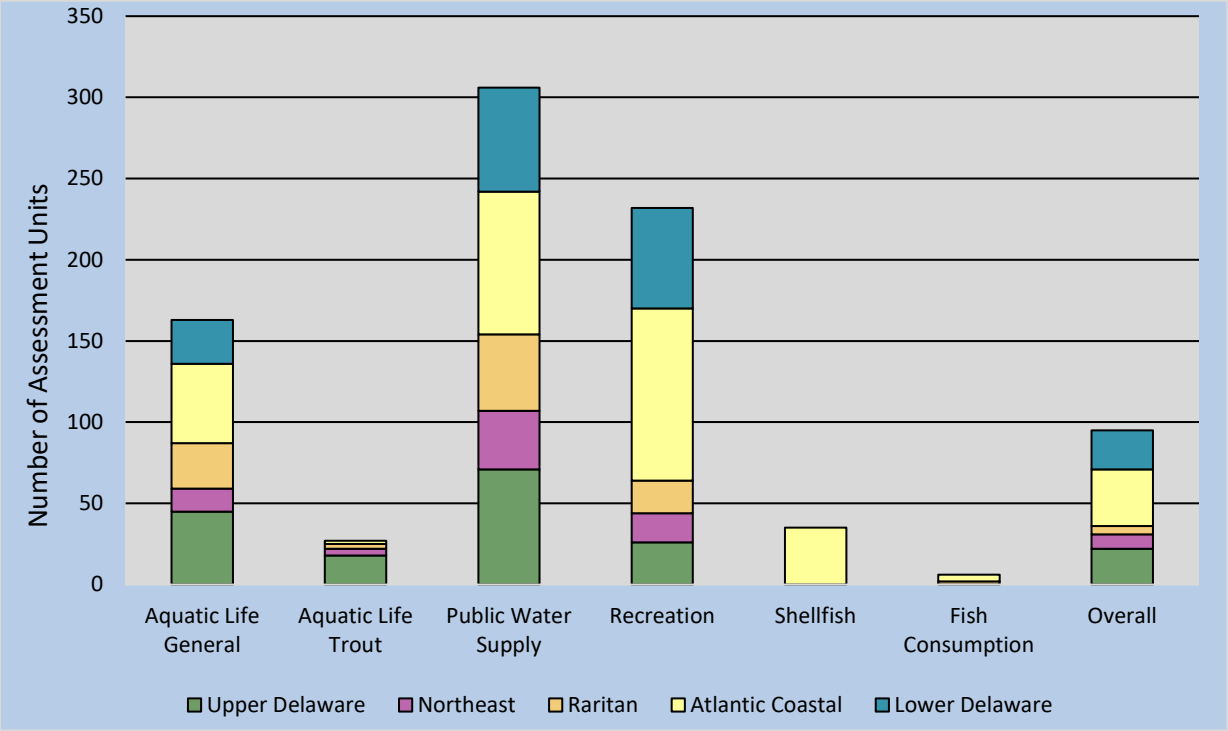


Figure 2.2 shows the number of AUs that fully support applicable designated uses in each Water Region. The Atlantic Coastal Water Region has the highest number of fully supported designated uses (284 AU/use combinations) of the New Jersey's Water Regions, followed by Upper Delaware (160), Lower Delaware (153), Raritan (100), and Northeast (72).

Figure 2.2: Number of AUs Fully Supporting Designated Uses, by Water Region, 2016

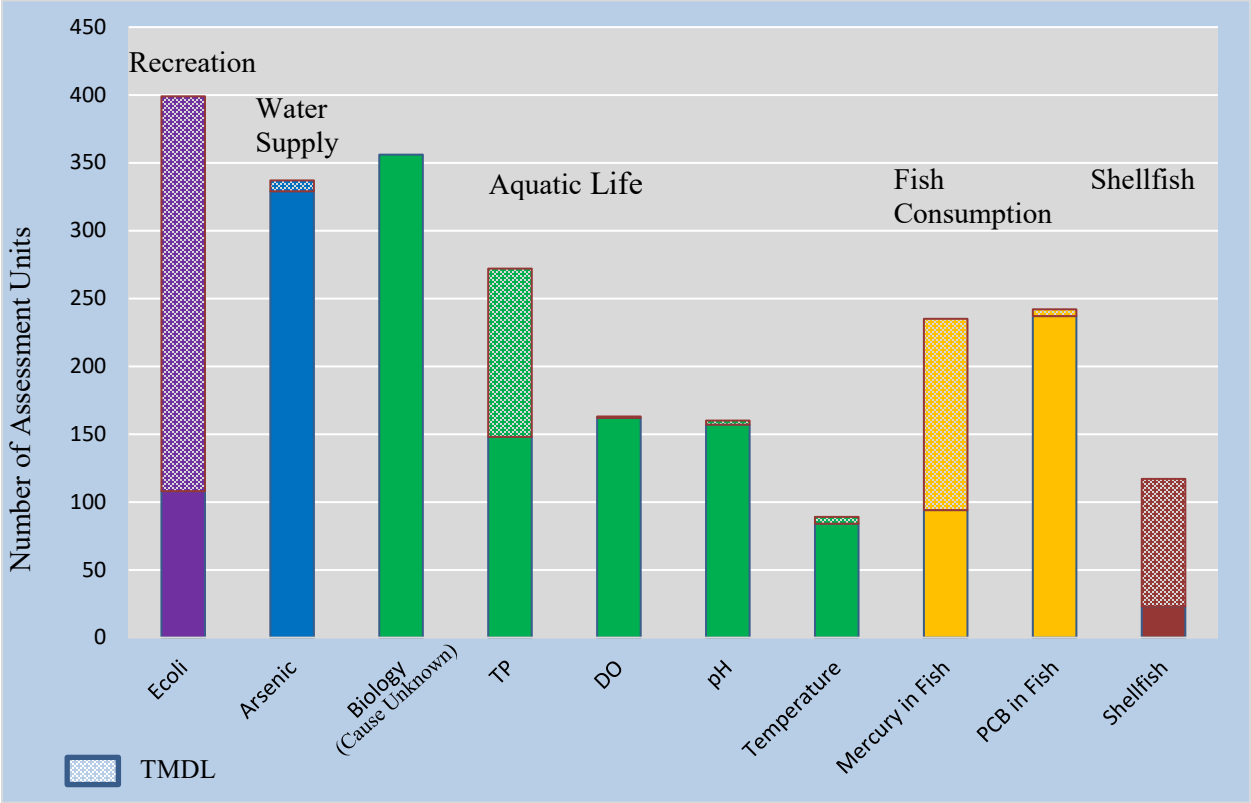


AUs assessed as not supporting a designated use include those that are impaired by pollutant causes that are not covered by an approved total maximum daily load (TMDL) and are placed on the 303(d) List, as well as those that are covered by an approved TMDL but have not yet attained the applicable water quality standards necessary to fully support the use, which are identified on Sublist 4 of the Integrated List. The impairment list identifies 35 different causes of impairment, for a total of 2,912 assessment unit (AU)/pollutant combinations. (Note: some AUs are impaired by multiple causes.) The most frequent causes of impairment or "designated use non-support" are shown in Figure 2.1 and are associated with the recreation, aquatic life, fish consumption, and water supply designated uses.

Figure 2.3 shows that *E. coli* is the most frequent cause of water quality impairment statewide and is associated with the recreational use. Most of these impairments (73%) are already covered under an approved TMDL. Biological impairments linked to benthic macroinvertebrate and fish communities are the second most frequent reason of water quality impairment and is associated with aquatic life use. Arsenic continues to show impairments statewide and is associated with the water supply use. A number of these impairments are attributed to natural conditions but must still be categorized as

impaired. PCB in fish tissue is the most frequent cause of fish consumption use non-support while high total coliform levels are impacting shellfish harvesting in our coastal waters.

Figure 2.3: Top Ten Causes of Water Quality Impairment



These results reflect an increase in the number of impaired waters in New Jersey compared to previous reporting cycles; however, direct comparison between listing cycles as an indicator of water quality trends is problematic. In each listing cycle, there have been changes that affect the assessment universe and protocols for assessment decisions. For example, assessed areas were defined as stream segments, which kept changing as new waters were sampled; then HUC14 sub-watershed became the basis for assessment, which provided a degree of uniformity from cycle to cycle, although there have been refinements to this universe. Additionally, improved detection limits for measuring pollutants, improved sampling techniques, improved equipment technology, and more rigorous assessment procedures have all contributed to changes in the number of possible assessment decisions and assessment outcomes over time. As we have witnessed in New Jersey, tremendous growth in new sampling has revealed more waterbodies that are impaired in previously unassessed waters. Longer term trends, discussed in Chapter 2 and Chapter 3, are considered to be better indicators in providing context for overall water quality status.

The most significant change to the listing methodology for the 2016 Integrated Report is the revised method of listing biological assessment results based on benthic macroinvertebrate and fish

community data on the 303(d) List. The newest method lists all biological impairments on the 303(d) List based on macroinvertebrate and fish data which are represented by "Biological - Cause Unknown." Whereas the previous listing methodology only listed biological impairments when there were no other aquatic-life based chemical/physical impairments in an AU, the new method lists all biological impairments on the 303(d) List regardless of other aquatic-life based chemical/physical impairments. The previous method was based on the presumption that the aquatic-life based chemical/physical impairment was the exclusive cause of the macroinvertebrate/fish impairment, however, it is known that biological community impairments are impacted by other stressors such as loss of habitat, hydrologic alterations, increased storm flow, and riparian zone modifications. This action clarifies the listing methodology in that it includes all known impairments that are causing aquatic life designated use non-support on the Integrated List/303(d) List. Additionally, this methodology allows the Department to more accurately address biological impairments in waterbodies by identifying the issues, developing the proper management strategy, and implementing the most effective restoration actions to address the impairments. The new listing methodology resulted in 228 biological listings on the 303(d) List that previously were not listed.

In addition, two new indices were developed to address biological assessment gaps; Barnegat Bay Macroinvertebrate Index (BBMI) and Headwaters Index of Biotic Integrity (HIBI). The BBMI is based on the Multivariable AZTI Marine Biotic Index (M-AMBI)[7] to assess the health of the benthic community in the Barnegat Bay based on research conducted by Rutgers University (all four reports located at https://www.nj.gov/dep/dsr/barnegat/final-reports/#Benethic_Invertebrates). The widely accepted and locally validated index was originally developed in Europe, but has since been improved and modified to include waters in the Virginia Provence, which extends from Cape Cod to the Chesapeake Bay. The HIBI was developed to assess streams less than four square miles in watershed area within the northern ecoregions. This new index monitors the assemblage of fish as well as crayfish, salamanders and frogs to assess aquatic life use in small headwater streams.

The Department's strategic goal outlined in the "New Jersey Water Monitoring & Assessment Strategy (2005-2014)" to develop a comprehensive monitoring program for all waters of the state has resulted in drastic increase in the number of monitoring stations and samples collected over the last decade. In collaboration with other water monitoring stakeholders and agencies, the number of AUs with data has risen significantly and has resulted in a comprehensive understanding of water quality conditions. Since 2006 which is the first Integrated Report that AUs were based on HUC14 sub-watersheds, the number of unassessed designated uses caused by insufficient data declined by 22% to only 23% AUs with insufficient data, the number of AUs with at least one designated use assessed rose to 97% statewide, and the number of AUs where all of the designated uses are assessed rose over 30% to 55% statewide[8].

[7] Borja A., Mader J., Muxika, I. 2012. Instructions for the use of the AMBI index software (Version 5.0). Revista de Investigacion Marina, AZTI-Tecnalia 19:71-82.

[8] Does not include fish consumption designated use where 64% have insufficient data. The increase of new sampling has not included fish tissue monitoring that has remained relatively stable and does not include large areas of the state. The Department recognizes this data gap and has implemented actions to reduce the number of unassessed sub-watersheds.

For the 2006 Integrated Report, approximately 300,000 data samples were used in the assessment process. Since that time, the number of samples used in the assessment process has exploded exponentially wherein the 2016 Integrated Report downloaded over 3.2 million discrete data points and 1.8 million continuous data points. This data-rich environment has allowed the Department to increase the number of watersheds assessed and improve the validity of the assessments resulting in thorough, sound, high confidence assessment. In order to manage, review, process, and quality control such a large set of data and data results, it was required to automate the assessment processes by incorporating advanced technology and programming languages. It was determined the best solution to handle these datasets was using the R statistical language to manage the data, automate the assessment process, and generate tables, maps, and graphs to present the results. The R language is an advanced, open source statistical language that is free to all users, cross-platform compatible, flexible, easy to learn, comprehensive, produces outstanding graphics and has a vast community of users and programmers, who share their programs. Although since 2006, the Integrated Report assessment process used Microsoft Access that included automated assessment processes, the new R program is expected to achieve a 70% reduction in time to perform the data management, assessment, and graphics processes. The 2016 Integrated Report was the first year using the R program and required extensive programming and quality control, therefore time efficiencies will be realized in future Integrated Reports.

Statewide assessment results for each of New Jersey's designated uses are discussed in the rest of this section, along with the assessment results for key parameters associated with each of the designated uses: General Aquatic Life, Trout Aquatic Life, Recreation, Public Water Supply, Shellfish Harvest for Consumption, and Fish Consumption.

General Aquatic Life Use: All waters of the State (958 AUs) are designated for the general aquatic life use. Seventeen percent (17%) of AUs fully support the use, 64% do not support the use, and 19% are not assessed due to insufficient information (see Figures 2.4A and 2.4B).

Figure 2.4A: Assessment Results for General Aquatic Life Use, Spatial Extent

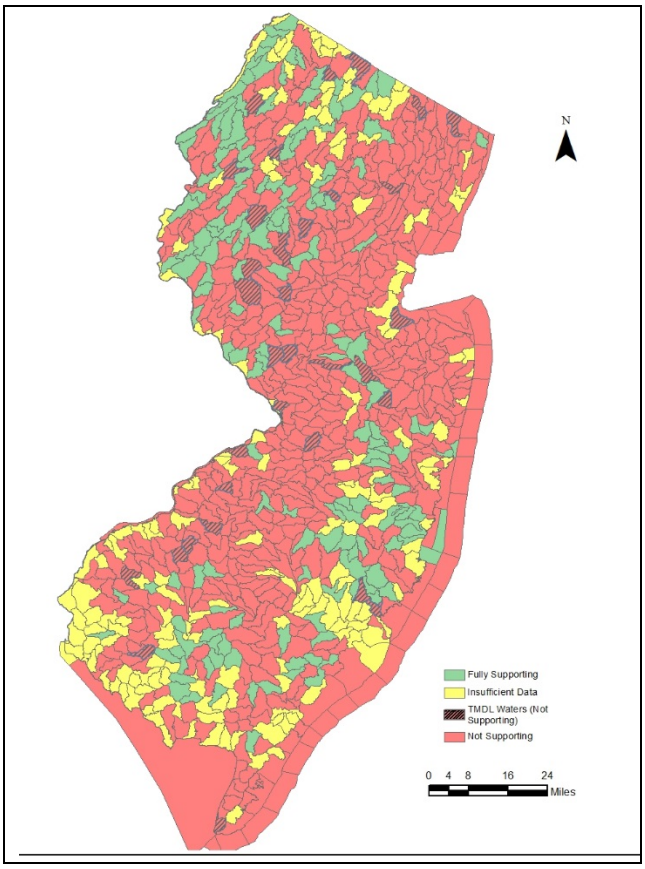
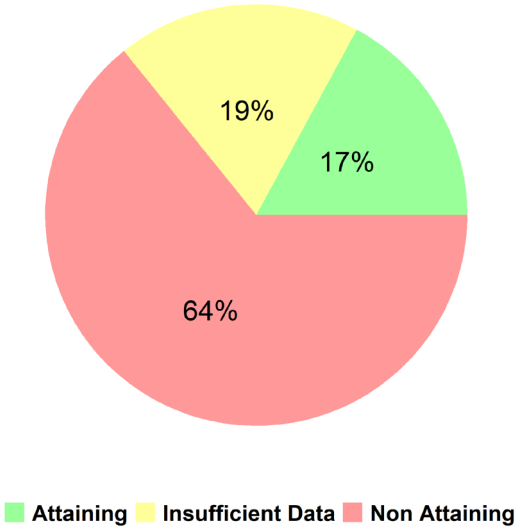


Figure 2.4B: Assessment Results for General Aquatic Life Use, Percent (%)

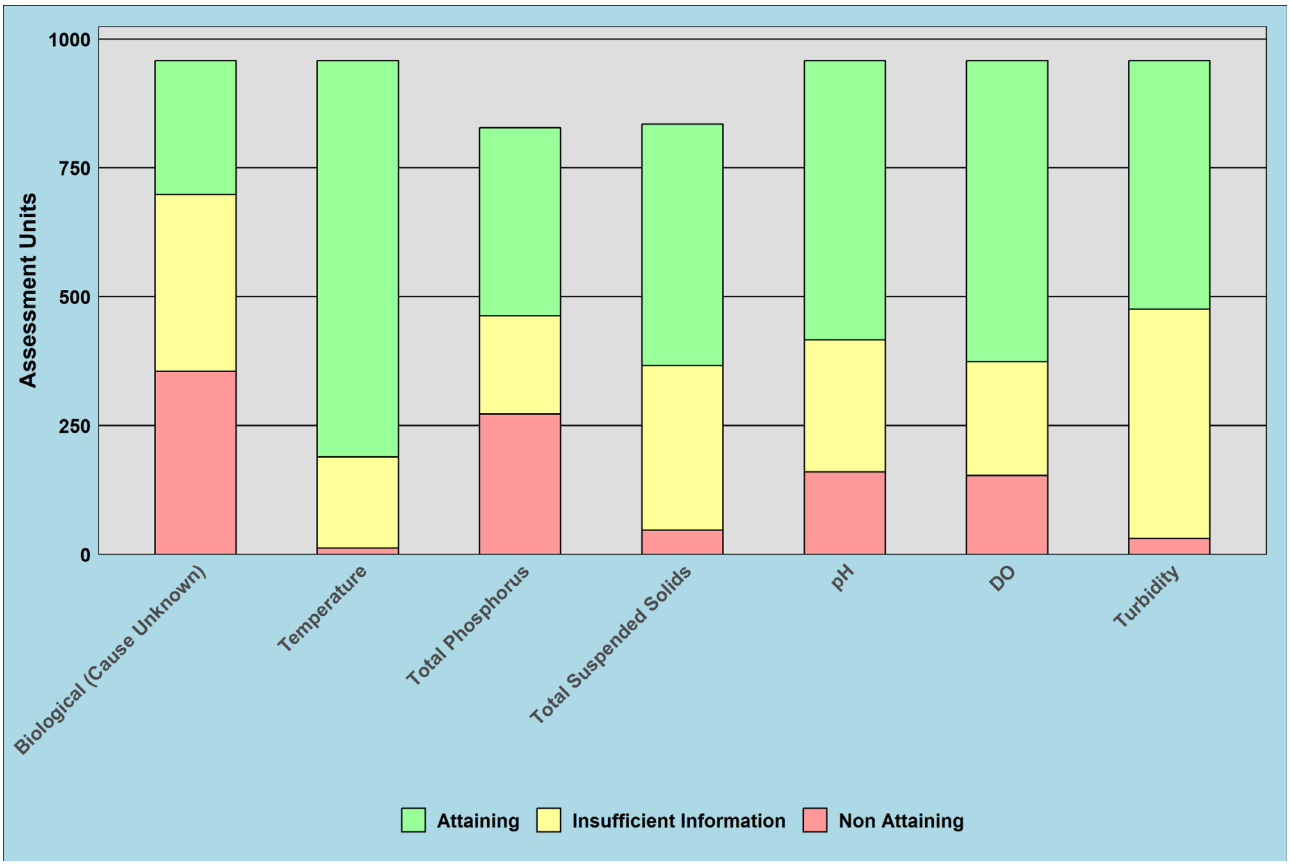


Total number of applicable AUs = 958

The general aquatic life use is assessed based on a suite of key parameters. Five of these key parameters: TP, dissolved oxygen (DO), pH, temperature, and biological-cause unknown, are among the top ten causes of water quality impairment statewide, as shown in Figure 2.1. Nutrient enrichment from point sources (e.g., sewage treatment plants), land use practices (e.g., application of fertilizer), and land disturbance (e.g., loss of riparian buffers and increase in impervious surface), are common sources of these impairments. Biological impairments have been identified as the most frequent reason for aquatic life use impairments. Although causes are unknown for the biological degradations, the Department is developing strategies that will address these impairments and implement the most effective restoration actions. TP has been identified as the most frequent chemical parameter causing impairments and has been a focus for TMDL development, with 131 TMDLs completed by the Department to date. DO and pH-caused impairment are often associated with nutrient over-enrichment that will respond to restoration efforts aimed at controlling nutrients. It is noteworthy that, in the course of developing TP TMDLs, the Department found that a number of AUs considered to

be impaired by temperature might actually reflect natural conditions. A more in-depth analysis of these impaired AUs is underway to determine if temperature reflects natural conditions or actual use impairment. The charts below reflect the relative assessment status of biological and chemical parameters associated with the general aquatic life use.

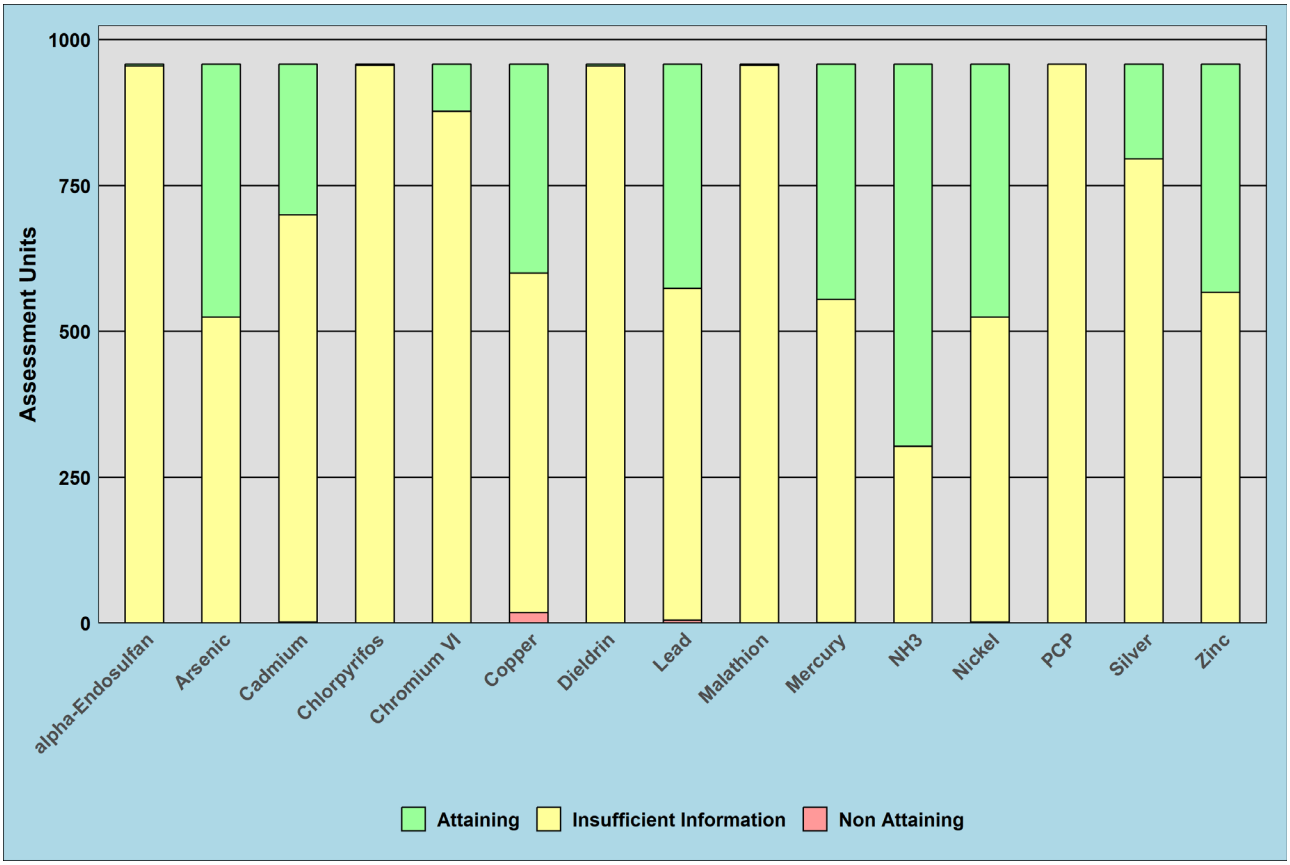
Figure 2.5: Assessment Results for Key Associated with General Aquatic Life Use, of 958 AUs[9]



Metals and toxins were not a significant cause of aquatic life use impairment statewide. At only 2%, copper had the highest number of exceedances of aquatic life criteria for metals, with all other metals and toxins falling below 1% or fully supporting.

[9] While the aquatic life use applies to all 958 AUs, some AUs contain waters without corresponding criteria for each pollutant associated with that use. For example, there are no numeric criteria for TP in saline waters. Therefore, TP can only be assessed in AUs that contain freshwaters. The percentages shown are based on the total number of applicable AUs for each pollutant associated with the general aquatic life use.

Figure 2.6: Assessment Results for Metal and Toxin Parameters Associated with General Aquatic Life Use of 958 AUs



Trout Aquatic Life Use: The trout aquatic life use only applies to 199 of New Jersey's 958 AUs since this use is reserved for waters classified as trout maintenance or trout production. Fourteen percent of these AUs fully support the use, 59% do not support the use, and 27% are not assessed due to insufficient information (see Figures 2.7A and B). The critical parameters for assessing this use are temperature, dissolved oxygen and biological data.

Figure 2.7A: Assessment Results for Trout Aquatic Life Use, Spatial Extent

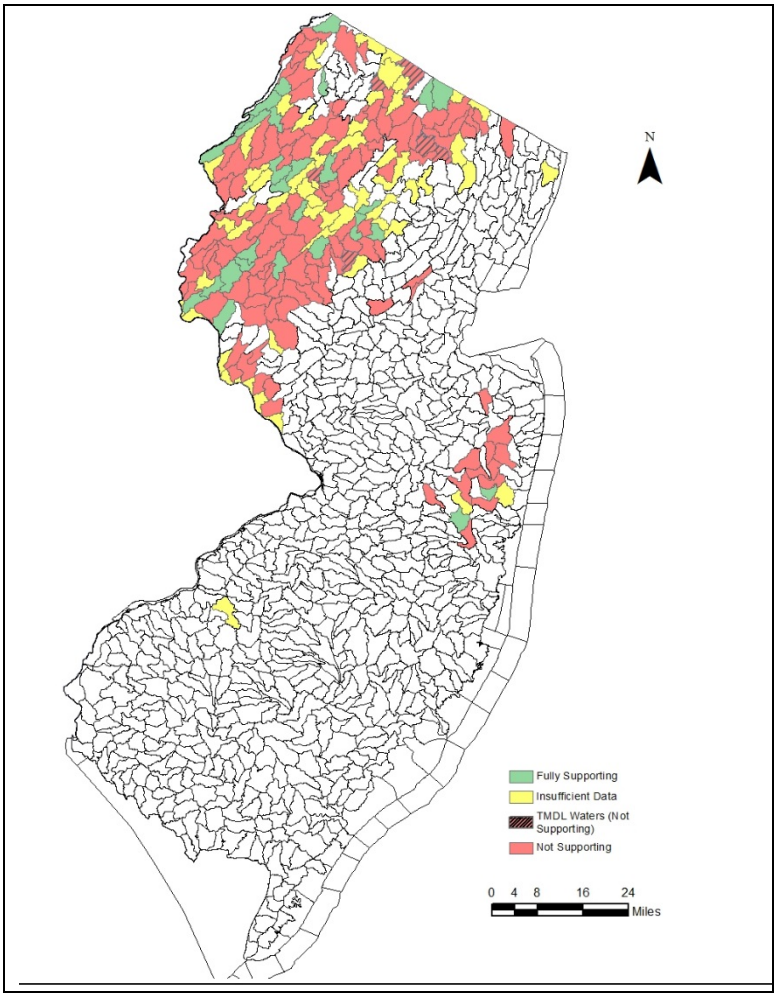
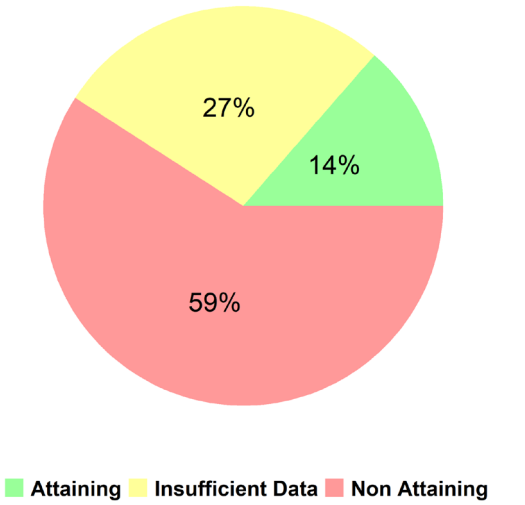


Figure 2.7B: Assessment Results for Trout Aquatic Life Use, Percent (%)



Total number of applicable AUs = 199

The predominant cause of trout aquatic life use impairment is temperature, which accounts for 67% of the AUs assessed as not supporting the trout aquatic life use. Criteria for temperature are more stringent in trout production and trout maintenance waters than in other waters of the state because of the sensitivity of the target species. Other causes for trout aquatic life use include biological impairments, TP, and pH shown in Figure 2.8. All data for metals and toxins are fully supporting the trout aquatic life use (see Fig 2.8 and 2.8B).

Figure 2.8: Assessment Results for Key Parameters Associated with Trout Aquatic Life Use, Percent (%) of 200 AUs

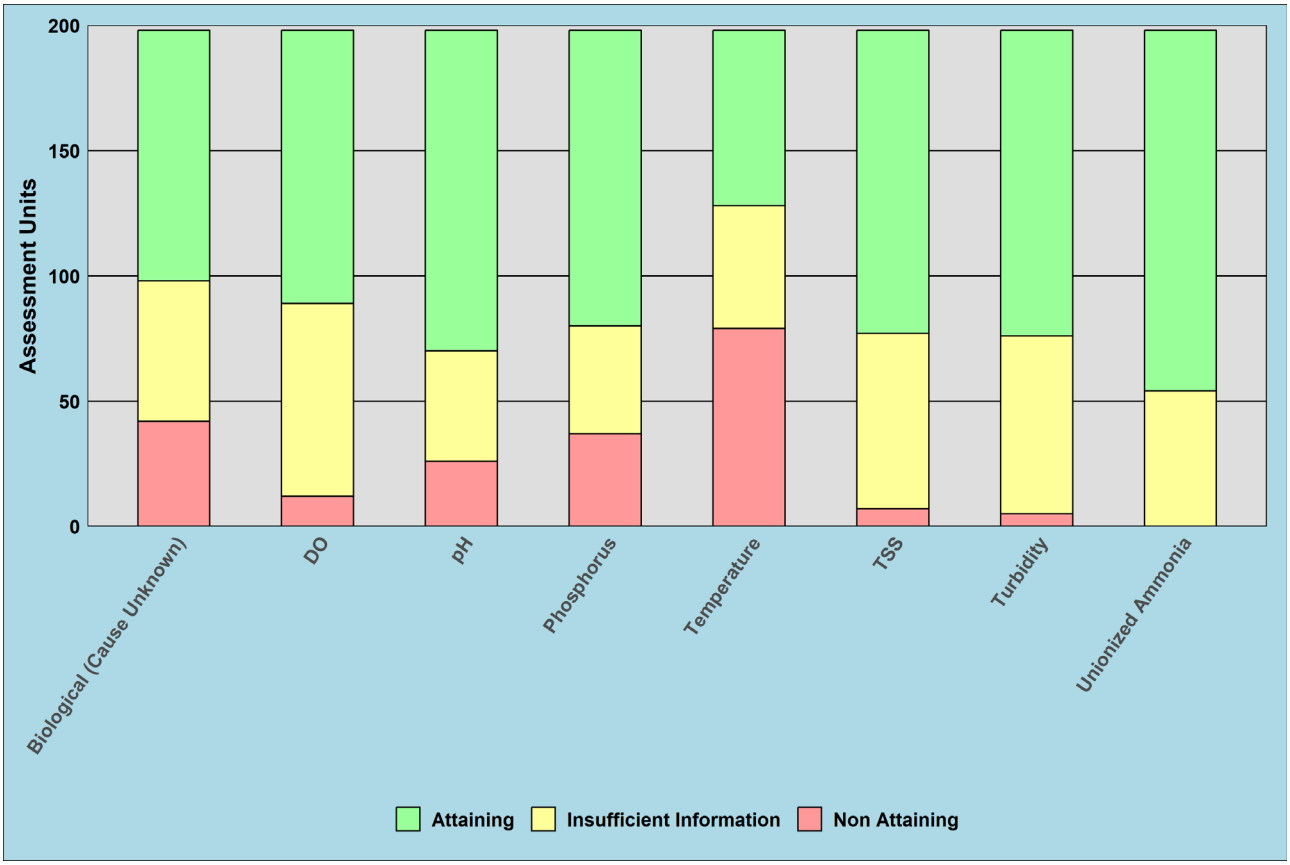
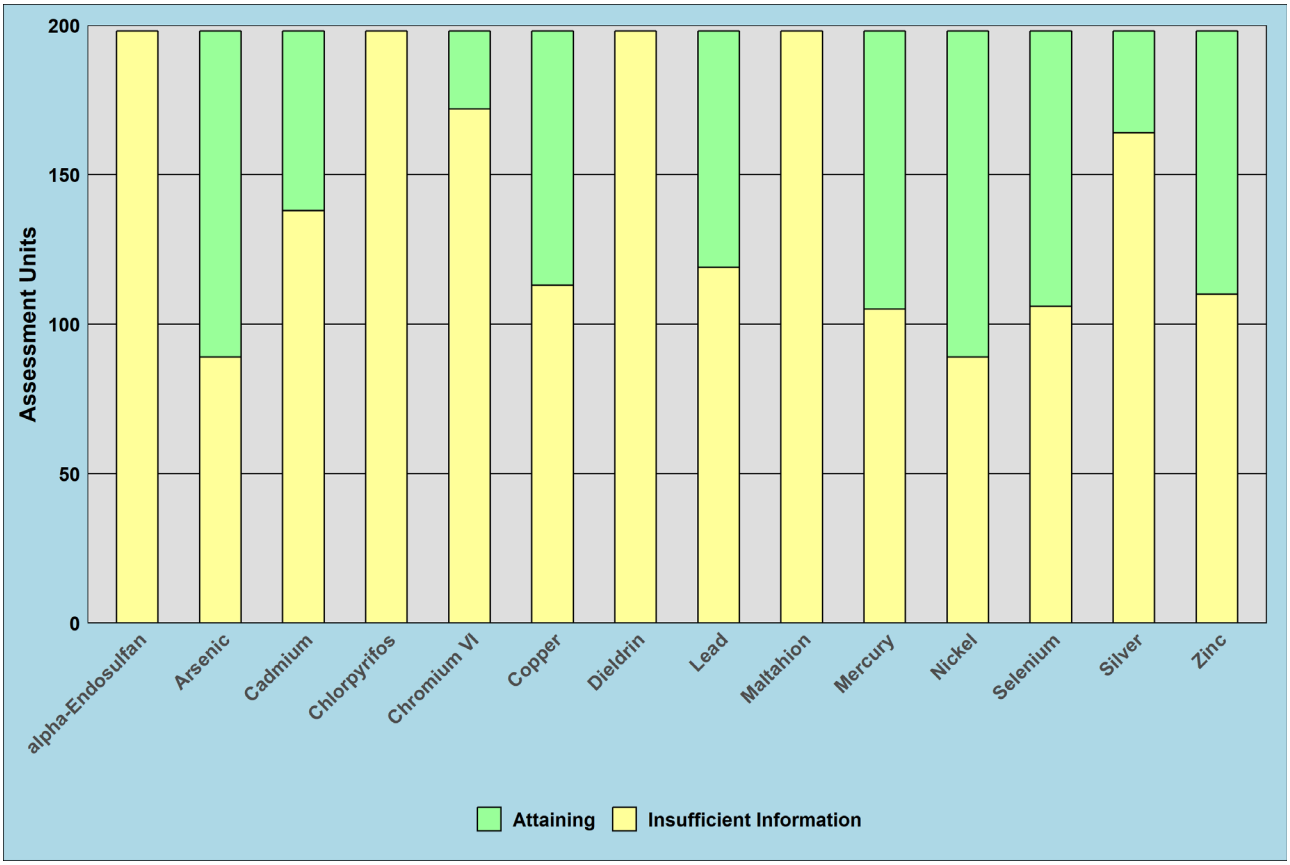


Figure 2.8B: Assessment Results for Metal and Toxin Parameters Associated with Trout Aquatic Life Use, Percent (%) of 200 AUs



Recreation Use: All waters of the State (958 AUs) are designated for recreational uses. Twenty-four percent fully support the use, 43% do not support the use, and 33% are not assessed due to insufficient information (see Figures 2.9A and B). Assessment of ocean beaches, where most bathing occurs, shows that these waters are fully swimmable from Sandy Hook to Cape May Point.

Figure 2.9A: Assessment Results for Recreation Use, Spatial Extent

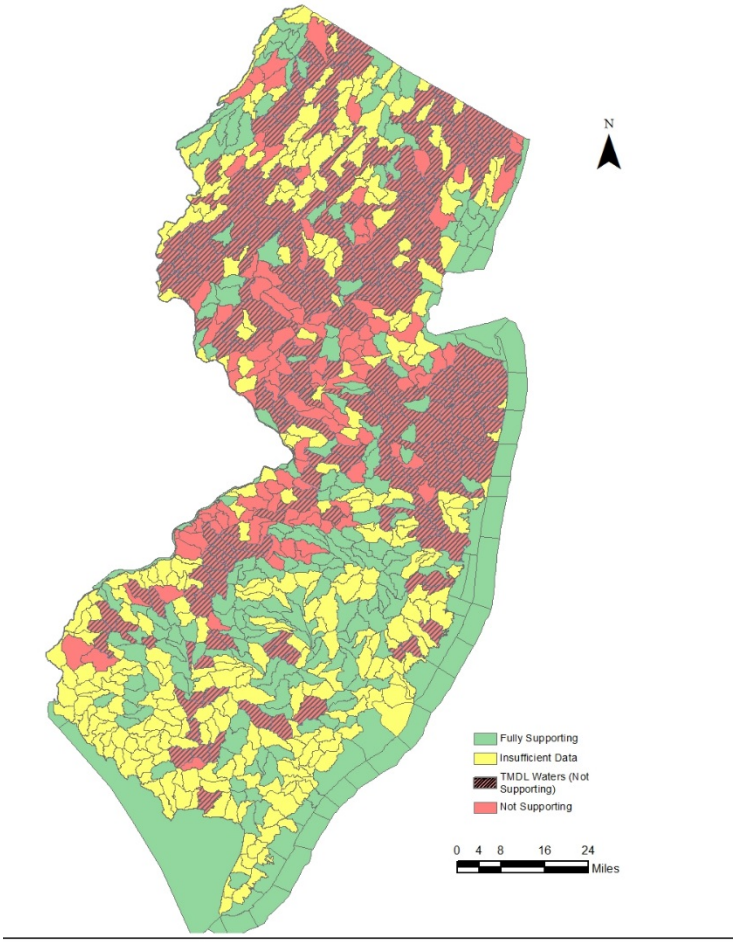
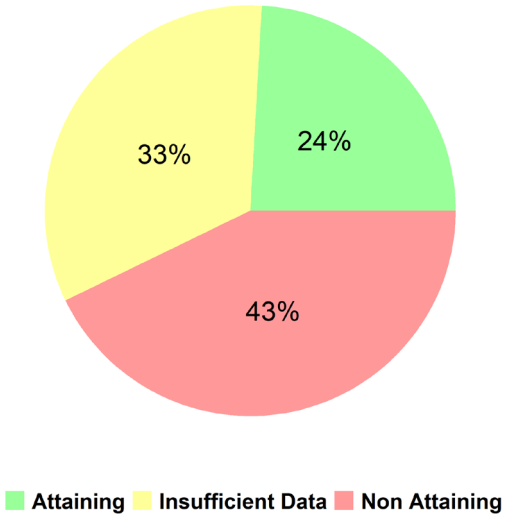


Figure 2.9B: Assessment Results for Recreation Use, Percent (%)



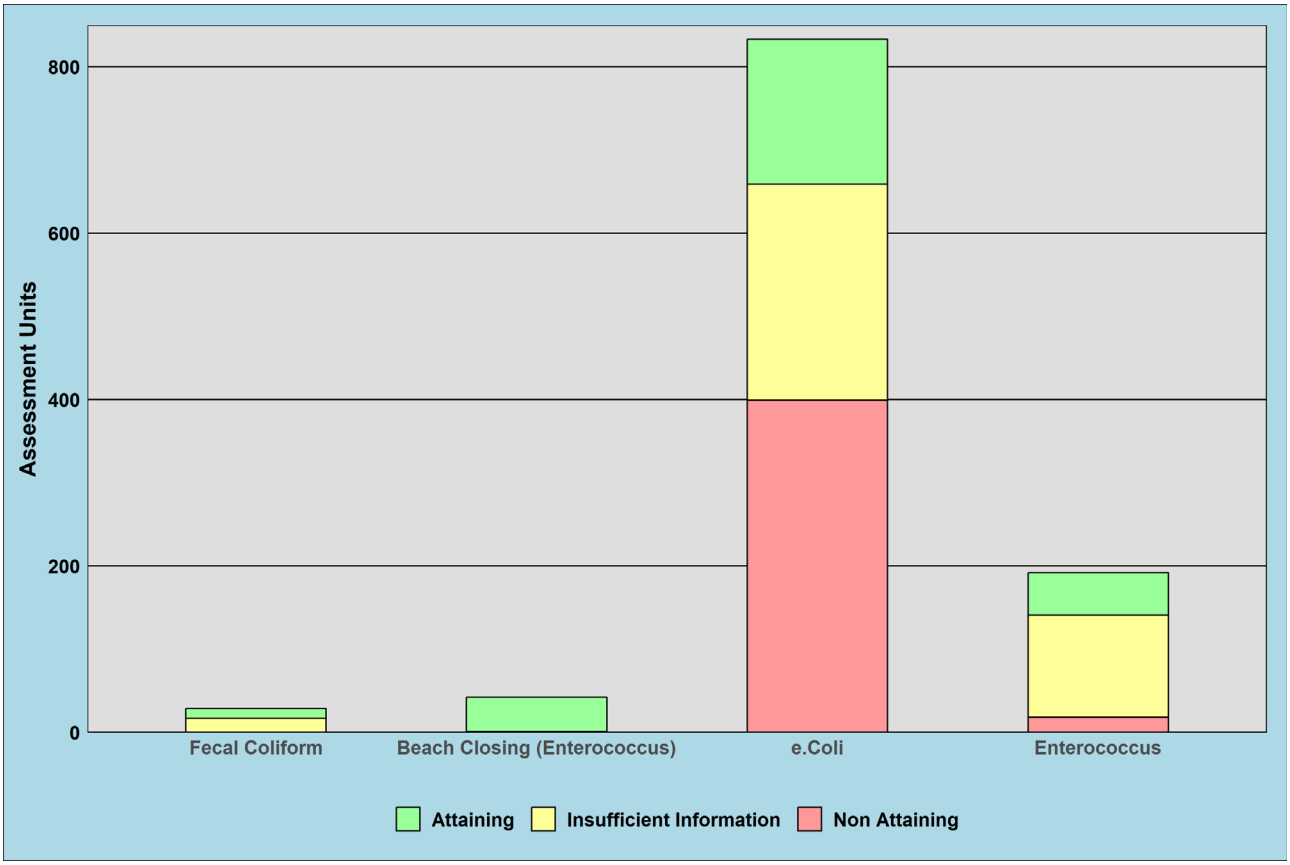
Total number of applicable AUs = 958

The recreation use is assessed based on the presence of pathogenic bacteria indicators (*E. coli* and Enterococcus).[10] New Jersey's coastal waters and estuaries demonstrated more consistent support for recreation than freshwaters (streams, rivers, and lakes). Freshwaters represent over 80% of recreational use impairment. Figure 2.10 shows a much higher percentage of impaired AUs caused by *E. coli* (97%), the freshwater pathogen indicator, than AUs caused by Enterococcus (3%), the saline water pathogen indicator. All ocean beaches are fully supporting recreational use with only

[10] Prior assessments were based on fecal coliform; however, this parameter was replaced with *E. coli* and *Enterococcus* based on USEPA guidance. Prior listings for fecal coliform are carried over to the 303(d) List if newer pathogen data is not available.

one back bay beach in Toms River Estuary impaired based on beach closure data. TMDLs have been completed for most (73%) of the waters that do not support recreational uses because of pathogens.

Figure 2.10: Assessment Results for Key Parameters Associated with Recreation Use, Percent (%) of AUs



Public Water Supply: All New Jersey freshwater streams and lakes, located in 817 AUs, are designated as potential potable water supplies. The water supply use has the highest percentage of use support (38%) of all designated uses statewide; however, 43% also do not support the use and 19% are not assessed due to insufficient information (see Figures 2.11A and B). Most of the waters that do not support the public water supply use do not contain potable water intakes and are not currently used for drinking water purposes.

Figure 2.11A: Assessment Results for Public Water Supply Use, Spatial Extent

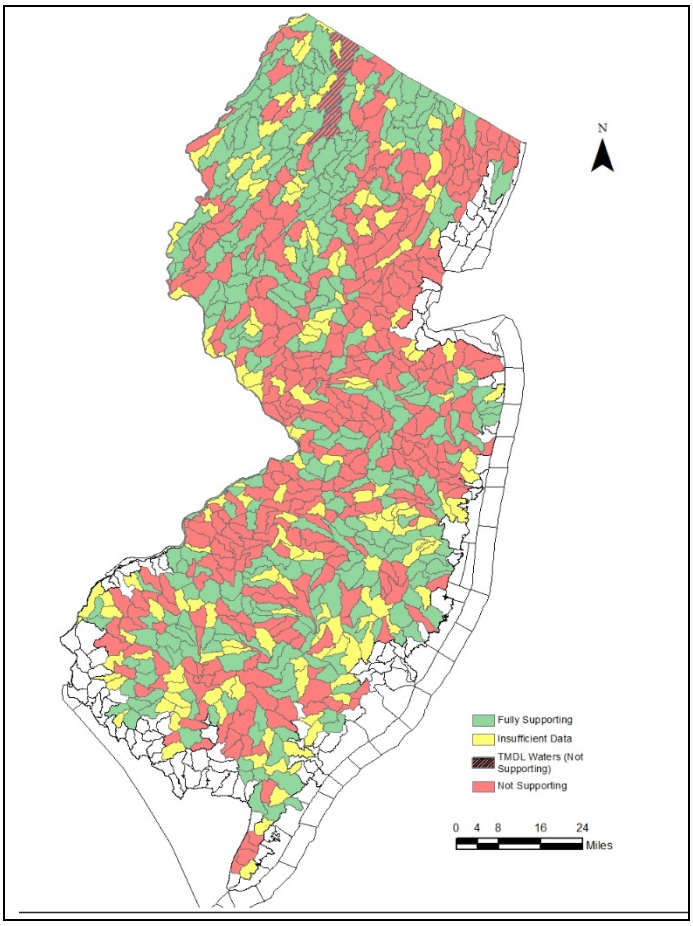
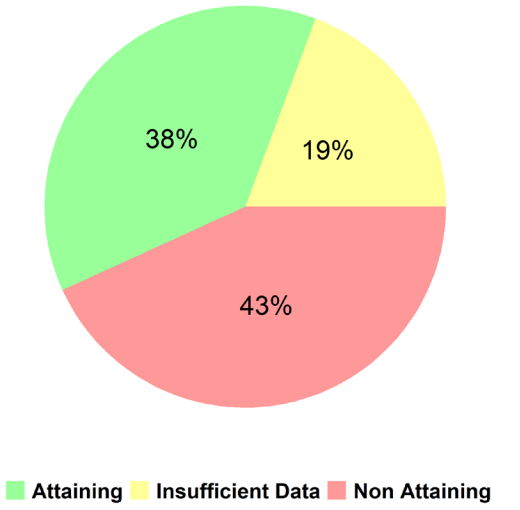


Figure 2.11B: Assessment Results for Public Water Supply Use, Percent (%)

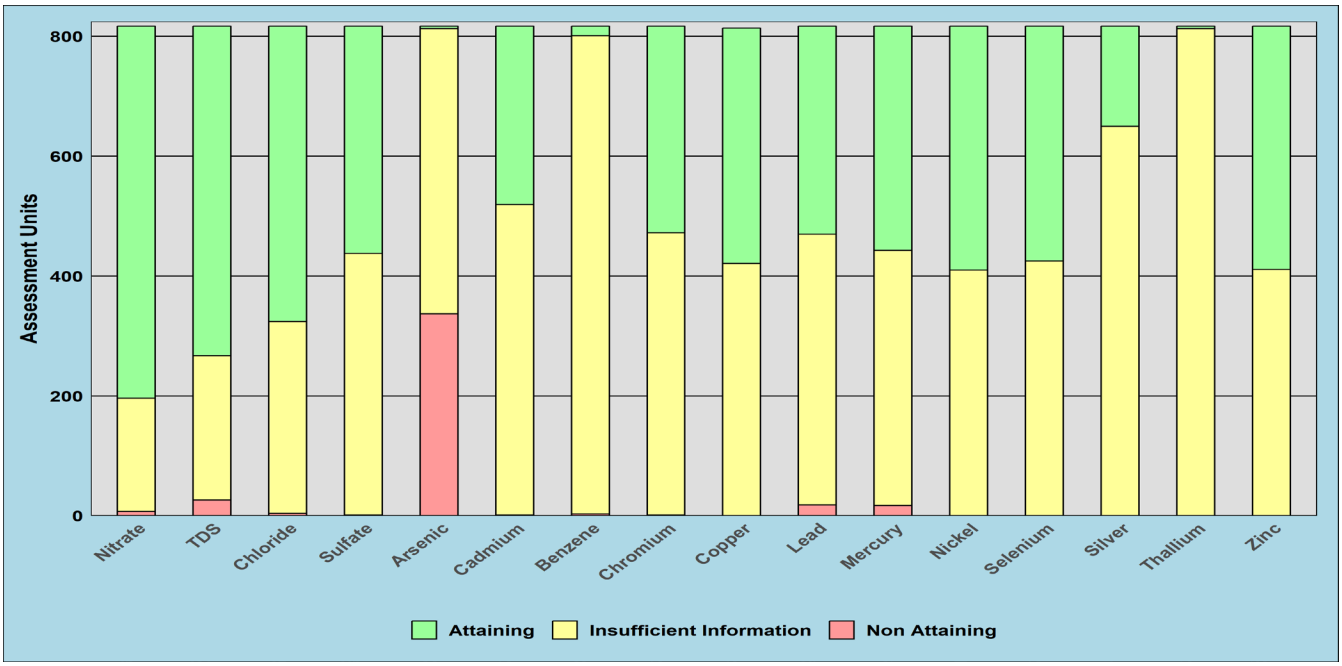


Total number of applicable AUs = 817

The critical parameter for assessing this use is nitrate; however, the water supply use is assessed as impaired ("not supporting") if any parameter exceeds the applicable human health criterion. Arsenic is the predominant cause of water supply use impairment with 95% of the impaired AUs impacted by arsenic (see Figure 2.12). The frequency of arsenic impairment has increased over time due to improved laboratory detection of arsenic at levels approaching the SWQS human health criterion for arsenic of 0.017 micrograms per liter (ug/L). This human health criterion is much more stringent (by more than an order of magnitude) than the New Jersey maximum contaminant level (MCL) of 5 ug/L established in the Safe Drinking Water Act rules at N.J.A.C. 7:10-5.2 (see

http://www.nj.gov/dep/rules/rules/njac7_10.pdf). Although the same health risk factors are used to develop the MCL and SWQS human health criteria, the Safe Drinking Water Act takes into consideration additional factors such as the feasibility of treatment, cost, and analytical capabilities to set the MCLs for all treatment facilities. Surface water quality criteria are based solely on data and scientific research on pollutants and their environmental and human health effects, they do not consider economic or social impacts. The result is 41% of the AUs are not supporting based on the SWQS human health criteria, but only a few waterbodies (Maurice River, North Branch Metedeconk River, and Sharps Run) have arsenic concentrations above the drinking water MCL. Additionally, a significant number of waterbodies located in the Coastal Plain (southeastern New Jersey) exceed the human health criteria for arsenic but at concentrations that are equal to or less than the naturally-occurring concentrations of arsenic for that geologic formation.[11] Even though these are natural conditions, EPA policies on carcinogens requires these waters to be listed as impaired. Other causes of water supply use impairment include total dissolved solids (TDS), lead, mercury in the water column, and nitrate, but at very low percentages statewide (3% or less).

Figure 2.12: Assessment Results for Key Parameters Associated with Water Supply Use, Percent (%) of 826 AUs



[11] Studies conducted by USGS have found that the natural levels of arsenic range from 0.24-0.61 ug/l in the Outer Coastal Plain, and 0.36-0.70 ug/l in the Inner Coastal Plain. Arsenic exceedances that are within these naturally-occurring concentrations will be identified on the 2016 303(d) List as Sublist 5A (arsenic naturally occurring).
Barringer, Julia L. and Reilly, Pamela A. et al, 2013, *Arsenic in New Jersey Coastal Plain Stream, Sediments, and Shallow Groundwater: effects from Different Geologic Sources and Anthropogenic Inputs on Biogeochemical and Physical Mobilization Processes* USGS Scientific Investigations Report 2013-5107. https://pubs.er.usgs.gov/publication/sir20135107
Barringer, J.L., Mumford, A., Young, L.Y., Reilly, P.A., Bonin, J.L., Rosman, R., May 2010, *Pathways for Arsenic from Sediments to Groundwater to Streams: Biogeochemical Processes in the Inner Coastal Plain, New Jersey*, USA Water Research vol. 44, p. 5532-5544. http://www.ncbi.nlm.nih.gov/pubmed/20580401

Shellfish Harvest for Consumption: Waters only capable of being harvested for shellfish are assessed; therefore only 174 of New Jersey's 958 AUs (18%) are assessed for this use. Federal shellfish classification requirements stipulate three categories of harvestable shellfish: "approved" (with no restrictions), "seasonal harvest" (harvestable only parts of the year), and "special restrictions" (additional depuration treatment required). For this report, shellfish waters classified as "approved" are only reflected as fully supporting the designated use. The results show twenty percent of applicable AUs fully supporting the use, 67% not supporting the use[12], and 13% having insufficient information to assess the use (see Figures 2.13A and B).

Figure 2.13A: Assessment Results for Shellfish Use, Spatial Extent

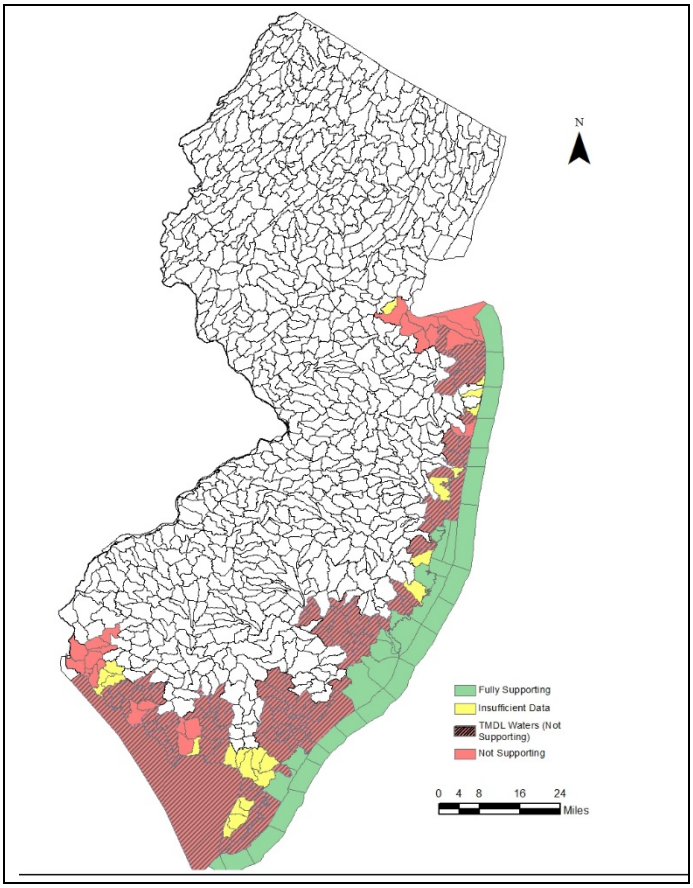
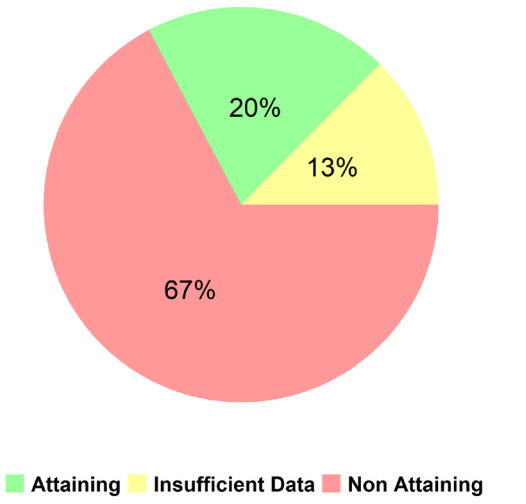


Figure 2.13B: Assessment Results for Shellfish Use, Percent (%)



Total number of applicable AUs = 174

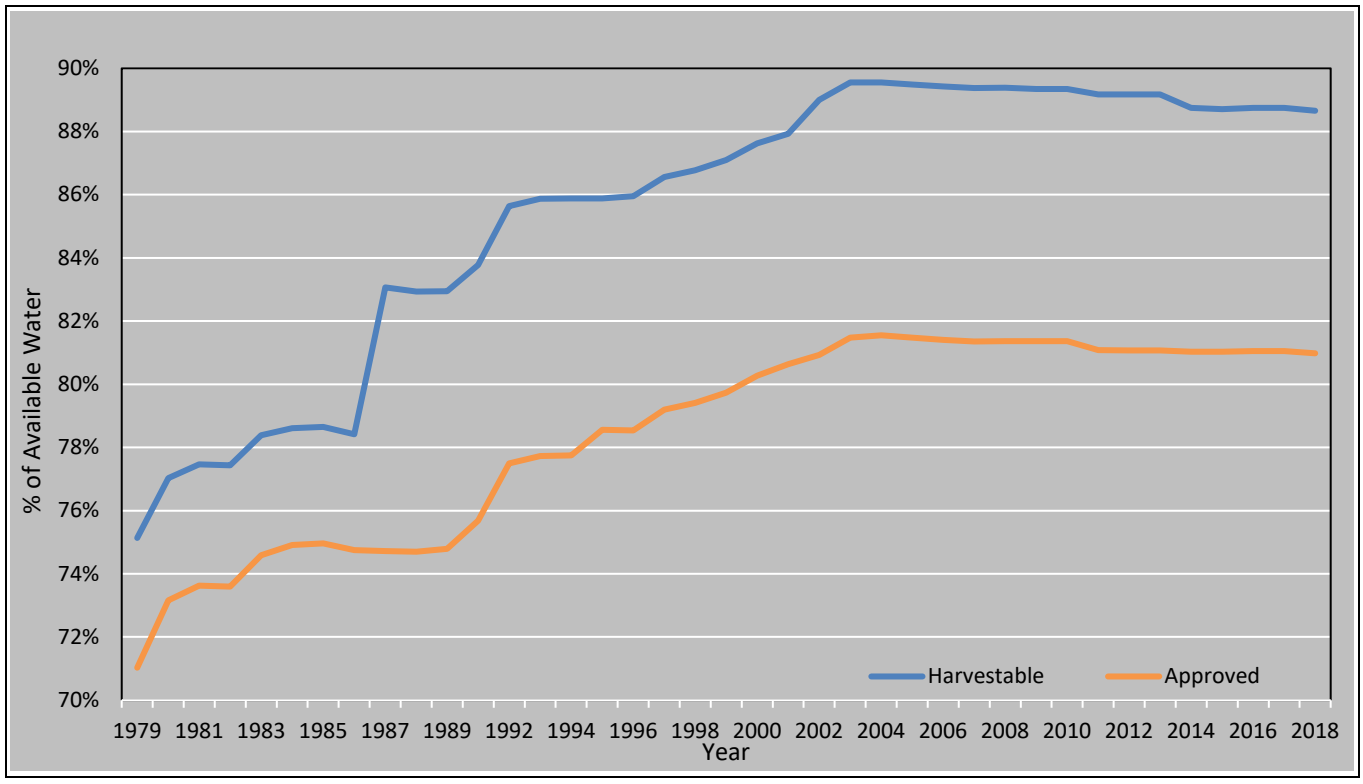
Pathogen TMDLs have been developed for most of the AUs assessed as not supporting the shellfish harvest for consumption use (79%). These TMDL waterbodies are located exclusively in the bays

[12] AUs assessed as not supporting the shellfish harvest for consumption use include shellfish waters classified as harvestable with seasonal restrictions and harvestable with special restrictions (i.e., depuration treatment is required), as well as waters where shellfish harvest is prohibited.

and tidal rivers. Ocean waters are 100% fully supporting shellfish harvesting. Areas in the ocean classified as "prohibited" in harvesting charts are administrative closing with no water quality data exceeding criteria. As explained in the Methods Document, administrative closures of shellfish are established in areas around potential pollution sources, such as sewage treatment plant outfalls, marinas, and outfalls as a preventive measure to avoid the harvest of shellfish that could become contaminated by sewage, boat wastes or stormwater runoff. Where shellfish harvest is prohibited due to an administrative closure, such prohibited areas are not included in the overall shellfish use assessment. Hence any ocean AUs containing administrative prohibited areas are not included in the assessment and the other waters in the AU are assessed which all show "approved" conditions.

As depicted in Figure 2.13A and 2.13B, the percent of applicable AUs assessed as fully supporting differs from the percent of shellfish waters classified as harvestable (Figure 2.14) which includes "approved", "seasonal harvest", and "special restricted" waters. USEPA guidance for the Integrated Report requires that only AUs where shellfish waters are classified as "approved" with no restrictions can be assessed as fully supporting the shellfish harvest for consumption designated use. Since an AU encompasses many shellfish classification areas, the Integrated Report's conservative assessment method determines an AU as impaired if any of the classifications within the AU are "prohibited", "seasonal harvest" or "special restricted." This results in many of the AUs with a large area of approved waters being classified as impaired because of smaller areas with harvest restrictions. More information about shellfish classifications including detailed maps is available on the Department's website at http://www.state.nj.us/dep/wms/bmw/info01.htm.

Figure 2.14: New Jersey Harvestable Shellfish Waters



Fish Consumption: All waters of the State (958 AUs) are designated for the fish consumption use. Six AU (1%) fully support the use, 35% do not support the use, and 64% are not assessed due to insufficient information (see Figures 2.15A and B). The critical parameters for assessing this use are common bioaccumulative toxic pollutants that are used for fish consumption advisories (see Figure 2.15C). The Department uses fish tissue data to identify exceedances of human health criteria and waterbody-specific fish consumption advisories for these pollutants to determine fish consumption uses.[13]

Figure 2.15A: Assessment Results for Fish Consumption Use, Spatial Extent

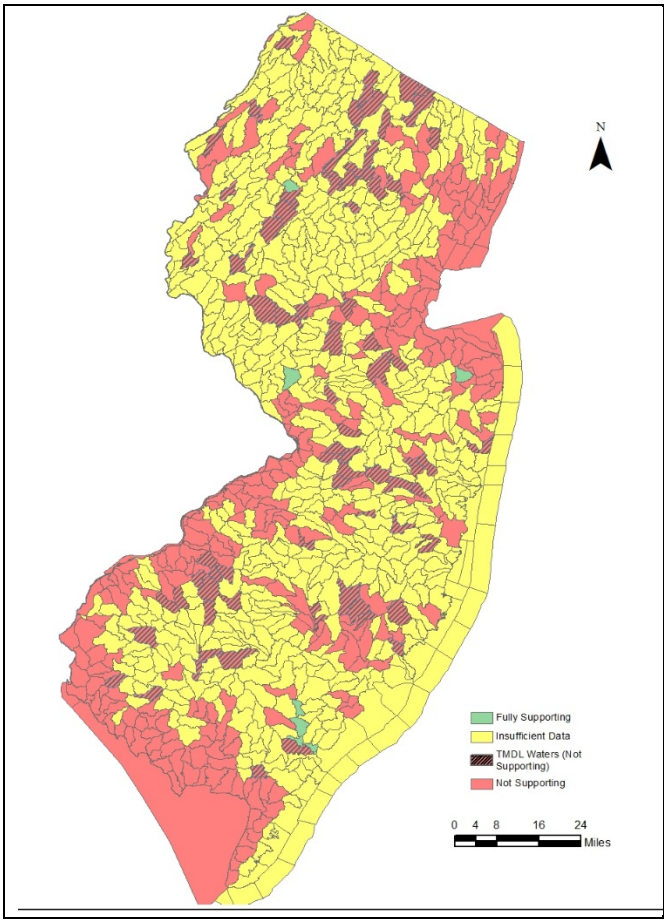
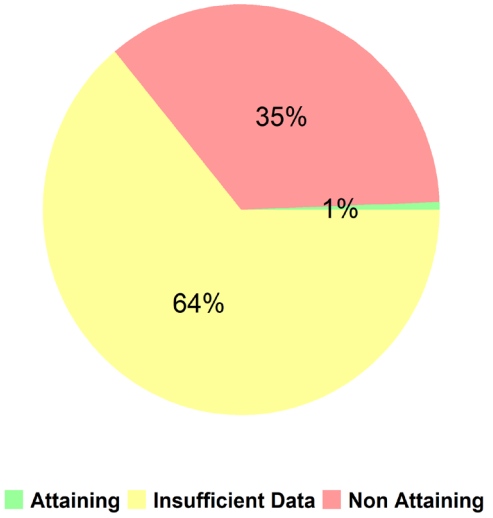


Figure 2.15B: Assessment Results for Fish Consumption Use, Percentage (%)

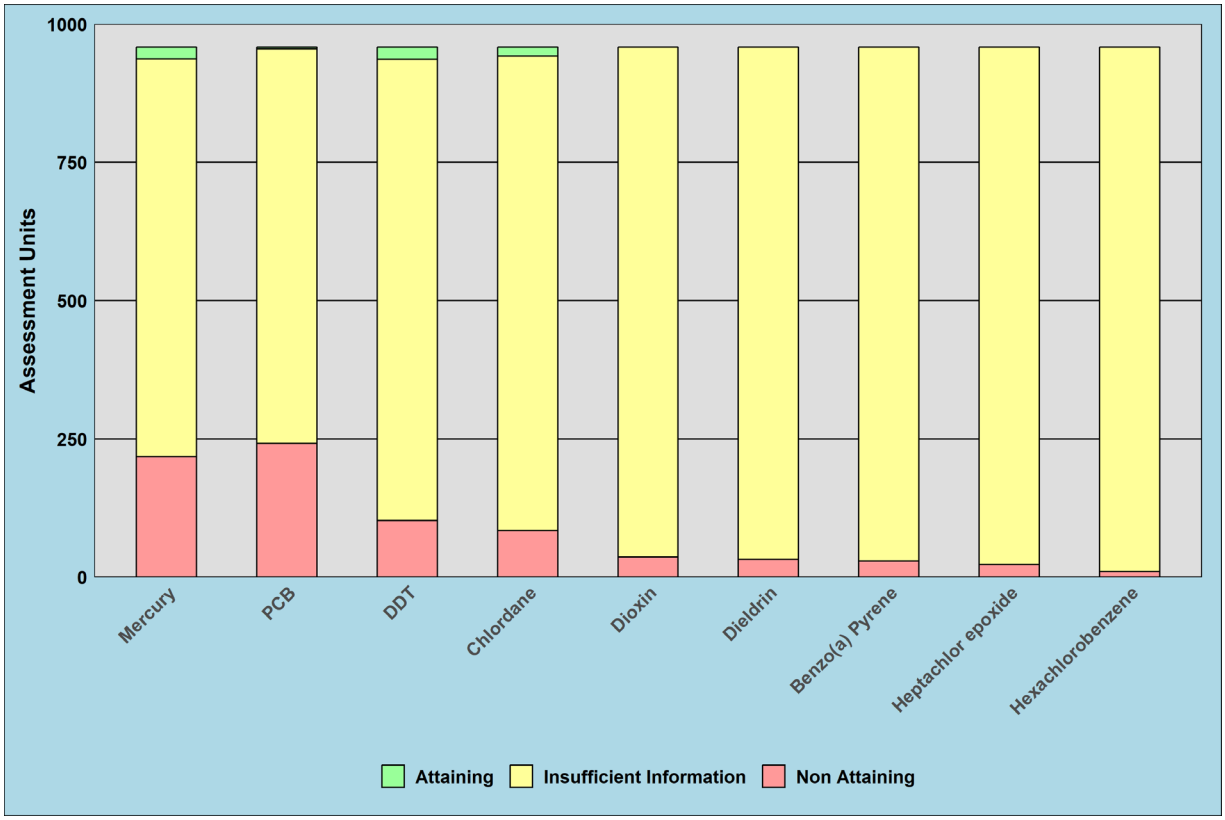


Total number of applicable AUs = 958

[13] Consumption advisories may restrict the amount and/or the type of fish consumed and there may be different advisories for high-risk populations and the general public. The Department issues both statewide and waterbody-specific advisories for the general population and for high-risk groups including infants, children, pregnant or nursing mothers, and women of childbearing age. (See Section 6.3 of the 2014 Methods Document and the Department's Web site at http://www.nj.gov/dep/dsr/njmainfish.htm.)

While there is a relatively small amount of data available, the majority of fish tissue data collected continues to show the impairment of the fish consumption use. The most frequent causes of fish consumption use impairment are also among the top ten causes of water quality impairment statewide: mercury in fish tissue, PCB in fish tissue, and DDT (and its metabolites). PCB and DDT (and its metabolites) are no longer actively manufactured; therefore, the Department considers these to be legacy pollutants for which a TMDL is not an effective means to restore water quality.[14]

Figure 2.15C: Assessment Results for Key Parameters (in Fish Tissue) Associated with Fish Consumption Use, Percent (%) of 958 AUs



2.2 - Changes from Prior Assessment

Section 2.1 summarizes the assessment results of designated uses and their associated pollutants, as well as the most frequent causes of use impairment. This section focuses on significant changes to Sublists 4 and 5 of the Integrated List, which identify causes of use impairment. Sublist 4 identifies causes of use impairment that are already covered under or do not require an approved TMDL. Sublist 5 identifies causes of use impairment that require development of a TMDL (i.e., the 303(d) List).

[14] A new subcategory of the 303(d) List has been created for legacy pollutants (see Chapter 7 of the 2014 Methods Document, Appendix E).

Parameters added to the 2016 303(d) List are considered "new listings". Parameters that were on the 2014 303(d) List but were removed are considered "new delistings". USEPA only allows delistings under certain circumstances. New listings, delistings, and the corresponding reasons, are summarized in Table 2.2A and explained in more detail in Appendix C.

Table 2.2A: 2016 Sublist 5/303(d) New Listings and Delistings

Pollutant	New Listing[1]	Delisting[2]	Reason for Delisting			Net Change
			Attain WQS[3]	TMDL[4]	Other[5]	
Aluminum	2					2
Arsenic	47					47
Benzene	1					1
Benzo(a)pyrene (PAHs)	2					2
Biological-Cause Unknown	228	10	9		1	218
Chlordane in Fish Tissue	7					7
Chloride	4					4
Copper	2	2			2	0
DDT in Fish Tissue	6	2	2			4
Dioxin in Fish Tissue	1					1
Dissolved Oxygen (DO)	14	20	16	1	3	-6
Enterococcus	1	1			1	0
Escherichia coli (*E. coli*)	21	16	1	15		5
Heptachlor epoxide	1					1
Lead	1	2	2			-1
Mercury in Fish Tissue	3	14		12	2	-11
Mercury in Water Column	4	1	1			3
PCB in Fish Tissue	10					10
pH	12	15	12	3		-3
Total Phosphorus (TP)	16	38	3	32	3	-22
Temperature	11	8	5	1	2	3
Tetrachloroethylene	1					1
Total Coliform		1		1		-1
Total Dissolved Solids (TDS)	6					6
Total Suspended Solids (TSS)	2	19	8	8	3	-17
Turbidity	9	5	4		1	4
Vinyl Chloride	1					1
Total	**413**	**154**	**63**	**73**	**18**	**259**

1. New listing to the 303(d) List
2. Total delistings from 303(d) List
3. Delisted based on water quality data showing attainment of applicable water quality standards
4. Delisted from 303(d) List based on an approved TMDL and moved to Sublist 4
5. Delisted based on administrative correction or assessment methods change

Parameters identified as new causes of water quality impairment that are already covered by a TMDL (and were not identified on a previous 303(d) List) are placed on Sublist 4.[15] Causes were removed from Sublist 4 if data showed that water quality standards were attained (moved to Sublist 1 or 2) or there was an assessment error and insufficient information was available to assess water quality (moved to Sublist 3). New causes added to or removed from Sublist 4 are summarized in Table 2.2B.

Table 2.2B: 2016 Sublist 4 New Causes Added or Removed

Pollutant	New Causes Added[1]	Causes Removed[2]	Reason for Removal		Net Change
			Attain WQS[3]	Other[4]	
Dissolved Oxygen (DO)					
Enterococcus	3				3
Escherichia coli (*E. coli*)		2	1	1	-2
Fecal Coliform		1		1	-1
Mercury in Fish Tissue		5	5		-5
Mercury in Water Column	2				2
pH					
Total Phosphorus (TP)	2	2	1	1	0
Temperature					
Total Coliform	1				1
Total Suspended Solids (TSS)					
Total	**8**	**10**	**7**	**3**	-2

1. Cause added directly to Sublist 4 in 2016 because it is covered by an approved TMDL; was not a prior 303(d) Listing
2. Total causes removed from Sublist 4
3. Removed from Sublist 4 based on water quality data showing attainment of applicable water quality standards
4. Removed from Sublist 4 based on administrative correction or assessment methods change

Parameters Delisted or Removed as Causes of Water Quality Impairment

The top five delistings from the 2016 303(d) List are TP, TSS, DO, *E. coli*, and pH. The delistings for DO and pH are predominately based on new data showing attainment of applicable water quality

[15] USEPA does not consider removal from Sublist 4 to be a "delisting", even if it results from attainment of applicable water quality standards, because the cause was removed ("delisted") from a prior 303(d) List when the TMDL was approved.

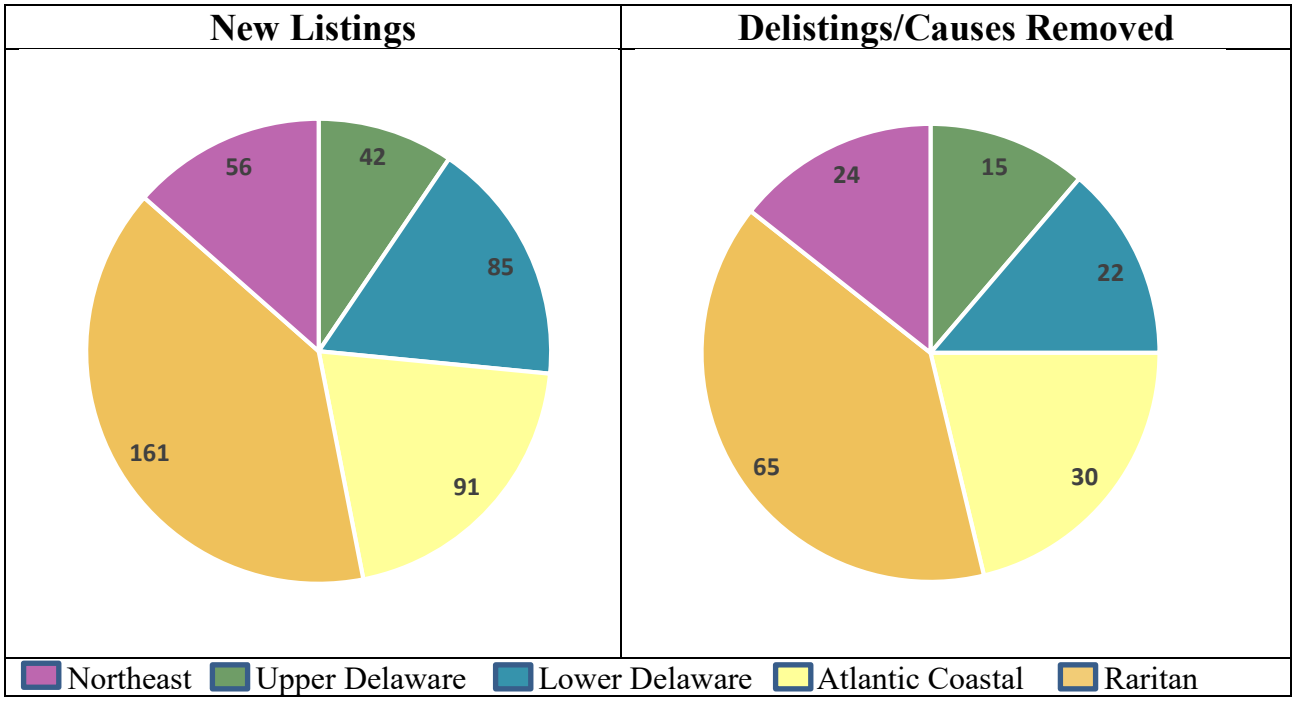
standards, 88% and 79% respectively. *E. coli* and TP delisting are predominately based on approved TMDLs, 94% and 82% respectively, while TSS delisting are based on both new data (45%) and TMDLs (40%). Overall, 39% of delistings are based on attainment of applicable water quality standards and restoration of the designated use to fully supporting, 46% are based on applicable TMDLs, while the remainder are delisted based on administrative correction or assessment methods changes. Causes removed from Sublist 4 include mercury in fish tissue, *E. coli*, and TP. All of the mercury in fish tissue removals were based on data showing attainment of applicable water quality standards, along with 50% for *E. coli* and TP. Overall, 80% of the Sublist 4 removals are based on attainment of applicable water quality standards and restoration of the designated use to fully supporting.

Parameters First Listed or Added as Causes of Water Quality Impairment

The top five causes representing new listings on the 2016 303(d) List are biological impairments, arsenic, *E. coli*, TP and DO. Biological assessments attributed to 55% of the new listings on the 303(d) List, however, these listings were due to administrative changes to the listing methods and do not necessary reflect a significant decline of water quality. A net zero change in *Enterococcus* listings reflects the continued excellent recreational water quality in New Jersey's ocean waters, as well as stable conditions in the bays and estuaries. The new causes added to Sublist 4 are enterococcus, mercury in water column, TP, and total coliform.

Figure 2.16 illustrates changes to Sublists 4 and 5 contributed by each Water Region, based on the number of new listings/causes added and delistings/causes removed. As expected, the comprehensive assessment of the Raritan Water Region generated the highest number of new listings and delistings/removals (see Section 2.3).

Figure 2.16: Changes to Sublists 4 and 5 by Water Region



2.3 - Statewide Long-Term Trends

Much of the water quality data supporting the integrated assessment are collected over a five-year period, which provides a "snapshot" of conditions during that timeframe. Evaluating data over longer periods allows us to identify water quality trends and acute conditions that would otherwise not be apparent.

Several water quality trends, typically over a ten-year time period, are discussed in prior Integrated Reports. With regard to improving the statistical assessment of water quality trends in New Jersey, the USGS recently completed a new robust statistical trend analysis demonstrating water quality trends in the state over a much longer time period than previous trend reports[16]. Nutrient data from 28 physical/chemical monitoring sites distributed throughout the state were analyzed by a Weighted Regressions on Time, Discharge, and Season model (WRDTS) using data over a 30-year time period (1980 to 2011), and by the Seasonal Rank-Sum test comparing data from the 1970s to the 2000s. The WRDTS summarized data into annual values and then examined trends through selected periods; the Seasonal Rank summarized data by decade and then examined trends between any two decades. Nutrients analyzed in both methods included total phosphorus (TP), total nitrogen (TN), and nitrate. Also analyzed were a series of indicators of major ions in the water column: specific conductance (SpCond), chlorides (Cl), and total dissolved solids (TDS), however, analysis for these three constituents were limited to four locations along the Delaware River Drainage.

[16] Hickman, R.E. and R.M. Hirsch. 2017. Trends in the Quality of Water in New Jersey Streams, Water Years 1971-2011. SIR 2016-5176. USGS. Reston, VA.

Using WRDTS, TP and TN showed improving conditions with compelling downward or stable trends throughout the state. TP exhibited downward or no trends at 27 of 28 sites, while TN had 26 of 28 sites with downward or no trends. Trends for nitrate demonstrated stable or downward trends for only 19 of 28 sites, while nine sites had increasing trends. Results employing the Rank Sum method were similar; TP and TN had robust results confirming decreasing and stable trends, while nitrate showed more mixed results with an equal number of increasing and decreasing sites. Trends for the major ion indicators showed chlorides and TDS to be increasing in almost all situations, while specific conductance results indicated either upward trends or no trends at all four sites.

The improvements with TN and TP were expected considering the upgrades to wastewater treatment and the implementation of statewide nonpoint source management efforts over the time period assessed. As stated in the 2014 Integrated report, the late 1980s and 1990s saw a significant upgrade in sanitary treatment quality. In 1980, most sanitary treatment plants in New Jersey were limited to primary treatment, but in 1988 most plants were required to upgrade to secondary treatment. Secondary treatment required additional treatment to remove organic compounds by biological processes. Concurrently, in the mid-1980s many smaller primary plants were taken offline and the sewer systems were regionalized into larger more efficient secondary plants resulting in the removal of the smaller inefficient primary plants from water basins. Additionally, nonpoint source controls began to expand in the late 1990's with the implementation of the Municipal Separate Storm Sewer (MS4) and Nonpoint Source Permitting Programs. These programs continue to be implemented and prioritized to the present.

Although TN demonstrated improving water quality, the oxidized form nitrate showed mixed results. As discussed in earlier Integrated Reports, decreases of ammonia are often accompanied by increases in nitrate as treatment plants oxidize the ammonia to eliminate it. Ammonia is more deleterious to the environment than the more oxidized species of nitrogen through its uptake of oxygen and its toxicity to aquatic life. The results in the trend analysis showed an overall reduction of nitrogen, however, the upgrade to treatment plants and their resulting efforts to reduce ammonia could have led to increases in the oxidized form (nitrate).

Increases in TDS and chlorides have been observed in almost all trend assessments performed to date. TDS, specific conductance, and chloride increases have been associated with runoff from urban, suburban and agricultural areas, especially runoff of salt to control ice on roadways. Winter storm-related data support correlations between road salting and increased TDS levels in the water column.

2.4 - Summary of Statistical Survey Methods and Results (reported online)

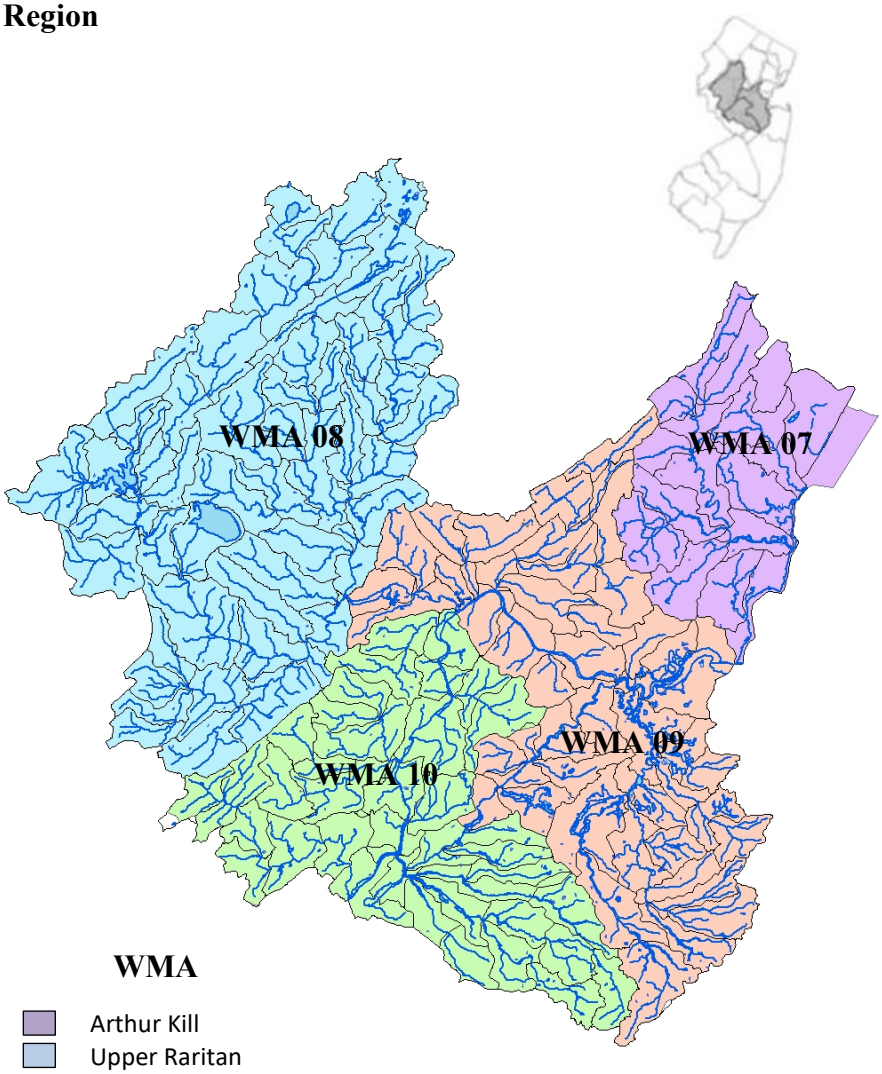
Probabilistic monitoring used to generate statistical estimates of water quality conditions statewide to support USEPA's national aquatic resource surveys are found on the USEPA website https://www.epa.gov/national-aquatic-resource-surveys.

Chapter 3: Raritan Water Region Water Quality

3.1 - General Information

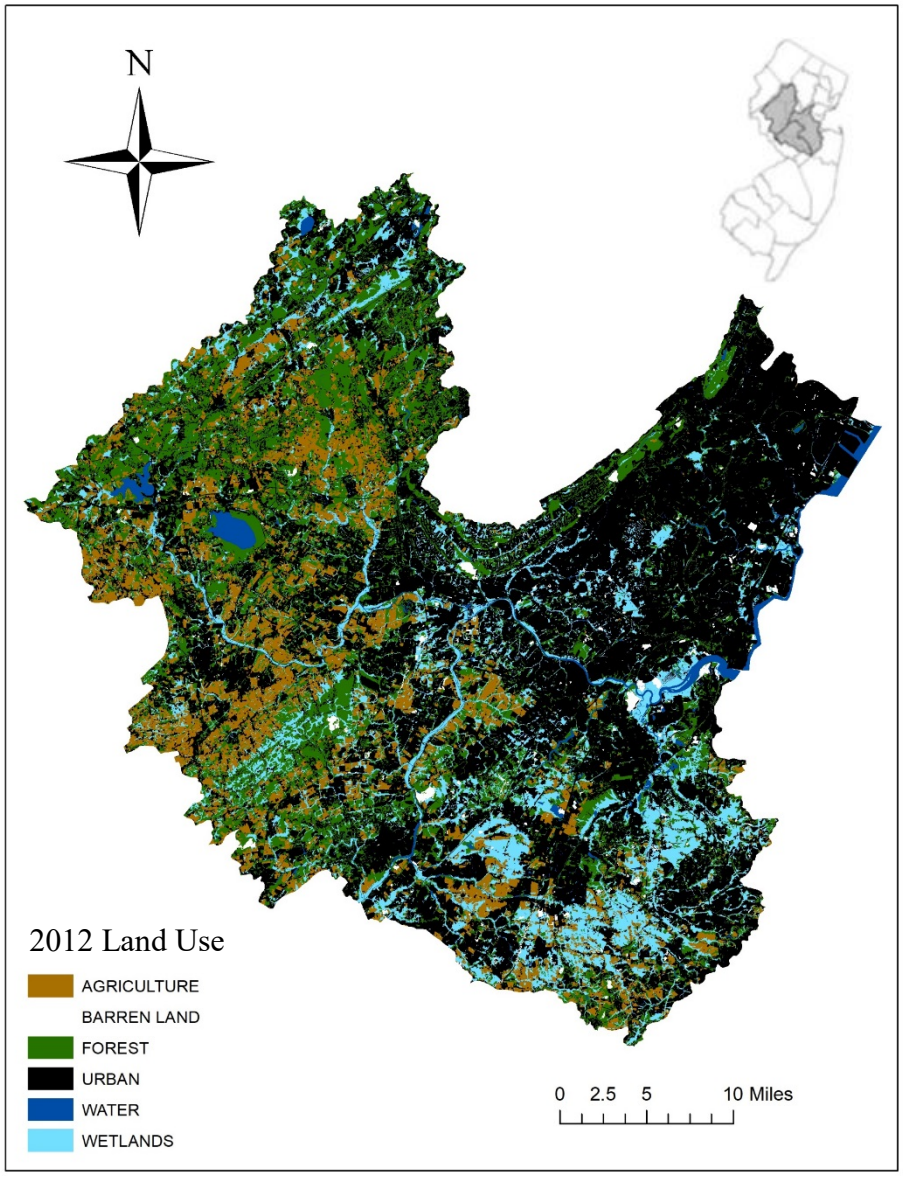
The Raritan Water Region covers a total watershed area of 1,260 square miles divided into 156 AUs and encompasses 122 municipalities consisting of approximately 3 million people. It includes portions of Essex, Hunterdon, Mercer, Middlesex, Morris, Somerset, and Union counties. The region is divided into four watershed management areas (WMAs): the Arthur Kill, Upper Raritan, Lower Raritan, and Millstone (Figure 3.1). The Arthur Kill (WMA 07) includes the Arthur Kill, Elizabeth River, Rahway River, and Woodbridge River. The Upper Raritan (WMA 08), includes the North and South Branches of the Raritan River and major tributaries such as Neshanic Creek, Rockaway Creek, and Lamington River. The Lower Raritan (WMA 09) includes the mainstem of the Raritan River where the North Branch and South Branch join to the mouth of the river where it drains into the Raritan Bay. Major tributaries include Green Brook, Lawrence Brook, South River, Manalapan Brook, Deep Run and Matchaponix Brook. The Millstone (WMA 10) includes the Millstone River and Stony Brook watersheds as well as the Delaware and Raritan Canal.

Figure 3.1: Watershed Management Areas in Raritan Water Region



Land use in the region has changed drastically over the last 50 years and the most current land use analysis in the region in 2012 reveals that 48% is urbanized, 13% is agricultural use, 23% is forested, and 16% is wetlands and waterbodies (see Figure 3.2). Activities and runoff from the various land uses have a significant impact on water quality and are discussed in this section.

Figure 3.2: 2012 Land Use in Raritan Water Region



3.2 - Outreach

Sustainable Raritan River Initiative

Rutgers University launched the Sustainable Raritan River Initiative (SRRI) in 2009 bringing together community leaders, businesses, academia, environmental stewards and government agencies to protect and restore the Raritan River Watershed. The initiative emphasizes science-based policies for sustaining the ecological, economic, and community assets associated with the Raritan. As a key collaborator, Rutgers University provides technical assistance to assist public officials, businesses and non-profit groups in developing policies, programs, and projects to support the protection and restoration of the Raritan. The SRRI addresses major issues of concern including water quality; stormwater management and infrastructure; stewardship; habitat restoration and protection; remediation, rehabilitation and reuse of abandoned and underutilized properties; public access and recreational use of the river; climate resiliency; and sustainable development.

Additionally, the initiative supports outreach and collaborative efforts such as workshops, annual conferences, and community outreach through its website, social medial and newsletters. Stakeholder meetings in November 2016 and February 2017 focused on draft water quality results from the Integrated Report, protection and restoration priorities, and funding for nonpoint source restoration. The SRRI also publishes the "State of the Raritan Report: Volume 1 and Volume 2" at

http://raritan.rutgers.edu/2016-state-of-the-raritan-report/ that provides an overview of conditions in the Raritan River watershed by using key indicators of water quality and watershed health. These documents are intended to provide metrics to inform planning, identify data gaps and research needs, as well as provide the baseline of metrics that can be used to measure progress in the protection and restoration of watershed.

3.3 - Current Water Quality Conditions

For the 2016 Integrated Report, the Raritan Water Region underwent a comprehensive analysis to determine water quality in the region. The comprehensive regional assessment process allows the Department to improve confidence in its assessment decisions by conducting a detailed analysis of environmental conditions in the region using water quality and biological data, hydrography, land use, weather events, and potential pollution sources. These were used to determine water quality at monitoring stations and to confirm station associations with specific AUs to determine the spatial extent each station represents. The comprehensive regional assessment also allows for consideration of results from nearby sampling stations and historical data to confirm current water quality conditions. Restoration activities that are associated with improved water quality are identified as well as potential pollutant sources specifically in impaired waters that had minimal development or point sources. The comprehensive assessment of the Region resulted in an increase in the number of thorough, validated, high confidence assessment decisions regarding ambient water quality conditions. The comprehensive assessment also identified data gaps to guide future water quality sampling, sources of impairment on which to focus restoration activities, and new water quality issues for future investigation.

A summary of the Region use assessment results is provided in Figure 3.3. The water supply use has the highest percentage of use support (31%), followed by the general aquatic life use (18%), recreational use support (12%) and trout aquatic life use (8%). The fish consumption use has the lowest percentage of use support (1%) with shellfish designated use only applying to two AUs in the region. While both Raritan and statewide results showed similar conditions for general aquatic life use, public water supply use, and fish consumption; conditions in the Region were worse for recreational use and trout aquatic life use (see Table 3.1).

Figure 3.3: 2016 Designated Use Assessment Results for the Raritan Water Region (156 AUs)

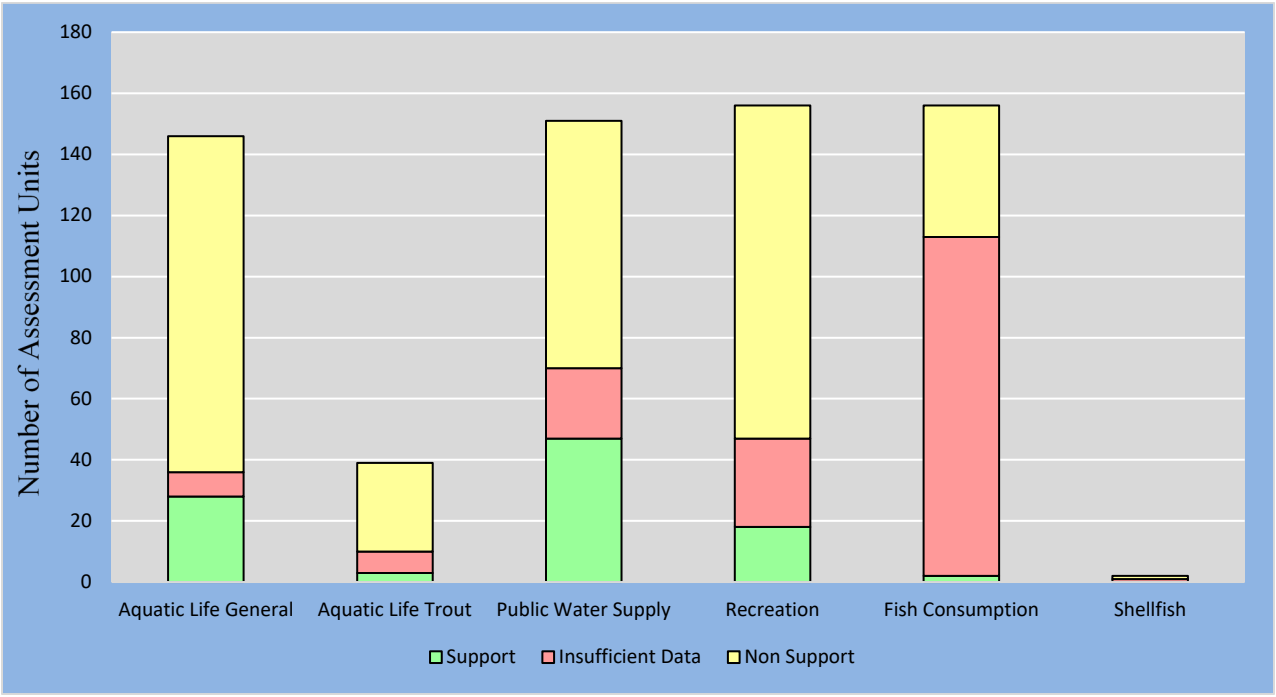


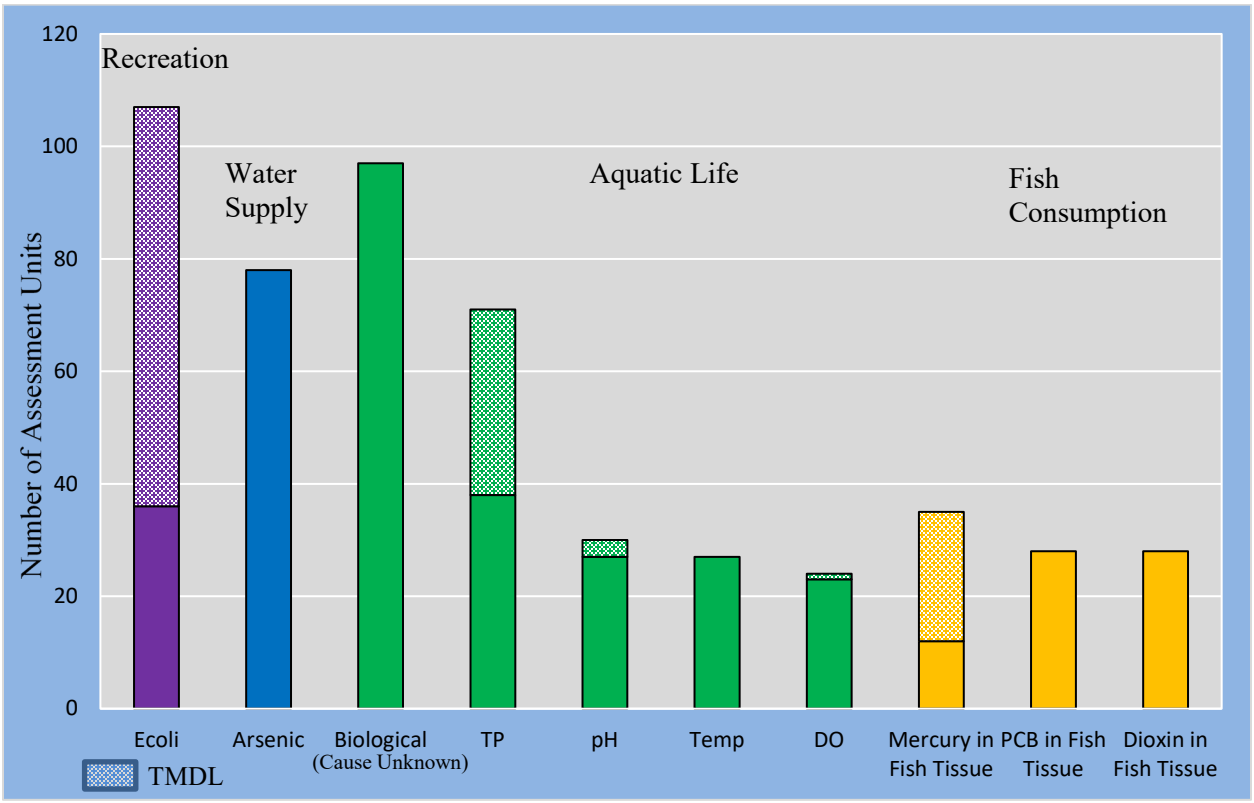
Table 3.1: Use Assessment Results Statewide (SW) vs. Raritan Water Region (Raritan), Number and Percentage (%) of AUs

Designated Use	Aquatic Life - General				Aquatic Life - Trout				Recreation			
Scope	SW		RR		SW		RR		SW		RR	
Fully Supporting	164	17%	28	18%	27	14%	3	8%	232	24%	18	12%
Not Supporting	615	64%	120	77%	117	59%	29	74%	410	43%	109	70%
Insufficient Information	179	19%	8	5%	54	27%	7	18%	316	33%	29	18%
Total AUs Applicable	958		158		198		39		958		248	

Designated Use	Water Supply				Shellfish Harvest				Fish Consumption			
Scope	SW		RR		SW		RR		SW		RR	
Fully Supporting	306	38%	47	31%	35	20%	0	0%	6	1%	2	1%
Not Supporting	353	43%	81	54%	117	67%	1	50%	339	35%	45	29%
Insufficient Information	158	19%	23	15%	22	13%	1	50%	613	64%	111	70%
Total AUs Applicable	817		151		174		2		958		158	

Figure 3.4 shows that *E. coli* is the most frequent cause of water quality impairment in the Region as it is statewide. Most (66%) of these impairments are already covered under an approved TMDL. The most frequent cause of aquatic life use impairments are biological impairments and TP. Arsenic continues to show impairments in the region and is associated with the water supply use. Mercury in fish tissue is the most frequent cause of fish consumption use not being attained with 66% covered by a TMDL.

Figure 3.4: Top Ten Causes of Water Quality Impairment in the Raritan Water Region



Assessment results for each designated use are discussed in more detail below, along with results for key parameters associated with each use.

Public Water Supply Use: The public water supply designated use had the highest percentage of supporting watersheds in the Raritan Water Region with 31% of applicable AUs fully supporting the public water supply use, 54% not supporting the use, and 15% with insufficient information to assess the use (see Figures 3.5A and B).

Figure 3.5A: Raritan Water Region Assessment Results for Public Water Supply Use, Spatial Extent

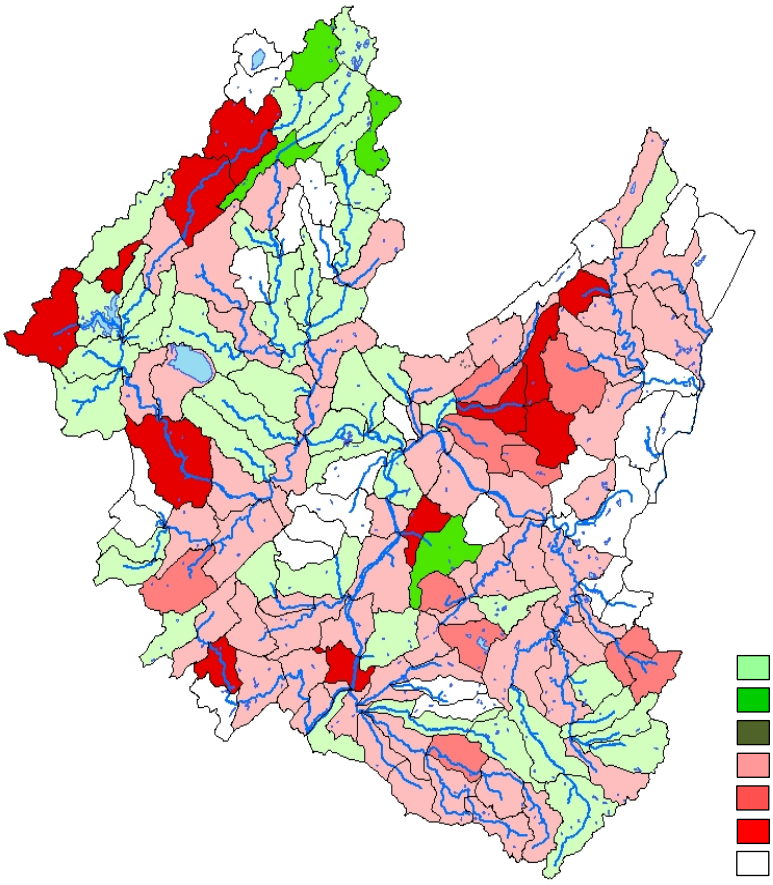
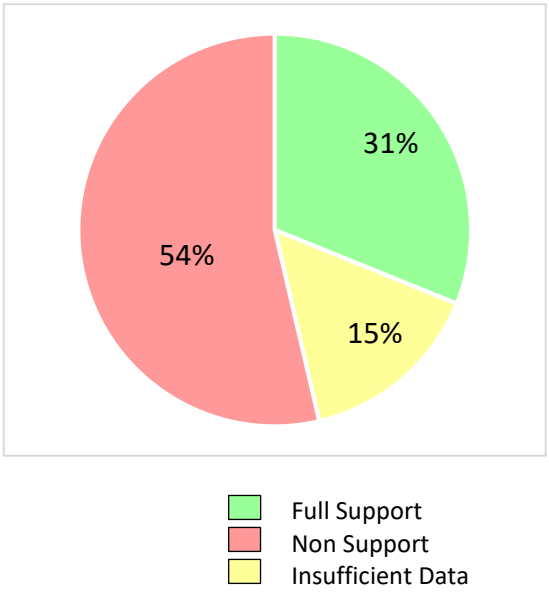


Figure 3.5B: Raritan Water Region Assessment Results for Public Water Supply Use, Percent (%)



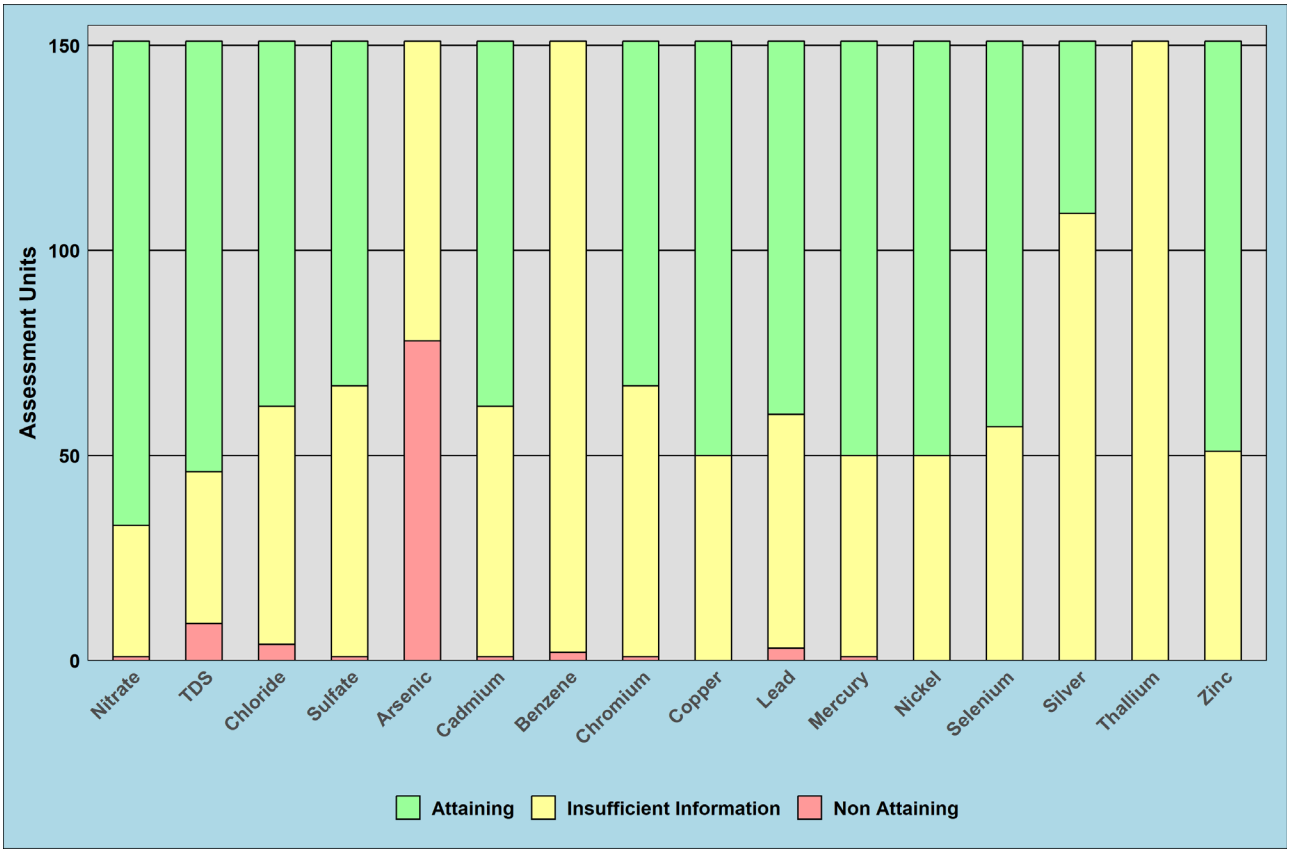
Similar to the rest of the state, the predominant cause of use impairment is arsenic with 96% of impaired AUs exceeding the arsenic human health criteria. [17] The frequency of arsenic impairment has increased over time due to improved detection of arsenic at levels approaching the human health criterion of 0.017 ug/l. This human health criterion is much more stringent (by more than an order of

[17] The Department has determined that if aquatic life and public water supply uses are fully supported, then the agricultural and industrial water supply uses are also fully supported (see Section 6.6 of the 2014 Methods Document). As a result, these uses are no longer separately assessed.

magnitude) than the New Jersey maximum contaminant level (MCL) of 5 ug/L established in the Safe Drinking Water Act rules at N.J.A.C. 7:10-5.2 (see http://www.nj.gov/dep/rules/rules/njac7_10.pdf). Only two waterbodies in the Raritan Water Region (South Branch Raritan River at Budd Lake, Red Root/Crows Mill Tributary of Lower Raritan River in Edison Township) have detected arsenic concentrations above the drinking water standard of 5 ug/L. Neither of these impaired AUs have surface water drinking water intakes.

A small number of AUs exceeded the human health criterion for other pollutants such as chloride and TDS (see Figure 3.6). New sampling detected chloride exceeding its criteria in Ambrose Brook, East Branch Middle Brook, South Branch Rahway River, and Rahway River. Additionally, TDS exceeded its criteria in these AUs as well as in Elizabeth River, Green Brook, and West Brook Rahway River. All of these watersheds are fully built-out with stormwater contributing a significant load during storm events. Metals predominately attained applicable water quality standards except for arsenic. Where data was sufficient to make an assessment, metals achieved 99% attainment. The only recent metal sampling that detected concentrations exceeding human health criteria entailed lead in the Elizabeth River and benzene in the lower Raritan River mainstem. Legacy impairments in the South River for cadmium, chromium, and mercury requires new sampling to determine current water quality. See Table 3.3 for metal trends since 1998.

Figure 3.6: Raritan Water Region Assessment Results for Parameters Associated With the Water Supply Use (151 AUs)



General Aquatic Life Use: The Raritan Water Region has the highest percentage of AUs in the state with biological and chemical data required for aquatic life use analysis with only 5% with insufficient data to make an assessment. Seventeen percent of the Raritan's AUs fully support the general aquatic life use while 77% do not support the use. (see Figures 3.7A and B). The predominant parameter reflecting aquatic life use impairment is biological data whose indices reflect impaired communities in 62% of the AUs in the region. The primary pollutants not supporting aquatic life use include total phosphorus, pH, dissolved oxygen, and TSS. (see Figure 3.8).

Figure 3.7A: Raritan Water Region Assessment Results for General Aquatic Life Use, Spatial Extent

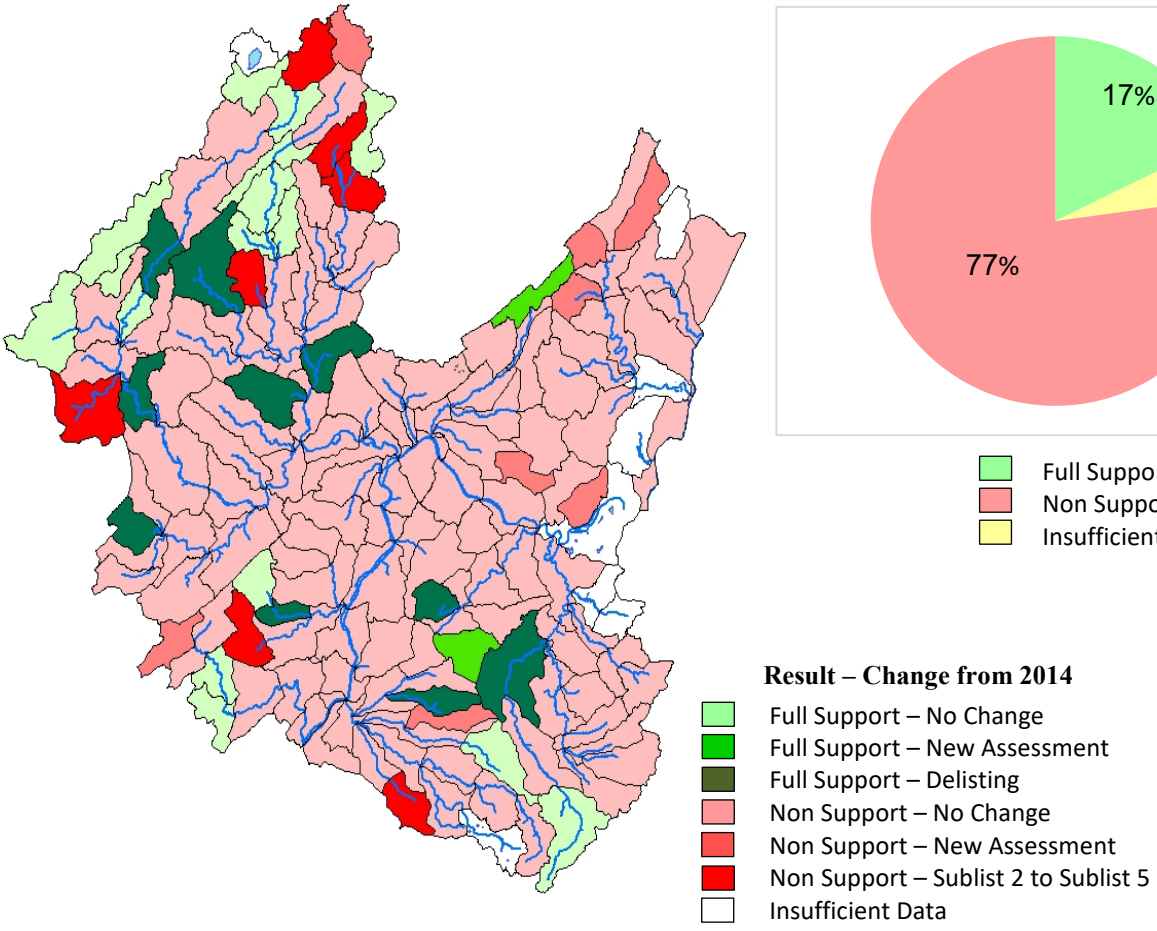


Figure 3.7B: Raritan Water Region Assessment Results for General Aquatic Life Use, Percent (%)

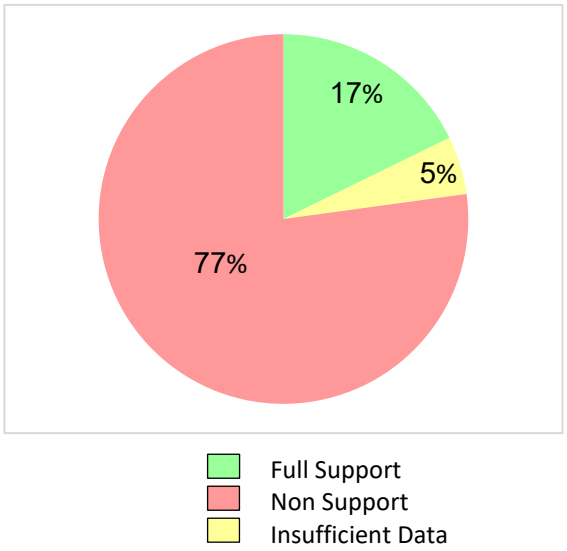
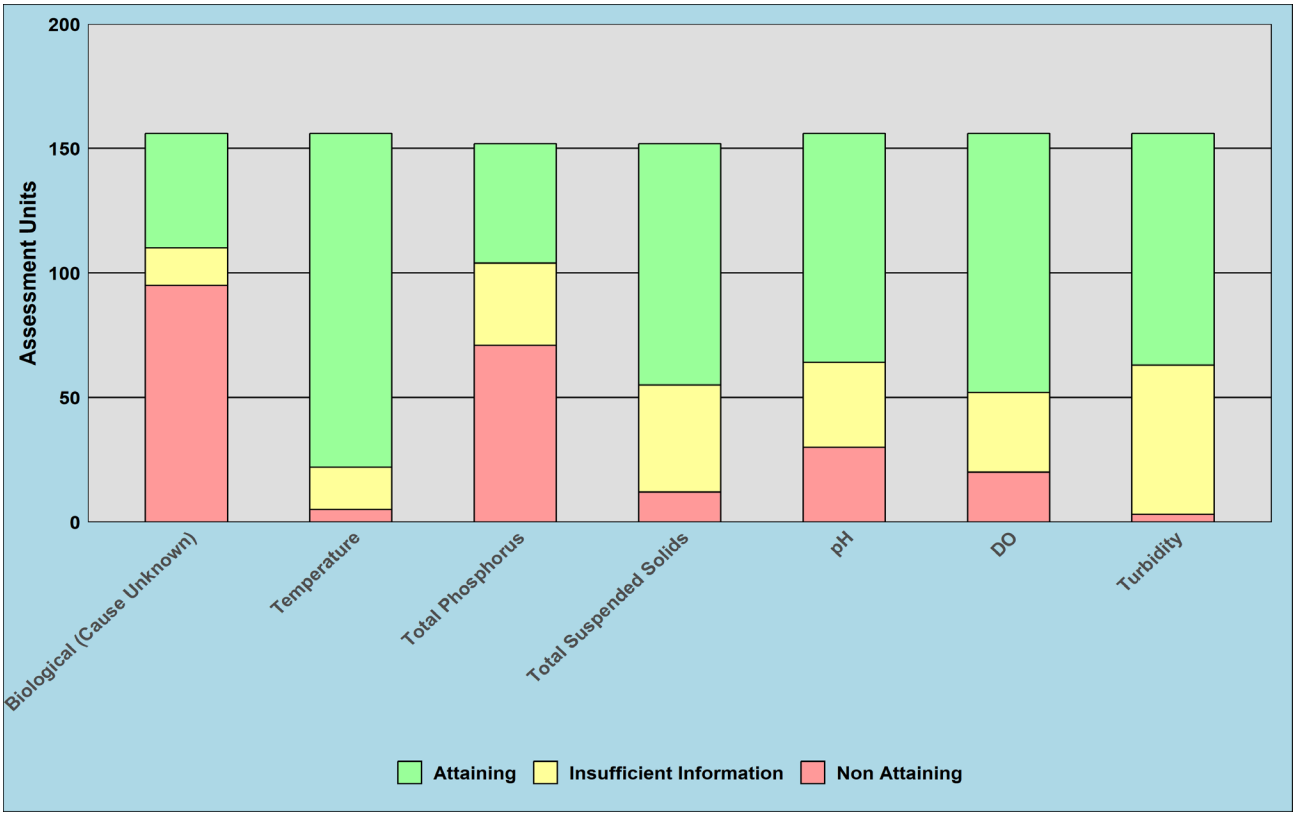


Figure 3.8: Raritan Water Region Assessment Results for Conventional Parameters Associated with the General Aquatic Life Use (156 AUs)



Total phosphorus (TP) attained applicable WQS in 31% of 150 AUs with 47% not supporting and 22% with insufficient information. TP levels in the upper South Branch and North Branch Raritan River were noticeably lower than the rest of the region and demonstrated a high number of AUs fully supporting. These watersheds are characterized as having significant number of areas with undeveloped land use with healthy riparian zones. Areas downstream including the Millstone, Lower Raritan River, and Arthur Kill are impacted by a much greater share of agricultural land use, urban development, and wastewater treatment plants that are contributing to the higher TP levels. The Raritan TMDL addresses over 45% of the impaired AUs for TP.

pH attained applicable WQS in 60% of all AUs**,** 19% exceed criteria, and 21% have insufficient information. pH impairments are found scattered throughout the region. Most of these impairments are associated with high nutrient levels and it is expected that pH levels will respond to restoration efforts aimed at controlling nutrients. The Raritan TMDL addresses over 10% of the impaired AUs for pH.

Dissolved oxygen (DO) attained applicable WQS in 68% of all Raritan AUs, 12% did not attain, and 19% had insufficient information. Healthy DO levels were achieved throughout the region with the majority of exceedances focusing in the upper Millstone River and upper tributaries to South River

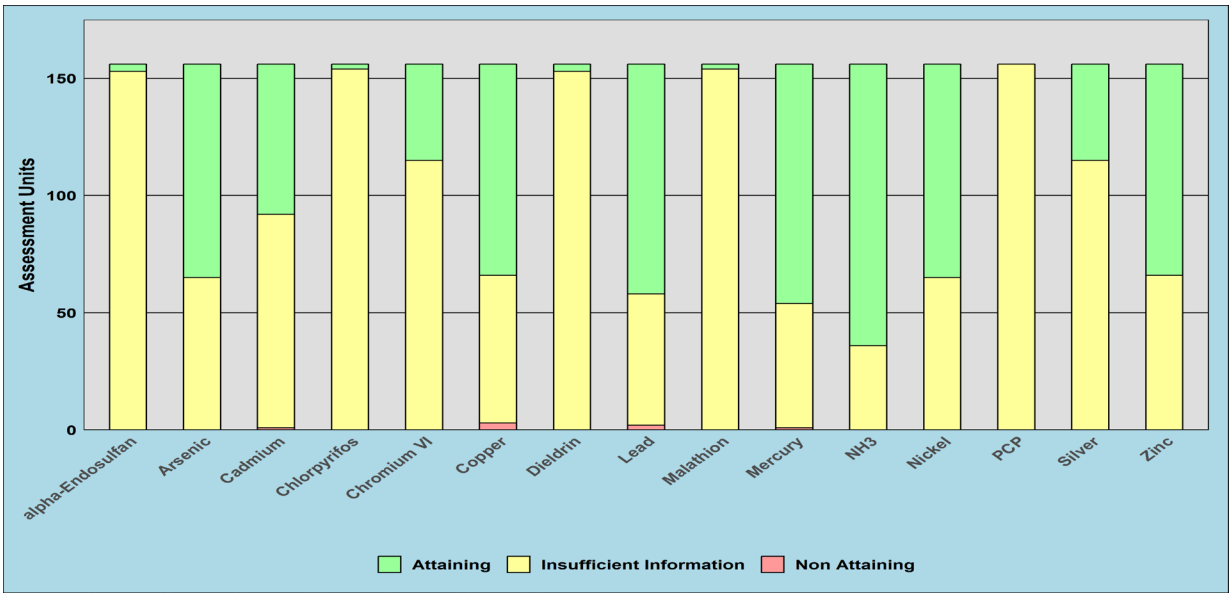
located in the Coastal Plain physiographic region. It is likely that these low DO levels are due to high nutrient loads along with the significant input of ground water that may have low oxygen levels coupled with the slow, meandering flow, and adjacent wetlands which naturally reduces stream aeration.

Temperature shows very high attainment rates throughout the region, with 87% of all Raritan AUs attaining applicable WQS, 3% exceeding the criteria, and 10% with insufficient information. The exceedances of the temperature criteria were almost exclusively in the lower Raritan River mainstem from below the confluence with the North Branch and South Branch to the tidal portion of the river. The waterway is characterized as predominately urban land use with highly degraded riparian zones, and a wide river channel that lead to rapid rises to water temperature.

Total suspended solids (TSS) attained applicable WQS in 65% of all AUs, 8% did not attain, and 27% had insufficient information. **Turbidity** attained applicable WQS in 60%, 2% did not attain, and 38% had insufficient information. As with temperature, the majority of exceedances occurred in the lower Raritan River mainstem from below the confluence with the North and South Branch Raritan to the tidal portion of the river, but there were pockets in the North and South Branch that also exceeded the criteria. The Raritan TMDL addresses 67% of the impaired AUs for TSS.

Metals predominately attained the aquatic life use criteria, except for new sampling that detected exceedances in the Elizabeth River and Red Root Creek/Crows Mill Creek for cooper and lead respectively (see Figure 3.9). Where data was sufficient to make an assessment, metals achieved 99% attainment. Legacy impairments in the South River for cadmium, chromium, copper, lead and mercury requires new sampling to determine current water quality. See Table 3.3 for metal trends since 1998.

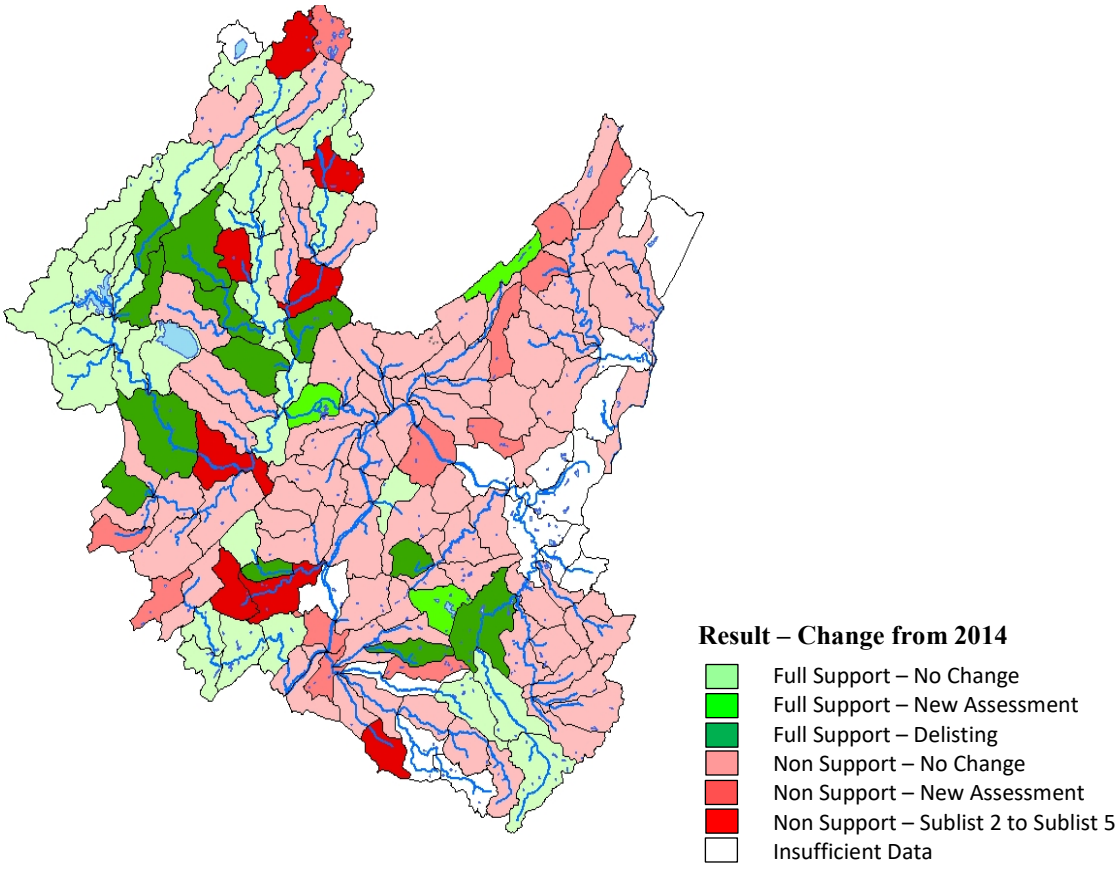
Figure 3.9: Raritan Assessment Results for Metal and Toxin Parameters Associated with Aquatic Life Criteria (156 AUs)



Biological Conditions

Biological monitoring in the Raritan Water Region is the most extensive in the entire state with over 92% of AUs having biological data compared to 59% statewide. Overall biological conditions show that 30% are fully supporting, 62% are not supporting and 8% have insufficient data. Although the biota in the region reflect extensive impairment, there are large areas where biological communities are healthy and fully supporting uses mostly focused in the Upper Raritan River, Stony Brook and Manalapan Brook watersheds. Biological conditions seem to be correlated to land use in the watershed and impacts from point sources. The Arthur Kill watershed (WMA 07) showed the most extensive non support with all of the AUs with data showing impairment. The watershed is nearly 100% urban with numerous major dischargers located within this WMA.

Figure 3.10: Biological Conditions in the Raritan Water Region



Unlike the other three WMAs, the Upper Raritan (WMA 08) exhibits healthy biological communities in most of its AUs. The South Branch Raritan River has the healthiest biological communities with impairments focusing in the lower watershed where extensive agriculture land use in the Neshanic River watershed as well as suburban development in the other watersheds are impacted by storm water, degraded riparian zones, and unstable streambanks. Significant portions of the North Branch Raritan system are in non-attainment with sources believed to be contributing to impairment include suburban development, point source discharges, storm water, and agriculture. The Lamington River and Rockaway Creek watersheds are exhibiting healthy biological communities with the Rockaway Creek showing significant improvements in this cycle.

The Lower Raritan (WMA 09) exhibits extensive areas of non-attainment. Manalapan Brook has been assessed as the only watershed within this WMA as fully supporting biota communities. The remainder of the WMA shows extensive urban/suburban development, heavy commercial/industrial development, point sources, and limited agriculture. The extensive wetlands in the WMA may have a negative effect on local stream biota through the release of poorly oxygenated water in some locations.

The Millstone River (WMA 10) is also characterized by extensive regions exhibiting biological impairment. Stony Brook had the healthiest biological conditions with other watersheds assessed as healthy limited to their headwaters. WMA 10 is a complex of urban/suburban development, agriculture with some wetlands. The extensive impairments are attributed to urbanization and agriculture with its accompanying disruption of habitat and riparian zones, stormwater, and unstable streambanks.

Characteristics of Streams and the Impact on Biota

An analysis where biota reflect full support show they are located in watersheds with healthy, forested riparian zones that include wetlands. Riparian areas are transitional areas between terrestrial and aquatic ecosystems that are vital to watershed health. In watersheds with agricultural use or anthropogenic disturbance such as industrial, commercial, and residential development, the riparian zone provides a buffering between the stream and the area of disturbance. These buffers demonstrate that they help to preserve the stream channels and habitat in their natural condition.

It is important to understand the importance of forested canopies and riparian buffers to preserve and maintain stream ecological integrity. As discussed in Giller and Malmqvist (2001)[18], forested buffers have substantial and positive influences on stream ecology. The overlying canopy, moderates water temperature by providing shade to protect against solar radiation and high daytime air temperatures. Additionally, the cooler waters enhance oxygen carrying capacity in the water column which is especially critical in trout waters and limits primary production thereby limiting the impact of excessive nutrient inputs. A healthy riparian zone reduces stormwater runoff and pollutants such as nutrients, toxics and pesticides from sources in the watershed before they enter the stream. Forested buffers stabilize the streambank reducing erosion and siltation while the exposed root systems within the stream provide hiding places for fish. The leaf and woody debris become an important source of nutrients and carbon to the aquatic system. The leaf litter and woody debris that accumulate on the stream bottom provide a diverse range of habitat for invertebrates and fish as well as refuge from stream flow. Additionally, the buildup of woody

[18] Giller P., and Malmqvist B., 2001. The Biology of Streams and Rivers. Oxford University Press. Pp. 33, 37-38.

material can form debris dams influencing flow patterns, causing the formation of pools and eddies thereby enhancing habitat diversity within the stream channel.

An analysis of how land use impacts the aquatic ecosystem was completed by observing the land use in riparian zones, defined as 300-foot buffers around the streams, as well as, land use in the whole AU. For the assessment, the extent of land use in the AUs and their riparian zones was calculated for "developed" land use defined as urban, suburban, and agricultural land use; "undeveloped" land use which includes forest, wetlands, and the waterways; and impervious surface. Numerous studies have shown that of all of the land use indicators, impervious surface is the most predictive and reliable indicator for biological integrity[19]. The studies reveal that where impervious surface exceeds 10% of watershed land use biological degradation occurs.

As with previous studies, in the Raritan Water Region impervious surface shows it is the most predictive and reliable indicator for biological integrity compared to developed and undeveloped land use. Land use shows that when impervious surface exceeds 10% in an AU then only 24% of the AUs have healthy biological communities. In watersheds with less than 10% impervious surface, the percent of healthy biological communities rises to 66%. Developed AUs with high impervious surface will overwhelmingly display impaired biological communities although an intact riparian zone can mitigate some impacts on the biota. Meanwhile an AU with less than 10% impervious surface exhibits the highest probability for healthy biological communities. Low impervious surface and a healthy riparian zone is associated with healthy biological communities. Where impervious surface is low, impairments primarily occur where agricultural land use is high causing degradation to the function of the riparian zone.

When observing impervious surface in riparian zones, the riparian buffer exhibits very high sensitivity to land use changes in the watershed. Where impervious surface exceeds 10% in the riparian zone, the biological communities display extensive degradation with 90% of the biological communities impaired. Without a buffer to reduce the effects of stressors within the watershed, the biological communities are inundated and unable to recover. Development in the riparian zone degrades the benefits from a healthy ecosystem by intensifying storm water flow, destabilizes streambanks, increases levels of sedimentation and other nonpoint pollutants, rises water temperatures, damages stream habitat, reduces infiltration into the soil, as well as increases the frequency and intensity of flooding and low stream flows.

[19] Booth, D.B. and L. Reinelt. 1993. Consequences of urbanization on aquatic systems - measured effects, degradation thresholds, and corrective strategies. Proceedings of the Watershed '93

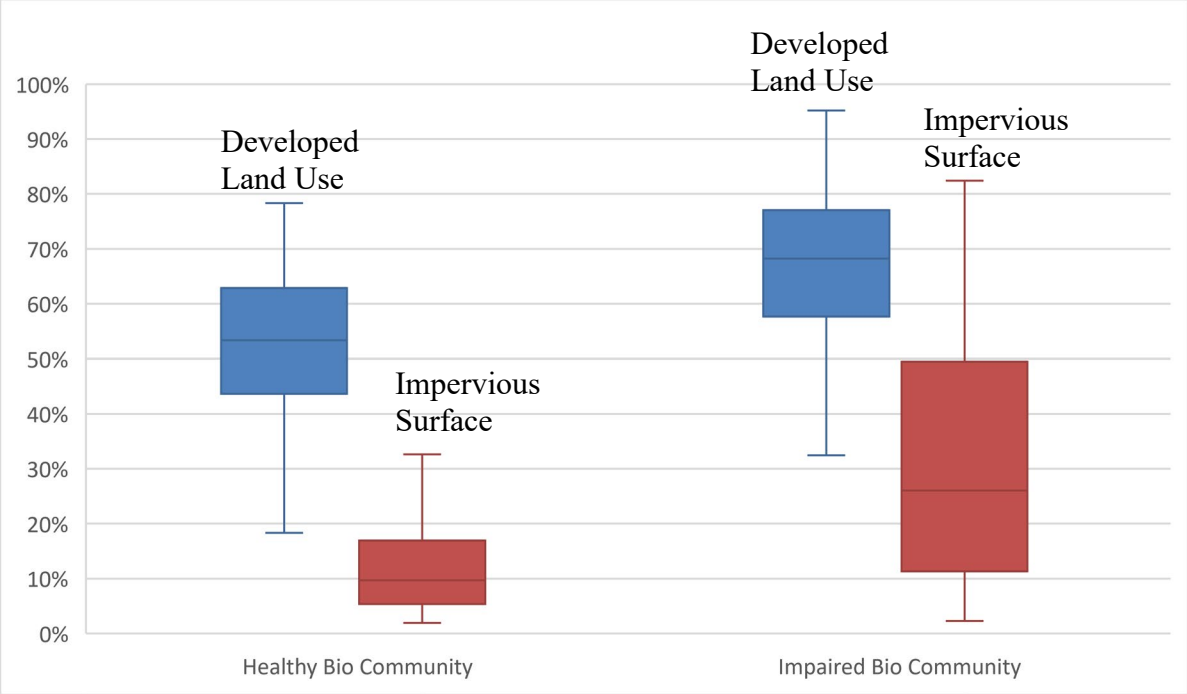
Klein, R.D. 1979. Urbanization and stream quality impairment. Water Resources Bulletin 15: 948-963.

Schueler, T.R. 1994. The importance of imperviousness. Watershed Protection Techniques 1(3): 100- 111.

Steedman, R.J. 1988. Modification and assessment of an index of biotic integrity to quantify stream quality in southern Ontario. Canadian Journal of Fisheries and Aquatic Sciences 45: 492-501.

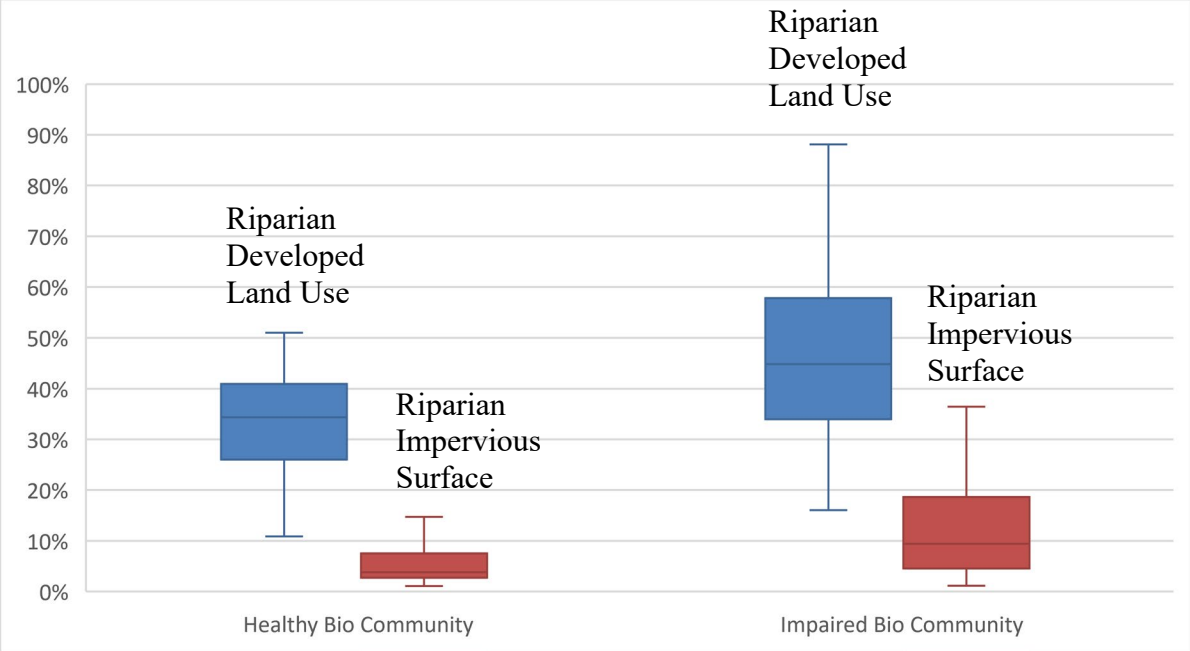
New Jersey's water quality protection programs guard against further degradation of the State's waters in part through protection of riparian buffers. These protections include the SWQS antidegradation policies that provide special riparian protection to Category One (C1) waters based on their exceptional ecological significance, exceptional water supply, exceptional recreation and exceptional fisheries to protect and maintain their water quality, aesthetic value, and ecological integrity[20]. These waters are afforded 300-foot development buffers under the Flood Hazard Area Control Act (N.J.A.C. 7:13) and along with the Stormwater Management Act rule (N.J.A.C. 7:8) regulate certain activities proposed within or impacting riparian zones to help maintain the water quality functions of the buffers. Additional information on these rules and associated programs are available on the Department's web site at http://www.nj.gov/dep/landuse and http://www.nj.gov/dep/stormwater.

Figure 3.11A: Biological Community vs Assessment Unit Developed Land Use and Impervious Surface



[20] NJDEP. *New Jersey Surface Water Quality Standards Antidegradation Designations Fact Sheet*. NJDEP. July 2017. Available at https://www.state.nj.us/dep/wms/bears/docs/swqsfactsheet2-antideg.pdf

Figure 3.11B: Biological Community vs Riparian Zone Developed Land Use and Impervious Surface



Trout Aquatic Life Use: Trout waters within the region are limited to the North and South Branch Raritan River and headwaters of Green Brook and Middle Brook. Overall, 8% of the applicable AUs fully support the use, 74% do not support the use, and 18% have insufficient information to assess the use (see Figures 3.12A and B). AUs with trout waters are characterized as having higher quality waters which consists of higher DO levels and lower water temperatures than general aquatic life use.

Figure 3.12A: Raritan Water Region Assessment Results for Trout Aquatic Life Use, Spatial Extent

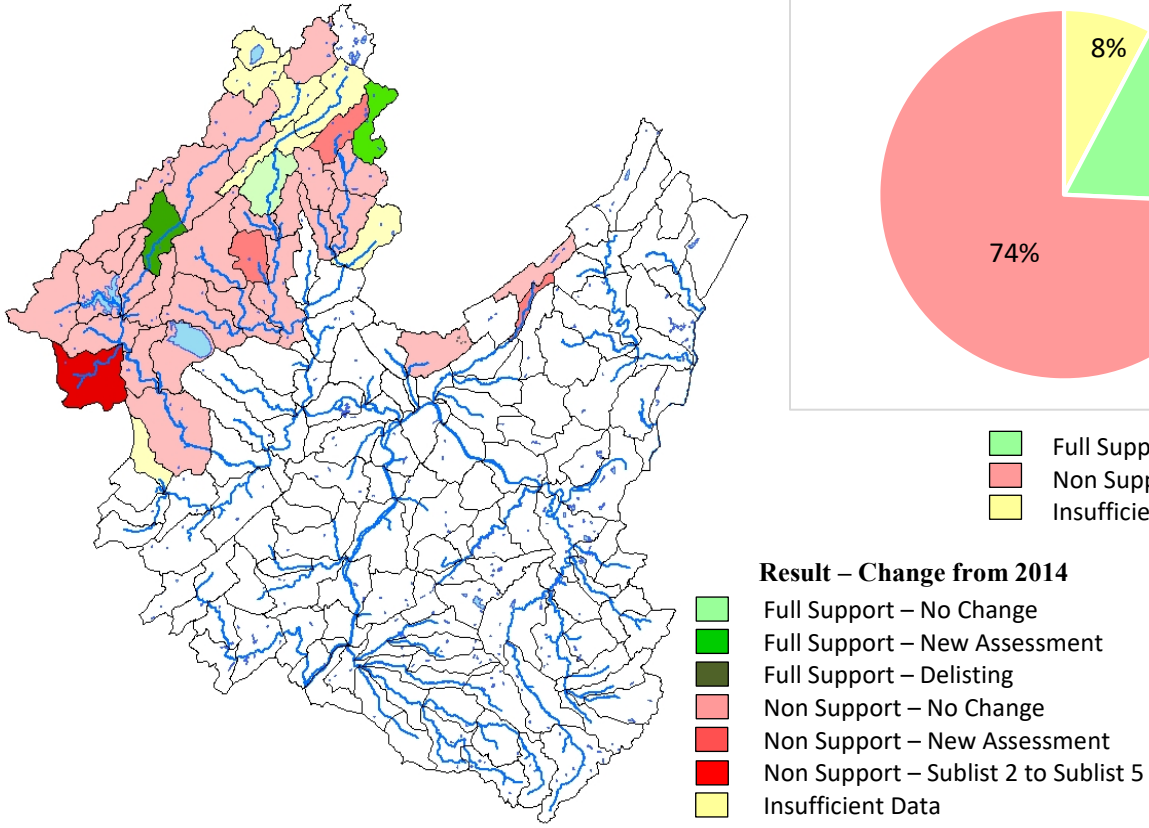
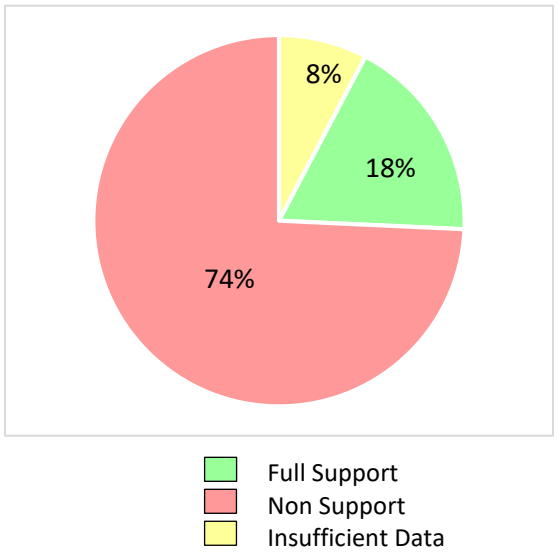


Figure 3.12B: Raritan Water Region Assessment Results for Trout Aquatic Life Use, Percent (%)



Temperature was the most frequent causes of trout use impairment, showing non support in 59% of applicable Raritan AUs (see Figure 3.13). Extensive continuous monitoring for temperature has consistently detected exceedances during the diurnal cycle that was not always captured with discrete monitoring. Where data was available, 82% exceeded trout temperature criteria whereas for DO, continuous monitoring indicated healthy oxygen levels with only 16% exceeding trout DO criteria. During the development of the Raritan TP TMDLs, the Department found that a number of AUs considered to be impaired by temperature might actually reflect natural conditions. A more in-depth analysis of these impaired AUs is underway to determine if temperature reflects natural conditions or actual use impairment. Biological communities in trout waters are significantly higher quality with 72% fully attaining compared to only 30% fully attaining regionwide. During this cycle, biota improvements occurred in Rockaway Creek, Beavers Brook and along South Branch Raritan River

in Lebanon Township. Other pollutants that impacted aquatic life use for trout included TP with 18% impaired, pH with 18% impaired and TSS with only 8% impaired. Metal monitoring indicated no exceedances of the aquatic life criteria in trout waters (see Fig 3.13B).

Figure 3.13: Raritan Water Region Assessment Results for Conventional Parameters Associated with the Trout Aquatic Life Use (39 AUs)

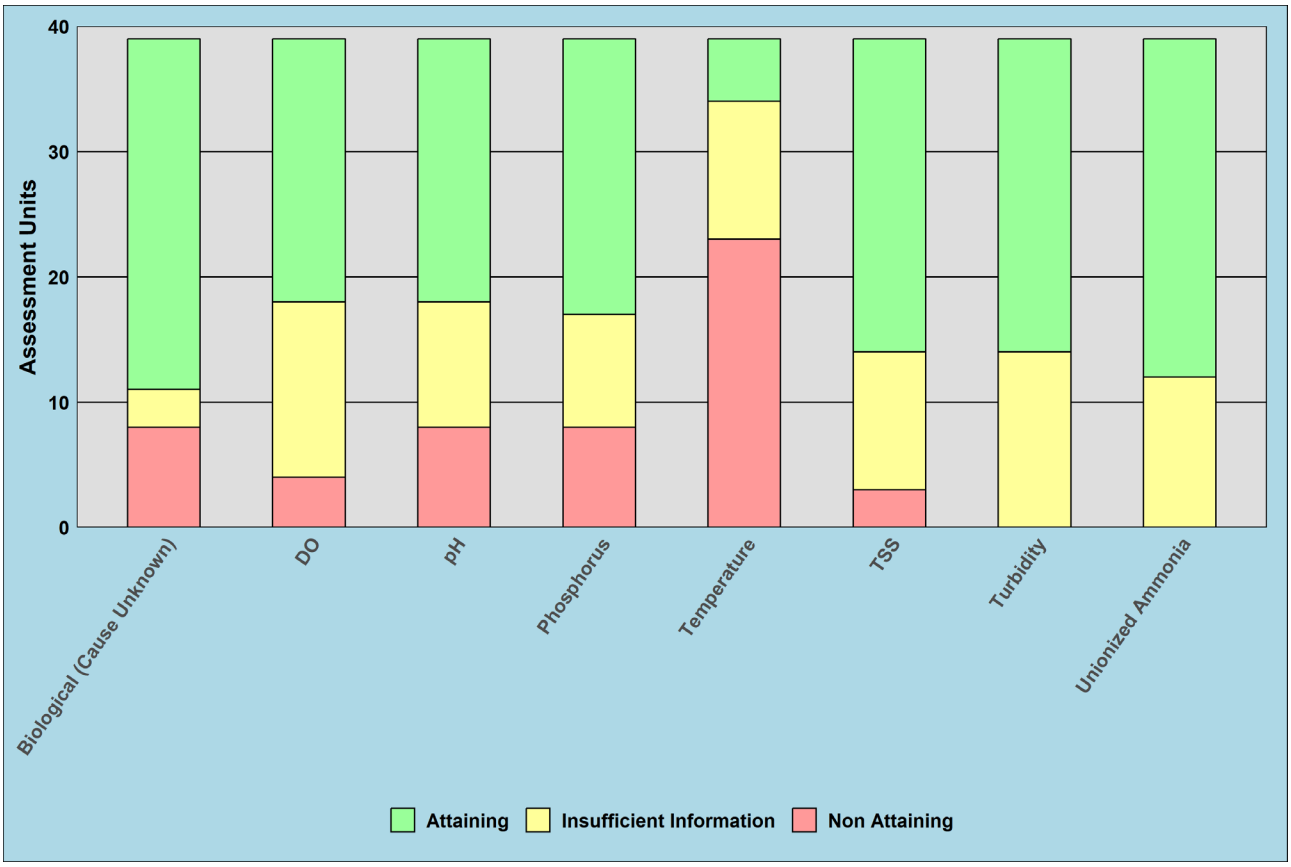
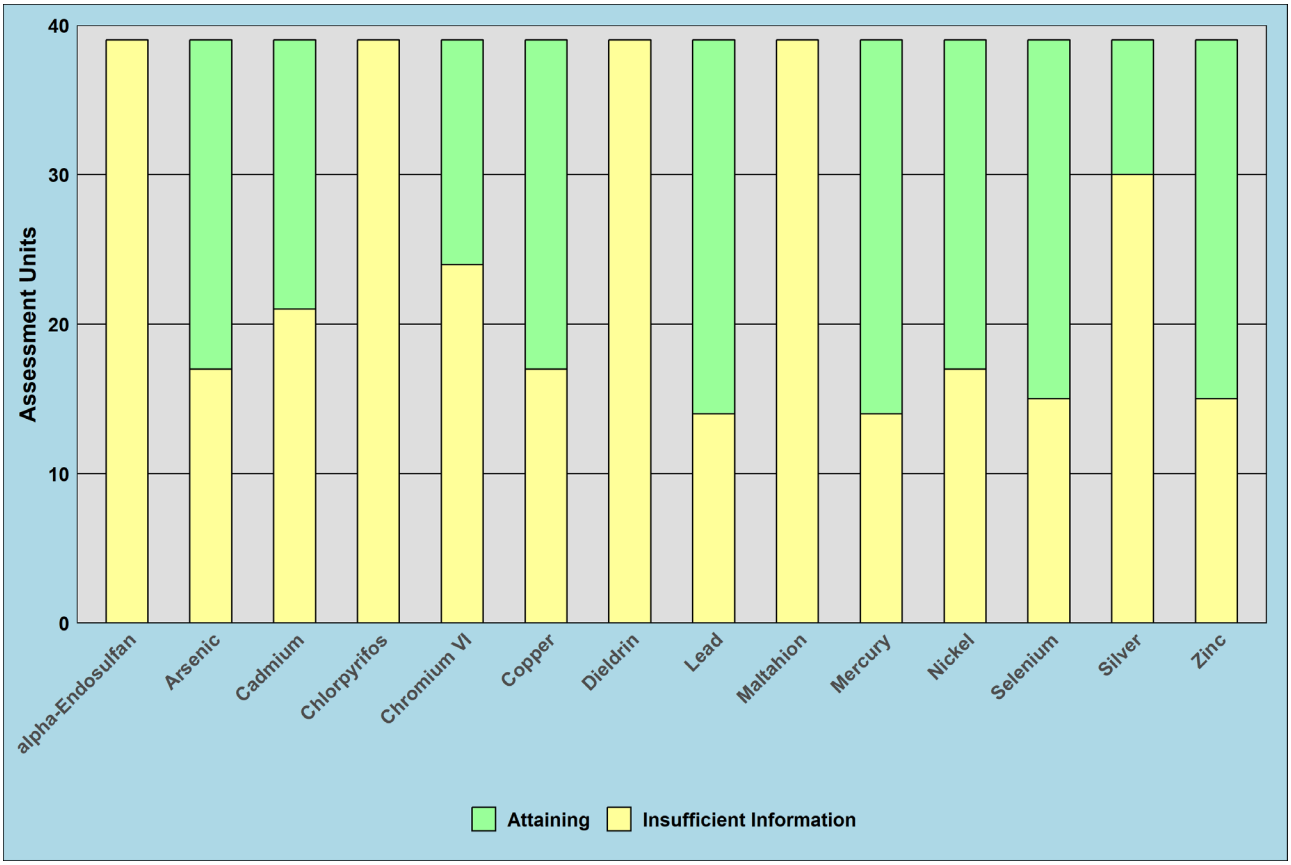


Figure 3.13B: Raritan Water Region Assessment Results for Metal and Toxin Parameters Associated with the Trout Aquatic Life Use (39 AUs)



Recreation: As shown in Figures 3.14A and B, 12% of Raritan's AUs fully support the recreational use, 70% do not support the use, and 18% have insufficient information to assess the use. Monitoring throughout the region has detected *E. coli* levels that consistently exceed recreational criteria with only a few small pockets where criteria is met. In many areas, pathogen levels increase dramatically during rainfall events, indicating stormwater runoff (nonpoint sources of pollution) as the source of these pollutants. These sources may be from human, pet, livestock, or wildlife waste. Common causes of high *E. coli* levels include stormwater runoff, septic system failures, illicit sewer system connections, livestock, manure storage facilities, agricultural lands that receive manure applications, wildlife including geese, and resuspension from sediments.

Figure 3.14A: Raritan Water Region Assessment Results for Recreation Use, Spatial Extent

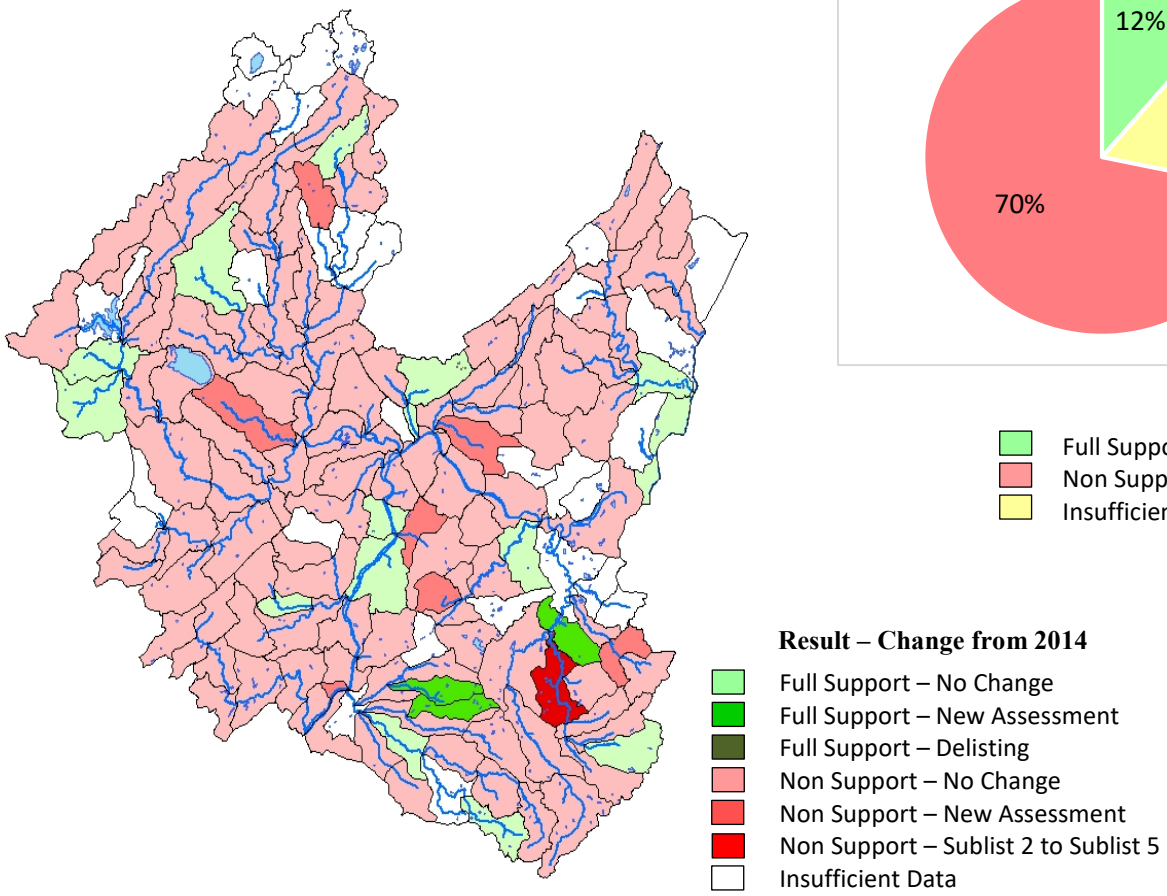


Figure 3.14B: Raritan Water Region Assessment Results for Recreation Use, Percent (%)

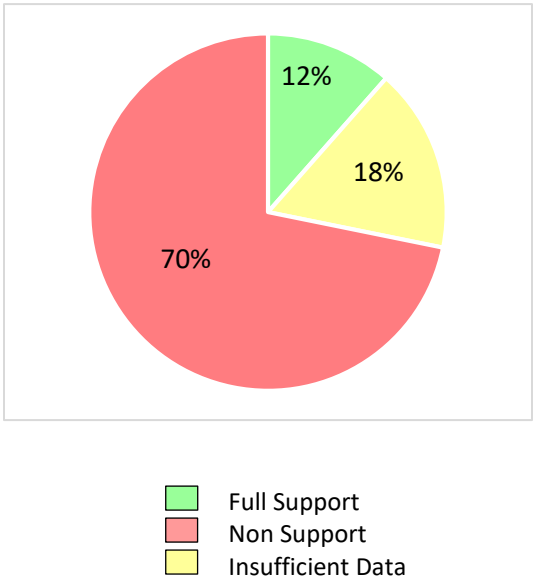
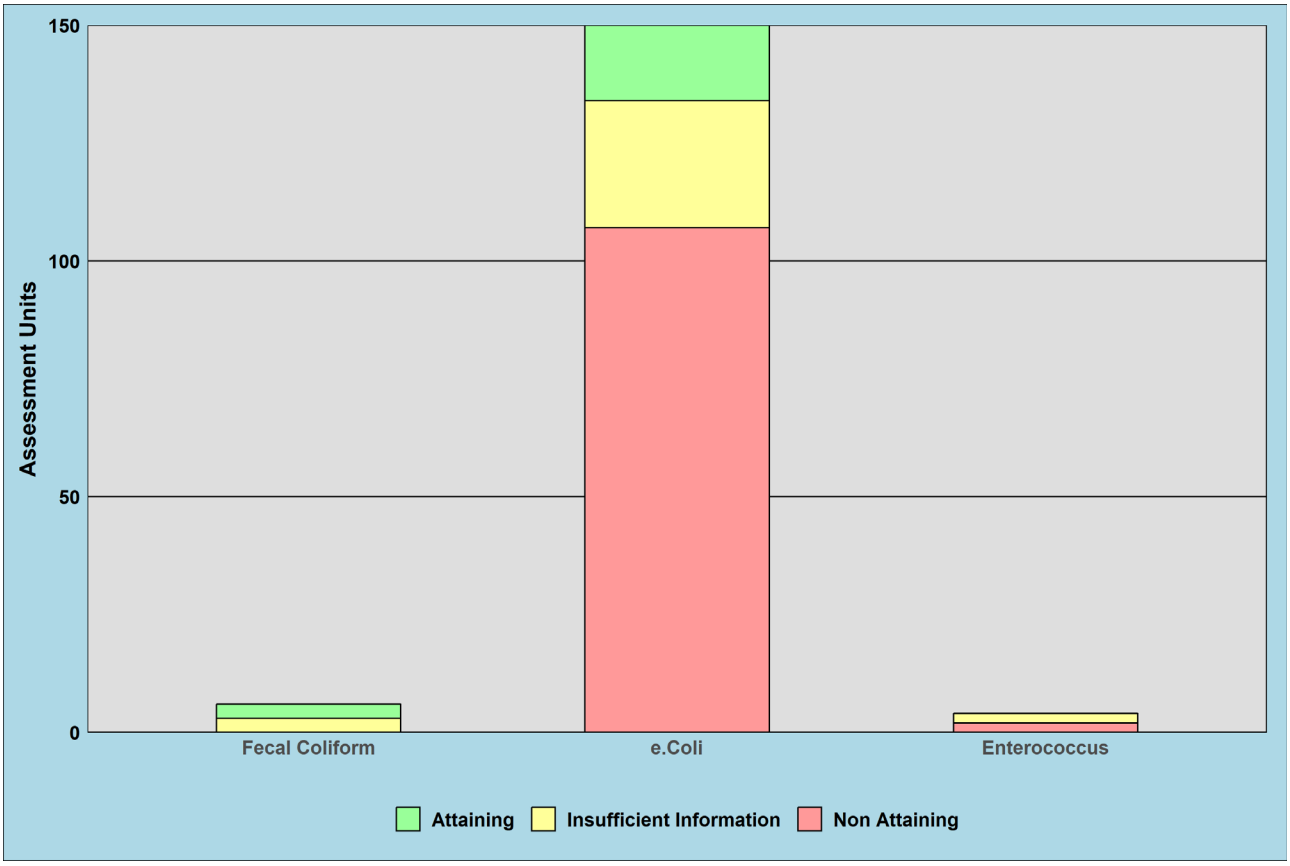


Figure 3.15: Raritan Water Region Assessment Results for Parameters Associated with the Recreation Use (156 AUs)



Fish Consumption: The fish consumption use is assessed based on bioaccumulative toxins that are used to develop fish consumption advisories. Only two of Raritan's AUs fully support the fish consumption use; however, 70% of AUs have insufficient information to assess the use, primarily due to a lack of fish tissue data (see Figures 3.16A and B). Where data is available, they show that 96% of the AUs are impaired for fish consumption.

Figure 3.16A: Raritan Water Region Assessment Results for Fish Consumption Use, Spatial Extent

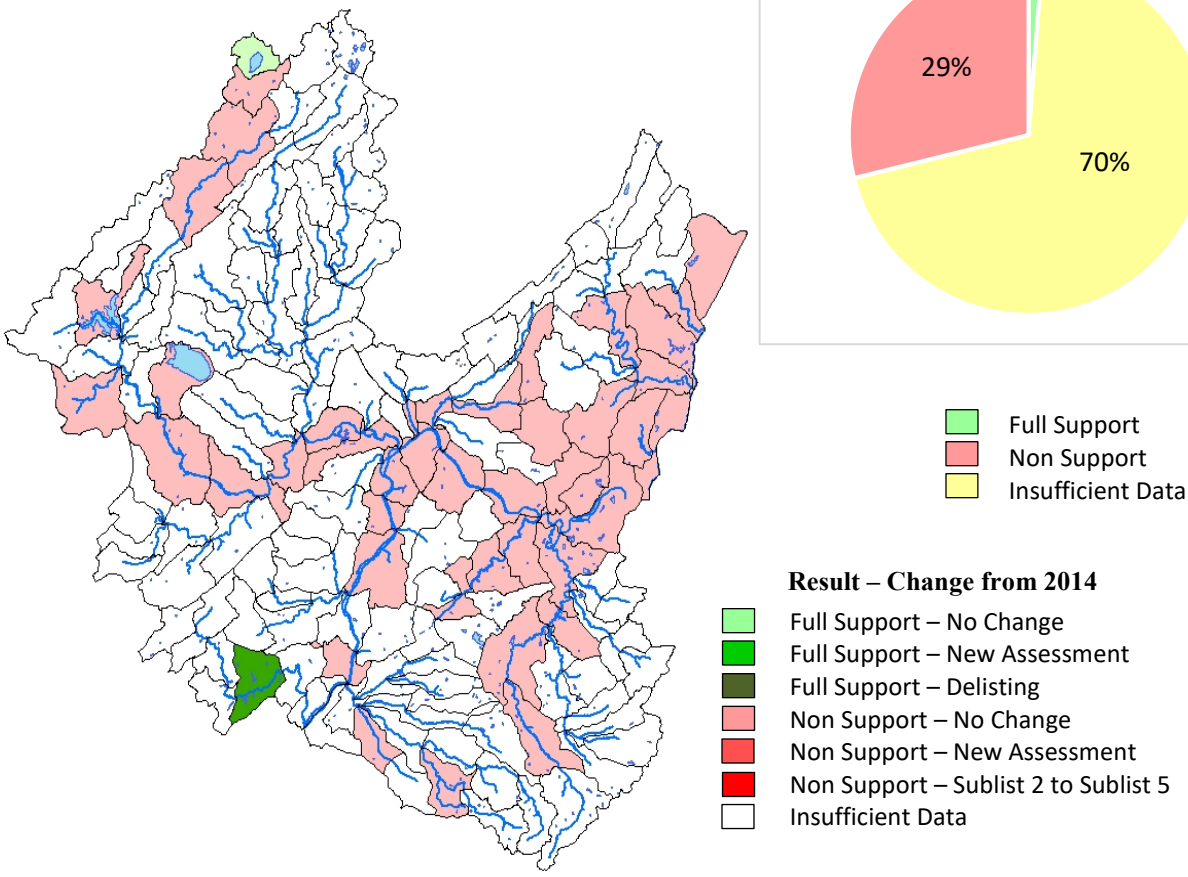
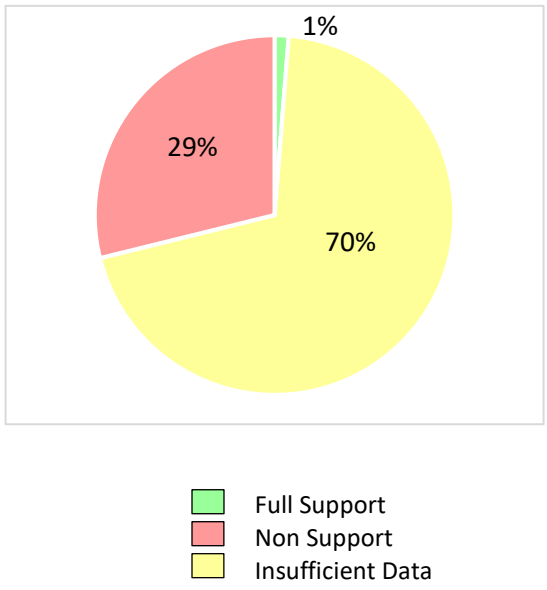
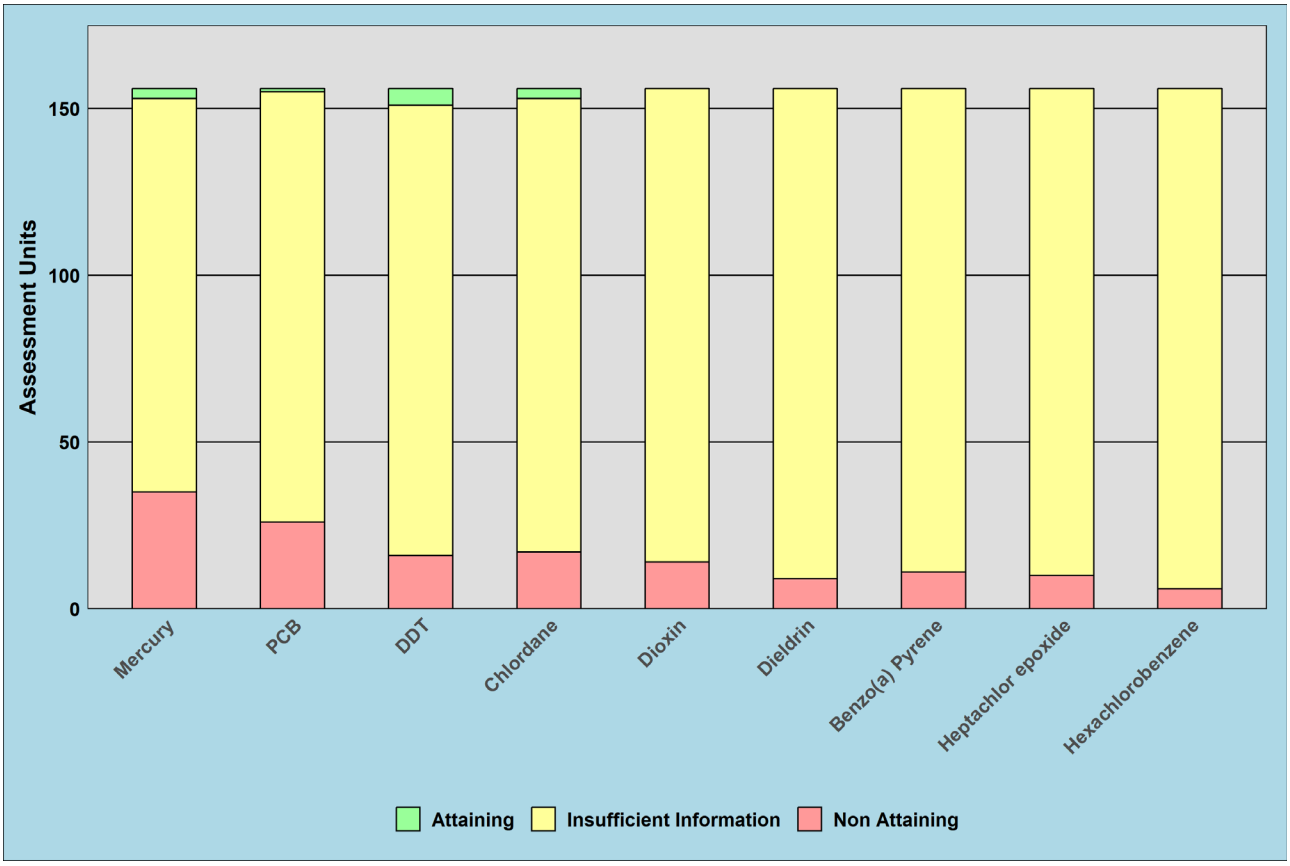


Figure 3.16B: Raritan Water Region Assessment Results for Fish Consumption Use, Percent (%)



"Legacy" pollutants such as PCB, chlordane, DDT, dieldrin, and heptachlor epoxide are no longer manufactured but collectively comprise a majority of the consumption restrictions. Although the data is predominately detecting toxins in fish tissue that prohibits unrestricted fish consumption, some new data did reveal several areas within the region where toxins have decreased and levels meet unrestricted fish consumption. The following waterbodies met their criteria: Rosedale Lake (Stony Brook) for mercury, PCB, chlordane and DDT; Manalapan Lake for mercury; Round Valley Reservoir for chlordane and DDT; Davidsons Mill Pond (Lawrence River) for chlordane; and Weston Mill Pond (Lawrence River) and lower Raritan River at Route 1 (tidal portion) for DDT.

Figure 3.17: Raritan Water Region Assessment Results for Parameters Associated with the Fish Consumption Use (293 AUs)



Shellfish Harvest for Consumption: Shellfish harvesting is only applicable to two AUs in the Raritan Water Region, Raritan River below South River and Red Root Creek/Crows Mill Creek. Data for the Raritan River shows pathogen levels that prohibit shellfish harvesting while the creeks do not have data.

Trends in the Raritan Water Region

Nutrient Trends

Nutrient data from five monitoring sites distributed through the region were analyzed by a Weighted Regressions on Time, Discharge, and Season model (WRDTS) using data from 1988 to 2011 as part of the USGS statewide trends analysis. As with statewide trends, nutrient trends in the Raritan Water Region show improving or stable conditions. TN demonstrates the best conditions with decreasing or stable trends at all sites. TP displayed stable conditions with all stations showing no trends. Nitrate and nitrite trends display improving and stable conditions except in the Lower Raritan River in Bound Brook where there is an increasing trend. Although nitrate and nitrite levels are increasing, current

levels are well below applicable water quality criteria and do not expect to exceed the criteria in the near future.

The improving and stable nutrient conditions in the region can be attributed to the upgrades to wastewater treatment, the implementation of statewide nonpoint source management efforts, and land use changes over the time period. As explained in Section 2.3, the late 1980s and 1990s saw a significant upgrade in sanitary treatment quality where wastewater treatment plants were required to upgrade to secondary treatment. Secondary treatment required additional treatment to remove organic compounds by biological processes that lowered nutrient levels. Additionally, smaller primary plants were regionalized into larger more efficient secondary plants resulting in the removal of the smaller inefficient primary plants from the region. Additionally, nonpoint source controls began to expand in the late 1990's with the implementation of the MS4 and Nonpoint Source Permitting Programs.

Land use changes since the 1980's has shown significant urban development throughout the region. Since 1986, urban land use has increased over 35%, however, nutrient levels have not shown a corresponding increase expected from development in the watershed. Urbanization increases impervious surfaces of the land due to the building of roads, pavement, and rooftops which cause rain and snowmelt to remain on the surface. The nonpoint source runoff then moves over the land and picks up natural and human-made pollutants depositing them into lakes, rivers, wetlands, ground and coastal waters. These include:

- Excess fertilizers, herbicides, and insecticides from agricultural and residential areas;
- Oil, grease, and toxic chemicals from vehicles, urban and developed land and industrial facilities;
- Sediment from improperly managed construction sites and other disturbed land uses;
- Excess salt from winter road management;
- Bacteria and nutrients from livestock, pet wastes, and faulty septic systems;
- Atmospheric deposition; and
- Consequences of hydromodification, such as bank and channel erosion.

In order to explain the stabilization of nutrients in the region, an analysis of the land use data reveals that the majority of the urban development has occurred on agricultural lands and not on undeveloped wetland or forested lands. This has caused a stabilizing effect by replacing nutrient runoff from agricultural practices to inputs from less intensive domestic activities such as fertilizing of lawns. Although the region has experienced declines in forested land by 5% and wetlands by 10%, the development on agricultural lands, 35% decline, has helped protect the benefits from the undeveloped land use in stabilizing nutrient inputs into the region's waterbodies. Forested lands and wetlands provide many benefits to water quality, especially in the riparian zone, by decreasing storm water runoff, increasing infiltration rates, filtering out pollutants, providing shading to moderate temperatures, increasing oxygen levels, and limiting primary production from excessive nutrients.

Increases of nitrate levels in the Lower Raritan River are likely attributed to upgrades to treatment plants upstream to reduce ammonia which can lead to increases of its oxidized forms. As discussed earlier, decreases of ammonia are often accompanied by increases in nitrate as treatment plants oxidize the ammonia to eliminate it. Ammonia is more deleterious to the environment than the more oxidized species of nitrogen through its uptake of oxygen and its toxicity to aquatic life.

Table 3.2: Raritan Water Region Nutrient Trends from 1988-2011

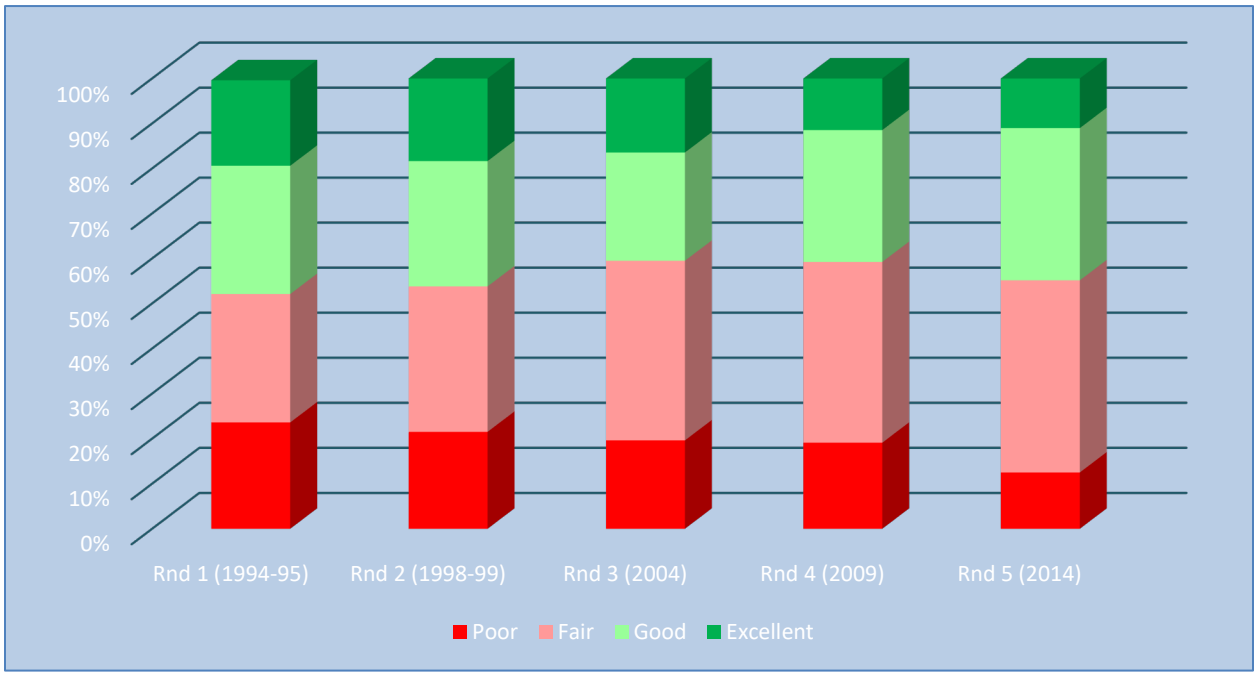
Location	Total Nitrogen	Nitrate	Total Phosphorus
Neshanic River at Reaville	↓	↓	—
Lamington River at Burnt Mills	—	—	—
Raritan River at Queens Bridge at Bound Brook	↓	↑	—
Mulhockaway Creek at Van Syckel	↓	↓	—
Manalapan Brook at Federal Road near Manalapan	—	—	—

↓ Downward Trend ↑ Upward Trend — No Trend

Biological Condition Trends

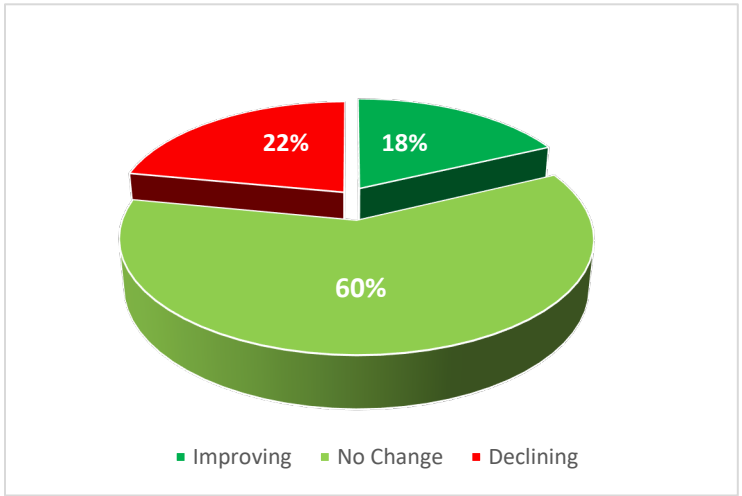
Biological trends in the Raritan Water Region were determined by reviewing the index categories for benthic macroinvertebrates and fish communities between 1999 to 2015. Overall, both fish and macroinvertebrate trend assessments point to stable conditions in the Raritan Water Region with the majority of sites showing no changes over the 15-year period. However, there was an observable trend in the number of "Excellent" conditions and "Poor" conditions migrating toward the "Good" and "Fair" categories.

Figure 3.18: Biological Trends in Raritan Water Region from 1999 to 2015



The reduction in the number of "Poor" sites predominately occurred in urban watersheds in the lower Raritan Water Region including the Millstone River watershed where heavily impacted watersheds have shown modest improvements. The declining number of "Excellent" sites have exclusively been limited to WMA 8 in the Upper Raritan which has the highest rate of urbanization over the last few decades.

Figure 3.19: Biological Condition Trends: 1999 to 2015

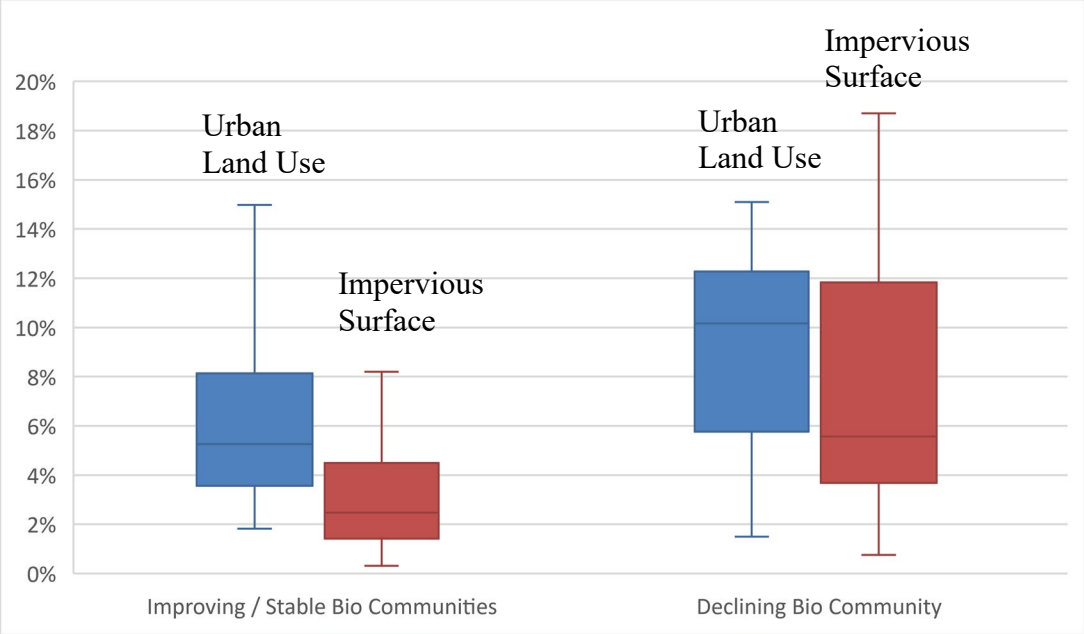


Regarding biological sites assessed as showing "no change," many benthic macroinvertebrate communities displayed high variability through the assessment period, alternating up and down between "Good" and "Fair" conditions without ever showing any trend direction. Such sites are labeled as "mixed" and represented almost half of the AMNET sites assessed as exhibiting "no change." These sites are impacted by anthropogenic sources, but depending on the season and varying local conditions (e.g. temperature, rainfall, storm flow, or nearby activities) these sites oscillate in a mediocre state between "Good" and "Fair."

During the last few decades, urbanization in the region has increased significantly. Although the replacement of agricultural lands with urban/suburban land use has had a stabilizing effect for

chemical loads, the increase of impervious surface has impacted the biological communities. A review of land use changes in the AUs between 1995 and 2012 show urban land use replacing agricultural land with minimal loss of forest and wetlands. At benthic macroinvertebrate monitoring sites that show declining index scores, median increases of urban land use changes are 10% with impervious surface increasing by 6%, and losses of only 2% of forested land and 1% of wetlands. At monitoring sites that show improving or fully attaining index scores, median changes show urban land use increasing by 5% with impervious surface only increasing by 2.5%, and forested land use declining by 2% and wetlands by 0.5%. Declining macroinvertebrate sites show significant increases of impervious surface over the time period compared to improving and fully supporting stable sites. The replacement of pervious land with impervious surfaces increases storm water and the associated impacts such as degraded riparian zones, unstable streambanks, higher turbidity, nutrients, erosion, and other chemicals flowing into the water bodies.

Figure 3.20: Urban Land Use and Impervious Surface Changes from 1995 to 2012



Metals and Ammonia Trends

The most remarkable development in the Raritan Water Region is the dramatic decrease of metal and ammonia levels in the region resulting in a 95% decrease in the number of impairments on the 303(d) List. This does not include arsenic which continues to be detected at levels that exceed the human health criteria. In 1998, there were 191 303(d) listings for metals including unionized ammonia. Years of monitoring has revealed only nine 303(d) listings for metals remain in 2016. This remarkable improvement is the result of rules and regulations that have limited the discharge of toxins in the waterways and air, the remediation of contaminated sites, and the closing or shifting of many manufacturers out of the region. Statewide metals and toxins discharging into waterbodies have

drastically been reduced, however, legacy issues still impact some areas of the state where metals remain in the sediment. During storms and high flow, these sediments can become resuspended in the water column and elevated metal levels can be found exceeding their criteria. In the Raritan Water Region, metal levels remain low even during high flow events indicating clean sediment and/or metals that are buried to far below the sediment to be resuspended. Declines of ammonia levels are attributed to improved wastewater treatment processes that have resulted in reduced discharge levels.

While metal and toxin levels have declined significantly in the Raritan Water Region, recent sampling indicates a few exceptions where criteria are exceeded such as copper in the Elizabeth River, benzene in the Lower Raritan River, and lead in a tributary (Red Root/Crows Mill Creek) of the Lower Raritan River. South River originally listed on the 1998 303(d) List continues to be listed and requires new sampling to determine current water quality conditions.

Arsenic was not incorporated into this trend assessment. The frequency of arsenic impairment has increased over time due to improved detection of arsenic. This human health criterion is much more stringent (by more than an order of magnitude) than the New Jersey drinking water standard of 5 ug/L established in the Safe Drinking Water Act rules at N.J.A.C. 7:10-5.2 (see http://www.nj.gov/dep/rules/rules/njac7_10.pdf). Only a couple of waterbodies in the Raritan Water Region (South Branch Raritan River below Budd Lake and Red Root Creek) have detected arsenic concentrations above 5 ug/L yet most exceed the SWQS human health criterion. Neither of these waterbodies are in proximity to any surface water drinking water intakes.

Table 3.3: Metal and Ammonia 1998 and 2016 303(d) Listings in the Raritan Water Region

WMA	AU Name	1998 303(d) Listed Parameters	2016 303(d) Listed Parameters
7	Arthur Kill waterfront (below Grasselli)	Copper, Lead, Mercury, Nickel	
7	Elizabeth R (Elizabeth CORP BDY to I-78)		Copper
7	Elizabeth R (below Elizabeth CORP BDY)		Copper
8	Lamington R (Furnace Rd to Hillside Rd)	Unionized Ammonia	
8	Lamington R (Hillside Rd to Rt 10)	Unionized Ammonia	
8	Neshanic River (below Black Brook)	Copper, Unionized Ammonia	
8	Neshanic River (Black Brk to FN/SN confl)	Copper, Unionized Ammonia	
8	Raritan R NB (incl Mine Bk to Peapack Bk)	Copper	
8	Raritan R NB (Lamington R to Mine Bk)	Copper	
8	Raritan R SB (74d 44m 15s to Rt 46)	Lead	
8	Raritan R SB (Califon br to Long Valley)	Lead	
WMA	**AU Name**	**1998 303(d) Listed Parameters**	**2016 303(d) Listed Parameters**
8	Raritan R SB (LongValley br to 74d44m15s)	Lead	

8	Raritan R SB (NB to Pleasant Run)	Beryllium, Chromium, Copper, Lead	
8	Raritan R SB (Pleasant Run-Three Bridges)	Zinc	
8	Raritan R SB (Prescott Bk to River Rd)	Lead	
8	Raritan R SB (River Rd to Spruce Run)	Lead	
8	Raritan R SB (Spruce Run-StoneMill gage)	Lead	
8	Raritan R SB (StoneMill gage to Califon)	Lead	
8	Raritan R SB (Three Bridges-Prescott Bk)	Zinc	
8	Rockaway Ck (below McCrea Mills)	Lead, Mercury	
8	Spruce Run (above Glen Gardner)	Copper, Lead	
8	Spruce Run (Reservior to Glen Gardner)	Cadmium	
9	Lawrence Bk (above Deans Pond dam)	Cadmium, Chromium, Copper, Lead, Mercury, Zinc	
9	Lawrence Bk (below Milltown/Herberts br)	Cadmium, Chromium, Copper, Lead, Mercury, Zinc	
9	Lawrence Bk (Church Lane to Deans Pond)	Cadmium, Chromium, Copper, Lead, Mercury, Zinc	
9	Lawrence Bk (Milltown to Church Lane)	Cadmium, Chromium, Copper, Lead, Mercury, Zinc	
9	Manalapan Brook (above 40d 16m 15s)	Lead	
9	Manalapan Brook (below Lake Manalapan)	Lead, Zinc	
9	Manalapan Brook (incl LkManlpn to 40d16m15s	Lead	
9	Raritan R Lwr (below Lawrence Bk)	Cadmium, Copper, Lead, Mercury, Nickel, Zinc	
9	Raritan R Lwr (I-287 Piscatway-Millstone	Cadmium, Copper, Lead, Mercury, Nickel	Benzene
9	Raritan R Lwr (Lawrence Bk to Mile Run)	Cadmium, Copper, Lead, Mercury, Nickel	
9	Raritan R Lwr (Mile Run to I-287 Pisctwy)	Cadmium, Copper, Lead, Mercury, Nickel	Benzene
9	Raritan R Lwr (Millstone to Rt 206)	Unionized Ammonia	
9	Red Root Creek / Crows Mill Creek		Lead
9	South River (below Duhernal Lake)	Cadmium, Chromium, Copper, Lead, Mercury	Cadmium, Copper, Lead, Mercury
10	Beden Brook (below Province Line Rd)	Lead	
10	Millstone R (above Rt 33)	Beryllium, Cadmium, Chromium, Lead, Mercury, Zinc	
10	Millstone R (Amwell Rd to Blackwells Mills	Cadmium, Chromium, Lead, Mercury	
WMA	**AU Name**	**1998 303(d) Listed Parameters**	**2016 303(d) Listed Parameters**
10	Millstone R (Applegarth road to Rt 33)	Beryllium, Cadmium, Chromium, Lead, Mercury, Zinc	

10	Millstone R (Beden Bk to Heathcote Bk)	Beryllium, Cadmium, Chromium, Lead, Mercury, Zinc, Unionized Ammonia	
10	Millstone R (below Amwell Rd)	Cadmium, Chromium, Lead, Mercury	
10	Millstone R (Blackwells Mills to Beden Bk)	Cadmium, Chromium, Lead, Mercury	
10	Millstone R (Cranbury Bk to Rocky Bk)	Beryllium, Cadmium, Chromium, Lead, Mercury, Zinc	
10	Millstone R (Heathcote Bk to Harrison St)	Beryllium, Cadmium, Chromium, Lead, Mercury, Zinc, Unionized Ammonia	
10	Millstone R (Rocky Bk to Applegarth road)	Beryllium, Cadmium, Chromium, Lead, Mercury, Zinc	
10	Millstone R (Rt 1 to Cranbury Bk)	Beryllium, Cadmium, Chromium, Lead, Mercury, Zinc, Unionized Ammonia	
10	Rocky Brook (above Monmouth Co line)	Chromium, Lead, Zinc	
10	Rocky Brook (below Monmouth Co line)	Chromium, Lead, Zinc	
10	Stony Bk (74d 48m 10s to 74d 49m 15s)	Cadmium, Chromium, Lead, Mercury, Zinc	
10	Stony Bk (74d46m dam to/incl Baldwins Ck	Cadmium, Chromium, Lead, Mercury, Zinc	
10	Stony Bk (above 74d 49m 15s)	Cadmium, Chromium, Lead, Mercury, Zinc	
10	Stony Bk (Alexander Crk to Rt 206)	Cadmium, Chromium, Lead, Mercury, Zinc	
10	Stony Bk (Baldwins Ck to 74d 48m 10s)	Cadmium, Chromium, Lead, Mercury, Zinc	
10	Stony Bk (Province Line Rd to 74d46m dam	Cadmium, Chromium, Lead, Mercury, Zinc	
10	Stony Bk (Rt 206 to Province Line Rd)	Cadmium, Chromium, Lead, Mercury, Zinc	
10	Stony Bk- Princeton drainage	Cadmium, Chromium, Lead, Mercury, Zinc	

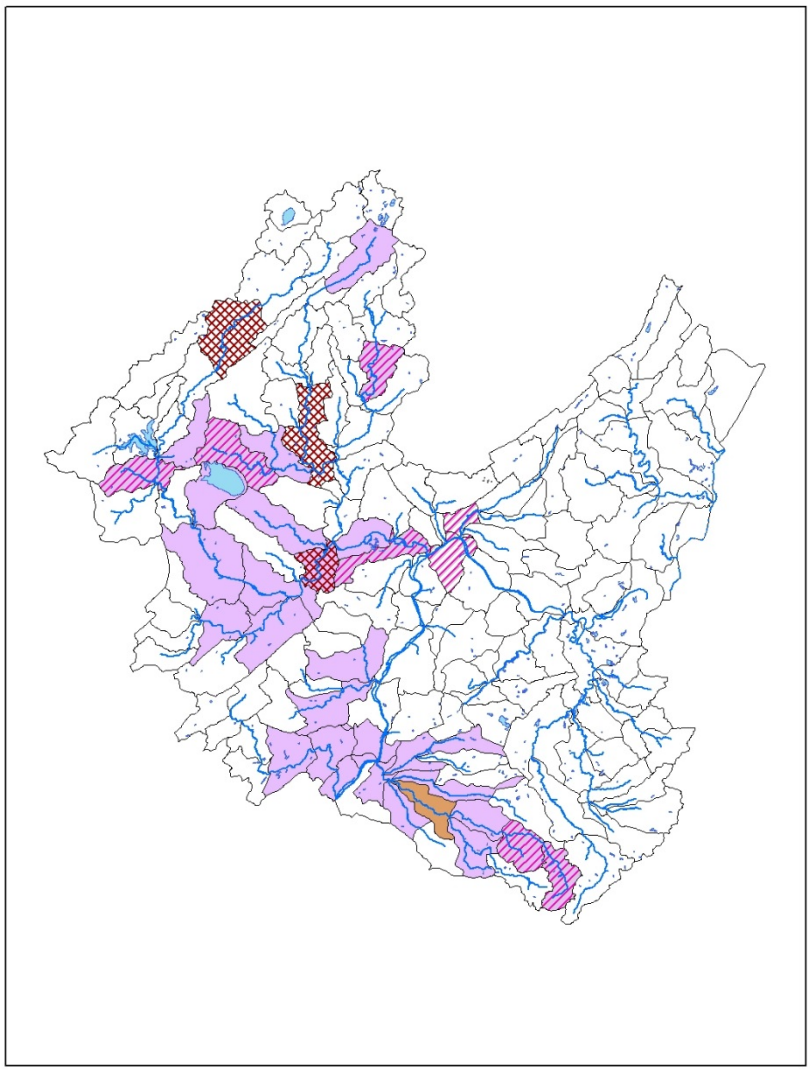
3.4 - Actions Addressing Key Water Quality Concerns

Over the last 10 years the Department has focused a strategy that allocated the resources needed to increase monitoring that has successfully reduced data gaps and achieved a stronger understanding of water quality conditions in the region. With this understanding of water quality issues in the Raritan

Water Region, the Department has been able to initiate management actions to protect, maintain, and restore water quality. Several significant efforts in the Raritan Water Region including the approval of the Raritan TMDL, the Raritan Protection Plan, and the nonpoint restoration efforts described in this section. These actions along with future efforts are expected to reduce pollutant loading to help restore water quality. It is not expected that results will occur quickly, but by addressing point source, nonpoint source, and minimizing impacts from future development, water quality can be improved and designated uses restored over time.

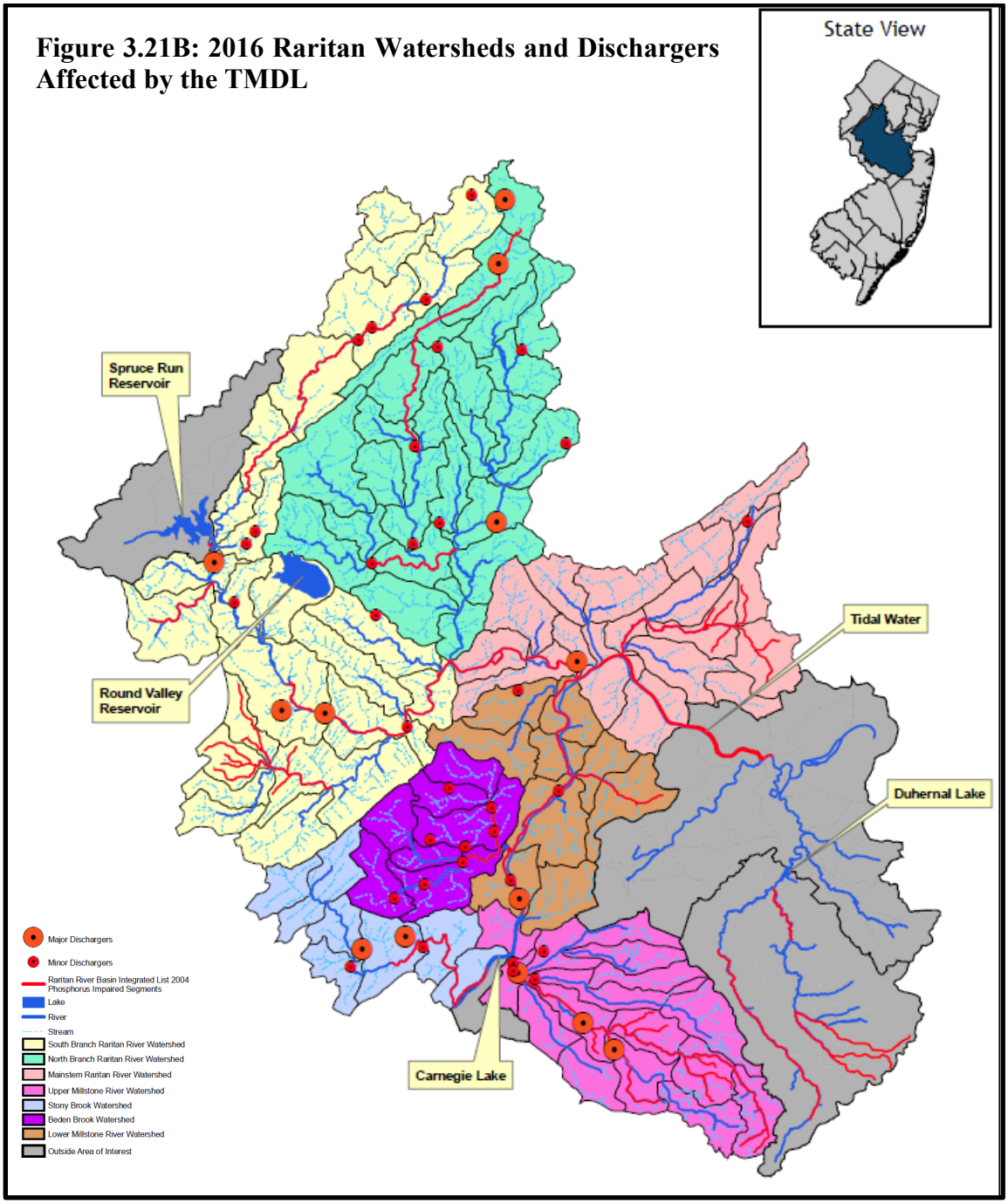
Raritan TMDL

Figure 3.21: Raritan TMDL for TP, TDS, pH, and DO



In May 2016, EPA approved "Total Maximum Daily Load Report for the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments." The TMDL Report addresses 33 Total Phosphorus (TP), 3 pH, 1 Dissolved Oxygen (DO), and 15 Total Suspended Solids (TSS) impairments (see Figure 3.21). This has been arguably the most significant management action in the Raritan Water Region to address impairments to water quality. The TMDL study area includes the North and South Branch Raritan River, Upper Millstone River, Stony Brook, Lower Millstone River, Bedens Brook, and the Mainstem Raritan River to Fieldville Dam. The watersheds of the Spruce Run Reservoir, Round Valley Reservoir, and the Delaware and Raritan Canal were not modeled as part of this study. It was determined that addressing TP impairments along the mainstem Lower Millstone River and the mainstem Raritan River between the Millstone River confluence and Fieldville Dam was deferred pending further study. In addition, the Duhernal Lake will be the subject of a separate forthcoming TMDL to address total phosphorus.

Figure 3.21B: 2016 Raritan Watersheds and Dischargers Affected by the TMDL

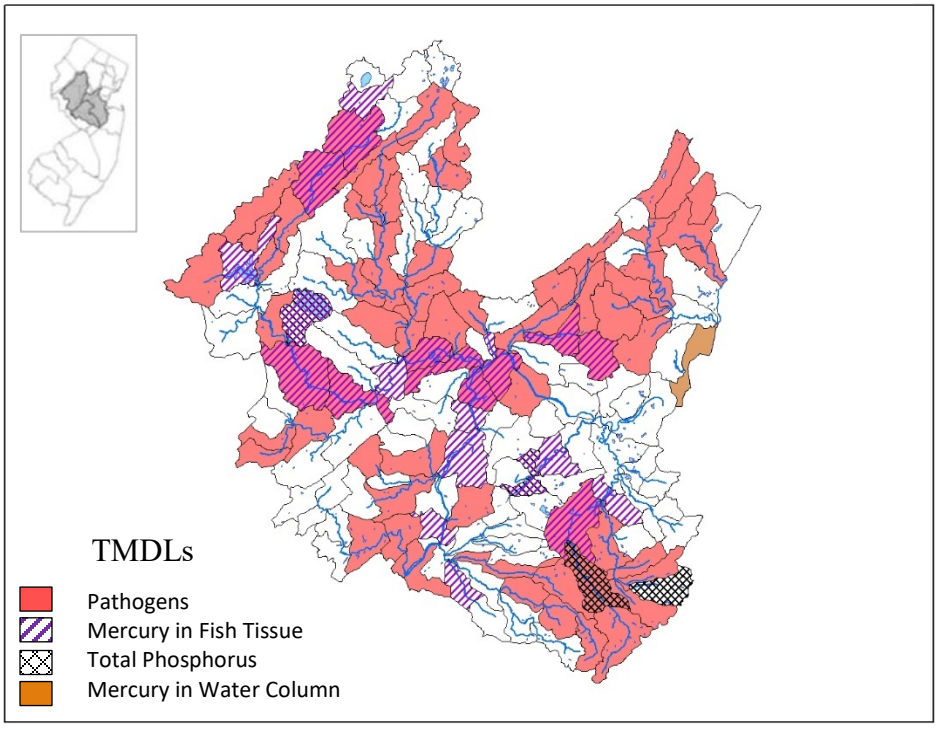


A TMDL implementation plan was developed to identify the suite of measures that are needed to reduce loads from each source to levels that will meet surface water quality standards. Regulatory measures typically include effluent limitations or additional measures that are incorporated into wastewater or stormwater permits issued pursuant to the New Jersey Pollutant Discharge Elimination System (NJPDES). The Raritan TMDL affects 45 wastewater treatment plants (WWTPs) located in the study area. The WWTPs are subject to TMDL specified TP and/or TSS restrictions. Total phosphorus limitation will be required for 38 WWTPs. The current condition in the watershed area

was calculated to equal 456.9 kilograms/day (kg/d) of TP and 61,266 kg/d of TSS. The TMDL condition would reduce the pollutant load to 243.4 kg/d of TP and 38,641 kg/d of TSS. Through these collective actions and continued dedication of local stakeholders, the Department expects to achieve the reduced loading from regulated stormwater and NPS needed to attain water quality standards.

Other TMDLS

Figure 3.22: Other TMDLs Approved in Raritan Water Region



Previous to the Raritan TMDL, the Department completed 104 TMDLs addressing pathogens for recreational use, total phosphorus for aquatic life use, and mercury in fish tissue and mercury in the water column for fish consumption. These TMDLs located throughout the region are depicted in Figure 3.22. The majority of TMDLs address pathogens that covers 72 AUs followed by mercury in fish tissue with 25 AUs, total phosphorus with four AUs and mercury in fish tissue in one AU. Additional information on these AUs and the Raritan TMDL can be found on the website: https://www.state.nj.us/dep/wms/bears/tmdls.html.

Raritan Protection Plan

As the first state in the nation to develop and receive EPA acknowledgement for a watershed protection plan, the *Non-tidal Raritan River Watershed Protection Plan (WPP)* brings together the many ongoing and newest water quality restoration actions being implemented in the Raritan to protect unimpaired waters while restoring impaired waters in this watershed. The WPP is based on the data and modeling results generated for the *Total Maximum Daily Load Report for the Non-Tidal Raritan River Basin*. Assessment units covered by this protection plan include those that attain the SWQS for total phosphorus and/or total suspended solids on the 2014 Integrated List and are within the area covered by the non-tidal Raritan River TMDL study. A total of 90 separate AU/parameter combinations in 66 separate AUs are identified for protection through the WPP with 36 AUs protected for TSS; six for TP and 24 for both TSS and TP.

The WPP reflects a watershed approach that is based on the implementation of the Raritan TMDL which will provide a benefit to unimpaired HUCs within the watershed. Furthermore, a full

complement of regulations, funding, and stewardship partnerships implemented through regulatory and nonregulatory approaches are key to protect and restore water quality. In order to ensure future water quality protection and restoration, the continuation of nonpoint source restoration projects, water quality monitoring, and stakeholder involvement are essential for the success of the plan. Restoration efforts to date have helped improve water quality in the region resulting in delisting five AU/parameter combinations that were previously on the 303(d) list of impaired waterbodies. The WPP aims to expand upon these positive results and achieve the Department's goal of restoration, maintenance and preservation of water quality in the Raritan River watershed.

Figure 3.23A: Area Eligible for Total Phosphorus Protection Plan

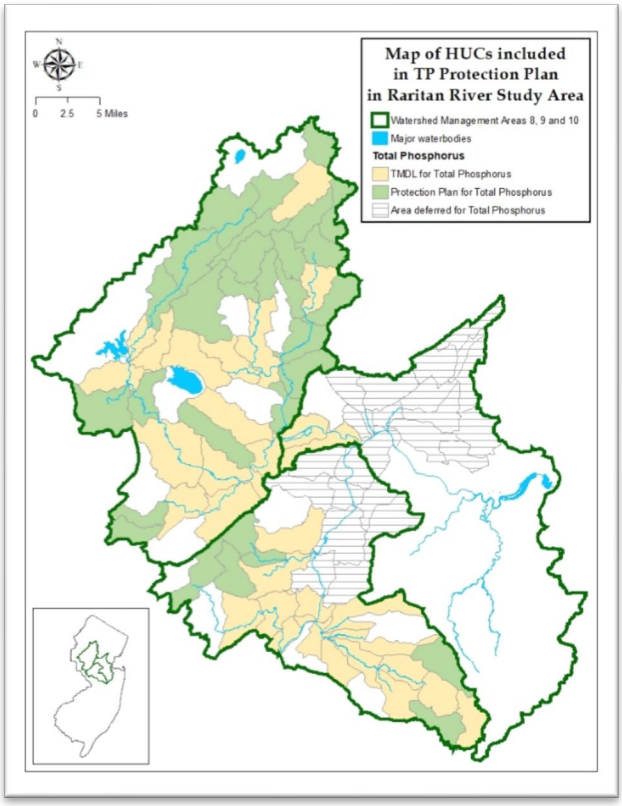
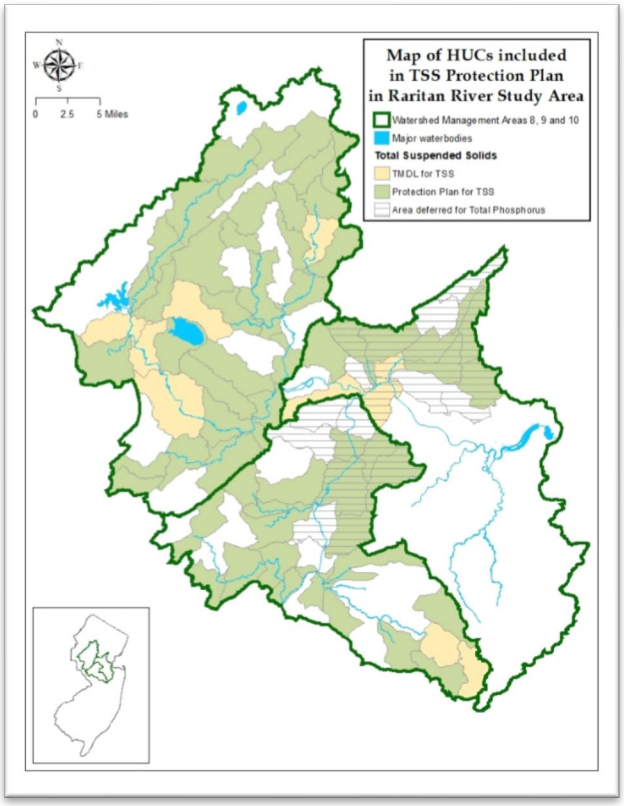


Figure 3.23B Area Eligible for Total Suspended Solids Protection Plan



Nonpoint Restoration Activities

Addressing nonpoint sources is a critical piece in the restoration efforts in the region. Many of the waters placed on the 303(d) List are impaired primarily by nonpoint sources of pollution and regulated stormwater sources. For these impairments, development of a watershed restoration plan or watershed based plan (WBP) can be an effective alternative to a formal TMDL to characterize pollutant sources, the reductions needed to attain standards, and the means to achieve the reductions. When adopted as an amendment under the Water Quality Management Planning rules, a WBP can be implemented using measures such as those that would appear in a TMDL implementation plan (refer to N.J.A.C. 7:15-5.25(g)). The Department is pursuing this approach for

303(d) Listed waters where stormwater and nonpoint sources of pollution are believed to be the predominant source of water quality impairment.

Previous Department funding prioritized the development of 9-element WBPs in accordance with EPA guidance. As a result, the Department has approved WBPs in locations throughout the State including seven WBPs covering 13 AUs in the Raritan Water Region. A WBP identifies strategies to reduce the loads of pollutants of concern to attain Surface Water Quality Standards. Implementation of these WBPs is expected to improve water quality without the need for a TMDL. The WBP load reduction measures depend largely on actions that could be accomplished using 319(h), Farm Bill and other funding sources and stewardship activities. Therefore, in locations where the sources are nonpoint or stormwater in nature and non-regulatory measures are the primary means available to reduce the loads, the Department will opt to pursue restoration and stewardship building actions directly as the preferred path to reduce loads and attain water quality standards. Additional information regarding developing a nine-element watershed based plan is available from USEPA's Handbook for Developing Watershed Plans to Restore and Protect Our Waters at the website https://www.epa.gov/sites/production/files/2015-09/documents/2008_04_18_nps_watershed_handbook_handbook-2.pdf.

Because nonpoint source pollution diffuses throughout a watershed controlling it is most effective at the source is diffuse, control is most effective at the source. Source control strategies prevent the introduction of pollutants to the environment as well as utilizes natural systems to filter pollutants in the watershed. Strategies include those that resolve existing and past practices, and those that ensure best management practices are applied from the outset. New Jersey's strategies include regulatory, non-regulatory and targeted funding components to address NPS pollution. These strategies include: NJ Fertilizer Law, NJ Stormwater Management Rule, Coastal Zone Management Rules, NJ Flood Hazard Areas Control Act Rule, Water Quality Management Planning Rules, Long Term Control Plans for CSOs, Low Impact Development, NJ Pollutant Discharge Elimination System Rules, Animal Waste Management, contamination remediation, green infrastructure measures, and restoration activities.

Water quality restoration grants are awarded by the Department to fund watershed restoration activities and initiatives that address nonpoint source pollution. Funding sources include USEPA pass-through grants issued under Section 319(h) of the federal Clean Water Act (CWA), Natural Resource Damages (NRD) recoveries, Corporate Business Tax (CBT) funds as well as other federal and State funds that may be available for NPS-related water quality restoration activities. Generally, grants are focused on restoring priority water bodies impaired predominantly by nonpoint source pollution where the grant will help implement an approved TMDL or WBP.

Since 1998, the Department has funded over 65 nonpoint source restoration projects in the region totaling over $11 million. These projects have included WPB development, streambank restoration, riparian buffer restoration, lake restoration, livestock control, stormwater controls including detention basin retrofits, agricultural and urban green infrastructure, impervious surface, and manufactured treatment devices. Recent efforts to prioritize restoration efforts in the Raritan Water Region has resulted in $7.6 million for new projects since 2015 (see Table 3.4).

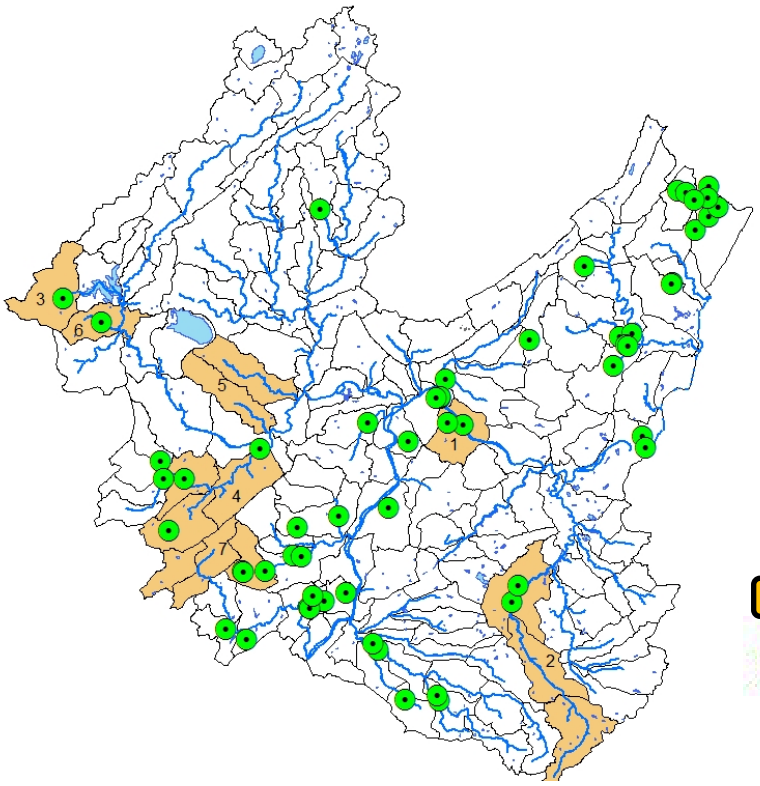
Table 3.4. Recent NJDEP Funded Nonpoint Restoration Projects in the Raritan Water Region 2015-2017.

Project Name	Funding	Waterbody	Parameters Addressed	Project Description	Year
Implementation of the Raritan River TMDL	$700,000	Raritan River (North, South, Lower); 69 HUC's in 54 Municipalities	Pathogens, TSS, nutrients and floatables	Install green infrastructure in 54 municipalities via plans developed from Sandy NFWF DOI grant	2015
Implementation of Agricultural and Other BMPs in the Neshanic Watershed	$1,295,000	Neshanic River	Phosphorus, TSS	Continue the implementation and construction of agricultural and stormwater BMPs	2016
Continue to Implement Manalapan WBP	$450,000	Manalapan Brook	TP	Design and construction of a roadside WQ swale, covert dry stormwater basin to wetland basin, treatment train at Thompson Park zoo	2017
Restoration of Beden Brook	$400,000	Beden Brook/Raritan	TSS, TP	Implementation of various GI stormwater BMP's in 4 locations in the Borough of Hopewell	2017
Implementation of Green Infrastructure on Brownfield site in Perth Amboy	$4,000,000	Raritan River/Bay	CSO discharge reduction	Implementation of GI on Brownfield site in Perth Amboy	2017
Raritan Agriculture Mini-Grants	$145,000	Mulhockaway Creek, Sidney Brook, Neshanic, Raritan	TSS, TP, Pathogens	Implementation of an agricultural mini-grant program in the Raritan Basin	2017
Stormwater Basin Retrofits Phase 1 in Franklin Twp.	$600,000	D&R Canal/Raritan River	TSS, TP	Implementation of 5 stormwater basin retrofits at the municipal complex, Laird Terrace, Renoir Way, Gauguin Way and Dell Lane, riparian buffer at Cedar Grove Brook	2017

A number of other organizations also are involved in restoration work in the Raritan Region who have collectively implemented over 70 water quality restoration and protection projects. These projects have included dam removal, floodplain property acquisition, reforestation, wetland restoration water gardens, rain barrels, as well as the nonpoint source projects listed previously. Additionally, between 2007 and 2016, the Natural Resources Conservation Service (NRCS) conducted numerous projects that account for over 6,660 (primarily agricultural) BMP practices in the Raritan basin.[21] The NRCS is the primary source of assistance for landowners in the development of resource management pertaining to soil conservation, water quality improvement, wildlife habitat enhancement, and irrigation water management. The USDA Farm Services Agency performs most of the funding assistance.

Figure 3.24: Nine-Element Watershed Plans and NJDEP Funded Nonpoint Restoration Projects (1998-2017)

[21] Rutgers University. Draft State of the Raritan Report Volume 2. December 2018. Available at http://raritan.rutgers.edu/2016-state-of-the-raritan-report/



Nine-Element Watershed Plans:

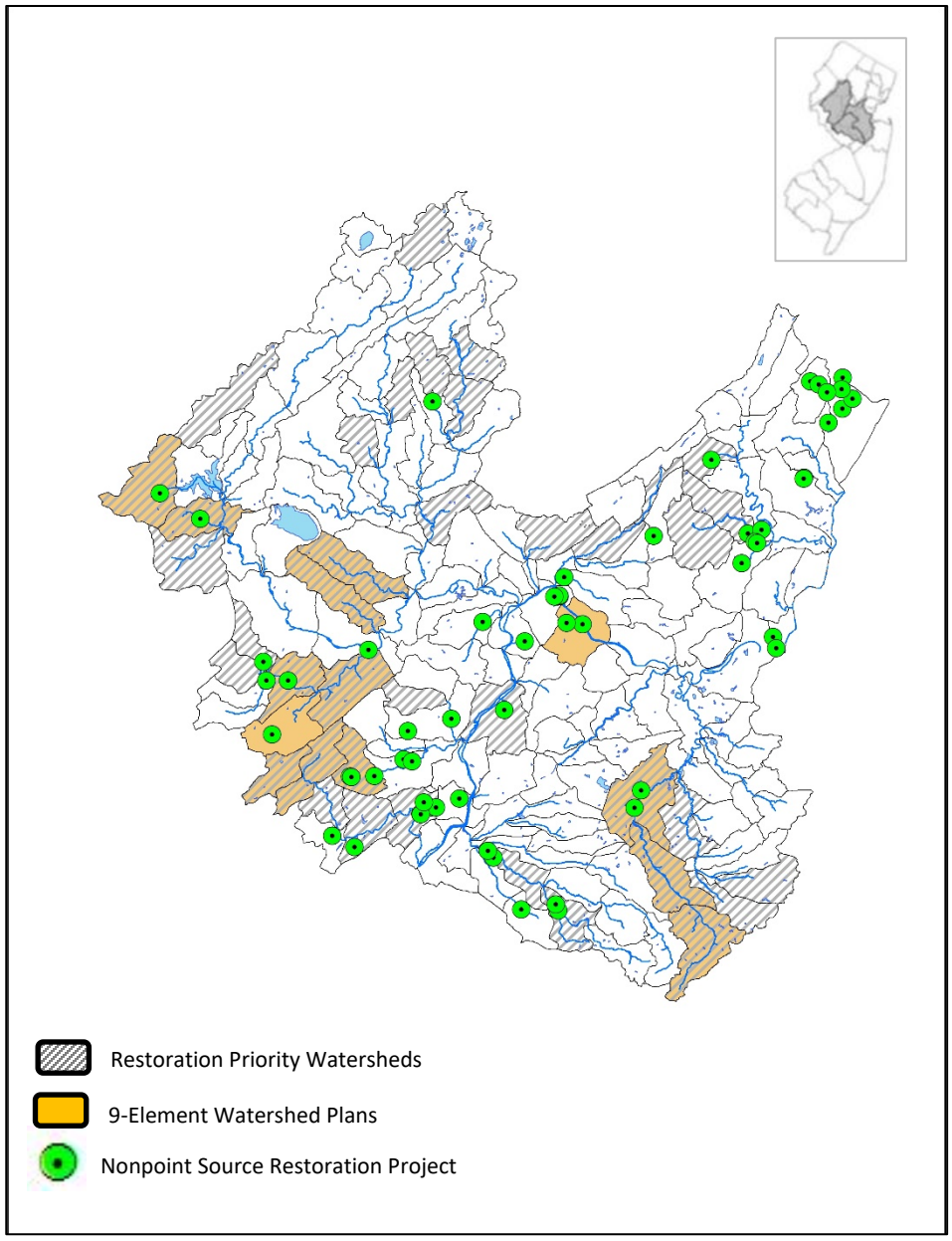
1. Cedar Grove Brook Watershed Plan
2. Manalapan Watershed Restoration Plan
3. Mulhockaway Creek Watershed Restoration Plan
4. Neshanic River Watershed Restoration Plan
5. Pleasant Run and Holland Brook Watershed Restoration Plan
6. Sidney Brook Watershed Plan
7. Sourland Mountain Watershed Plan

Identifying and prioritizing future restoration activities

In the effort to optimize resources for restoration efforts, the Department has initiated actions that identify and prioritize future nonpoint restoration efforts at a regional level. The goal of this effort is to maximize the utilization of restoration funding by identifying AUs that show the best potential for improving water quality, identifying areas within the AU that will have the most impact on water quality, and prioritizing these efforts. Initial efforts resulted in the development of WBPs including the seven in the Raritan Water Region that cover 17 AUs. These WBPs have identified management actions needed for nonpoint load reductions in the critical areas of the watershed. Developing plans to restore and protect the remaining AUs in the region is an immense challenge that requires scientific based planning to identify required nonpoint management actions and prioritizing them. Developing WBPs for all AUs is an arduous task that is not a realistic near-term possibility, therefore, other

methods must be developed to identify and prioritize the best candidates for nonpoint restoration efforts.

Figure 3.25: Raritan Water Region Restoration Priority Watersheds



The Department has initiated processes to identify and prioritize AUs for nonpoint restoration by developing a protocol to be used during the regional comprehensive assessment by characterizing water quality data, determining trends, identifying sources and causes, locating restoration efforts, identifying preserved and open space, and verifying nearby water quality impacts. Water quality and biological data are reviewed to identify AUs "on the bubble" which are waterbodies that are close to be fully attaining its water quality criteria by verifying improving trends, determining the magnitude and frequency of exceedances of the criteria, habitat conditions, and identifying recent delistings from the 303(d) List. These results along with other non-water quality data such as restoration projects, land use, impervious surface, preserved open space, point source dischargers, contamination sites, habitat conditions, landfills, stormwater basins, and dams were analyzed to select AUs that showed where nonpoint source projects could in a reasonable time, at a reasonable cost and addressing a reasonable number of sources and causes could achieve water quality improvements at an AU level.

For the Raritan Water Region, 39 AUs were selected encompassing all four watershed management areas where AUs show the best potential in achieving water quality improvements to restore designated uses. A significant number of headwaters and tributaries were selected. These waters were characterized by water quality data near or trending toward the criteria, healthy biological

communities nearby, watersheds with a limited number of sources and causes, sufficient undeveloped land use, and intact or limited development in the riparian zones. It is expected that restoration efforts with achievable scopes and funding can make the changes needed in the watershed to restore water quality not only in the headwaters and tributaries but as a collective effort downstream in the larger rivers.

Table 3.5: Raritan Water Region Restoration Priority Watershed List

WMA	Waterbody	Name	Impaired Pollutants
07	02030104050050-01	Nomahegan Brook	TP, Macroinvertebrate IBI
07	02030104050070-01	Robinsons Br Rahway R (above Lake Ave)	TP, Macroinvertebrate IBI, E. coli
07	02030104050080-01	Robinsons Br Rahway R (below Lake Ave)	TP, Macroinvertebrate IBI, E. coli
08	02030105020060-01	Cakepoulin Creek	pH
08	02030105050060-01	Cold Brook	Macroinvertebrate IBI
08	02030105010010-01	Drakes Brook (above Eyland Ave)	TP, DO, Temperature, Fish IBI,
08	02030105030010-01	First Neshanic River	Macroinvertebrate
08	02030105040030-01	Holland Brook	TP, pH
08	02030105020030-01	Mulhockaway Creek	DO, Temperature
08	02030105030070-01	Neshanic River (below Black Brk)	TP, Macroinvertebrate IBI, E. coli
08	02030105030060-01	Neshanic River (below FNR/SNR confl)	TP, DO, pH, Turbidity, Macroinvertebrate IBI, E. coli
08	02030105060050-01	Peapack Brook (above/incl Gladstone Bk)	Macroinvertebrate IBI
08	02030105040020-01	Pleasant Run	Macroinvertebrate IBI, E. coli
08	02030105050050-01	Pottersville trib (Lamington River)	Temperature, E. coli
08	02030105060030-01	Raritan R NB (incl McVickers to India Bk)	DO, Temperature
08	02030105060040-01	Raritan R NB (Peapack Bk to McVickers Bk)	TSS
08	02030105070010-01	Raritan R NB (Rt 28 to Lamington R)	E. coli
08	02030105020070-01	Raritan R SB (River Rd to Spruce Run)	TP, TSS
08	02030105030020-01	Second Neshanic River	TP, pH, Macroinvertebrate IBI, E. coli
08	02030105020010-01	Spruce Run (above Glen Gardner)	Temperature, E. coli
09	02030105120040-01	Green Bk (Bound Bk to N Plainfield gage)	Macroinvertebrate IBI, pH, Fish IBI, E. coli
WMA	**Waterbody**	**Name**	**Impaired Pollutants**
09	02030105120020-01	Green Bk (N Plainfield gage to Blue Bk)	Macroinvertebrate IBI, pH, TDS

09	02030105140010-01	Manalapan Brook (above 40d 16m 15s)	E. coli
09	02030105140030-01	Manalapan Brook (below Lake Manalapan)	E. coli
09	02030105140020-01	Manalapan Brook (incl LkManlpn to 40d16m15s)	TP, E. coli
09	02030105150060-01	Matchaponix Brook (below Pine Brook)	TP, DO, Nitrate, Macroinvertebrate IBI
09	02030105150020-01	McGellairds Brook (above Taylors Mills)	TP, Macroinvertebrate IBI
09	02030105120050-01	Middle Brook EB	Macroinvertebrate IBI, DO, TDS
09	02030105150010-01	Weamaconk Creek	TP, DO, TSS, Macroinvertebrate IBI
10	02030105110040-01	Beden Brook (above Province Line Rd)	TP, E. coli
10	02030105110090-01	Cruser Brook / Roaring Brook	Macroinvertebrate IBI, E. coli
10	02030105100060-01	Millstone R (Cranbury Bk to Rocky Bk)	TP, DO, Macroinvertebrate IBI
10	02030105110110-01	Millstone R (BlackwellsMills to BedenBk)	TP, Macroinvertebrate IBI
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	TP, DO, Macroinvertebrate IBI, E. coli
10	02030105090020-01	Stony Bk (74d 48m 10s to 74d 49m 15s)	DO, Macroinvertebrate IBI
10	02030105090010-01	Stony Bk (above 74d 49m 15s)	TP, Macroinvertebrate IBI, E. coli
10	02030105090030-01	Stony Bk (Baldwins Ck to 74d 48m 10s)	E. coli
10	02030105090070-01	Stony Bk (Province Line Rd to 74d46m dam)	TP, E. coli
10	02030105090050-01	Stony Bk (Rt 206 to Province Line Rd)	TP, E. coli

In addition to the comprehensive assessment process, the Department is working on incorporating two EPA tools, the Recovery Potential Screening (RPS) and Watershed Resource Registration (WRR), to improve the selection and prioritization for nonpoint restoration and protection actions. These tools offer flexible, user friendly, technical based, and rapid watershed assessments to identify and prioritize watersheds for restoration and protection. The RPS is an Excel-based tool that provides an approach for comparing watersheds, their conditions and how well they may respond to management efforts. RPS incorporates ecological, stressor, and social indicators to calculate index values at the AU level which can be used to identify watersheds that show the best potential for restoration and protection success. Additional information on RPS is located at the EPA website https://www.epa.gov/rps/overview-recovery-potential-screening-rps. The WRR is an interactive GIS-based tool that also incorporates ecological, social, economic, and stressor data to select and prioritize areas within AUs for protection and restoration. WRR integrates data from regulatory and non-regulatory programs to guide management actions in a transparent, scientific-based method which maximizes watershed benefits and conserves program resources. The Department is working with EPA in creating the tool for New Jersey and has included other federal, state and local agencies in its development. Additional information on the WRR is located at the website https://watershedresourcesregistry.org/.

Chapter 4: Special State Concerns and Recommendations

4.1 - Chlorides and Total Dissolved Solids

Long term water quality monitoring data show national and state trends of increasing Total Dissolved Solids (TDS) and dissolved chloride concentrations in surface water. Elevated TDS and chloride directly impact aquatic life (including macroinvertebrates, fish and amphibians) and human health, while chloride can also indirectly affect human health by increasing corrosivity and the potential for increased dissolved metals in drinking water.

USGS (Mullaney et al, 2009) [22] conducted a study of chloride in ground water and surface water by analyzing data collected from 1991-2004 in the northern United States. Surface water quality data from 15 of 100 sites, collected primarily in winter, had chloride concentrations higher than the U.S. Environmental Protection Agency (USEPA) recommended aquatic life chronic criterion of 230 mg/L. Upward trends in chloride loads were apparent in several urban basins. Sources of the increased chloride include increases in paved areas and the subsequent road salt usage, increases in wastewater and septic system discharges, recycling of chloride from drinking water, and leachate from landfills and salt storage areas.

In a study of 30 monitoring stations in the northern U.S. by Corsi et al (2015)[23], concentrations of chloride increased substantially over time, with average concentrations approximately doubling from 1990-2011. Long term data showed increasing concentrations in all seasons in most streams, while maximum chloride concentrations occurred during the winter. This suggests that chloride was stored in the soil or shallow ground water system during the winter and gradually discharged in baseflow throughout the year. In addition, increasing chloride trends were observed in watersheds dominated by different land uses, although the magnitude of chloride concentrations, as well as the rate of increase, rose with the amount of impervious land cover in the watershed.

Robinson et al (1996)[24] evaluated water quality trends during water years 1975-1986 at 60 stream monitoring stations in New Jersey for statistical association with drainage basin characteristics, including dominant land use, population, wastewater discharges, road salting, fertilizer application, and estimates of soil erosion and irrigated land. Among the correlations observed in the study, it was found that upward trends in specific conductance, sodium and chloride were statistically associated

[22] Mullaney, J, Lorenz, D. and Arntson, A. 2009. Chloride in groundwater and surface water in areas underlain by the glacial aquifer system, northern United States. U.S. Geological Survey, Scientific Investigations Report 2009–5086. Available at https://pubs.usgs.gov/sir/2009/5086/

[23] Corsi, S., De Cicco, L., Lutz, M., Hirsch, R. 2015. River chloride trends in snow-affected urban watersheds: increasing concentrations outpace urban growth rate and are common among all seasons. Science of The Total Environment Volume 508, 1 March 2015, Pages 488-497. Available at https://doi.org/10.1016/j.scitotenv.2014.12.012

[24] Robinson, K., Lazaro, T., Pak, C. 1996. Associations Between Water-Quality Trends in New Jersey Streams and Drainage-Basin Characteristics, 1975-86. U.S. Geological Survey, Water-Resources Investigations Report 96-4119. Available at http://pubs.usgs.gov/wri/1996/4119/report.pdf

with the amount of road salt applications. In addition, drainage basin size was correlated with upward trends in specific conductance and dissolved chloride, which corresponds with the conservative behavior of chloride in streams that results in larger concentrations in a downstream direction. While wastewater discharges and fertilizer use are also sources of ions, the increased use of road salt during the study period suggests that road salting appears to be a significant source of these dissolved ions.

Hickman and Gray (2010)[25] evaluated water quality trends at 70 long-term monitoring sites on New Jersey streams over a ten-year period (1998-2007). Using a statistical method that corrected for flow variation over time, increasing trends in TDS were identified at 24 stations throughout the water regions of the state, while no stations had decreasing TDS trends. When compared to two previous studies that used the same methods, trends of increasing concentrations of TDS were exhibited in 24% of the stations analyzed during water years 1980-1986 (Hay and Campbell, 1990)[26], 26% of the stations analyzed during water years 1986-1995 (Hickman and Barringer, 1999)[27], and 34% of stations analyzed during water years 1998-2007 (Hickman and Gray, 2010).

In a study by Hickman and Hirsh (2017)[28], trend tests were conducted for water years 1980–2011 using two methods to identify trends: Weighted Regressions on Time, Discharge, and Season (WRTDS) models and seasonal rank-sum tests. Results showed upward trends using one or both statistical methods for all 4 stations evaluated for specific conductance, chloride and TDS.

In contrast to the aforementioned studies, Heckathorn and Deetz (2012)[29] used a randomly selected probabilistic network of over 370 sites in New Jersey to evaluate statewide trends rather than trends by individual stations. The Heckathorn and Deetz study represents the USGS' most recent analysis of statewide water quality trends for New Jersey. The report statistically evaluated year-round data from 1998-2009 of TDS as well as January to March concentrations of dissolved chloride, when road salt application is likely to occur. The analysis showed median concentrations of TDS and chlorides increased statewide during the assessment period, while background stations (relatively unaffected by human activity) exhibited no significant variations of median concentrations during the study period.

Sources

[25] Hickman, R. and Gray, B. 2010. Trends in the Quality of Water in New Jersey Streams, Water Years 1998-2007. U.S. Geological Survey, Scientific Investigations Report 2010-5088. Available at http://pubs.usgs.gov/sir/2010/5088/

[26] Hay, L. and Campbell, J. 1990. Water-Quality Trends in New Jersey Streams. U.S. Geological Survey, Water-Resources Investigations Report 90-4046. Available at http://pubs.usgs.gov/wri/1990/4046/report.pdf

[27] Hickman, R. and Barringer, T. 1999. Trends in Water Quality of New Jersey Streams, Water Years 1986-95. U.S. Geological Survey, Water-Resources Investigations Report 98-4204. Available at https://pubs.usgs.gov/wri/wri98-4204/

[28] Hickman, R. and Hirsch, R. 2017. Trends in the Quality of Water in New Jersey Streams, Water Years 1971–2011. U.S. Geological Survey, Scientific Investigations Report 2016–5176. Prepared in cooperation with the NJDEP and the Delaware River Basin Commission. Available at https://pubs.er.usgs.gov/publication/sir20165176

[29] Heckathorn, H. and Deetz, A. 2012. Variations in Statewide Water Quality of New Jersey, Water Years 1998-2009. U.S. Geological Survey, Scientific Investigations Report 2012-5047. Available at http://pubs.usgs.gov/sir/2012/5047/

TDS and chloride increases have been associated with runoff from urban and agricultural areas, especially runoff of salt used to control ice on roadways, as well as discharges from wastewater treatment facilities and septic systems. Winter storm-related data supports a correlation between road salting and increased TDS and chloride levels in the water column. These growing trends correspond to the rising use of salt for road deicing in the United States, which has increased from about 8 million metric tons in 1975 to 22 million metric tons in 2017[30, 31].

A USEPA review of "Environmental Effects from Deicing Compounds" (1973[32]) summarized studies that measured chlorides ranging from 1,130 to 25,100 mg/L in highway snowmelt runoff, while studies of stream water quality in winter showed frequent chloride concentrations over 2,000 mg/L.

A 1988 USGS study (Harned, 1988[33]) that measured contaminants from highway runoff found that specific conductance and chloride (as well as alkalinity, calcium, sodium, and metals) were greater at the highway stations than in the undeveloped basins. Concentrations of these pollutants was highest during the winter months. It was estimated that highway deicing and sanding supplied 67% of the annual TDS loads from highway runoff.

The "National Management Measures Guidance to Control Nonpoint Source Pollution from Urban Areas" (USEPA, 2005[34]), identified deicing salts as the primary source of chloride from highway runoff. Studies of snowmelt revealed that chloride, conductivity and TDS increased rapidly in highway runoff because of initial deicing salt applications at each site. Conductivity trends were strongly correlated with chloride trends. In addition, concentrations of metals in highway snowmelt (lead, copper, cadmium, zinc, and cyanide) were orders of magnitude higher than those measured in the control site.

NJDEP Analysis of TDS and Chloride Trends

Data from the Department's year-round Ambient Surface Water Quality Monitoring Network (ASWQM) show increasing trends in median concentrations of dissolved chloride (Figure 4.1) and TDS (Figure 4.2). There is also evidence that the number of samples which exceed New Jersey's

[30] U.S. Geological Survey. 2003. "Salt end-use statistics through 2003"; last modified September 15, 2005, *in* Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States (2016 version). U.S. Geological Survey Data Series 140, accessed 5/2/2018. Available at https://minerals.usgs.gov/minerals/pubs/historical-statistics/

[31] U.S. Geological Survey. 2018. Mineral Commodity Summaries, Salt. Available at https://minerals.usgs.gov/minerals/pubs/commodity/salt/

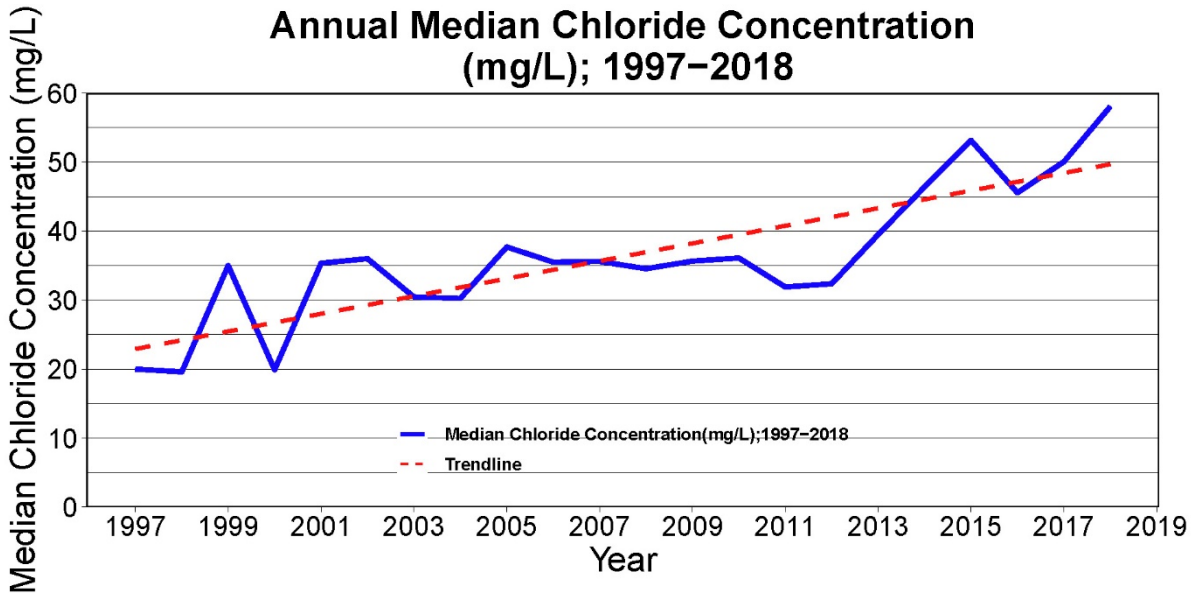
[32] U.S. Environmental Protection Agency. May 1973. Water Pollution and Associated Effects of Street Salting, USEPA, EPA-R2-73-257. Available at https://nepis.epa.gov/

[33] Harned, D. 1988. Effects of highway runoff on streamflow and water quality in the Sevenmile Creek basin, a rural area in the Piedmont Province of North Carolina, July 1981 to July 1982. U.S. Geological Survey Water-Supply Paper 2329. Available at https://pubs.er.usgs.gov/publication/wsp2329

[34] U.S. Environmental Protection Agency. 2005. National Management Measures Guidance to Control Nonpoint Source Pollution from Urban Areas. EPA-841-B-05-004. Available at https://www.epa.gov/nps/urban-runoff-national-management-measures

surface water quality standards (SWQS) (N.J.A.C. 7:9B[35]) for chloride (Figure 4.3) and TDS (Figure 4.4) is increasing. Most of the increases (69% of TDS samples over 500 mg/L and 85% of chloride samples over 230 mg/L) are associated with cold weather months (November through April). This agrees with the results observed in the studies discussed above and corroborates both the measured increasing trends in TDS and chloride and the role of road salt application in these impacts to New Jersey's streams.

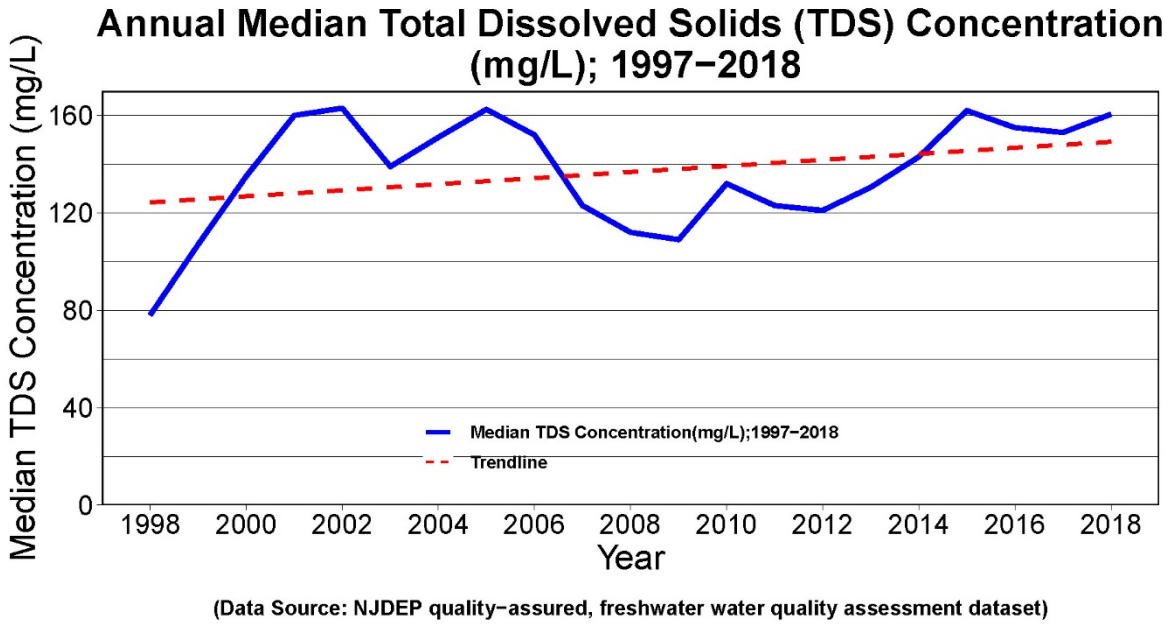
Figure 4.1: Statewide Annual Median Chloride Concentration from 1997 to 2018



(Data Source: NJDEP quality−assured, freshwater water quality assessment dataset)

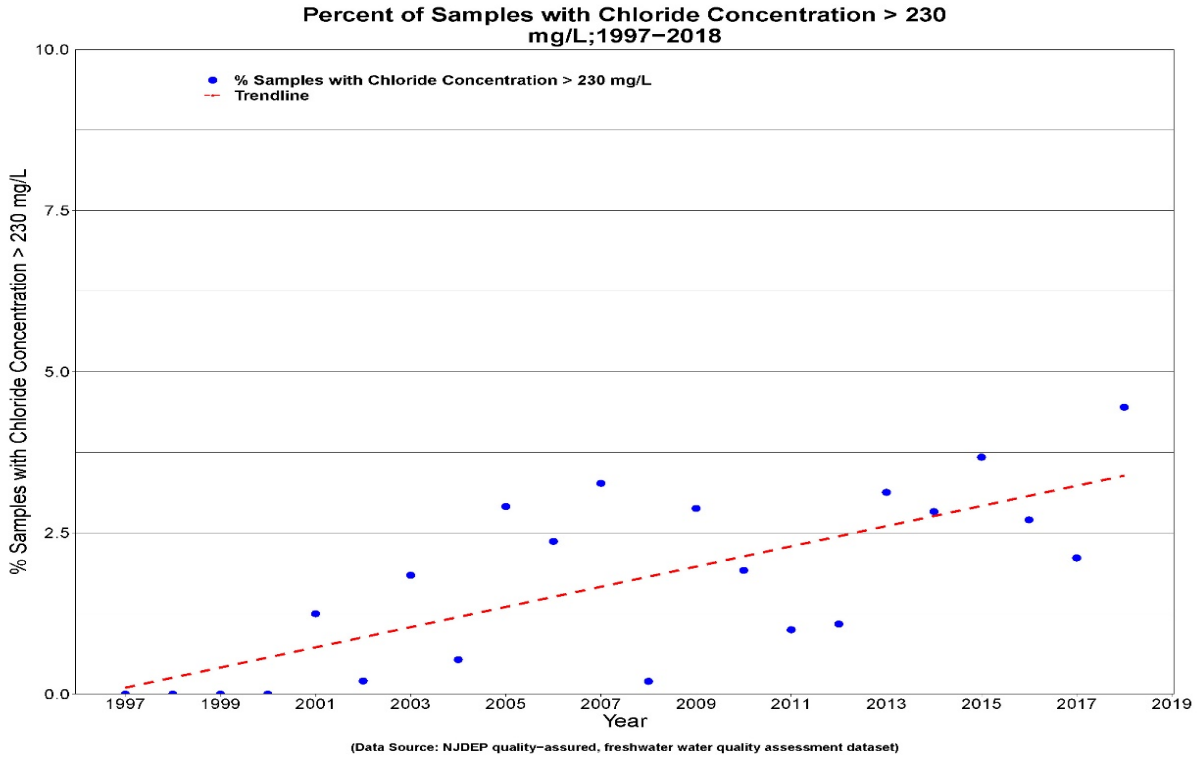
[35] New Jersey's Surface Water Quality Standards (SWQS) for TDS is 500 mg/L or no adverse effects on the aquatic biota, whichever is more stringent. The SWQS for chloride in fresh waters is 860 mg/L (acute) and 230 mg/L (chronic) for aquatic life and 250 mg/L for human health.

Figure 4.2: Statewide Annual Median Total Dissolved Solids Concentration from 1997 to 2018



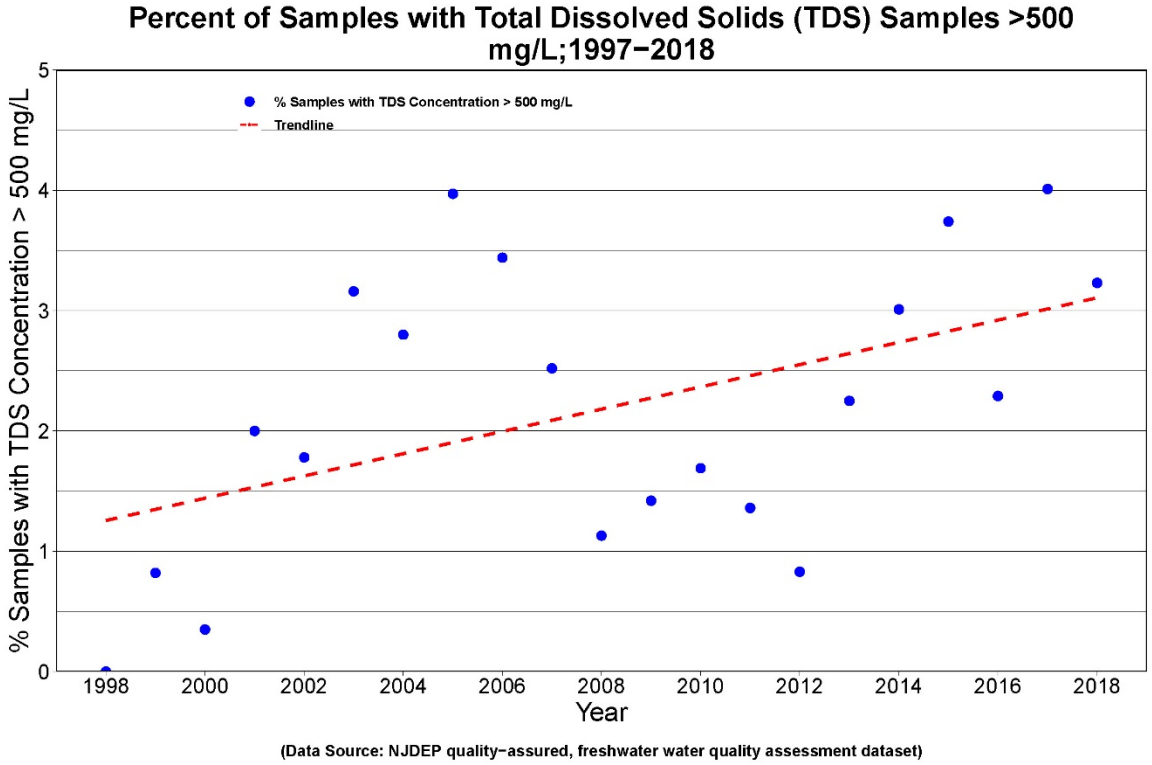
(Data Source: NJDEP quality−assured, freshwater water quality assessment dataset)

Figure 4.3: Statewide Percent of Chloride Samples over 230 mg/L from 1997 to 2018



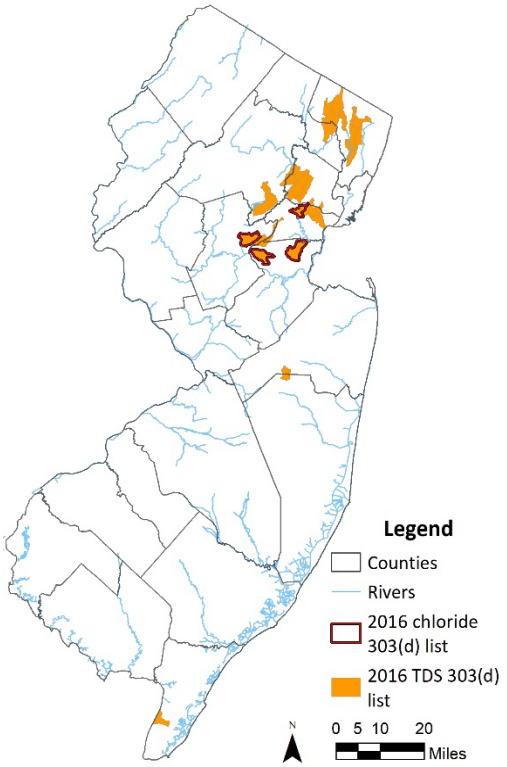
(Data Source: NJDEP quality−assured, freshwater water quality assessment dataset)

Figure 4.4: Statewide Percent of TDS Samples over 500 mg/L from 1997 to 2018



(Data Source: NJDEP quality−assured, freshwater water quality assessment dataset)

Figure 4.5: Assessment Units Impaired for Total Dissolved Solids on the 2016 303(d) List



The data reviewed to develop this Integrated Report identified 20 assessment units with use impairments due to exceedances of SWQS for TDS (Figure 4.5) as well as a number of assessment units with high maximum TDS values, but that are not impaired. The number of chloride exceedances remains relatively low and none resulted in use impairments (Figure 4.5). The increasing TDS trends were found in all types of land uses (urban, agricultural, mixed, and undeveloped) and physiographic regions.

NJDEP Continuous Specific Conductivity Monitoring Project

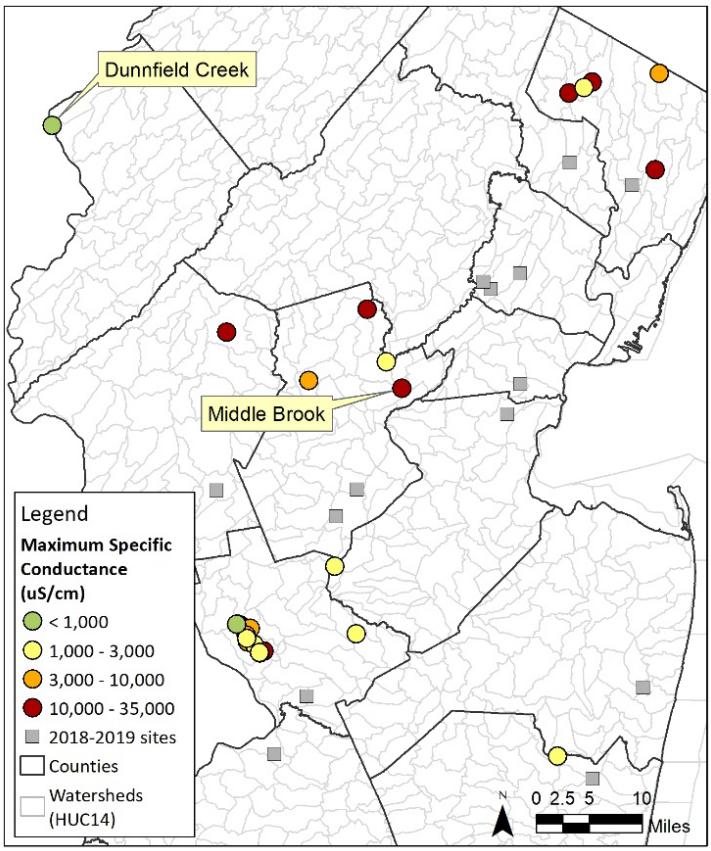
More data is needed to quantify the duration and maximum values of the elevated levels in TDS and chloride and to identify the significance of road salt in the observed trends. Specific conductance (which correlates with the sum of dissolved major ion concentrations in water) is related to TDS and chloride.[36] Specific conductance is often used as a surrogate measurement of TDS and chloride because it is easily and accurately measured in the field and supplements laboratory analytical determination of major ions, such as chloride.[37]

Beginning in 2011, NJDEP (BFBM) deployed continuous specific conductance data loggers in a total of 41 non-tidal freshwater streams with varying levels of urbanization (Figure 4.6). During winter 2011-2012, data were collected at 5 sites, and during winter 2013-2014 data were collected at 7 sites. The project was expanded in 2016-2017 to monitor year-round at 15 sites, which included an intensive study of 11 sites in Shabakunk Creek. Fourteen sites are currently being monitored.

[36] Granato, G. and Smith, K. 1999. Estimating Concentrations of Road-Salt Constituents in Highway-Runoff from Measurements of Specific Conductance. U.S. Geological Survey, Water Resources Investigation Report 99-4077. Available at https://pubs.er.usgs.gov/publication/wri994077

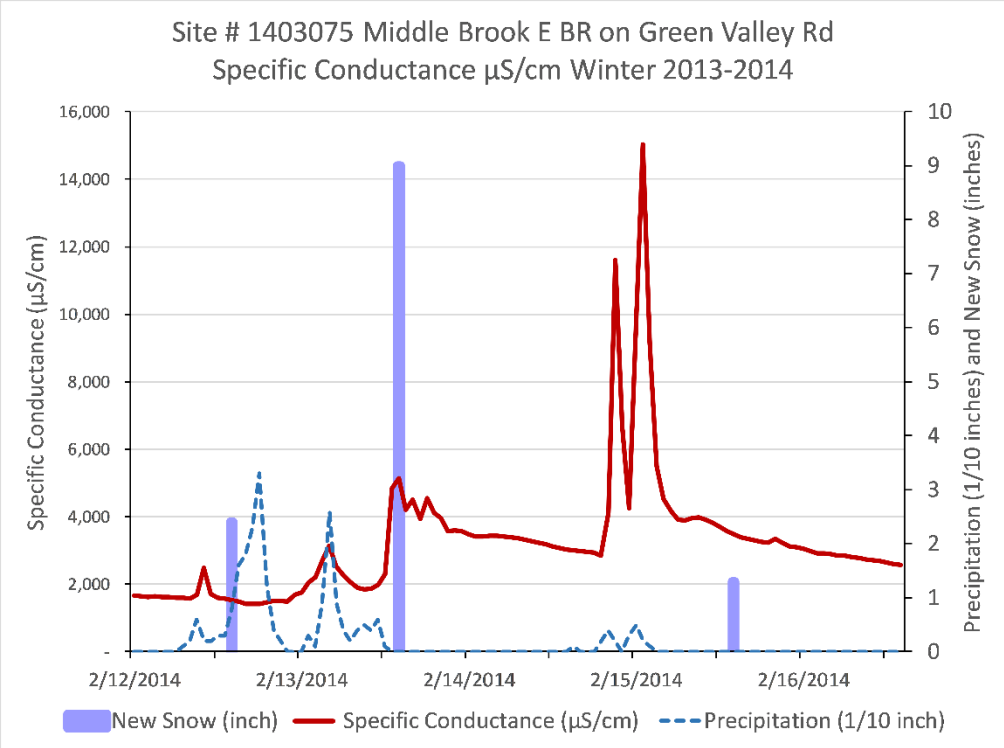
[37] Miller, R. Bradford, W. and Peters, N. 1988. Specific Conductance: Theoretical Considerations and Application to Analytical Quality Control. U.S. Geological Survey Water-Supply Paper 2311. Available at https://pubs.usgs.gov/wsp/2311/report.pdf

Figure 4.6: Continuous Specific Conductance Maximum Values



Site-specific continuous specific conductance data were graphed with weather data. Continuous specific conductance data showed substantial increases with significant snowfall events, indicative of when road salt was applied. It's clear that typical discreet sampling cannot identify peak and duration of elevated chloride and TDS concentrations and that these elevated concentrations after winter precipitation events may be much higher than previously thought. Figure 4.7 shows one example of elevated specific conductance levels and how they are associated with precipitation events in winter months.

Figure 4.7: Example of Continuous Specific Conductance Compared to Winter Weather



Dunnfield Creek, the reference site for this project, exhibited negligible variability in specific conductance. This assessment unit is 87% forest and only 1% urban (2012 Land Use) with almost no roads. While Dunnfield Creek fluctuated only from 27 to 34 µS/cm, more urban watersheds varied up to 33,490 µS/cm. For the 27 sites completed, mean specific conductance ranged from 31 to 4,800 µS/cm. Medians ranged from 31 to 4,400 µS/cm. Maximum values varied from 34 to 33,600 µS/cm.

Management of Road Salt Impacts

The Department has developed required and recommended best management practices as part of its Municipal Stormwater Regulation Program[38] to reduce the use and impact of deicing materials. Additional guidance documents are available for highway agencies.[39,] In addition, the Department has a Snow Removal and Disposal Policy that prohibits the dumping of snow in waterbodies, wetlands, stormwater basins etc. except with an emergency permit from the Department.[40]

Correlations are being developed between specific conductance and grab samples analyzed for TDS and chloride and with land use and road characteristics. Road salt usage and loading trends are being compiled and other states' approaches to reduce road salt impacts are under review, including TMDLs

[38] NJDEP Municipal Stormwater Regulation Program. Available at https://www.nj.gov/dep/dwq/msrp_home.htm

[39] NJDEP Highway Agency Stormwater Guidance Document. August 2004. Available at https://www.nj.gov/dep/dwq/highway_guidance.htm

[40] NJDEP Emergency Snow Removal and Disposal Policy. December 2014. Available at https://www.state.nj.us/dep/dwq/pdf/snow_removal.pdf

and BMPs. These efforts will inform the Department's technical and implementation approach to address the increasing trends in TDS and chloride concentrations and surface water impairments.

4.2 - Cyanobacteria

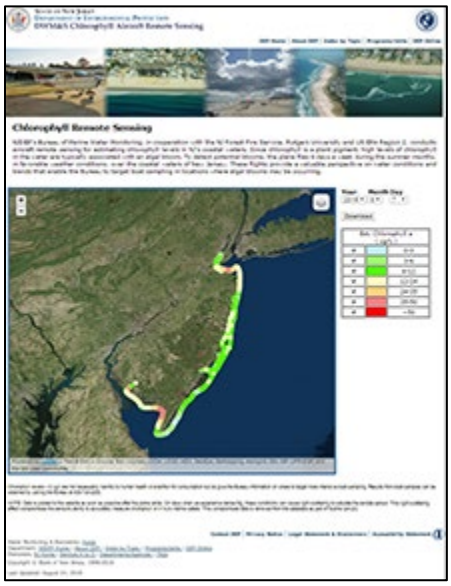
Cyanobacteria are a type of bacteria capable of photosynthesis. Although they are not true algae, they are often referred to as "blue-green algae". Cyanobacteria frequently impart off-tastes and odors to the water in which they grow, and sometimes they produce toxins that can be harmful to the health of humans and other animals. Although problems related to cyanobacteria most often occur in freshwaters (lakes and streams), cyanobacteria can also be found in marine waters.

A cyanobacterial Harmful Algal Bloom (HAB) is the name given to the excessive growth or "bloom" of cyanobacteria some of which can produce one or more types of potentially harmful toxins. HABs can occur under suitable environmental conditions of light, temperature, nutrients, and calm water. These "blooms" often result in a thick coating or "mat" on the surface of a waterbody, often in late-summer or early fall. A HAB can be dangerous to people, animals or the entire ecosystem. Some, but not all, HABs produce chemicals that can be toxic to humans and animals if ingested, inhaled, or if contacted by skin or mucous membranes. Low concentrations of cyanobacteria cells regardless of toxin production may cause allergenic and/or irritative effects.

There is limited information whether these toxins can accumulate in fish and shellfish. However, it is cautioned to not consume fish or shellfish when a HAB is present.

The Department has developed the capacity to perform enhanced monitoring and analysis of these toxins as well as response strategies for advisories and actions in both freshwater and marine water. For freshwater, the Department recently published the "New Jersey Cyanobacterial Harmful Algal Bloom (HAB) Response Strategy", https://www.state.nj.us/dep/wms/bfbm/download/NJHABResponseStrategy.pdf, that provides a statewide approach to responding to cyanobacterial HABs in freshwater recreational waters and sources of drinking water. The Response Strategy is designed to identify: entities responsible for response and actions; recreational risk thresholds; acceptable parameters and methods for assessing risk; appropriate monitoring and analysis for toxins; and recommended advisories and other appropriate communication mechanisms. The scope of the Response Strategy is for lakes, rivers, and streams with potential public access, recreational use, bathing beaches, and sources of drinking water. In 2018, the Department received 32 reports of HAB freshwater events located mostly in northern and central areas of the state. Of these incidents, 63% were confirmed to have cyanobacteria present, while 37% confirmed no cyanobacteria. Where HABs were confirmed, advisories were posted at recreational areas, bathing beaches closed, and/or drinking water purveyors were notified per Strategy guidelines.

Direct drinking water concerns are addressed in the Department's Division of Water Supply and Geoscience (DWSG) Emergency Response Plan, which focuses on prevention and treatment of drinking water contamination and is applicable to cyanobacterial HABs and toxins. In addition, DWSG is working with utilities to develop management plans based on the 2015 USEPA "Recommendations for Public Water Systems to Manage Cyanotoxins in Drinking Water."



In marine waters, the Department's Algal Bloom Monitoring Program has been conducting phytoplankton monitoring to ensure safe shellfish harvesting. There are two components to the monitoring program including phytoplankton monitoring at fixed station and aircraft remote sensing for chlorophyll during the summer. The fixed monitoring network gives a representative overview of the estuarine waters of New Jersey and are sampled year-round for HABs. The aircraft remote sensing identifies algal blooms in coastal waters and samples are then taken to determine if cyanobacteria are present. As part of the State's compliance with the National Shellfish Sanitation Program (NSSP), the Department is required to develop a Biotoxin Contingency Plan that includes control measures for marine biotoxins.

Additional information on Harmful Algal Blooms can be found on Department websites:
Freshwater Harmful Algal Blooms website*:* *https://www.state.nj.us/dep/wms/HABS.html*
Marine Water Algal Bloom website: https://www.state.nj.us/dep/wms/bmw/phytoplankton.htm

4.3 - *Vibrio parahaemolyticus* (Vibrio)

Vibrio parahaemolyticus or "Vibrio" is a naturally occurring[41] bacterial pathogen found primarily in coastal (saline) waters. Eating shellfish contaminated with Vibrio may cause illnesses ranging from gastrointestinal problems to death (in immunocompromised individuals). Exposure may also cause wound infections; however, the primary human health concern is shellfish consumption.

Prior to 2002, there were no reported illnesses caused by Vibrio in New Jersey; however, they were reported in other parts of the country. On two occasions between 2002 and 2005, New Jersey closed roughly 100-square miles of the Delaware Bay to shellfish harvest due to the presence of Vibrio in shellfish. The Department confirmed reports of two illnesses in 2014 caused by *Vibrio parahaemolyticus (Vp)* that were attributed to Delaware Bay oysters; one was harvested from Shell Rock oyster beds and one from Cohansey oyster beds within New Jersey waters. These sporadic illnesses did not result in an outbreak or closure.

[41] Naturally-occurring means that this pathogen is not related to human waste or pollution. It is an organism that is normally present in bay waters in low numbers. Under ideal conditions (primarily warm temperatures), this organism thrives both in the water and in the shellfish tissue after harvest of the shellfish.

The Department samples oysters harvested from New Jersey waters on an annual basis and tests for the presence of Vibrio. Water analyses have also been performed but showed no correlation between Vibrio in the water column and Vibrio in oyster tissue samples. Closures are put into place when a pathogen outbreak is declared, based on the requirements of the National Shellfish Sanitation Program guidelines. Shellfish beds are reopened if additional oyster sampling from the implicated area shows no presence Vibrio, the conditions that existed at the time attributed to the illnesses no longer exist (e.g. air temps, water temps), or when the season for Vibrio outbreaks is over (August 31st).

It is important to emphasize that this pathogen is not related to pollution. It is normally present in low numbers in coastal waters throughout the country. Under certain conditions, the pathogen thrives and increases its presence in the oysters. Factors that favor the pathogen's growth are not fully understood; however, ongoing research by the Department (2011-2015), has shown that elevated temperature (in the oyster after it is harvested) can play a significant role. This research also shows that immediately cooling the product or decreasing the time to refrigeration after harvest can control the level of *Vibrio parahaemolyticus (Vp)* in oysters. The Department's research shows that the highest level of *Vibrio parahaemolyticus (Vp)* occurs during the month of June, and that the majority of reported occur in late June and early July for New Jersey. The Department annually implements a *Vibrio parahaemolyticus* Management Plan, which is effective from June 1st to August 31st. This plan regulates the time from harvest to refrigeration, has tarping requirements to reduce heat impact from the sun on oysters, and allows for unlimited harvest hours for vessels with onboard refrigeration. The Plan based on these studies, appears to be working.

4.4 - Emerging Contaminants

PFOA/PFOS

Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) are part of a larger group of chemicals called per- and polyfluoroalkyl substances (PFAS) that have been widely produced and used industrially and commercially. Both PFOA and PFOS may be found in consumer products, such as stain resistant coatings for upholstery and carpets, water resistant outdoor clothing and grease-proof food packaging. PFOA may be used in the manufacture of non-stick cookware, and PFOS is used in Aqueous Film Forming Foam (AFFF, used for fighting petroleum-based fires), metal plating and finishing. Although the production of PFOA and PFOS has ceased in the United States, these substances are still sometimes used by secondary industries, including the manufacture of heat resistant and water-resistant fabrics. Contamination from PFOA and PFOS is expected to continue indefinitely due to their extreme persistence in the environment, the fact that they are soluble and mobile in water and their continued production in other nations.

PFOA and PFOS have been detected across various environmental media and in drinking water supplies, and they pose serious threats to wildlife and humans. Studies have found PFOA and PFOS in the blood serum of the general population, and it is estimated that most people in the United States

have been exposed to one or more PFAS, with PFOA and PFOS being the most common[42]. PFOA and PFOS bioaccumulate and can cause adverse health effects at low levels since they persist in the body for many years. They are developmental toxicants, liver toxicants and immune system toxicants; the EPA has also found suggestive evidence that they may cause cancer[43]. PFOS has been shown to accumulate to levels of concern in fish, and some states have issued fish consumption advisories for certain water bodies[44]. New Jersey's fish consumption advisories are available on the Department's website, https://www.nj.gov/dep/dsr/publications/Investigation%20of%20Levels%20of%20Perfluorinated%20Compounds%20in%20New%20Jersey%20Fish,%20Surface%20Water,%20and%20Sediment.pdf

In 2006, the Department initiated a study to evaluate the occurrence of PFOA and PFOS in surface and ground water sources and treated water of public water systems located in areas downstream of expected contamination sources. PFOA was detected at 78% of the systems sampled, and PFOS was detected at 57% of the systems sampled (report available at https://www.nj.gov/dep/dsr/dw/final_pfoa_report.pdf). A follow-up occurrence study in 2009 was conducted statewide where PFOA was detected in 55% of the 33 systems sampled and PFOS in 27% (report available at https://www.nj.gov/dep/watersupply/pdf/pfc-study.pdf). In 2014, the Department requested that the New Jersey Drinking Water Quality Institute (DWQI) develop recommendations for drinking water Maximum Contaminant Levels (MCLs) for PFOA, PFOS and another PFAS, perfluorononanoic acid (PFNA). An MCL and a groundwater quality standard for PFNA of 13 ng/l (0.013 µg/l) was adopted in 2018. EPA issued a Drinking Water Health Advisory in 2016 for PFOA and PFOS at 70 ng/L individually or a total of the two compounds when both compounds are found. However, the DWQI did not find EPA's advisories to be sufficiently protective and recommended an MCL for PFOA of 14 ng/l in 2017 and an MCL for PFOS of 13 ng/l in 2018. The Department proposed MCLs and ground water quality standards for both PFOA and PFOS based on the recommendations of the DWQI in April 2019 with an expected adoption in 2020.

Microplastics

Plastic particles smaller than 5 mm in size are called microplastics, and they have been documented in marine and freshwaters worldwide. There are two types of microplastics: plastics manufactured to a small size (primary) and fragments of larger plastic pieces (secondary). It is estimated that 8 trillion primary microplastics enter aquatic habitats in the United States daily; however, secondary

[42] ATSDR. 2015. "Draft Toxicological Profile for Perfluoroalkyls." Available at www.atsdr.cdc.gov/toxprofiles/tp200.pdf

[43] EPA. 2016d. "Health Effects Support Document for Perfluorooctane Sulfonate (PFOS)." EPA 822- R-16-002. Available at www.epa.gov/ground-water-anddrinking-water/supporting-documents-drinkingwater-health-advisories-pfoa-and-pfos
EPA. 2016e. "Health Effects Support Document for Perfluorooctanoic Acid (PFOA)." EPA 822-R16-003. Available at www.epa.gov/ground-water-and-drinkingwater/supporting-documents-drinking-waterhealth-advisories-pfoa-and-pfos

[44] Michigan Department of Health and Human Services (MDHHS). 2016. "Eat Safe Fish Guides." Available at https://www.michigan.gov/mdhhs/0,5885,7-339-71548_54783_54784_54785_58671-296074--,00.html

microplastics and microfibers, which result from the shedding of synthetic fibers from clothing or textiles, are thought to be far more abundant[45]. Plastics do not biodegrade but rather break down into continually smaller pieces via photodegradation and mechanical abrasion. Although microplastics have been more thoroughly documented in the marine environment, freshwater systems have been shown to have concentrations equal to or greater than marine systems. Major sources of microplastics in aquatic habitats include discharges from wastewater treatment plants, atmospheric deposition, improperly disposed trash, and non-point sources such as combined sewer overflows (CSOs) and runoff.

Microplastics have chemical and physical properties that make them potentially hazardous to aquatic life and human health. They are ingested by a variety of organisms due to their prevalence and substantial variation in size and appearance. Microplastics have been shown to move through natural food webs and have been found in species across trophic levels, including those consumed by humans, such as finfish and shellfish[46]. The chemical composition of plastics includes monomers, such as bisphenol A, styrene and vinyl chloride, and additives, such as plasticizers (phthalates), antimicrobials (triclosan) and flame retardants. These monomers and additives can potentially leach out of plastic as it degrades. Due to their high surface area to volume ratio, microplastics can also adsorb and concentrate environmental contaminants including persistent organic pollutants (POPs) and other hydrophobic chemicals, heavy metals, and pathogens[47].

Microplastics are widespread in New Jersey waters. Ravit et al observed microplastics in all sampled locations in the Raritan and Passaic River watersheds and demonstrated that POPs are associated with plastic particles[48]. Estahbanati and Fahrenfeld found microplastics in all size categories in all samples collected upstream and downstream of four major municipal wastewater treatment plants along the north and south branches of the Raritan River[49]. NY/NJ Baykeeper collected samples in the NY-NJ Harbor Estuary in 2015 and found an average abundance of 256,322 plastic particles per square kilometer[50]. New Jersey is the most densely populated state, and population density likely contributes to microplastic abundance.

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[45] Rochman CM, Kross SM, Armstrong JB, Bogan MT, Darling ES, Green SJ, Smyth AR, Veríssimo D. 2015. Scientific evidence supports a ban on microbeads. Environ. Sci. Technol. 49, 10759-10761.

[46] Rochman CM, Hoh E, Kurobe T, The SJ. 2013. Ingested plastic transfers hazardous chemicals to fish and induces hepatic stress. Sci Rep 3: 1-7.

[47] Cole M, Lindeque P, Halsband C, Galloway TS. 2011. Microplastics as contaminants in the marine environment: a review. Marine Pollution Bulletin. 62:2588-2597.

[48] Ravit B, Cooper K, Moreno G, Buckley B, Yang I, Deshpande A, Meola S, Jones D, Hsieh A. Microplastics in urban New Jersey freshwaters: distribution, chemical identification, and biological affects. 2017. AIMS Environmental Science, 4(6): 809-826.

[49] Estahbanati S, Fahrenfeld NL. 2016. Influence of wastewater treatment plant discharges on microplastic concentrations in surface water. Chemosphere. 162: 277-84.

[50] NY/NJ Baykeeper. 2016. NY-NJ Harbor Estuary Plastic Collection Report. February 2016. http://nynjbaykeeper.org/wp-content/uploads/2016/02/NYNJBaykeeper-Plastics-Report-February-2016.pdf.

In March 2015, New Jersey became the second state to ban "non-biodegradable" microbeads from personal care products. Later that year, the federal Microbead-Free Waters Act passed, prohibiting the manufacture and use of microbeads in personal care products by 2018. The Department tasked the Public Health Standing Committee of the NJDEP Science Advisory Board (SAB) with investigating the potential human health impacts of microplastics and nanoplastics (diameter < 0.1 µm). Findings and recommendations from this report are available at: https://www.state.nj.us/dep/sab/NJDEP-SAB-PHSC-final-2016.pdf. The SAB noted a lack of human health data and recommended that the Department continue to monitor future research as it becomes available for information on the presence of microplastics in New Jersey environmental media and biota and evidence of human exposure and health effects.

4.5 - Impacts of Climate Change on Water Quality

The National Oceanic and Atmospheric Administration's *2017 State of the Climate* report, led by scientists from NOAA's National Centers for Environmental Information and published by the Bulletin of the American Meteorological Society, made several notable findings; levels of greenhouse gases were the highest on record, the rate of sea level increase is higher than before, heat in the upper ocean hit a record high, and global land and ocean combined surface temperature reached a near-record high. In addition, sea surface temperatures hit a near-record high, arctic and Antarctic sea ice coverage fell to a record low, and unprecedented multi-year coral reef bleaching continued. More than 500 scientists from 65 countries contributed to the report, which found that the 10 warmest years on record have occurred since 1998 (see NOAA's Web site at https://www.climate.gov/news-features/understanding-climate/state-climate-highlights/2017). In 2019, NOAA published the New Jersey State Climate Summary, which provided the following key messages:

- Heat waves are projected to be more intense while cold waves are projected to be less intense
- Winter and spring precipitation and extreme precipitation events are projected to increase in the future
- Global sea level is projected to rise one to four feet by 2100. Sea level rise poses substantial risks, including greater vulnerability to severe coastal flooding.

USEPA has stated that, "Temperature change drives other changes in natural environmental processes that in turn affect the quality and quantity of our water resources". The table below lists the potential impacts (warmer waters, increases in tropical storm intensity, sea level rise, precipitation changes, and ocean and coastal changes) identified by the USEPA, along with their anticipated effects on water resources[51]:

Table 4.1: Climate Change Impacts on U.S. Waters

[51] Metchis, Karen, USEPA Climate Change Advisor. *Climate Change and the EPA National Water Program*, USEPA Office of Water, Powerpoint presentation, May 11, 2010. Available at www.epa.gov/ow/climatechange/strategy. Viewed on June 20, 2010.

Potential Impact	Anticipated Effect on Water Resources
Changes in Temperature:	Changes in the distribution and survival of aquatic species, algal blooms, and lower dissolved oxygen levels.
Changes in Precipitation:	• Reduced groundwater and surface water supply in some areas • Reduced reliability of snow pack to replenish reservoirs and aquifers - Droughts - Wildfires • Increased water demand due to higher temperatures • Increased runoff resulting in erosion and sedimentation • Overwhelmed water infrastructure due to flooding
Increases in Storm Intensity:	• Contaminated Waters • Damaged Wetlands • Flooded Wastewater Treatment Plants • High Wind Damage
Sea Level Rise:	• Displacement of coastal wetlands and habitat • Increased coastal erosion • Salt water intrusion in drinking water supplies • Inundation of wastewater treatment infrastructure
Ocean and Coastal Changes:	• Biological habitat changes as the air temperatures increase • Estuarine waters become more saline as sea levels rise • Ocean temperatures increase • Ocean acidification

All of these expected conditions would have a significant impact on New Jersey's waters. In its strategy, USEPA urged states to "assess emerging climate change information, evaluate potential impacts of climate change on water programs, and identify needed responses."

Vital Signs of New Jersey Climate

Anthropogenic warming due to the emission of greenhouse gases has contributed to a global rise in temperature of about 1 degree Celsius since 1880[52]. We know this because if the warming were caused by cyclical factors, such as solar irradiance, we would expect to see warmer temperatures in all layers of the atmosphere. Instead, they have observed a cooling in the upper atmosphere, and a warming at the surface and in the lower parts of the atmosphere. That's because greenhouse gases are trapping heat in the lower atmosphere. New Jersey's climate has warmed by about 1.7 degrees C in the last century[53]. In that time, sea level rose by 12-16 inches, very likely the fastest rate the New

[52] Global surface temperature | NASA Global Climate Change. Climate Change: Vital Signs of the Planet. 2018 [accessed 2018]. Available at https://climate.nasa.gov/vital-signs/global-temperature/

[53] Environmental Protection Agency. What Climate Change Means for New Jersey. 2016.

Jersey shore has seen in the last 4,000 years[54]. The additional projected sea level rise of up to 3 feet by 2100 will only further increase the number of people at risk from large storm events like Hurricane Sandy. In fact, a sea-level rise of 1.5 feet would cause a 1 in 10-year flood at Atlantic City to exceed the highest flood level experienced over the last century[4]. Impacts from sea level rise include saltwater intrusion and contamination from flooding due to erosion and contaminants from runoff or failure of low-lying treatment infrastructure. In addition, damage from storm surge during extreme weather events will be heightened.

In 2007, New Jersey established its leadership role in the efforts to address global climate with the passage of the Global Warming Response Act. This law requires stabilization of statewide greenhouse gas emissions to 1990 levels by 2020, followed by a further reduction to 80 percent below 2006 levels by 2050. Meeting the requirements of the Global Warming Response Act and determining how best to adapt to those climate-related impacts throughout New Jersey that are unavoidable will involve the combined efforts of many other programs within the Department, as well as those in other state agencies.

In December 2009, the Department released *Meeting New Jersey's 2020 Greenhouse Gas Limit: New Jersey's Global Warming Response Act Recommendations Report*, as required by the Global Warming Response Act. This report provides analyses of significant sources of greenhouse gas emissions; details a broad range of options and outlines mitigation strategies for meeting New Jersey's statewide 2020 greenhouse gas limit; and provides a framework for how the State needs to move forward to meet its statewide 2050 greenhouse gas limit. The report is available for download from the Department's Web site at http://www.nj.gov/dep/oce/gwr.htm. The report addresses all major sources of greenhouse gas emissions in New Jersey, including transportation, electricity generation, industry, residential buildings, and the commercial sector. The report also addresses sectors such as forestry and agriculture that naturally help reduce greenhouse gas emissions by sequestering carbon dioxide. As such, the report provides a comprehensive technical and financial framework for decision-making related to various greenhouse gas reduction strategies. As part of that report, the State highlighted the critical need for adaptation planning and action, and recommended undertaking a comprehensive adaptation planning process. In response, the Department expects to develop a comprehensive adaptation plan to help New Jersey citizens handle the unavoidable impacts of climate change.

On February 21, 2018, Governor Murphy signed P.L. 2018, c.3, requiring New Jersey to join the US Climate Alliance, a bipartisan coalition of US states committed to uphold the United Nations' Paris Climate Accord despite the federal government's decision to withdrawal. On the one-year anniversary of the US's withdrawal, the Climate Alliance committed to several new actions, including cuts in short-lived climate pollutants such as methane and black carbon, and financing for clean energy.

[54] Miller K, Kopp R, Browning J, Horton B. *Sea-Level Rise In New Jersey Fact Sheet*. Rutgers Department of Earth and Planetary Sciences and Institute of Marine and Coastal Sciences; 2014. Available at https://geology.rutgers.edu/images/stories/faculty/miller_kenneth_g/Sealevelfactsheet7112014update.pdf.

The Department is also coordinating several important adaptation-related actions including the following:

- A study led by the City University of New York (CUNY), in collaboration with team members from Rutgers and Columbia Universities, to estimate the economic consequences (costs and benefits) of climate change for ten sectors of New Jersey's economy during the 21st century, with a primary focus on the 2020 and 2050.

- The Department's Office of Coastal Planning developed the Coastal Community Vulnerability Assessment Protocol (CCVAP) to improve the hazard resilience of coastal communities. CCVAP is a GIS-based methodology intended to assist land use planners, hazard mitigation planners, and emergency managers in the identification of their community's social, infrastructure, and environmental vulnerabilities to coastal hazards and inundation. The protocol relies upon the development a coastal vulnerability index to identify hazard prone lands, incorporating six variables into a composite overlay analysis, including geomorphology, slope, flood prone areas, storm surge inundation, soil drainage, and erosion. The coastal vulnerability index also allows for the incorporation of sea level rise scenarios (.5, 1.0, and 1.5 meter) and their impacts on present storm surge models which can assist communities in identifying their vulnerabilities to the potential effects of climate change. By using the coastal vulnerability index, New Jersey coastal communities can then use their knowledge of present and future hazard scenarios to identify vulnerable populations, capital investments, and natural resources.

- The Bureau of Climate Resilience Planning (BCRP) is also a participant in the Mid-Atlantic Regional Council on the Ocean's (MARCO) workgroup. In 2016, MARCO released a report on the role of Mid-Atlantic coastal wetlands in reducing climate risk. The report examines current practices for identifying and prioritizing wetlands for their ability to reduce climate risk and enhance climate resilience in the region. The report, prepared by the Environmental Law Institute (ELI), identifies opportunities for improving how coastal wetlands can serve as climate buffers in the coastal states of New York, New Jersey, Delaware, Maryland and Virginia.

- The Department's Division of Fish of Wildlife, Office of Natural Lands Management, and Office of Climate and Energy are participating on a multi-stakeholder workgroup that also included the New Jersey Conserve Wildlife Foundation, Conservation Resources, Inc., Nature Conservancy, New Jersey Audubon Society; and American Littoral Society. The workgroup is developing a comprehensive wildlife adaptation plan as part of the State Wildlife Action Plan initiative.
    a. Update: In 2017, the Division of Fish and Wildlife issued a complete revision of the initial Wildlife Action Plan. The plan is an assessment of the health of the state's wildlife and habitats, the problems they face, and actions that are needed to conserve them over the long term.

- The Department has convened several internal adaptation workgroups to coordinate and collaborate on various ongoing New Jersey adaptation efforts, including a water adaptation

workgroup that is currently identifying the tools needed to address water-related impacts from climate change (e.g., new planning and modeling tools).

- The Department is participating on a Northeastern States for Coordinated Air Use Management (NESCAUM) Adaptation Workgroup designed to coordinate and collaborate on regionwide adaptation issues (e.g., data collection and storage, shared frameworks, and communications)

- The Department is participating, through the Partnership for the Delaware Estuary, in the National Oceanic and Atmospheric Administration (NOAA) Climate-Ready Estuaries Program.

In 2019, the DEP announced its first Chief Resilience Officer and created the Climate & Flood Resilience Program. This program will serve as a "hub" responsible for coordinating the climate change resilience and adaptation work ongoing in many programs across the DEP. The Division of Energy, Security and Sustainability (DESS) reports to Air Quality, Energy and Sustainability (formerly Climate and Environmental Management), to coordinate the various programs involved in mitigating and/or adapting to climate change. DESS in coordination with key water programs within the Department, developed the following list of priorities for Waters of New Jersey, for discussion at the June 2010 National Climate and Water Conference:

Pressing Issues of Concern

1. Continue coordination of ongoing efforts (federal, regional, state and local; government and non-government), including:
   - Climate-ready Estuaries Program.
   - USEPA National Water Program Strategy: Response to Climate Change
   - U.S. Climate Change Science Program/Adaptation Taskforce – Water Resources Workgroup.
   - How to Consider Climate Change in Coastal Conservation (NOAA)
   - NRCS – flooding impacts on infrastructure.

2. Need for a suite of models/inputs (e.g., agreed emissions scenarios) that states can use for planning purposes (e.g., water supply planning):
   - Downscaling/regionalization/localization of climate-related models for sea level rise, precipitation, and temperature projections, and impacts on water quality and quantity.
   - Regionalized inputs/parameters for precipitation, sea level rise and temperature, and impacts on water quality and quantity.
   - Guidance on how best to use models and other tools for planning purposes.

3. Development of regional indicators:
   - Ensure that requests from USEPA to states for data and methodologies are achievable given states' resource constraints.

4. Need for feedback mechanism:
   - New information, lessons learned, and modified priorities need to be incorporated into on-going water adaptation processes to help provide clear guidance for decision-making.
   - Recommendations on how to evaluate the success of adaptation and resilience building efforts.

5. Required coordination and collaboration of federal agencies:
   - Ensure compatibility of databases (e.g., USEPA and USGS database retrievals are now compatible, but NOAA's is not (as it is proprietary)).
   - Ensure inclusion of all relevant agencies (e.g., USEPA, USGS, NOAA Climate Service, U.S. Department of Interior, U.S. Fish and Wildlife Service, and U.S. Department of Agriculture).
   - Develop a consistent framework for coordination/collaboration of federal agencies.
   - Designate a lead agency for each issue that states/locals can coordinate through.
   - Engage local stakeholders, including states and local governments, throughout the planning and implementation phases.

Data Gaps (not only identifies areas where additional observational data is needed, but identifies areas where federal analysis of the data is needed):

- Shifts/migration in species: need more data/systematic research to generate scientific conclusions; anecdotal data indicates species shifts.
- Sediment transport and budget for wetlands: needed to support wetlands mitigation and flood retention functions.
- Ocean acidification: need a study similar to NOAA's for the NY/NJ Harbor and the Delaware Bay.
- Baseline shoreline data from overflights with extensive ground truthing to provide latitude/longitude (LIDAR provides elevation).
- Extensive ground truthing of latitude/longitude/elevation data.
- Coordinated assessment of sea level rise's cumulative impacts related to stormwater, tides, and increasing storm surges.
- Connecting climate research with water resources research (e.g., the Department and Rutgers University are discussing development of a computer model to assess the impacts of land use and climate changes on the yield of the Boonton Reservoir System). USEPA climate and water research should focus on similar projects to address other pressing issues in a variety of hydrologic settings addressing water quality and quantity impacts.

Ongoing and Completed Research Related to Water Resources:

- Rutgers University and City University of New York (CUNY) study to investigate vulnerabilities to climate extremes and climate change in coastal New Jersey before and after Hurricane Sandy (published 2014)
- Northeast States of Coordinated Air Use Management's indicators study: focused on precipitation and SLR inputs through the Northeast.
- Mid-Atlantic Regional Council on the Oceans (MARCO) regional initiative: focus is on water quality, habitat protection, climate change adaptation, and offshore renewable energy.
- New Jersey Geological Survey salt water intrusion monitoring in Cape May, Raritan Bay & Lower Delaware River.
- Rutgers University: "US Freshwater Resources in the Coming Decades: An Integrated Climate Hydrologic Model Study", Ying Fan Reinfelder, James Miller, David Robinson, project period 2/2009-1/2013.

- Delaware Estuary Project: includes Sea Level Rise Modeling for the New Jersey Delaware Bay utilizing a Bath Tub Model and the Sea Level Affecting Marsh Model (SLAMM).
  Update: Rutgers University fixed some errors in the state wide SLAMM model. The new version is currently being finalized/approved by Rutgers.
- Water Utilities Climate Alliance (WUCA) research white papers on decision support planning methods: incorporating climate change uncertainties into water planning; options for improving climate modeling to assist water utility planning for climate change.
- USEPA-supported wetland assessment/monitoring in Delaware, Barnegat, and Raritan Bays.
  Update: Rutgers Unversity just installed Site-Specific Intensive Monitoring (SSIM) for the Mid-Atlantic Coastal Wetlands Assessment (MACWA) monitoring station with Surface Elevation Tables (SETs) to look at marsh elevation and accretion relative to SLR in the Raritan.
- NOAA-supported climate ready estuaries program in Delaware and Barnegat Bays.
- Association of State Wetland Managers (ASWM) climate change program.
- National Institute of Environmental Health Sciences (NIEHS), U.S. Department of Health and Human Services work on developing environmental health indicators of climate change for the United States.
- Electric and Power Research Institute (EPRI) studies on interrelationship between energy and water consumption.
- NOAA Labs (Sandy Hook) investigation of ocean acidification in the NY/NJ Harbor.
- Barnegat Bay study of air deposition of NOx: measurements of nitrate and ammonium made to characterize atmospheric nitrogen deposition to Barnegat Bay (Department of Earth and Environmental Sciences, and Institute of Marine and Coastal Sciences, Rutgers University)
- The Department/NJGS study on groundwater contamination from road salt runoff.
- The Consortium of Universities for the Advancement of Hydrologic Sciences, Inc.: development of a Hydrologic Information System that provides web services, tools, standards and procedures that enhance access to more and better data for hydrologic analyses.
- Collaborative Research: Climate Change and Responses in a Coupled Marine System. National Science Foundation. Rutgers University; U. Massachusetts Amherst, Virginia Institute of Marine Science, and Old Dominion University. Project investigates the complex and changing ocean systems, given evidence of cumulative problems related to overfishing, climate change, and other stressors and recognition of limitations in current modes of governance. Of specific interest are the effects of climate change on the fishery and how those effects are perceived, interpreted, and responded to by scientists and by public and private sector actors, which influences the nature of feedback in the coupled system.
- USEPA Region 2 RARE grant “The Role of Eutrophication in Coastal Wetland Fragmentation, Barnegat Bay, New Jersey”
- This past fall (2018) 15 organization banded together to form the New Jersey Tidal Wetlands Monitoring Network. These groups are conducting long term monitoring on the health and resilience of NJ tidal wetlands.
- NJDEP is working with Penn State University to add NJ tidal wetland monitoring and assessment data to the Reference Wetland Database.
- The Partnership for the Delaware Estuary is developing The Site-Specific Salt Marsh Decision Support Tool. The tool integrates data regarding a suite of attributes shown to be essential for

proper salt marsh function in order to help practitioners systematically discern the handicaps of specific locations (e.g. elevation deficiencies, limited sediment supply, excessive wave erosion).

In December 2009, the New Jersey Clean Water Council (NJCWC) sponsored an informational session and public hearing on Water Policy and Climate Change. The purpose of the hearing was to seek public testimony on the risks posed to water quality and water infrastructure by climate change and on effective means to manage those risks. Specifically, the NJCWC wanted to know: "What are the high priority risks to clean water posed by the increasing variability of climate and weather events?" and "What changes to water management policies are needed to increase flexibility and adaptive management, and how will New Jersey meet the cost?" Specific recommendations were sought on the following issues: stormwater, wastewater, drinking water, instream/passing flows, agriculture and green industry, and water infrastructure. The NJCWC heard or received written testimony from agency representatives, scientists, utility managers, environmental advocates, and planners.

There was general consensus that climate change is occurring, and it is affecting water resources in a variety of ways, including warmer air and surface water temperatures, more intense storms intermixed with longer periods of dry weather, and rising sea levels. While the contributory causes may be debated, the potential impacts of climate change on water resources and related infrastructure need to be clearly identified and properly managed. New Jersey's weather is already showing a pattern of increased flooding and drought - with both events frequently occurring in the same year. Likewise, sea levels are rising in this coastal state at a rate that exceeds other U.S. coastal areas. All of these effects could have implications for water quality. As important decisions regarding the state's infrastructure are being made, these facts need to be recognized and considered.

New Jersey has largely been focusing efforts on reducing greenhouse gas emissions (otherwise known as mitigation strategies). Since climate change is a world-wide process that is already modifying New Jersey resources, proactively adjusting our resource management strategies is also a rational and necessary response. The over-arching message from the public hearing and supported by the NJCWC is that New Jersey should integrate consideration of the effects of changing climatic conditions into its planning, assessment, and regulatory programs to increase program flexibility, avoid or adapt to foreseeable negative impacts, and maximize programmatic and fiscal efficiency. The following summarizes the results of the public hearing:

What Are The High-Priority Risks To Clean Water Posed By The Increasing Variability Of Climate And Weather Events?

- **Baselines are changing:** It is no longer acceptable to design for the future based on past records, e.g., "100-year storm frequency" and 7Q10 flow statistics may no longer be accurate for planning and regulating. Accurate measurements and predictions of sea level are necessary for infrastructure repair/replacement. Accurate flood evaluations and predictions are necessary to protect public safety. Additional monitoring may also be necessary.

- **Infrastructure may be at risk from multiple effects:** Coupled with a repeat of the 1960s drought-of record, increases in sea level rise & tidal excursions up river could put some (Delaware

River) surface water intakes at risk. As such, the vulnerability of wells and well fields need to be assessed. Since water infrastructure usually links to waterways or coasts, the secure and protected location of infrastructure (pipelines, intakes and discharges), as well as new development, is critical.

- **Water quality effects are largely unknown; synergistic effects may be heightened:** For example, higher temperatures that encourage bacterial growth could also result in higher levels of arsenic and other metals in water as they are made available through biological processes. In addition, dissolved oxygen levels could fall, imperiling sensitive aquatic species.

- **Climate change could exacerbate existing problems:** Impacts associated with development, population growth, and aging infrastructure are likely to be exacerbated by climate change effects on energy and water demand.

- **New Jersey is vulnerable to sea level rise:** It is undisputed that sea levels are rising. Although the projected rate of future change is subject to debate, a vulnerability analysis needs to be conducted and steps taken now to begin mitigating problem areas. Expected impacts include:
  - Further upstream advances of saline water affecting water intakes; salt water intrusion into aquifers
  - More homes and industries vulnerable to coastal flooding may prompt revisions to programs that support rebuilding in damaged coastal and other flood prone areas
  - Wetland protection and restoration programs could be jeopardized by inundation
  - Changes to natural systems (wetlands and shorelines)
  - Infrastructure disruption - pipelines, treatment works, etc. - in coastal and low-lying riverine areas

- **Increase in storm intensity:** Whether this is a short or long term effect remains subject to debate. However, water management policies need to consider the potential impacts of changes in the delivery of precipitation (snow and rain) on existing and proposed development and the use and provision of water including:
  - Longer drought periods affecting water supply plans, pricing & conservation
  - Wetland ecosystem changes
  - Increasing incidence of wildfires during extended dry periods (especially in the Pinelands)
  - Overloaded wastewater treatment plants during heavy rain events
  - Lower lake levels and degraded water quality affecting recreation and tourism
  - Soil moisture impacts affecting agriculture from both drought and flooding
  - Annual streamflow changes could affect mixing zone allocations and permit limits
  - More urban flooding affecting water quality, stormwater management design and cost
  - Seasonal variations in the availability of drinking water (especially southern NJ)

- **Local and regional temperatures have been rising and the earth is getting warmer:** Impacts could affect stream classifications, uses, and discharge controls. Warmer air and water could be responsible for localized aquatic organism changes, algal blooms, and lower dissolved oxygen (DO) levels. Attention needs to be given to such issues as:
  - Greater evapotranspiration, which reduces recharge and stream flows

- Increased water demand, stressing existing supplies
- Warmer water shifting aquatic species distribution and population
- Increased range of invasive aquatic plants
- Fish spawning, seasonal migration, and survival
- Lower DO, more algal blooms and larger hypoxic zones
- Coldwater fisheries*
- Endangered species (e.g., Dwarf Wedgemussel)*
- Terrestrial/aquatic interactions*
- Potential Increase in Waterborne Pathogens*

*Source: Dr. David A. Robinson, New Jersey State Climatologist and Chair, Department of Geography, Rutgers, the State University of New Jersey[55]

What Changes To Water Management Policies Are Needed To Increase Flexibility And Adaptive Management, And How Will New Jersey Meet The Cost?

- **Programmatic flexibility:** The State needs to be able to respond effectively and efficiently so that the application of programs and policies remain relevant as conditions change. The Department may need improved monitoring, analysis and feedback pathways to ensure this flexibility. The goal is to ensure that policies, prioritizations, and resources are adjusted to meet desired outcomes. For example, how/should we adapt the regulatory framework to climate-caused water quality changes? Are climate-caused water quality changes considered "natural conditions"? How do climate-caused water quality changes affect the regulation of dischargers? **What are the impacts on regulatory policies for drinking water, wastewater, antidegradation, anti-backsliding, and TMDLs?[56]**

- **Adaptive management:** The Department's report entitled, "Meeting New Jersey's 2020 Greenhouse Gas Limit: New Jersey's Global Warming Response Act Recommendations Report"(NJDEP 2009), offers direction that can be applied to adaptive water resources management. The NJCWC is available to work with Department staff to evaluate and develop additional strategies.

- **A holistic approach:** All three components of water management - supply, distribution, and treatment - must be considered holistically. Smart growth planning concepts can be considered in concert with water management policies to ensure effective implementation.

[55] Robinson, Dr. David, "Climate Change in New Jersey". Powerpoint presentation at the NJCWC Public Hearing, December 7, 2009, available on the NJCWC Web site at http://www.nj.gov/dep/cleanwatercouncil/presentations/testimony.cleanwatercouncil_dec09.pdf. Viewed on June 18, 2010.

[56] Collier, Carol R., P.P., AICP, Executive Director, Delaware River Basin, "Climate Change – Increasing Uncertainty in Water Resources Management". Powerpoint presentation at the NJCWC Public Hearing, December 7, 2009. Available on the NJCWC Web site at http://www.nj.gov/dep/cleanwatercouncil/presentations/testimony.cleanwatercouncil_dec09.pdf. Viewed on viewed on June 18, 2010.

- **Finance through existing funds and programs:** Financing new initiatives is especially problematic in the current fiscal climate, making the leveraging of staff and financial resources necessary. Cost savings should not lead to inaction, because action is necessary now. Changing existing programs to incorporate consideration of potential climate change effects would be one cost-effective way to encourage adaptive management.

- **Efficiency:** Testimony supported efficiencies in energy use, water use and reuse, land use and redevelopment. Many existing programs, policies, and practices could be given more emphasis to achieve financial and resource efficiencies, including, but not limited to LEED certification programs and green building codes, green infrastructure for stormwater management, the policies of the State Development and Redevelopment Plan, and energy efficiency programs for property owners. Efficiency in permitting and improved communication and coordination were cited as desired strategies, which should be employed both within the Department and between the Department and other agencies. For example, agricultural water management should be more closely linked with the Department's water management programs. Efficient irrigation techniques, drought tolerant practices, water re-use capability, and use of agriculture for carbon sequestration are concepts that need to be integrated into a statewide water management program.

Recommendations:

- The Department, as well as other local, state, national, and international groups and organizations, are studying climate change to determine the proper path forward to address probable impacts. The integration of climate change with water policy is evolving on many fronts, although no single approach has emerged. A reliance on information sharing and collaboration among organizations would provide the most cost-effective and efficient approach at this time. The testimony at the public hearing emphasized that adaptive management will provide the Department with greater flexibility to evaluate agency policies, priorities, and resources. This will in turn enable the Department to more efficiently address and minimize increasing climate-related risks to water resources, including those that will directly affect water supply and wastewater systems. The causes of climate change and their relative contributions continue to be debated and models that project future trends and impacts continue to be refined. However, New Jersey does not have to wait for better models or more data to implement responsible changes to its water management programs. Common sense initiatives can be undertaken while awaiting improvements in predictive modeling.

  Examples include:

  1. **Use of cost-effective adaptation strategies** to identify, address, and minimize climate-related risks to water supply, wastewater, and stormwater systems. Adaptive management strategies are needed that can cost-effectively address cross-functional issues. For example, integrating strategies for stormwater management and grey water re-use could address water demand, stormwater runoff and combined sewer overflows (CSO).

2. **A statewide climate change adaptation plan**, integrated with regional and national activities, should be developed and adopted. Smart growth planning concepts should be considered in concert with water management policies to ensure more effective implementation. All three components of water management - supply, distribution, and treatment - must be considered holistically.

3. **Increase the flexibility of regulatory programs** to enable them to respond more nimbly to changes in ambient conditions. Up-to-date information and trend analysis are critical to the timely identification of potentially critical impacts. Data of concern include water temperature, nutrients and metal concentrations, salinity, sea and flood levels; as well as a better understanding of the synergistic effects on water quality and aquatic life.

4. **Develop incentives to stimulate investment** in mitigation, adaptation, and infrastructure needs. Needs assessments should incorporate the expected effects of climate change on the availability and quality of water resources, as well as on infrastructure. This should include planning and engineering costs associated with anticipated impacts.

5. **Recognize the value of collaboration; make use of specialized skill sets.** Many New Jersey organizations are poised to help state agencies with the tasks that lie ahead, including, those that participated in the December 2009 hearing. An open planning process engaging interested parties would leverage resources and result in a speedier response to the issues at hand. It can no longer be acceptable simply to react as problems become evident. New Jersey has the opportunity to proactively prepare now to respond to the future impacts from climate change.

The Department continues to participate in forums exploring adaptation to climate change impacts on water resources on state, regional, and national levels. The Department, as a participant on the USEPA National Water Program State-Tribal Climate Change Council, identified the following issues and priorities for waters of New Jersey:

1. **Data, Information, Communication:**
   - Record monitoring data and activities in a format needed to support climate adaptation and mitigation discussions that are taking place.
   - Take opportunities to get the message out and catalyze action.

2. **Preparedness and Security:** Build a climate ready water utilities all-hazards approach to security preparedness.

3. **Ground Water:** Ground water quantity affected by climate processes.

4. **Watersheds:** Bring a watershed perspective to the discussion to incorporate water supply, drought, and floods as well as instream ecological concerns.

5. **Wetlands:**
   - Identify specific practices for managing wetlands in response to sea level rise.

- Focus on vulnerable wetlands.

6. **Energy Production Impacts:**
   - Geologic carbon sequestration (state/federal assessment legislation)
   - Water needs for cooling energy-generating facilities

7. **Fisheries and Species:** Thermal impacts on streams create impacts for native populations and fishing.

8. **Impacts on Endangered Species (Flora and Fauna):** including ecological impacts and ecological flow requirements.

Protection and maintenance of New Jersey's water resources from the impacts of climate change will require modification of the Department's monitoring and assessment programs, including:

- Monitoring to detect climate change impacts on waters of the State;
- Re-evaluation of designated and existing uses to assess attainability under climate-induced changes to ecological conditions;
- Re-evaluation of water quality standards and criteria to reflect changes in natural conditions due to climate-induced changes to aquatic ecosystems;
- Re-evaluation of funding and permitting priorities to address climate-induced threats to infrastructure, to promote more efficient water and wastewater facilities, and to expedite implementation of preventive and restorative measures that would mitigate adverse impacts of climate change on water resources.

Additional information on the Department's Climate Change program is available on the Department's Web site at https://www.nj.gov/dep/climatechange/.

Chapter 5: Water Pollution Control Programs

This chapter outlines the Department's approach and associated programs designed to protect, maintain, enhance, and restore water quality and to ensure the protection of ecological and public health in all waters of the State. This overarching goal serves as the foundation for the Department's water quality management programs. The purpose of the New Jersey Water Quality Planning Act (NJWQPA) is to restore, maintain, and preserve the quality of the waters of the State, including both surface and ground water, for the protection and preservation of the public health and welfare, food supplies, public water supplies, propagation of fish and wildlife, agricultural and industrial uses, aesthetic satisfaction, recreation, and other beneficial uses. The NJWQPA endeavors to achieve this purpose by instituting a Continuing Planning Process (CPP) broader in scope than that required under the federal Clean Water Act.

New Jersey's CPP is intended to integrate and unify statewide and areawide water quality management planning processes with other water quality programs and measures implemented by the Department, including statewide water quality monitoring and assessment, water quality standards development, TMDLs and discharge permitting, and develop a statewide implementation strategy to achieve the water quality standards and maintain, improve, and protect water quality throughout the State (see http://www.nj.gov/dep/wrm/docs/cpp.pdf). New Jersey statutes require comprehensive water resource management and planning that addresses issues such as land use and cumulative impacts to water resources, implementation of regulatory and non-regulatory approaches to environmental restoration, and consideration of environmental factors such as alteration of habitat, flow, substrate, climate, and tree canopy on aquatic life and other water resources.

The Department administers the CPP pursuant to the New Jersey Water Quality Management Planning rules at N.J.A.C. 7:15. The draft 303(d) List is proposed as an amendment to the Statewide Water Quality Management Plan pursuant to these rules and is adopted once it is approved by USEPA. Additional information is available on the Department's website at https://www.nj.gov/dep/wrm/index.html.

5.1 - Surface Water Quality Standards, Monitoring and Assessment

Surface Water Quality Standards

The Surface Water Quality Standards (SWQS), N.J.A.C. 7:9B, establish the designated uses and antidegradation categories of the State's surface waters, classify surface waters based on those uses (i.e., stream classifications), and specify the water quality criteria and other policies and provisions necessary to attain those designated uses. Designated uses include water supply for drinking, agriculture and industrial uses, fish consumption, shellfish resources, propagation of fish and wildlife, and recreation. In addition, the SWQS specify general, technical, and interstate policies, and policies pertaining to the establishment of water quality-based effluent limitations.

The SWQS are used to develop regulatory requirements for other Department programs that will serve to protect the existing and designated uses of the State's surface waters. These programs include the New Jersey Pollutant Discharge Elimination System (NJPDES) program, Site Remediation Program, and various programs implemented by the Division of Land Use Regulation. The SWQS also form the basis for the Integrated Report. Waters that exceed SWQS require the development of total maximum daily loads (TMDLs), which represent the assimilative capacity of surface water for a given parameter of concern, or other alternative approaches to address the impairment. The Department has developed a Nutrient Criteria Enhancement Plan (NCEP) to explain the Department's approach to developing and enhancing the existing SWQS nutrient criteria and policies to protect designated uses of all New Jersey's surface waters, including saline waters (estuarine and marine). The SWQS, including numeric and narrative criteria, classifications, antidegradation and other policies, are explained in more detail at http://www.state.nj.us/dep/wms/bears/swqs.htm.

Surface Water Quality Monitoring

Water quality monitoring supports the Department's efforts in developing and refining water quality standards, reporting on water quality conditions, listing impaired waters, issuing and enforcing discharge permits, managing nonpoint sources of pollution, protecting high quality waters, setting priorities for water quality restoration, tracking changes in water quality over time, and evaluating the effectiveness of restoration and protection actions necessary to achieve the federal Clean Water Act goal to "restore and maintain the chemical, physical and biological integrity of the Nation's waters". The Department operates the primary water quality monitoring networks for New Jersey, which are described in detail in the Department's Long Term Monitoring Strategy (see http://www.state.nj.us/dep/wms/longtermstrategyreport.pdf) and the Division of Water Monitoring and Standards website (see http://www.state.nj.us/dep/wms/bfbm/ and http://www.state.nj.us/dep/wms/bmw/).

Water Quality Assessment

Both federal and state statutes require a routine assessment of statewide water quality to determine if existing and designated uses are fully supported, if any waters are impaired, and what actions are needed to restore water quality. The Department compiles all readily available water quality data and assesses it every two years to determine compliance with the SWQS. The results of this biennial assessment process are reported in the Integrated Water Quality Assessment Report (Integrated Report). The Integrated Report combines the reporting requirements of Sections 303(d) and 305(b) of the federal Clean Water Act and is submitted to USEPA for approval on a biennial basis. The

Integrated Report presents the results of statewide water quality assessment, including long-term water quality trends, support of designated uses, and causes and sources of water quality impairment.

The goal of the Integrated Report is to provide information needed to inform water resource managers, government officials, and the public about the overall health of the State's waters. This information can inform the New Jersey Pollutant Discharge Elimination System (NJPDES) program, Site Remediation Program, and various programs implemented by the Division of Land Use Regulation.

5.2 - Water Pollution Control - Regulatory Programs

The discharge of pollutants to waters of the State is regulated by the Department under the authority of the New Jersey Water Pollution Control Act (NJWPCA), N.J.S.A. 58:10A. The WPCA specifies, "No person shall discharge any pollutant except in conformity with a valid NJPDES permit." The Department implements the New Jersey Pollutant Discharge Elimination System (NJPDES) Program pursuant to the NJPDES regulations at N.J.A.C. 7:14A. The NJPDES Program protects New Jersey's ground and surface water quality by assuring the proper treatment and discharge of wastewater (and its residuals) and stormwater from various types of facilities and activities.

Total Maximum Daily Load Program

Total Maximum Daily Loads (TMDLs) represent the assimilative or carrying capacity of the receiving waterbody taking into consideration point and nonpoint sources of pollution, natural background water quality, and surface water withdrawals. A TMDL identifies the sources (point and nonpoint) contributing a pollutant of concern and sets load reductions needed to meet surface water quality standards. Waters that do not meet the applicable standards are placed on the 303(d) List of Water Quality Limited Waters (303(d) List). The 303(d) List is then ranked and prioritized for TMDL development.

Federal regulations concerning TMDLs are contained in USEPA's Water Quality Planning and Management Regulations (40 CFR 130,7(c)), and the New Jersey Water Quality Management Planning rules at N.J.A.C. 7:15-6. Section 303(d) of the federal Clean Water Act requires development of a TMDL for the pollutant(s) responsible for each impairment. The TMDL must be calculated so that standards will be attained, in consideration of critical conditions and seasonal variation, and must include a margin of safety (MOS) to account for uncertainty. The TMDL is allocated among all of the sources of the pollutant, including point sources, nonpoint sources, and natural background. Point sources are those regulated under the federal Clean Water Act, such as wastewater treatment facilities, combined sewer overflows and stormwater, and receive wasteload allocations (WLAs). Nonpoint sources (NPS) of pollution are diffuse sources, such as overland runoff and air deposition, which are not regulated under the federal Clean Water Act. NPS receive Load Allocations (LAs) as part of the TMDL. The MOS can be an explicit part of the TMDL equation or may be accounted for through conservative assumptions made in calculating the TMDL.

A TMDL implementation plan is developed to identify the measures needed to reduce loads from each identified source so that surface water quality standards can be attained. These measures include

regulatory as well as non-regulatory actions. Regulatory measures typically include effluent limitations or other measures that are incorporated into NJPDES permits for wastewater or stormwater discharges. Non-regulatory measures include best management practices for agricultural land use and riparian restoration, as well as promotion of watershed/local stewardship activities such as construction of rain gardens and rain barrels. Additional information on TMDLs is available on the Department's website at https://www.state.nj.us/dep/wms/bears/tmdls.html.

NJPDES Permitting Program

Discharge to Surface Water Permits

The Department's NJPDES Discharge to Surface Water (DSW) Program regulates the discharge of treated and untreated effluent from various municipal and industrial facilities directly into surface waters of the State (e.g., rivers, streams, ocean waters) via a point source. These facilities operate under the authority of an individual or general NJPDES permit that limits the mass and/or concentration of pollutants discharged. The NJPDES DSW permits establish technology- or water quality-based effluent limitations that limit the mass and/or concentration of pollutants discharged to levels that will not cause the receiving water to exceed applicable surface water quality standards. Permitted discharges to surface water are required to submit monthly Discharge Monitoring Reports (DMR's) for Department review to determine compliance with effluent limitations. A facility that exceeds its effluent limitations or otherwise does not comply with its permit limits is referred to the Department's Division of Water Compliance and Enforcement for appropriate action pursuant to the New Jersey Clean Water Enforcement Act. Additional information about surface water discharge permits is available on the Department's website at http://www.nj.gov/dep/dwq/sw.htm.

Discharge to Ground Water Permits

The Department regulates facilities that discharge sanitary and industrial wastewater to ground water under the NJPDES Discharge to Ground Water (DGW) Permit Program. The pollution control requirements contained in NJPDES discharge to ground water (DGW) permits are those conditions necessary to restrict the discharge of pollutants to ground waters of the State so that they do not exceed applicable ground water quality standards. The types of facilities regulated include: mines, pits and quarries; schools and hospitals; potable water treatment plants; large corporate office buildings; industrial manufacturing facilities; campgrounds and mobile home parks; food processors; and sewage treatment plants and other discharges of wastewater that can impact ground water, including the management of dredged materials at upland locations. Additional information about the NJPDES DGW Permit Program is available on the Department's website at www.state.nj.us/dep/dwq/dgw_home.htm.

Stormwater Permits

New Jersey's Stormwater Permitting Program is divided into two sections: Industrial Stormwater Permitting ("Phase I") and Municipal Stormwater Regulation ("Phase II"). Both programs emphasize pollution prevention techniques and source control rather than "end-of-pipe" treatment. The program is implemented through the issuance of individual permits and general permits. These stormwater

permits rely primarily on pollution prevention and best management practices (BMPs) that eliminate or minimize the contact between source materials and stormwater. Additional information about the Stormwater Permitting Program is available on the Department's website at http://www.nj.gov/dep/dwq/bnpc_home.htm and the Flood Hazard Control Act is located at https://www.nj.gov/dep/landuse/fha_main.html.

Significant Industrial Users

Some industrial dischargers discharge into a sanitary sewer system or publicly owned treatment works (POTW). The wastewater is conveyed to a local agency's treatment plant where it is treated and usually discharged into a river or stream. These dischargers are known as "indirect users." All direct users must comply with at least minimum regulatory requirements under N.J.A.C. 7:14A-21.2, as well as the rules and regulations or sewer use ordinance of the local agency. When this type of discharge meets one or more specific criteria, the discharger becomes a significant indirect user (SIU), and requires a permit. The Division of Water Quality's Bureau of Pretreatment and Residuals is responsible for issuing permits for SIUs discharging to POTWs.

Combined Sewer Overflow Program

Combined Sewer Systems (CSSs) are wastewater collection systems designed to carry sanitary sewage, industrial and commercial wastewater, and stormwater runoff in a single system of pipes to a publicly owned treatment works (POTW). During periods of rainfall or snowmelt, the total wastewater flows entering the collection system can exceed the capacity of the system or the treatment facility. Under such conditions, CSSs are designed to overflow at predetermined Combined Sewer Overflow Points and result in discharges of excess wastewater flows, known as Combined Sewer Overflows (CSOs), directly to surface waterbodies such as rivers, estuaries, and coastal waters.

CSOs are a human health concern because they can create the potential for exposure to disease-causing pathogens including protozoa, bacteria, and viruses. The National Combined Sewer Overflow Control Policy (National Policy) requires CSO permit holders to develop Combined Sewer Overflow Long Term Control Plans (CSO-LTCPs) that include the evaluation of alternatives for attaining compliance with the Clean Water Act, including compliance with surface water quality standards and protection of designated uses of waters of the state.

The Department is implementing a Statewide Combined Sewer Overflow Control Strategy consistent with the National Policy. As a first step, New Jersey has required its owners and operators of CSSs to develop and implement the Nine Minimum Control Measures (NMCs), specified in the National Policy. The CSO permit holders must capture and remove solids and floatables above a certain size at every CSO Point. It is estimated that New Jersey's CSO Solids/Floatables Control Facilities currently capture, remove, or otherwise prevent the discharge of over 700 tons of solids and floatables materials per year. Additionally, over 60 CSO discharge points were eliminated since the onset of the program. More information on CSOs and the CSO-CTCPs is available on the Department's website at https://www.nj.gov/dep/dwq/cso.htm.

Stormwater Management

The Stormwater Management rules (N.J.A.C. 7:8) provide the basis for municipalities to develop stormwater management plans and specify stormwater management standards that are mandatory for new major development. The New Jersey Stormwater Best Management Practices Manual (BMP manual) has been developed to provide guidance to review agencies and the regulated community on complying with the standards in the Stormwater Management rules. The Stormwater Management rules also establish performance standards for ground water recharge to increase the integrity of the State's aquifers and protect dry weather base flow in streams. The rules require that 100 percent of the average annual ground water recharge be maintained for new development projects, to help mitigate future droughts and flooding.

In addition to recharge standards, the rules promote low impact development techniques by requiring consideration of non-structural design methods for stormwater management. Once nonstructural measures have been fully integrated into the site design, any remaining water quality concerns must be addressed using best management practices to reduce runoff of total suspended solids (TSS) by 80 percent and other pollutants up to the maximum extent feasible. Additional information about the Stormwater Management rules is available on the Department's website at http://www.njstormwater.org/.

Green Infrastructure

Traditional stormwater infrastructure design focuses on collecting and conveying rainwater off-site, so it is ultimately discharged into a downstream waterway. Green infrastructure mimics natural processes utilizing soils and vegetation to manage rainwater where it falls by allowing it to infiltrate into the soils, be taken up by plants, or stored for re-use as irrigation. Green infrastructure (GI) strategies reduce runoff volume by allowing rainfall to infiltrate into the soil where it can be used by plants or where it can recharge aquifers and stream base flow. Another way to reduce volume is to capture the rainfall in manufactured structures like rain barrels or cisterns where it is stored until it can be reused. Green infrastructure encourages the idea that stormwater is a resource that can be reused, rather than simply conveyed elsewhere. A comprehensive list of the Department's recommended green stormwater practices and completed projects is available on the Department's website at http://www.nj.gov/dep/gi/.

Soil Erosion and Sediment Control Act Implementation

The New Jersey Soil Erosion and Sediment Control Act is administered by the State's 15 Soil Conservation Districts (SCDs) and overseen by the NJDA to minimize soil erosion from construction sites, reduce nonpoint source pollution from sediment, and enhance water quality and stormwater quality. Conservation practices such as stormwater inlet protection, silt fencing, stabilized construction access, and temporary soil stabilization are just a few of many measures that help reduce soil erosion on active construction sites. The SCDs review development and site plans and to ensure that they comply with standards established by the State Soil Conservation Committee pursuant to Chapter 251. SCDs also conduct a detailed review of Requests for Authorization (RfAs) to discharge stormwater from a developed site. Additional information about Chapter 251 and New Jersey SCDs

is available on the NJDA website at http://www.nj.gov/agriculture/divisions/anr/nrc/conservdistricts.html.

Coastal Management Program

Concerted coastal management efforts began in New Jersey in 1970 with the passage of the Wetlands Act of 1970, N.J.S.A. 13:9A, followed by the Coastal Area Facility Review Act (CAFRA), N.J.S.A. 13:19, in 1973. In response to the 1972 passage of the federal Coastal Zone Management Act, New Jersey developed and gained federal approval of the New Jersey Coastal Management Program, which addresses the complex coastal ecosystem as a whole. The Coastal Management Program defines goals and standards for the purpose of integrating protection and enhancement of natural resources, appropriate land use and development, and public access to, and use of, New Jersey's coastal resources. The program, which was first approved in 1978, brings together the above laws as well as the Waterfront Development Law, the Freshwater Wetlands Protection Act, the Public Trust Doctrine for access to, and use of, state-owned tidelands, and the regulatory activities of the New Jersey Meadowlands Commission. These laws establish a set of over-arching policies that guide implementation of the New Jersey Coastal Management Program.

A primary mission of the Coastal Management Program is ensuring that coastal resources and ecosystems are conserved as a vital aspect of local, state, and federal efforts to enhance sustainable coastal communities. The coastal zone boundary of New Jersey encompasses the CAFRA Area and the New Jersey Meadowlands District. It also includes coastal waters to the limit of tidal influence, including the Atlantic Ocean (to the limit of New Jersey's seaward jurisdiction); Upper New York Bay, Newark Bay, Raritan Bay and the Arthur Kill; the Hudson, Raritan, Passaic, and Hackensack Rivers, and the tidal portions of the tributaries to these bays and rivers. The Delaware River and Bay, and other tidal streams of the Coastal Plain, are also in the coastal zone, as is a narrow band of adjacent uplands in the Waterfront Development Area outside of the CAFRA Area. Through the Coastal Management Program, the Department manages the State's diverse coastal zone, which includes portions of 17 counties and 245 municipalities. Additional information about New Jersey's Coastal Management Program, as well as the Assessment and the Strategy, are available on the Department's website at http://www.nj.gov/dep/cmp.

Residuals, Biosolids, Sewage Sludge

Residuals are generated by both domestic treatment plants (sewage sludge) and industrial treatment plants (industrial residuals). Residuals are managed in a variety of ways, including the development of Marketable Residuals Products (often referred to as biosolids) used to fertilize or condition the soil. Examples include pellets, compost, and alkaline materials. Residuals are also incinerated in New Jersey and managed in a variety of ways at out-of-state facilities. Beneficial use of residuals as a fertilizer or soil conditioner is regulated under a NJPDES permit. Incineration of residuals is regulated under New Jersey's Air Pollution Control Program (see the Department's website at http://www.nj.gov/dep/aqpp/). Residuals managed in other states are regulated by the receiving state.

The Department oversees the Statewide Sludge Management Plan (a component of the Statewide Solid Waste Management Plan), and reviews and approves long-term generator residuals

management plans. Through the implementation of the Sludge Quality Assurance Regulations (N.J.A.C. 7:14C), residuals generators must test their residuals and report the results to the Department on a regular basis. This data is available to assure compliance with the appropriate residuals management criteria in much the same way that the surface water program uses effluent data to assure compliance with wastewater discharge requirements. Additional information about residuals management is available on the Department's website at http://www.state.nj.us/dep/dwq/sludge.htm.

5.3 - Water Pollution Control: Non-regulatory Programs

Nonpoint source (NPS) pollution is caused by precipitation moving over and through the land and carrying natural and synthetic pollutants into surface and ground water. The significance of NPS loadings can vary widely depending upon the watershed and the pollutant. NPS pollution is diffuse in origin, can emanate from anywhere in the watershed and is significantly associated with human activity. It is also not generally subject to regulatory controls. NPS pollution may include chemicals and pathogens such as oil and grease from roadways and parking lots; fertilizers from lawns, golf courses, and agricultural fields; and bacteria from improperly maintained septic systems, pet waste, and large congregations of waterfowl. Increased development can result in increased water withdrawals or loss of recharge of groundwater which can cause reduced base flow during dry weather and impair aquatic life and public water supply uses. Increased impervious cover can also increase stormwater runoff and exacerbate erosion of streambed and banks. This can significantly alter stream hydrology, increase turbidity and flashiness of streams, and increase flooding.

New Jersey Nonpoint Source Management Program

New Jersey's NPS Management Program is implemented cooperatively with many other Department programs along with other State agencies, including the New Jersey Department of Agriculture, local governments and the watershed associations. The program combines regulatory controls, non-regulatory strategies, watershed-based plans and restoration actions, and targeted funding to address NPS pollution on a scale that ranges from statewide to individual watersheds or sources of NPS. The NPS Plan is updated every five years and progress reports are published annually. Additional information about the Department's NPS Program is available on the Department's website at http://www.state.nj.us/dep/wms/bears/nps.htm.

Water Quality Restoration Grants for Nonpoint Source Pollution

The New Jersey Restoration Grants for Nonpoint Source Pollution is an integral component and funding source for statewide NPS management programs, which aim to control NPS pollution to achieve and maintain designated uses of waters of the State. This program's funding sources include USEPA pass-through grants issued under Section 319(h) of the federal Clean Water Act (CWA) and other federal and State funds that may be available for NPS-related water quality restoration activities.

Each year, New Jersey announces the availability of grants along with a Request for Proposals (RFP) to solicit applications for projects eligible for the grant funds. The RFP serves as a guidance document that establishes criteria for projects based on federal requirements and state priorities; identifies specific administrative, procedural, and programmatic requirements for applicants; and provides timetables and deadlines for the grant application and related decision-making processes.

The accomplishments of the restoration grant program, including pollutant load reductions, are tracked through USEPA's Grant Reporting Tracking System (GRTS), which is available on USEPA's website at https://ofmpub.epa.gov/apex/grts/f?p=109:5000::::::. Additional information about the Department's Restoration Grants for Nonpoint Source Pollution is available on the Department's website at https://www.state.nj.us/dep/wms/bears/npsrestgrants.html.

Watershed Based Plans

Due to the diffuse nature of nonpoint source pollution, costs associated to address it, and the need for voluntary action, implementing NPS controls that will attain water quality standards often requires support from a coalition of stakeholders, coordination of programs, and availability of funding sources that will span multiple years. Watershed planning helps address water quality problems in a holistic manner by fully assessing the potential contributing causes and sources of pollution, then prioritizing restoration and protection strategies to address these problems.

Beginning in State Fiscal Year (SFY) 2006, the Department supported development of Watershed Restoration and Protection Plans, also referred to as Watershed Based Plans (WBPs), that focused on reducing NPS pollution. The Department issued Section 319(h) grants to fund planning and implementation of projects that would address water quality impairment through implementation of NPS pollution controls, including those specifically identified in approved total maximum daily load (TMDL) implementation plans, or necessary to address pollutants identified on an adopted 303(d) List of Water Quality Limited Waters. WBPs initiated after June 30, 2007 include the nine minimum components of a watershed plan set forth in the USEPA's "Handbook for Developing Watershed Plans to Restore and Protect Our Waters" (USEPA, 2005) to be eligible for Section 319(h) grant funds.

These nine minimum elements are:

1. Identify causes and sources of pollution
2. Estimate pollutant loading into the watershed and the expected load reductions
3. Describe management measures that will achieve load reductions and targeted critical areas
4. Estimate amounts of technical and financial assistance and the relevant authorities needed to implement the plan
5. Develop an information/education component
6. Develop a project schedule
7. Describe the interim, measurable milestones
8. Identify indicators to measure progress
9. Develop a monitoring component

AUs that are impaired by a parameter associated with NPS that is addressed under a WBPs are identified on Subpart 5R of the 303(d) List. As explained in Chapter 1, Subpart 5R identifies AUs impaired primarily by nonpoint sources of pollution that are not subject to regulation under the federal CWA, or regulated stormwater, which is most effectively addressed through source control. Watershed Based Plans can be an effective alternative to a TMDL to characterize pollutant sources, the reductions needed to attain standards, and the means to achieve the reductions.

Agricultural Nonpoint Source Pollution Control Program

The Department continues to foster a partnership with the New Jersey Department of Agriculture (NJDA), the United States Department of Agriculture - Natural Resources Conservation Service (USDA-NRCS), and other agricultural organizations to achieve New Jersey's water quality goals. In some of New Jersey's more rural watersheds, agricultural land uses are the major nonpoint source of pathogens and nutrients. Implementing best management and conservation practices on agricultural lands is an important component of New Jersey's nonpoint source pollution control strategy because it will improve water quality, conserve water and energy, prevent soil erosion, and reduce the use of nutrients and pesticides. The following are conservation programs that address nonpoint source pollution from agricultural activities.

Farm Security and Rural Investment Act (Farm Bill) Funding Programs

The USDA-NRCS provides technical and financial assistance to help farmers, ranchers, and forest landowners conserve soil, water, air, and other natural resources. All programs are voluntary and offer science-based solutions that benefit both the landowner and the environment. NRCS provides conservation technical assistance through their staff at NRCS Field Offices and through NRCS-certified Technical Service Providers, in cooperation with New Jersey's fifteen Soil Conservation Districts and the New Jersey Association of Conservation Districts. Other key partners include the NJDA, Rutgers University, and other State and Federal Agencies. New Jersey receives funds under the Farm Bill that are administered through the following USDA voluntary programs for eligible New Jersey landowners and agricultural producers (see descriptions below).

- Agricultural Management Assistance (AMA): provides cost share assistance to voluntarily address issues such as water management, water quality and erosion control.
- Agricultural Water Enhancement Program (AWEP): provides financial and technical assistance to agricultural producers in approved watersheds.
- Environmental Quality Incentives Program (EQIP): provides financial assistance for permanent measures or management strategies that address existing resource concerns.
- Grassland Reserve Program (GRP): offers private landowners the opportunity to protect, restore, and enhance grasslands on their property.
- Farm and Ranch Lands Protection Program (FRPP): provides matching funds to purchase conservation easements to keep productive farmland in agricultural uses.
- Wildlife Habitat Incentives Program (WHIP): provides financial assistance to create, enhance, or maintain five priority wildlife habitat types on nonfederal lands. Creation or improvement of wildlife habitat is generally as effective as buffers at controlling nonpoint source pollution.

- Wetlands Reserve Program (WRP): provides technical and financial assistance to enhance wetlands in exchange for retiring marginal land from agriculture.
- Conservation Security Program (CSP): rewards farmers who have demonstrated high levels of conservation and management on their farms by protecting soil and water quality.
- Conservation Effects Assessment Project (CEAP): a national effort through which the NRCS works with the Department and other partners to monitor and quantify the effects and benefits of conservation practices.

Additional information about USDA-NRCS programs is available on the USDA website at http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/.

Farm Service Agency (FSA) Programs

NRCS provides technical assistance to applicants and contract holders working with the FSA Programs, which include the following:

Conservation Reserve Program (CRP): USDA's largest environmental improvement program on private lands allows producers to retire highly erodible or marginal cropland or pastureland and receive rental payments as well as financial assistance to convert the land to grass or trees. Cost sharing is provided to cover part of the cost to establish conservation measures on the land. This may include re-establishing native or perennial grasses, planting trees or fencing animals out of streams. Incentive payments are offered in some cases to encourage participation and to protect highly sensitive land surrounding waterways.

Conservation Reserve Enhancement Program (CREP): The New Jersey Departments of Environmental Protection and Agriculture, in partnership with the FSA and USDA-NRCS, signed an agreement in 2004 to help farmers reduce nonpoint source pollution caused by agricultural runoff in an effort to improve water quality in New Jersey. Under CREP, farmers receive financial incentives from the FSA and the NJDA to voluntarily remove marginal pastureland or cropland from agricultural production and convert the land to native grasses, trees and other vegetation. The vegetation can then serve as a buffer to filter or contain agricultural runoff and prevent polluted stormwater runoff generated by farms from reaching neighboring waterbodies. The enrollment of farmland into CREP in New Jersey is expected to improve stream health through the installation of water quality conservation practices on New Jersey farmland. Additional information on these and other FSA programs is available on the FSA website at http://www.fsa.usda.gov/FSA/webapp?area=home&subject=copr&topic=landing.

Coastal Nonpoint Source Pollution Control Program

The Coastal Nonpoint Source Pollution Control Program (Section 6217 of the Coastal Zone Act Reauthorization Amendments of 1990) addresses NPS pollution in coastal waters. This program is administered jointly by the US Environmental Protection Agency (USEPA) and the National Oceanic and Atmospheric Administration (NOAA). Section 6217 requires the 29 states and territories with approved Coastal Zone Management Programs to develop Coastal Nonpoint Pollution Control Programs (CNPCP). A CNPCP describes how a state will implement NPS BMPs to reduce pollution

associated with several sources such as forestry practices, urban development, marinas and boating activities, hydromodification, and others. The Department has an approved CNPCP, a description of which may be found at http://www.state.nj.us/dep/cmp/czm_cnpp.html.

Floatables Control

The Department administers both the Clean Shores Program and the Adopt-A-Beach Program to address coastal debris. The Clean Shores Program uses inmates from state correctional facilities to remove wood and garbage from tidal shorelines. Cleaning up these wastes helps prevent the deleterious effects of marine debris upon recreational ocean bathing beaches and the coastal environment. The program is funded entirely from the sale of "Shore to Please" shore protection license plates. The sponsoring municipalities and state/federal parks provide support to the program and lay out the initial costs of the cleanup. The Clean Shores program in turn reimburses the sponsors for the cost of waste disposal and contracted services incurred during cleanup activities. The program is also responsible for building dune fencing and planting dune grass in oceanfront communities and state parks. In an average year, cleanups are carried out with the cooperation of more than 45 municipalities, seven county agencies, two state parks, one federal park, and the Department of Corrections. In 2010, the Clean Shores Program won the U.S. Environmental Protection Agency's Environmental Quality Award for demonstrating an outstanding commitment to protecting and enhancing environmental quality and public health. Additional information about the Clean Shores Program is available on the Department's website at https://www.state.nj.us/dep/bmw/cleanshore.html.

The Adopt-A-Beach program fosters volunteer stewardship of the State's coastal beaches to reduce the threat of marine debris to marine fish and wildlife. The Department partners with the New Jersey Clean Communities Council and Clean Ocean Action to conduct the twice-a-year program. Participants are encouraged to adopt one of New Jersey's ocean beaches and become responsible for cleaning up debris and floatables that wash up on the shore. The cleanup results are forwarded to our national partner the Ocean Conservancy for analysis and inclusion in national and international marine debris databases. The results are used to gauge the type of education and outreach activities needed to change public attitudes and behavior about litter and the importance of keeping our waterways clean. Additional information about the Adopt-A-Beach Program is available on the Department's website at www.state.nj.us/dep//seeds/aabeach.htm.

Don't Waste Our Open Space Initiative

Illegal dumping on public land has been a growing problem in recent years throughout New Jersey. More than 170 publicly owned tracts are held in trust by the State of New Jersey, including 813,000 acres of state-preserved open space, parks, forests, wildlife management areas, natural lands, and preserves. Nearly all have been impacted by illegal dumping. Debris left behind by illegal dumpers is not only unsightly, but also potentially harmful to public health, wildlife, and ecosystems. Waste includes everything from cigarette butts, beverage containers and food wrappers to construction debris, old TVs and computers, car parts and tires, refrigerators and even entire vehicles. Illegal dumping undermines volunteer community clean-up efforts and wastes taxpayer dollars on clean-ups costs.

The Department launched a new program in April 2014 to stop illegal dumping in state parks and natural lands that combines increased enforcement efforts with enhanced public education and outreach. The goal of the "Don't Waste Our Open Space" campaign is to crackdown on illegal dumping by raising public awareness and encouraging residents to get involved as stewards of public lands. The anti-dumping campaign is a coordinated effort involving several Department programs, including the State Parks Service, State Park Police, the State Forestry Service, the Division of Fish and Wildlife, Compliance and Enforcement, Solid Waste, Water Resources Management, and the Natural Lands Trust. Investigations of illegal dump sites on state properties, including a few involving motion-sensor camera discoveries, are conducted by State Park Police, Division of Fish & Wildlife's Conservation Officers, and Compliance & Enforcement staff. Activities and outcomes are posted on the Department's website at www.stopdumping.nj.gov, along with opportunities for local involvement. The progress of the "Don't Waste Our Open Space" pilot program will be evaluated after one year. If education and enforcement measures prove successful, it may serve as a model for county systems in New Jersey or other states throughout the Country.

5.4 - New Jersey Water Bank

The New Jersey Water Pollution Control Act requires the Department to inventory and rank needs, in order of priority, for the construction of municipal waste treatment works needed to meet water quality goals and standards. This requirement is satisfied by the New Jersey Water Bank (NJWB) formerly the New Jersey Environmental Infrastructure Financing Program. The NJWB is a revolving loan program administered by the Department and the New Jersey Environmental Infrastructure Trust (EIT), an independent state financing authority, pursuant to the New Jersey Wastewater Treatment Trust Act (58:11B-1 to 27), the Financial Assistance Programs for Wastewater Treatment Facilities rules and Wastewater Treatment Trust Procedures & Requirements (N.J.A.C. 7:22), and the Sewage Infrastructure Improvement Act Grants rules (NJAC 7:22A). The 1987 amendments to the federal Clean Water Act required states to establish a Clean Water State Revolving Fund (CWSRF) to provide financial assistance for the construction of projects that protect, maintain, and improve water quality. New Jersey's CWSRF program is included in the NJWB.

The NJWB provides loans to local government units for the construction of wastewater treatment facilities, sludge management systems for wastewater and water treatment systems, combined sewer overflow abatement, stormwater, and other nonpoint source management projects. The financing program also provides loans to both publicly, privately, and nonprofit noncommunity owned drinking water systems for the construction or upgrade of drinking water facilities, transmission and distribution systems, storage facilities, and source development. The NJWB finances projects by utilizing two funding sources. The Trust issues revenue bonds which are used in combination with zero percent interest funds to provide very low interest loans for water infrastructure improvements. The NJDEP administers a combination of Federal State Revolving Fund (SRF) capitalization grants, as well as the State's matching funds, loan repayments, State appropriations and interest earned on such funds. Additional information about the New Jersey Water Bank is available on the Department's website at https://www.nj.gov/dep/dwq/mface_njeifp.htm

5.5 - Land Acquisition for Water Quality Protection

New Jersey has long recognized the importance of protecting headwater areas of rivers, streams, lakes, reservoirs, wetlands and coastal waters that safeguard our water supplies, natural resources, and provide outdoor recreational opportunities. These lands protect ecological resources and water quality, provide water-based recreational opportunities, and serve as linear open space linkages.

Water Bank

Land acquisition financed through the NJWB must demonstrate a water quality benefit. Preserving open space safeguards water supplies and other natural resources. The NJWB works closely with the Green Acres Program to maximize a community's limited funds for land acquisition. Public Law 2002, Chapter 76, directs the Green Acres State Land Acquisition Program to prioritize land for acquisition for the protection of water resources and flood prone areas. Pursuant to this legislation, Green Acres revised the ranking system used to evaluate state land projects based on water resource features, biodiversity, and other relevant factors. Additional information about Clean Water Financing for open space preservation is available on the Department's website at http://www.state.nj.us/dep/dwq/cwpl.htm and http://www.nj.gov/dep/greenacres/.

Green Acres/Blue Acres Program

The Green Acres Program was created in 1961 to meet New Jersey's growing recreational and conservation needs. As the principal land acquisition agent for the Department, Green Acres acquires land for state parks, forests, natural areas, and wildlife management areas. The Program also provides matching grants and low interest (two percent) loans to municipal and county governments, and matching grants to nonprofit organizations to acquire open space and develop outdoor recreational facilities. While the protection of water resources through land preservation has been a goal of Green Acres since its inception, the legislation further focuses Green Acres preservation efforts on lands that protect important water resources. In addition, Blue Acres acquires properties (including structures) that have been damaged by, or may be prone to incurring damage caused by, storms or storm-related flooding, or that may buffer or protect other lands from such damage. Additional information about New Jersey's Green Acres/Blue Acres Program is available on the Department's website at: http://www.nj.gov/dep/greenacres/.

5.6 - Source Water Assessment

The 1996 Amendments to the Safe Drinking Water Act required all states to establish a Source Water Assessment Program (SWAP). The purpose of SWAP is to provide for the protection and benefit of public water systems and to increase public awareness and involvement in protecting the sources of public drinking water. New Jersey's SWAP Plan incorporates the following four fundamental steps:

- Determine the source water assessment area of each ground and surface water source of public drinking water.
- Inventory the potential contamination sources within the source water assessment area.

- Determine the public water system sources' susceptibility to regulated contaminants.
- Incorporate public education and participation.

Source water assessments provide the foundation for source water protection. Source water protection focuses on preserving and protecting the public drinking water source, particularly from the contaminants to which the source is most vulnerable, as identified in the source water assessments. The information developed from the SWAP provides communities with the tools necessary to begin protecting their valuable drinking water source. Additional information about the Source Water Assessment Program is available on the Department's website at http://www.nj.gov/dep/swap/index.html.

5.7 - Water Education and Engagement of Partners

In recognition that some water pollution problems, such as nonpoint source pollution, require approaches other than the traditional regulatory approach (i.e., discharge permits with numeric effluent limitations), the Department administers a cadre of regulatory programs and initiatives for water quality restoration, protection, and enhancement. In addition, some of the Department's water pollution control programs also employ non-regulatory elements, such as education and outreach, either in lieu of, or in tandem with, other permit requirements. The Department also administers a number of water-focused public education and outreach programs.

AmeriCorps NJ Watershed Ambassadors Program

The New Jersey Department of Environmental Protection began hosting the AmeriCorps New Jersey Watershed Ambassadors Program (NJWAP) in September of 2000 under an AmeriCorps State contract with the Corporation for National and Community Service. By working with local communities, the NJWAP promotes capacity building by raising public awareness about water quality and watershed issues through direct community involvement. AmeriCorps members are each assigned to one of New Jersey's 20 Watershed Management Areas (WMA) and work with "host" agencies to serve as "Watershed Ambassadors" to their watershed communities. Additional information about the NJWAP, along with a current list of ambassadors and host agencies, is available on the Department's web page at http://www.nj.gov/dep/wms/bears/americorps.htm.

AmeriCorps NJ Watershed Ambassadors train and work with community volunteers to monitor the waters in their community using state and federally-approved visual and biological monitoring techniques. AmeriCorps New Jersey Watershed Ambassadors also visit schools and community organizations to share information and educate the community about water and watershed issues in New Jersey and to encourage students and residents to become involved in protecting their watershed. The Program works to improve water quality by exploring relationships between people and the environment, nurturing community-based environmental activities, and empowering residents to make responsible and informed decisions regarding their watershed to reduce NPS pollution.

Each year, the NJWAP commits to completing a set of objectives that serve to raise awareness of the importance of individual actions in controlling NPS, build capacity at the local level to assess water

quality condition and directly accomplish source control projects. The objectives may be revised from year to year but remain focused on NPS control.

Community Water Monitoring Program (Citizen Science and Volunteer Monitoring)

An important element of non-regulatory NPS control is the cumulative effect of the actions of citizens within their communities. Citizens practice water conservation and participate in stream walks, beach cleanups, and other environmental activities sponsored by community-based organizations. By helping out in such efforts, citizens address New Jersey's largest water quality problem, nonpoint source pollution, advancing the goal of making more of our rivers, lakes, and coastal waters safe for swimming, fishing, drinking, and aquatic life.

The Department's Community Water Monitoring Program https://www.state.nj.us/dep/wms/bears/comm_water_monitoring.htm is the collection of scientific water quality data by concerned citizens working in partnership with professional scientists and government decision-makers. This valuable data helps determine the ecological condition of local waterbodies as well as identify the causes and sources of water quality impairment. Community water monitoring includes both "citizen science" and "volunteer monitoring" activities. The Program provides opportunities for community engagement through the collection of scientific data that helps determine the ecological condition of local waterbodies, as well as causes and sources of impairment. The information provided by citizen volunteers enables the Department to better understand and evaluate what is happening in watershed and assists policy officials in making more informed decisions to protect public health, conserve sensitive habitats, and preserve the integrity of New Jersey's waterways.

The goal of the Department's Community Water Monitoring Program is twofold. First, it strives to support those organizations whose volunteers are monitoring local streams, rivers, and lakes and collecting data for use locally or for inclusion in the Integrated Report, supplementing the Department's networks. Second, the Program anticipates calling upon such organizations and other volunteers to assist the Department collect data for specific research, monitoring and assessment initiatives.

Multiple New Jersey-based resources are available to support community water monitoring. The Department has contracted with Watershed Institute to support a statewide community water monitoring network to oversee the coordination of existing, and creation of new, community-based water quality monitoring programs in new Jersey. To build capacity and partnerships via workshops, trainings, sharing best practices and lessons learned as well as providing small grants across the community. Additional information and assistance may be found at their website, https://thewatershed.org/. AmeriCorps NJ Watershed Ambassadors and members of the New Jersey Water Monitoring Council also serve as resources for community water monitoring activities

Citizen scientists have been and will continue to be called upon to assist with key program initiatives. The model for this was the intensive monitoring program undertaken in support of the Barnegat Bay 10 Point Action Plan. Going forward, a specific geographic area or resource may be targeted by the Department for further research or data collection. Under this template, the Department anticipates

the need for additional resources and staff to accomplish targeted monitoring and will call upon its partners, including the volunteer monitoring programs, to be the "boots on the ground" locally collecting data, monitoring existing or changing conditions and reporting to the Department. Participating by volunteers in these citizen science projects can provide critical data that are then used for water resource protection, conservation, and restoration efforts.

Other Departmental education and outreach programs aimed at improving water quality are:

- The *Clean Water Rangers* publications offer educators free teaching materials and other resources for their students as well as background information on watersheds and nonpoint source pollution.

- "Project WET" (Water Education for Teachers at http://www.projectwet.org/) is an international program that offers teachers a better understanding of the world's water resources through hands-on, multi-disciplinary lessons. Through teacher workshops on multiple curriculum activity guides related to water resources, NJ Project WET teaches about the importance and value of water in our everyday life while offering specialized programs about New Jersey's water resources and watersheds.

- The Urban Watershed Education Program educates young students living in New Jersey's urban estuaries about the hazards of eating contaminated fish and helps them to enjoy and respect their local water resources by focusing on healthier fishing and shell fishing alternatives in their community. This intensive four-day program gives students the opportunity to experience their local waters first-hand through storm drain marking, water monitoring, aquatic biology, and fishing activities. (See https://www.nj.gov/dep/wms/bears/urban_fishing.htm for more information.)

- Clean Water New Jersey is aimed at reducing nonpoint source pollution carried by stormwater runoff by encouraging New Jersey citizens to change behavior that results in water pollution. The campaign includes television commercials, radio ads, posters, a website, and educational brochures. The Clean Water NJ website (www.cleanwaternj.org) provides information to the general public about "stormwater pollution" and what citizens can do to help reduce it in their homes, cars, and communities. The website also provides links to educational resources for teachers and for the general public.

- "SEEDS" is the Department's nationally acclaimed website, the "State Environmental Education Directory", which provides educational materials and links to additional educational resources on many environmental topics, including water pollution, conservation, and stewardship. Additional information about SEEDS is available on the Department's website at http://www.nj.gov/dep/seeds.

5.8 - Regional Water Quality Initiatives

A number of regional initiatives have been formulated to address issues important within those regions. Planning, regulatory, and non-regulatory measures aim to identify and respond to water quality issues in each:

- **Highlands Region Water Resource Protection Program:** The purpose of the Highlands Water Protection and Planning Act (Highlands Act) is to preserve an essential source of clean and plentiful drinking water for one-half of the State's population, and to protect the State's great diversity of natural resources. The Highlands Act establishes a Highlands Preservation Area (Preservation Area) and a Highlands Planning Area (Planning Area), each of roughly 400,000 acres. Additional information about the Highlands Act and its implementation is available on the Department's website at http://www.nj.gov/dep/highlands/.

- **Pinelands Protection Program:** The Pinelands National Reserve (PNR) was created by Congress under the National Parks and Recreation Act of 1978. The PNR is the first National Reserve in the nation. The PNR encompasses approximately 1.1 million acres covering portions of seven counties and all or parts of 56 municipalities. The Pinelands Preserve occupies 22% of New Jersey's land area. It is the largest body of open space on the Mid-Atlantic seaboard between Richmond and Boston and is underlain by aquifers containing 17 trillion gallons of some of the purest water in the land. The Pinelands Comprehensive Management Plan sets forth the regulations and standards designed to promote orderly development of the Pinelands so as to preserve and protect the region's significant and unique ecology and natural resources. The Plan is administered by the New Jersey Pinelands Commission. Additional information is available on the Pinelands Commission website at http://www.state.nj.us/pinelands/index.shtml.

- **Barnegat Bay Partnership (BBP):** The Barnegat Bay Partnership (BBP), operates the Barnegat Bay National Estuary Program and is a partnership of federal, state, and local interests overseeing the development and implementation of a management plan for the entire Barnegat Bay watershed. Additional information about the Barnegat Bay Partnership (BBP), including actions, projects, programs, and publications, is available on the BBP website at http://bbp.ocean.edu.

- **The Delaware Estuary Program (Partnership for the Delaware Estuary):** The Delaware Estuary Program activities are coordinated by the Partnership for the Delaware Estuary (PDE). The PDE is charged with addressing the full complement of actions called for in the CCMP. Additional information about the Partnership for the Delaware Estuary (PDE), including actions, projects, programs, and publications, is available on PDE's website at www.DelawareEstuary.org.

- **New York/New Jersey Harbor Estuary Program (HEP):** The primary focus of the New York/New Jersey Harbor Estuary Program (HEP) is on the core area of the Harbor. Additional information about the New York/New Jersey Harbor Estuary Program (HEP), including actions, projects, programs, and publications, is available on the HEP website at https://www.hudsonriver.org/estuary-program.

5.9 - New Jersey's Wetlands Protection Program

In New Jersey, the chemical, physical, and biological integrity of wetlands is protected under both federal and state laws. Federal protection is provided under sections 303, 401, and 404 of the federal Clean Water Act (the Act). Section 303 provides protection through the antidegradation provisions of the Surface Water Quality Standards. (New Jersey's Surface Water Quality Standards include wetlands in the definition of "surface waters". When USEPA approves the state standards, they become the federal standards for state waters.) Section 401 is designed to allow the state to control any discharges to its waters that may result from the issuance of a federal permit or license, through a certification process. Section 404 addresses and regulates the discharge of dredge and/or fill material into wetlands and other waters of the state. In 1994, New Jersey began implementing its state program in place of the Section 404 program after being granted the authority by USEPA pursuant to Section 404(g) of the Act.

New Jersey has taken a multi-faceted, comprehensive, approach to managing and protecting freshwater and coastal wetlands and developed the New Jersey Wetland Program Plan 2019-2022. This four-year Wetland Program Plan available https://www.nj.gov/dep/dsr/wetlands/New%20Jersey%20Wetland%20Program%20Plan%202019-2022_Full%20Report.pdf is an update of the first Plan developed in 2013 and provides a framework for the State of New Jersey to strengthen the core elements of its wetland program and to continue to reach identified goals. The steps outlined in the plan will serve to direct current and future wetland protection and management efforts along a coordinated path to the benefit of New Jersey's wetland resources and the quality of life for future generations. Additional information about the Department's Wetlands Programs is available on the Department's website at https://www.nj.gov/dep/landuse/fww/fww_main.html.

Wetlands Monitoring, Assessment and Research

The Department, in collaboration with Rutgers University, has been undertaking research focusing on quantitative wetland biological assessment methods. A goal of this research is to explore development of a wetlands index of biotic integrity (IBI) for New Jersey. To date, research has focused on riparian forested wetlands, primarily vegetative species, and macroinvertebrates, including possibly linking to the Department's macroinvertebrate monitoring network for streams.

Long-term monitoring of coastal wetlands in Barnegat Bay and the Delaware Estuary is being conducted by the Partnership for the Delaware Estuary, Academy of Natural Sciences of Drexel University, Barnegat Bay Partnership, and the USFWS. Surface Elevation Tables (SET) and associated wetland assessments utilizing the Mid-Atlantic Tidal Rapid Assessment Method (MidTRAM) are being employed at several sites along the coast to assess the impacts of rising sea level on tidal marsh integrity.

The Department's Coastal Management Program established a Coastal Shoreline Resiliency Program to prioritize and implement ecological restoration and protection of coastal wetlands including the creation of living shorelines to protect vegetated shorelines, beaches, and habitat in the littoral zone of coastal waterways from the effects of erosion due to sea level rise and storm surges.

5.11 - Water Compliance and Enforcement

The Department's Division of Water Compliance and Enforcement is responsible for ensuring compliance with the State's water programs, with a particular focus on inspections of wastewater discharge and drinking water supply facilities. The Department employs site inspections and detailed reviews of reported information to ascertain compliance and takes administrative actions, levies penalties, and where necessary, works cooperatively with criminal prosecutors, to ensure compliance.

In 1990, the Legislature enacted substantial amendments to the Water Pollution Control Act (WPCA), commonly known as the Clean Water Enforcement Act, P.L. 1990, c. 28 (CWEA). The CWEA requires the Department to inspect permitted facilities and municipal treatment works at least annually. The CWEA requires the Department to submit a report on the implementation of the CWEA's requirements to the Governor and the Legislature by March 31 of each year. Copies of these CWEA reports are available on the Department's website at http://www.nj.gov/dep/enforcement/report-cwea.html. Additional information about the Water Compliance and Enforcement is also available on the Department's website at http://www.nj.gov/dep/enforcement/water.html.

5.12 - Water Quality Assurance Program

The Office of Quality Assurance (OQA) administers the Department's Quality Assurance Program, which is required by USEPA to ensure that environmental data used by the Department is generated, compiled, and reviewed using specific quality assurance/quality control (QA/QC) procedures. OQA is responsible for developing and implementing the Department's Quality Management Plan (QMP), which defines the Department's mission and planned quality assurance work outputs for the forthcoming fiscal years. The QMP documents the Department's environmental principles and objectives, organizational responsibilities, and policies and procedures for the generation, compilation, review, and use of data of documented quality. OQA is also responsible for certifying that the laboratories that analyze data used by the Department operate using appropriate quality control measures and analytic methods. Certification is offered through both the State Environmental Laboratory Certification Program and the state-run National Environmental Laboratory Accreditation Program.

5.13 - Ground Water Quality Monitoring and Protection Programs

While the focus of the federal Clean Water Act is the protection of surface waters, New Jersey's Water Quality Planning Act and Water Pollution Control Act explicitly require protection of ground water quality, primarily as a source of potable water supplies. The primary goal of New Jersey's ground water quality programs is to provide safe drinking water, as required under the federal Safe Drinking Water Act (see also Source Water Protection Programs).

Ground Water Quality Standards

The New Jersey Ground Water Quality Standards (GWQS), N.J.A.C 7:9C, establish the designated uses of the State's ground waters, classify ground waters based on those uses, and specify the water quality criteria and other policies and provisions necessary to attain those designated uses. Ground water is classified according to its hydrogeologic characteristics and designated uses. Designated uses are assigned as primary or secondary uses of ground water and include maintenance of special ecological resources, provision of, and conversion to potable water, agricultural and industrial water supply, and other reasonable uses. The GWQS also establish antidegradation policies (see N.J.A.C. 7:9C-1.8), which are designed to protect the existing and designated uses of the State's ground waters.

The GWQS provide the objectives for regulatory and non-regulatory actions to protect and restore ground water quality. Ground water quality criteria are derived using the same human health risk assessments as drinking water maximum contaminant limits established pursuant to the federal Safe Drinking Water Act. More detailed information about the GWQS is available on the Department's website at http://www.state.nj.us/dep/wms/bears/gwqs.htm.

Ground Water Quality Monitoring

The Ambient Ground Water Quality Monitoring Network (AGWQMN) is a cooperative effort by the Department and USGS that monitors and provides information about land use-related nonpoint source contaminant effects on shallow ground water quality in the New Jersey. This information is important because this water recharges deeper aquifers used for potable water supplies and provides base flow to local streams and wetlands. The New Jersey Geological Survey (NJGS) is responsible for network design, well installation, well maintenance, collection of ground water samples, interpretation of data, and publication of reports.

In addition to ambient ground water quality, the Department also conducts sampling of private wells pursuant to the New Jersey Private Well Testing Act. New Jersey requires sampling of private wells when property is sold or leased. Wells statewide are required to be tested for bacteria (total coliform, fecal coliform, and *E. coli*), nitrates, lead, arsenic, gross alpha, uranium, mercury, pH, iron, manganese and 26 volatile organic compounds. All samples are raw water collected prior to any treatment. More details, along with monitoring results, are provided in Appendix F.

5.14 - Air Quality Control

Airborne pollutants from human and natural sources can deposit back onto land and waterbodies, sometimes at great distances from the source, and can be an important contributor to declining water quality. Pollutants in waterbodies that may originate in part from atmospheric sources include nitrogen compounds, sulfur compounds, mercury, pesticides, and other toxics. Both human and natural processes can lead to air pollution. Human sources include the combustion of fossil fuels for power generation and transportation, the release of chemical byproducts from industrial and agricultural processes, and the incineration of waste. Natural processes that can release substantial amounts of pollutants into the air include volcanoes and forest fires.

Airborne pollution can fall to the ground in precipitation, in dust, or simply due to gravity. This type of pollution is called "atmospheric deposition" or "air deposition". Pollution deposited from the air can reach water bodies in two ways. It can either be deposited directly onto the surface of the water (direct deposition) or be deposited onto land and be carried to water bodies through run off (indirect deposition). Once these pollutants are in the water, they can have undesirable health and environmental impacts, such as contaminated fish, harmful algal blooms, and unsafe drinking water.

Addressing water quality impacts from atmospheric deposition of toxics and nitrogen is an increasingly important challenge since these pollutants can adversely impact both human health and the environment. Atmospheric deposition is a major contributor to the overall loading of mercury to U.S. waters. Nationally, mercury is the most frequently listed reason for fish consumption advisories. As of December 1999, 41 States had issued fish advisories for mercury. Additionally, atmospheric deposition of nitrogen contributes to eutrophication in a significant number of our coastal watersheds. According to EPA, roughly 10-40% of the nitrogen that reaches East and Gulf Coast estuaries is transported and deposited via the atmosphere.

Chapter 6: Cost/Benefit Assessment

Although the value of water quality protection is hard to quantify, it is obvious that water quality conditions impact the dollars expended on water-related activities such as recreational boating, swimming, and fishing; dollars generated by commercial fisheries, including shellfish, and the seafood industry; as well as the economic benefit generated by jobs, housing, retail sales, and tourism associated with these industries. Good water quality provides economic benefits associated with recreation, tourism, and marine industries, as well as the resultant tax revenues, and reduces the costs of treatment required to meet drinking water standards for potable water supplies; therefore, protecting, restoring, and maintaining water quality in all our waterways has a direct and positive impact on the State's economy.

It is important for New Jersey's aquatic ecosystems to flourish and persevere over time as well. Aquatic ecosystems provide several long-term economic benefits to society, including ecosystem "services" such as temporary storage of floodwaters by wetlands, water purification from wetlands, and numerous others. In 2007, the Department estimated the economic value of New Jersey's aquatic ecosystems at more than 19 billion dollars (see Table 5.1).[57] These estimated values make it clear that water of a quality and quantity sufficient to support these ecosystems in a state of healthy functioning is an essential part of a natural environment that provides extremely large economic benefits to New Jersey.

Table 5.1: Annual Ecosystem Service Values for Aquatic Ecosystems in New Jersey

[57] NJDEP. Valuing New Jersey's Natural Capital: An Assessment of the Economic Value of the State's Natural Resources. April 2007. http://www.nj.gov/dep/dsr/naturalcap. Table 7.1 is based on data from Table 4 of Part II this report. Dollar amounts were converted from 2004 to 2009 dollars using the change in the Consumer Price Index for All Urban Consumers published by the U.S. Department of Labor's Bureau of Labor Statistics at http://www.bls.gov/cpi/.

Ecosystem Type	Total Acres as of 2002	Ecosystem Service Value (2009 $/acre/yr)	Ecosystem Service Value (2009 $/yr)
Freshwater wetlands	814,479	$13,141	$10,703,270,530
Estuaries	455,700	$13,238	$6,032,469,106
Saltwater wetlands	190,520	$6,965	$1,326,936,744
Coastal shelf	299,835	$1,476	$442,455,715
Beaches/dunes	7,837	$47,879	$375,227,660
Open fresh water	86,232	$869	$74,939,057
Riparian buffers	15,146	$3,842	$58,190,205
Total	**1,869,749**		**$19,013,489,018**

In 2008, the Department estimated the cost of protecting New Jersey's water resources from nonpoint sources alone as more than 17 billion dollars – the highest in the nation. In 2012, the Department calculated over 21 billion dollars in total clean water needs for New Jersey. These numbers were derived from the Clean Watersheds Needs Survey (CWNS) conducted every four years pursuant to CWA Sections 205(a) and 516. The 2012 figure is draft and not final until USEPA submits the Clean Water Needs Survey 2012 Report to Congress later this year. The CWNS is a comprehensive assessment of the capital needs required to meet the CWA's water quality goals. Under the CWNS, USEPA and states collect information about publicly owned wastewater collection and treatment facilities, stormwater and combined sewer overflows (CSOs) control facilities, nonpoint source (NPS) pollution control projects, and decentralized wastewater management. This information includes estimated needs (costs) to address water quality impairment or public health concerns related to water quality. USEPA compiles the CWNS results to document national needs in its Report to Congress. The report provides Congress, as well as state legislatures, with information to assist their budgeting efforts. The data are also used to help measure environmental progress, provide information to the public, and to assist local and state governments implement water quality programs.

New Jersey's 2008 CWNS utilized the Innovative Method option offered by USEPA. This approach included: demonstrating needs utilizing TMDLs, 303(d) Listings, and regulations; choosing best management practices (BMPs) appropriate to address the identified needs (i.e., constructed wetlands, porous pavement, peak reduction, rain gardens and Special Water Resource Protection Area projects); determining an eligible cost for each BMP (USEPA required three actual costs or engineering estimates for each BMP); and applying the needs/costs statewide. USEPA required that information and costs be provided on a HUC 14 subwatershed basis, based on appropriate land uses. Regional costs were adjusted by utilizing location factors. Additional information about the CWNS is available on USEPA's website at http://water.epa.gov/scitech/datait/databases/cwns/index.cfm and at the Department's website at: http://www.nj.gov/dep/dwq/cwns.htm.

For the 2012 draft Clean Water Needs Survey results for New Jersey, the largest cost percent was associated with total wastewater treatment and conveyance needs as well as combined sewer overflow needs at 42% or 16.8 billion dollars. While these cost estimates may seem overwhelming, the economic benefits, as documented above, far outweigh the costs, as shown in Table 7.1. Improved

water quality, achieved through the investments identified in the CWNS, will result in an increase in the number of recreational freshwater fishing licenses issued by the State, increased marine fishing and shellfish harvesting, and a decrease in closures at New Jersey's ocean and bay beaches; all of which provide economic benefits associated with recreation, tourism, and marine industries, as well as the resultant tax revenues. The reduction in combined sewer overflows discharge to New Jersey's waterbodies will improve both aquatic life and recreational designated uses of these waters. The Clean Water Needs Survey is made final upon USEPA's submittal of their *Report to Congress*.

Additional economic benefit is realized from the natural services that help protect and maintain water quality in New Jersey's, including wetlands; marine ecosystems; forests; urban green space; beaches and dunes; agricultural land, cropland, and pasture; and open fresh water and riparian buffers, all of which contribute to ecosystem services ("ecoservices") such as temporary storage of flood waters by wetlands, long-term storage of greenhouse gases in forests, dilution and assimilation of wastes by rivers, recreational opportunities, and numerous others. All of these services provide economic value to society and offset the significant costs borne for their protection.

Appendices

Appendix A: Designated Use Assessment Results

2016 Draft Integrated List of Waters (Integrated List) – Sublists 1-5
2016 Draft Parameter Assessment Results

Appendix B: Causes of Use Non-support (Water Quality Impairment)

2016 Draft 303(d) List of Water Quality Limited Waters (303(d) List) with Sublist 5 Subparts and Priority Ranking for TMDL Development
2016 Draft Two-Year Schedule for Total Maximum Daily Load (TMDL) Development
2016 Draft Assessment Unit/Pollutant Combinations Addressed by a USEPA-approved TMDL (Sublist 4A)

Appendix C: Causes Removed from Sublists 4 or 5

2016 Draft Causes Removed from Sublist 5/303(d) List (Delisted Waters, with Reasons and Explanations)
2016 Draft Causes Removed from Sublist 4 (with Reasons and Explanations)

Appendix D: Causes Not Added to Sublist 5/303(d)

2016 Draft Decisions to Not List Causes on the 2016 303(d) List/Sublist 5 (Waters Not Listed, with Reasons and Explanations)

Appendix E: Data Sources for the 2016 Integrated Report

Appendix F: Ground Water Quality Monitoring Results

Appendix G: New Jersey's Vision Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act Section 303(d) Program

Appendix H: Public Participation

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
15	02040302020030-01	HUC02040302020030	Absecon Creek (AC Reserviors) (gage to SB)	Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
15	02040302020040-01	HUC02040302020040	Absecon Creek (below gage)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
15	02040302020010-01	HUC02040302020010	Absecon Creek NB	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
15	02040302020020-01	HUC02040302020020	Absecon Creek SB	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
14	02040301160110-01	HUC02040301160110	Albertson Brook / Gun Branch	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
11	02040105210010-01	HUC02040105210010	Alexauken Ck (above 74d 55m)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
11	02040105210020-01	HUC02040105210020	Alexauken Ck (below 74d 55m to 11BA06)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206060020-01	HUC02040206060020	Alloway Ck (above Alloway-Woodstown Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
17	02040206060090-01	HUC02040206060090	Alloway Ck (below HancocksBr) to Salem R	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206060080-01	HUC02040206060080	Alloway Ck (HancocksBridge to NewBridge)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206060060-01	HUC02040206060060	Alloway Ck (New Bridge to Quinton)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206060050-01	HUC02040206060050	Alloway Ck (Quinton to Alloway-WdstwnRd)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining
18	02040202120060-01	HUC02040202120060	Almonesson Creek	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
14	02040301160010-01	HUC02040301160010	Alquatka Branch	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
9	02030105120110-01	HUC02030105120110	Ambrose Brook (above/incl Lake Nelson)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	Non Attaining	NA	Non Attaining	NA	Attaining	NA
20	02040201100010-01	HUC02040201100010	Assiscunk Ck (above Rt 206)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
20	02040201100060-01	HUC02040201100060	Assiscunk Ck (below Neck Rd)	Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
20	02040201100040-01	HUC02040201100040	Assiscunk Ck (Jacksonville rd to Rt 206)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
20	02040201100050-01	HUC02040201100050	Assiscunk Ck (Neck Rd to Jacksonville rd)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
11	02040105230010-01	HUC02040105230010	Assunpink Ck (above Assunpink Lake)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
11	02040105240060-01	HUC02040105240060	Assunpink Ck (below Shipetaukin Ck)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
11	02040105230040-01	HUC02040105230040	Assunpink Ck (TrentonRd to NewSharonBr)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
16	02040302940010-01	HUC02040302940010	Atl Coast(34th St to Corson Inl)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
15	02040302920010-01	HUC02040302920010	Atl Coast(Absecon In to Ventnor)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	02040301920010-01	HUC02040301920010	Atl Coast(Barnegat to Surf City)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
16	02040302940050-01	HUC02040302940050	Atl Coast(CM Inlet to Cape May Pt)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
16	02040302940020-01	HUC02040302940020	Atl Coast(Corson to Townsends In)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
15	02040302930010-01	HUC02040302930010	Atl Coast(Great Egg to 34th St)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	02040301920030-01	HUC02040301920030	Atl Coast(Haven Bch to Lit Egg)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
16	02040302940040-01	HUC02040302940040	Atl Coast(Hereford to Cape May In)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	02040301910020-01	HUC02040301910020	Atl Coast(Herring Is to Rt 37)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
14	02040302910010-01	HUC02040302910010	Atl Coast(Ltl Egg to Absecon In)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	02040301910010-01	HUC02040301910010	Atl Coast(Manasquan/Herring Is)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
12	02030104920020-01	HUC02030104920020	Atl Coast(Navesink R to WhalePond)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
16	02040303060201-01	HUC02040303060201	Atl Coast(off Cape May Pt)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	02040301910030-01	HUC02040301910030	Atl Coast(Rt 37 to Barnegat Inlet)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
12	02030104920010-01	HUC02030104920010	Atl Coast(Sandy H to Navesink R)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
12	02030104930020-01	HUC02030104930020	Atl Coast(Shark R to Manasquan)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	02040301920020-01	HUC02040301920020	Atl Coast(Surf City to Haven Be)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
16	02040302940030-01	HUC02040302940030	Atl Coast(Townsends to Hereford In)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
15	02040302920020-01	HUC02040302920020	Atl Coast(Ventnor to Great Egg)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
12	02030104930010-01	HUC02030104930010	Atl Coast(Whale Pond to Shark R)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
12	02030104090090-01	HUC02030104090090	Atl Drainage (Shark R - Deal Lk)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Insufficient Data
15	02040302050020-01	HUC02040302050020	Babcock Creek (GEHR)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105030050-01	HUC02030105030050	Back Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
20	02040201070010-01	HUC02040201070010	Back Creek (above Yardville-H Sq Road)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206100030-01	HUC02040206100030	Back Creek (Sea Breeze Rd to Cedar Ck)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
14	02040301200070-01	HUC02040301200070	Ballanger Creek	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
7	02030104050030-01	HUC02030104050030	Baltusrol trib (above Springfield Sta)	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
9	02030105150050-01	HUC02030105150050	Barclay Brook	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
20	02040201100020-01	HUC02040201100020	Barkers Brook (above 40d02m30s)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	BarnegatBay07	BarnegatBay07	Barnegat Bay Central Bottom	Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	BarnegatBay06	BarnegatBay06	Barnegat Bay Central East	Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	BarnegatBay05	BarnegatBay05	Barnegat Bay Central West	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
13	02040301100020-01	HUC02040301100020	Barnegat Cntrl tribs (CedarCk - Forked R)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Attaining
13	02040301050040-01	HUC02040301050040	Barnegat North tribs (Tide Ck to Rt 37)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data
13	02040301120020-01	HUC02040301120020	Barnegat South tribs (below Lochiel Ck)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Attaining
17	02040206090010-01	HUC02040206090010	Barrett Run (above West Ave)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
19	02040202060040-01	HUC02040202060040	Barton Run (above Kettle Run Road)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
19	02040202060050-01	HUC02040202060050	Barton Run (below Kettle Run Road)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
14	02040301200060-01	HUC02040301200060	Bass River (below WB / EB)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
14	02040301200050-01	HUC02040301200050	Bass River EB	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
14	02040301200040-01	HUC02040301200040	Bass River WB	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
14	02040301150010-01	HUC02040301150010	Batsto River (above Hampton Gate)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
14	02040301150080-01	HUC02040301150080	Batsto River (Batsto gage to Quaker Bridge)	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
14	02040301150050-01	HUC02040301150050	Batsto River (CNJRR to Hampton Gate)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA

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14	02040301150060-01	HUC02040301150060	Batsto River (Quaker Bridge to CNJRR)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
10	02030105100120-01	HUC02030105100120	Bear Brook (above Trenton Road)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
1	02040105080010-01	HUC02040105080010	Bear Brook (Sussex/Warren Co)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105080020-01	HUC02040105080020	Bear Creek	Attaining	Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
19	02040202060060-01	HUC02040202060060	Bear Swamp River	Non Attaining	NA	Insufficient Data	Insufficient Data	Attaining	NA
14	02040301200010-01	HUC02040301200010	Beaver Branch (Wading River)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
1	02040105100030-01	HUC02040105100030	Beaver Brook (above Hope Village)	Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	NA
1	02040105100040-01	HUC02040105100040	Beaver Brook (below Hope Village)	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
8	02030105020050-01	HUC02030105020050	Beaver Brook (Clinton)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
6	02030103030110-01	HUC02030103030110	Beaver Brook (Morris County)	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202160040-01	HUC02040202160040	Beaver Creek (Oldmans Creek)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
2	02020007010060-01	HUC02020007010060	Beaver Run	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
13	02040301040010-01	HUC02040301040010	Beaverdam Creek	Non Attaining	NA	Insufficient Data	Insufficient Data	Attaining	Non Attaining
10	02030105110040-01	HUC02030105110040	Beden Brook (above Province Line Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105110050-01	HUC02030105110050	Beden Brook (below Province Line Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
3	02030103070010-01	HUC02030103070010	Belcher Creek (above Pinecliff Lake)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
3	02030103070020-01	HUC02030103070020	Belcher Creek (Pinecliff Lake & below)	Attaining	Attaining	Insufficient Data	Attaining	Attaining	NA
17	02040206180040-01	HUC02040206180040	Berryman Branch (Menantico Creek)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	NA
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	NA
16	02040206230010-01	HUC02040206230010	Bidwell Creek (above Rt 47)	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining
16	02040206230020-01	HUC02040206230020	Bidwell Creek (below Rt 47)-Dias to GoshenCk	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
12	02030104070030-01	HUC02030104070030	Big Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040104140010-01	HUC02040104140010	Big Flat Brook (above Forked Brook)	Insufficient Data	NA	Non Attaining	Insufficient Data	Attaining	NA
1	02040104140040-01	HUC02040104140040	Big Flat Brook (Confluence to Kittle Rd)	Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040104140030-01	HUC02040104140030	Big Flat Brook (Kittle Rd to Forked Bk)	Insufficient Data	Insufficient Data	Insufficient Data	Attaining	Attaining	NA
18	02040202120080-01	HUC02040202120080	Big Timber Creek (below NB/SB confl)	Insufficient Data	NA	Non Attaining	Attaining	Insufficient Data	NA
18	02040202120010-01	HUC02040202120010	Big Timber Creek NB (above Laurel Rd)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202120020-01	HUC02040202120020	Big Timber Creek NB (below Laurel Rd)	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202120030-01	HUC02040202120030	Big Timber Creek SB (above Lakeland Rd)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
18	02040202120050-01	HUC02040202120050	Big Timber Creek SB (below Bull Run)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
18	02040202120040-01	HUC02040202120040	Big Timber Creek SB (incl Bull Run to LakelandRd)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202150070-01	HUC02040202150070	Birch Creek	Insufficient Data	NA	Non Attaining	NA	Attaining	NA
19	02040202030080-01	HUC02040202030080	Bisphams Mill Creek (below McDonalds Br)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
6	02030103010060-01	HUC02030103010060	Black Brook (Great Swamp NWR)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103020070-01	HUC02030103020070	Black Brook (Hanover)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
2	02020007040010-01	HUC02020007040010	Black Creek (above/incl G.Gorge Resort trib)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
2	02020007040020-01	HUC02020007040020	Black Creek (below G. Gorge Resort trib)	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301070050-01	HUC02040301070050	Blacks Branch (above 74d22m05s)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
20	02040201080010-01	HUC02040201080010	Blacks Creek (above 40d06m10s)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
20	02040201080020-01	HUC02040201080020	Blacks Creek (Bacons Run to 40d06m10s)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
20	02040201080030-01	HUC02040201080030	Blacks Creek (below Bacons Run)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
17	02040206140040-01	HUC02040206140040	Blackwater Branch (above/incl Pine Br)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206140050-01	HUC02040206140050	Blackwater Branch (below Pine Branch)	Insufficient Data	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105050020-01	HUC02040105050020	Blair Creek	Attaining	Non Attaining	Insufficient Data	Attaining	Attaining	NA
14	02040301160100-01	HUC02040301160100	Blue Anchor Brook	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
19	02040202070010-01	HUC02040202070010	Bobbys Run	Non Attaining	NA	Non Attaining	Insufficient Data	Attaining	NA
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
12	02030104080030-01	HUC02030104080030	Branchport Creek	Non Attaining	NA	Non Attaining	Insufficient Data	Non Attaining	Non Attaining
17	02040206100020-01	HUC02040206100020	Bridges Sticks Creek / Ogden Creek	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
20	02040201040010-01	HUC02040201040010	Brindle Lake and above (Jumping Brook)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
1	02040105110020-01	HUC02040105110020	Buckhorn Creek (incl UDRV)	Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
19	02040202030050-01	HUC02040202030050	Bucks Cove Run / Cranberry Branch	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
17	02040206170040-01	HUC02040206170040	Buckshutem Creek (above Rt 555)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
17	02040206170050-01	HUC02040206170050	Buckshutem Creek (below Rt 555)	Attaining	NA	Non Attaining	Non Attaining	Non Attaining	Non Attaining
14	02040301170050-01	HUC02040301170050	Bull Creek / Little Bull Creek	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
8	02030105060020-01	HUC02030105060020	Burnett Brook (above Old Mill Rd)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Attaining	NA
17	02040206140020-01	HUC02040206140020	Burnt Mill Branch / Hudson Branch	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
19	02040202050010-01	HUC02040202050010	Burrs Mill Bk (above 39d51m30s road)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
19	02040202050020-01	HUC02040202050020	Burrs Mill Bk (Burnt Br Br- 39-51-30 rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
19	02040202050030-01	HUC02040202050030	Burrs Mill Bk (BurrsMill to Burnt Br Br)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
8	02030105020060-01	HUC02030105020060	Cakepoulin Creek	Non Attaining	Non Attaining	Non Attaining	Attaining	Attaining	NA
6	02030103010140-01	HUC02030103010140	Canoe Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206070030-01	HUC02040206070030	Canton Drain (above Maskell Mill)	Insufficient Data	NA	Non Attaining	Insufficient Data	Attaining	NA
17	02040206070040-01	HUC02040206070040	Canton Drain (below Maskell Mill)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
16	02040302080040-01	HUC02040302080040	Cape May Bays (Reubens Wharf-BigElderCk)	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
16	02040302080070-01	HUC02040302080070	Cape May Bays (Rt 47 to Reubens Wharf)	Non Attaining	NA	Insufficient Data	NA	Attaining	Non Attaining
16	02040302080050-01	HUC02040302080050	Cape May Courthouse tribs	Non Attaining	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
16	02040302080090-01	HUC02040302080090	Cape May Harbor & Bays (below Rt 47)	Non Attaining	NA	Insufficient Data	NA	Attaining	Non Attaining

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17	02040206180020-01	HUC02040206180020	Cedar Branch (Menantico Creek)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
10	02030105100080-01	HUC02030105100080	Cedar Brook (Cranbury Brook)	Non Attaining	NA	Insufficient Data	Insufficient Data	Attaining	NA
17	02040206060030-01	HUC02040206060030	Cedar Brook / Carlisle Run	Insufficient Data	NA	Insufficient Data	Attaining	Insufficient Data	NA
13	02040301090030-01	HUC02040301090030	Cedar Creek (74-16-38 to Chamberlain Br)	Insufficient Data	NA	Insufficient Data	Attaining	Attaining	NA
17	02040206100040-01	HUC02040206100040	Cedar Creek (above Rt 553)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
13	02040301090060-01	HUC02040301090060	Cedar Creek (below GS Parkway)	Attaining	NA	Insufficient Data	Attaining	Attaining	Non Attaining
17	02040206100050-01	HUC02040206100050	Cedar Creek (below Rt 553)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
13	02040301090050-01	HUC02040301090050	Cedar Creek (GS Parkway to 74d16m38s)	Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
13	02040301130040-01	HUC02040301130040	Cedar Run	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	Non Attaining
15	02040302070090-01	HUC02040302070090	Cedar Swamp Ck (below Rt 50)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
15	02040302070080-01	HUC02040302070080	Cedar Swamp Ck/Cedar Swamp (above Rt 50)	Insufficient Data	NA	Insufficient Data	Attaining	Insufficient Data	Non Attaining
13	02040301090020-01	HUC02040301090020	Chamberlain Branch	Insufficient Data	NA	Insufficient Data	Attaining	Attaining	NA
8	02030105070020-01	HUC02030105070020	Chambers Brook	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
17	02040206160020-01	HUC02040206160020	Chatfield Branch (Mill Creek)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
12	02030104060010-01	HUC02030104060010	Cheesequake Creek / Whale Creek	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
18	02040202130030-01	HUC02040202130030	Chestnut Branch (above Sewell)	Non Attaining	NA	Non Attaining	Insufficient Data	Attaining	NA
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	Non Attaining	NA	Non Attaining	Insufficient Data	Non Attaining	Non Attaining
14	02040301160090-01	HUC02040301160090	Clark Branch (above/incl Price Branch)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
14	02040301200090-01	HUC02040301200090	Clarks Mill Stream	Attaining	NA	Insufficient Data	Insufficient Data	Attaining	NA
3	02030103050040-01	HUC02030103050040	Clinton Reservior/Mossmans Brook	Attaining	Non Attaining	Non Attaining	Non Attaining	Attaining	NA
1	02040104090020-01	HUC02040104090020	Clove Brook (Delaware R)	Attaining	Attaining	Non Attaining	Attaining	Insufficient Data	NA
2	02020007020060-01	HUC02020007020060	Clove Brook (Papakating Ck)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
17	02040206090060-01	HUC02040206090060	Cohansey R (75d15m to/incl Rocaps Run)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206090070-01	HUC02040206090070	Cohansey R (75d17m50s to 75d15m)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206080010-01	HUC02040206080010	Cohansey R (above Beals Mill)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
17	02040206090100-01	HUC02040206090100	Cohansey R (below Greenwich)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206090080-01	HUC02040206090080	Cohansey R (Greenwich to 75d17m50s)	Insufficient Data	NA	Non Attaining	Attaining	Insufficient Data	Non Attaining
17	02040206080040-01	HUC02040206080040	Cohansey R (incl Beebe Run to HandsPond)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
17	02040206080050-01	HUC02040206080050	Cohansey R (incl CornwellRun - BeebeRun)	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
17	02040206080020-01	HUC02040206080020	Cohansey R (incl HandsPond - Beals Mill)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
17	02040206090030-01	HUC02040206090030	Cohansey R (Rocaps Run to Cornwell Run)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	Non Attaining
8	02030105050060-01	HUC02030105050060	Cold Brook	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
5	02030103180010-01	HUC02030103180010	Coles Brook / Van Saun Mill Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302040050-01	HUC02040302040050	Collings Lakes trib (Hospitality Branch)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
17	02040206060010-01	HUC02040206060010	Cool Run	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	Insufficient Data	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202110010-01	HUC02040202110010	Cooper River NB (above Springdale Road)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202110020-01	HUC02040202110020	Cooper River NB (below Springdale Road)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
16	02040302080020-01	HUC02040302080020	Corson Inlet & Sound / Ludlam Bay	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
16	02040206230060-01	HUC02040206230060	Cox Hall Creek / Mickels Run (to Villas)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data
20	02040201090010-01	HUC02040201090010	Crafts Creek (above Rt 206)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
20	02040201090020-01	HUC02040201090020	Crafts Creek (below Rt 206)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
1	02040105150060-01	HUC02040105150060	Cranberry Lake / Jefferson Lake & tribs	Non Attaining	Non Attaining	Non Attaining	Attaining	Insufficient Data	NA
10	02030105100070-01	HUC02030105100070	Cranbury Brook (above NJ Turnpike)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
10	02030105100090-01	HUC02030105100090	Cranbury Brook (below NJ Turnpike)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
16	02040302080010-01	HUC02040302080010	Crook Horn Creek (above Devils Island)	Non Attaining	NA	Insufficient Data	NA	Attaining	Non Attaining
20	02040201070020-01	HUC02040201070020	Crosswicks Ck (below Doctors Creek)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
20	02040201050050-01	HUC02040201050050	Crosswicks Ck (Ellisdale trib - Walnford)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
20	02040201050030-01	HUC02040201050030	Crosswicks Ck (Lahaway Ck to New Egypt)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
20	02040201040070-01	HUC02040201040070	Crosswicks Ck (NewEgypt to/incl NorthRun)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
20	02040201050040-01	HUC02040201050040	Crosswicks Ck (Walnford to Lahaway Ck)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
10	02030105110090-01	HUC02030105110090	Cruser Brook / Roaring Brook	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
3	02030103100060-01	HUC02030103100060	Crystal Lake/Pond Brook	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
9	02030105120070-01	HUC02030105120070	Cuckels Brook	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
1	02040105040010-01	HUC02040105040010	Culvers Creek	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
13	02040301080030-01	HUC02040301080030	Davenport Branch (above Pinewald Road)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
13	02040301080040-01	HUC02040301080040	Davenport Branch (below Pinewald Road)	Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
6	02030103010080-01	HUC02030103010080	Dead River (above Harrisons Brook)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
6	02030103010100-01	HUC02030103010100	Dead River (below Harrisons Brook)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
12	02030104090030-01	HUC02030104090030	Deal Lake	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
9	02030105160010-01	HUC02030105160010	Deep Run (above Monmouth Co line)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206060040-01	HUC02040206060040	Deep Run (Alloway)	Insufficient Data	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
9	02030105160040-01	HUC02030105160040	Deep Run (below Rt 9)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302040120-01	HUC02040302040120	Deep Run (GEHR)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
9	02030105160020-01	HUC02030105160020	Deep Run (Rt 9 to Monmouth Co line)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
4	02030103120060-01	HUC02030103120060	Deepavaal Brook	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
11	02040105200070-01	HUC02040105200070	Del R -Lambertville to Bulls Island	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	NA
1	02040105060020-01	HUC02040105060020	Delawanna Creek (incl UDRV)	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Insufficient Data	NA
17	Delaware River 6	Delaware River 6	Delaware Bay Zone 6 (New Jersey portion)	Non Attaining	NA	Non Attaining	NA	Attaining	Non Attaining
1	Delaware River 2	Delaware River 2	Delaware River 1C	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
1	Delaware River 8	Delaware River 8	Delaware River 1D	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
11	Delaware River 14	Delaware River 14	Delaware River 1E	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
20	Delaware River 15	Delaware River 15	Delaware River 2	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
18	Delaware River 16	Delaware River 16	Delaware River 3	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
18	Delaware River 17	Delaware River 17	Delaware River 4	Non Attaining	NA	Non Attaining	NA	Attaining	NA
17	Delaware River 18	Delaware River 18	Delaware River 5	Insufficient Data	NA	Non Attaining	NA	Attaining	NA
6	02030103030120-01	HUC02030103030120	Den Brook	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	Insufficient Data	NA
16	02040206220010-01	HUC02040206220010	Dennis Ck / Cedar Swamp (Rt 47 to Rt 550)	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data
16	02040206220040-01	HUC02040206220040	Dennis Creek (below Jakes Landing Rd)	Non Attaining	NA	Non Attaining	Attaining	Attaining	Insufficient Data
16	02040206220030-01	HUC02040206220030	Dennis Creek (Jakes Landing Rd to Rt 47)	Attaining	NA	Non Attaining	Non Attaining	Attaining	Insufficient Data
10	02030105100110-01	HUC02030105100110	Devils Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
16	02040206230030-01	HUC02040206230030	Dias Creek	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data
13	02040301130070-01	HUC02040301130070	Dinner Point Creek & tribs	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
17	02040206110050-01	HUC02040206110050	Dividing Creek (above Mill Creek)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206110060-01	HUC02040206110060	Dividing Creek (below Mill Creek)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
20	02040201060010-01	HUC02040201060010	Doctors Creek (above 74d28m40s)	Insufficient Data	NA	Insufficient Data	Non Attaining	Attaining	NA
20	02040201060020-01	HUC02040201060020	Doctors Creek (Allentown to 74d28m40s)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
20	02040201060030-01	HUC02040201060030	Doctors Creek (below Allentown)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
13	02040301060050-01	HUC02040301060050	Dove Mill Branch (Toms River)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
8	02030105010010-01	HUC02030105010010	Drakes Brook (above Eyland Ave)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
8	02030105010020-01	HUC02030105010020	Drakes Brook (below Eyland Ave)	Attaining	Insufficient Data	Insufficient Data	Attaining	Insufficient Data	NA
1	02040105040020-01	HUC02040105040020	Dry Brook	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
20	02040201030010-01	HUC02040201030010	Duck Creek and UDRV to Assunpink Ck	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
10	02030105090080-01	HUC02030105090080	Duck Pond Run	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
9	02030105160030-01	HUC02030105160030	Duhernal Lake / Iresick Brook	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
1	02040104240020-01	HUC02040104240020	Dunnfield Creek (incl UDRV)	Attaining	Attaining	Insufficient Data	Non Attaining	Attaining	NA
5	02030103170050-01	HUC02030103170050	Dwars Kill	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
16	02040206210060-01	HUC02040206210060	East Creek	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Insufficient Data
18	02040202130050-01	HUC02040202130050	Edwards Run	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
7	02030104020010-01	HUC02030104020010	Elizabeth R (above I-78)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA

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7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
20	02040201050060-01	HUC02040201050060	Ellisdale trib (Crosswicks Creek)	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
15	02040302050090-01	HUC02040302050090	English Ck / Flat Ck / Cranberry Ck	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining
13	02040301090040-01	HUC02040301090040	Factory Br / Newbolds Br / Daniels Br	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
17	02040206040020-01	HUC02040206040020	Fenwick Creek / Keasbeys Creek	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
11	02040105210050-01	HUC02040105210050	Fiddlers Creek (Jacobs Ck to Moore Ck)	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	NA
8	02030105030010-01	HUC02030105030010	First Neshanic River	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	NA
17	02040206070010-01	HUC02040206070010	Fishing Creek / Bucks Ditch / Pattys Fork	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
16	02040206230050-01	HUC02040206230050	Fishing Creek / Fishing Mill Stream	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	Insufficient Data
1	02040104150020-01	HUC02040104150020	Flat Brook (below Tillman Brook)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040104150010-01	HUC02040104150010	Flat Brook (Tillman Brook to Confluence)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040104140020-01	HUC02040104140020	Forked Brook / Parker Brook	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	Attaining	NA
13	02040301110030-01	HUC02040301110030	Forked River (below NB incl Mid/South Br)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	Non Attaining
13	02040301110010-01	HUC02040301110010	Forked River NB (above old RR grade)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
13	02040301110020-01	HUC02040301110020	Forked River NB (below old RR grade)	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
17	02040206110020-01	HUC02040206110020	Fortesque Ck / Fishing Ck / Straight Ck	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
15	02040302030030-01	HUC02040302030030	Four Mile Branch (GEHR)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301130010-01	HUC02040301130010	Four Mile Branch (Mill Creek)	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
2	02020007010030-01	HUC02020007010030	Franklin Pond Creek	Insufficient Data	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
19	02040202050040-01	HUC02040202050040	Friendship Creek (above Burrs Mill Bk)	Non Attaining	NA	Insufficient Data	Insufficient Data	Attaining	NA
19	02040202050050-01	HUC02040202050050	Friendship Creek (below/incl Burrs Mill Bk)	Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
1	02040105090050-01	HUC02040105090050	Furnace Brook	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	Insufficient Data	NA
17	02040206030050-01	HUC02040206030050	Game Creek (above Rt 48)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
17	02040206030070-01	HUC02040206030070	Game Creek (below Rt 48)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
19	02040202020010-01	HUC02040202020010	Gaunts Brook / Hartshorne Mill Stream	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
15	02040302060040-01	HUC02040302060040	GEH Bay/Lakes Bay/Skull Bay/Peck Bay	Non Attaining	NA	Insufficient Data	NA	Attaining	Non Attaining
15	02040302040080-01	HUC02040302040080	GEHR (39d32m50s to Hospitality Branch)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
15	02040302030010-01	HUC02040302030010	GEHR (above New Freedom Rd)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
15	02040302030020-01	HUC02040302030020	GEHR (AC Expressway to New Freedom Rd)	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
15	02040302030040-01	HUC02040302030040	GEHR (Broad Lane road to AC Expressway)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
15	02040302050140-01	HUC02040302050140	GEHR (GEH Bay to Gibson Ck)	Non Attaining	NA	Attaining	NA	Insufficient Data	Non Attaining
15	02040302050130-01	HUC02040302050130	GEHR (GEH Bay to Miry Run)	Insufficient Data	NA	Attaining	NA	Insufficient Data	Non Attaining
15	02040302030080-01	HUC02040302030080	GEHR (Hospitality Br to Piney Hollow Rd)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
15	02040302040130-01	HUC02040302040130	GEHR (Lake Lenape to Mare Run)	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
15	02040302040110-01	HUC02040302040110	GEHR (Mare Run to Rt 322)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
15	02040302050060-01	HUC02040302050060	GEHR (Miry Run to Lake Lenape)	Insufficient Data	NA	Attaining	NA	Insufficient Data	Non Attaining
15	02040302030060-01	HUC02040302030060	GEHR (Piney Hollow Rd to Broad Lane rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
15	02040302040090-01	HUC02040302040090	GEHR (Rt 322 to 39d32m50s)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
15	02040302050100-01	HUC02040302050100	Gibson Creek / Jackson Creek	Attaining	NA	Insufficient Data	Attaining	Attaining	Non Attaining
4	02030103120050-01	HUC02030103120050	Goffle Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302050050-01	HUC02040302050050	Gravelly Run (above Gravelly Run road)	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
14	02040301210040-01	HUC02040301210040	Great Bay	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Attaining
14	02040301210050-01	HUC02040301210050	Great Bay tribs	Non Attaining	NA	Insufficient Data	NA	Insufficient Data	Attaining
6	02030103010030-01	HUC02030103010030	Great Brook (above Green Village Rd)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
6	02030103010050-01	HUC02030103010050	Great Brook (below Green Village Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
9	02030105130010-01	HUC02030105130010	Great Ditch / Pigeon Swamp	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
14	02040301160120-01	HUC02040301160120	Great Swamp Branch (above Rt 206)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
14	02040301160130-01	HUC02040301160130	Great Swamp Branch (below Rt 206)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
9	02030105120010-01	HUC02030105120010	Green Bk (above/incl Blue Brook)	Attaining	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	NA
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
9	02030105120040-01	HUC02030105120040	Green Bk (Bound Bk to N Plainfield gage)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
9	02030105120020-01	HUC02030105120020	Green Bk (N Plainfield gage to Blue Bk)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206140030-01	HUC02040206140030	Green Branch / Endless Branch	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
16	02040206230040-01	HUC02040206230040	Green Ck (Norburys Landng to Pierces Pt)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data
6	02030103030050-01	HUC02030103030050	Green Pond Brook (above Burnt Meadow Bk)	Insufficient Data	Insufficient Data	Insufficient Data	Attaining	Insufficient Data	NA
6	02030103030060-01	HUC02030103030060	Green Pond Brook (below Burnt Meadow Bk)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
19	02040202030090-01	HUC02040202030090	Greenwood Br (below CountryLk & MM confl)	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
6	02030103020030-01	HUC02030103020030	Greystone / Watnong Mtn tribs	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
14	02040301160160-01	HUC02040301160160	Gun Branch	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
5	02030103170030-01	HUC02030103170030	Hackensack R (above Old Tappan gage)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	Non Attaining	NA	Non Attaining	NA	Attaining	NA
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	Non Attaining	NA	Non Attaining	NA	Attaining	NA
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	NA
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	Insufficient Data	NA	Non Attaining	NA	Attaining	NA
11	02040105170020-01	HUC02040105170020	Hakihokake Creek	Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302070070-01	HUC02040302070070	Halfway Creek	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
14	02040301170030-01	HUC02040301170030	Hammonton Creek (below Columbia Rd)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA

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14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206170010-01	HUC02040206170010	Hankins Pond trib (Millville)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
2	02020007010050-01	HUC02020007010050	Hardistonville tribs	Insufficient Data	Insufficient Data	Insufficient Data	Attaining	Insufficient Data	NA
11	02040105170030-01	HUC02040105170030	Harihokake Creek (and to Hakihokake Ck)	Non Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
17	02040206060070-01	HUC02040206060070	Harmony trib (Alloway Creek)	Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining
13	02040301070020-01	HUC02040301070020	Harris Branch / Bordens Mill Branch	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
6	02030103010090-01	HUC02030103010090	Harrisons Brook	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
19	02040202060030-01	HUC02040202060030	Haynes Creek (below Lake Pine)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
14	02040301160050-01	HUC02040301160050	Hays Mill Creek (above Tremont Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
13	02040301020030-01	HUC02040301020030	Haystack Brook	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105030030-01	HUC02030105030030	Headquarters trib (Third Neshanic River)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
10	02030105110010-01	HUC02030105110010	Heathcote Brook	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
6	02030103030100-01	HUC02030103030100	Hibernia Brook	Insufficient Data	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
2	02020007040040-01	HUC02020007040040	Highland Lake/Wawayanda Lake	Insufficient Data	Insufficient Data	Non Attaining	Attaining	Insufficient Data	NA
5	02030103180020-01	HUC02030103180020	Hirshfeld Brook	Insufficient Data	NA	Insufficient Data	Attaining	Insufficient Data	NA
4	02030103140010-01	HUC02030103140010	Hohokus Bk (above Godwin Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
4	02030103140030-01	HUC02030103140030	Hohokus Bk (below Pennington Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
4	02030103140020-01	HUC02030103140020	Hohokus Bk (Pennington Ave to Godwin Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105040030-01	HUC02030105040030	Holland Brook	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
11	02040105170010-01	HUC02040105170010	Holland Twp (Hakihokake to Musconetcong)	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	NA
1	02040105100020-01	HUC02040105100020	Honey Run	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
12	02030104070010-01	HUC02030104070010	Hop Brook	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206060100-01	HUC02040206060100	Hope Creek / Artificial Island	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
15	02040302040010-01	HUC02040302040010	Hospitality Br (above Whitehouse Rd)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
15	02040302040070-01	HUC02040302040070	Hospitality Br (below Piney Hollow Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
15	02040302040030-01	HUC02040302040030	Hospitality Br (Piney HollowRd to Rt538)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
15	02040302040020-01	HUC02040302040020	Hospitality Br (Rt 538 to Whitehouse Rd)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	Non Attaining	NA	Non Attaining	NA	Attaining	NA
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	Non Attaining	NA	Non Attaining	NA	Attaining	NA
17	02040206130030-01	HUC02040206130030	Indian Branch (Scotland Run)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
14	02040301170090-01	HUC02040301170090	Indian Cabin Creek	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
17	02040206090020-01	HUC02040206090020	Indian Fields Branch / Jackson Run	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
14	02040301150030-01	HUC02040301150030	Indian Mills Brook / Muskingum Brook	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206150040-01	HUC02040206150040	Indian Run (Muddy Run)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
9	02030105130040-01	HUC02030105130040	Ireland Brook	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA

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1	02040105050030-01	HUC02040105050030	Jacksonburg Creek	Attaining	Insufficient Data	Insufficient Data	Attaining	Attaining	NA
20	02040201100030-01	HUC02040201100030	Jacksonville trib (above Barkers Brook)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
11	02040105210060-01	HUC02040105210060	Jacobs Creek (above Woolsey Brook)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
11	02040105210070-01	HUC02040105210070	Jacobs Creek (below/incl Woolsey Brook)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
19	02040202050070-01	HUC02040202050070	Jade Run	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
13	02040301080070-01	HUC02040301080070	Jakes Branch (Lower Toms River)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
12	02030104090050-01	HUC02030104090050	Jumping Brook (Monmouth Co)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
20	02040201040040-01	HUC02040201040040	Jumping Brook (Ocean Co)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
13	02040301050010-01	HUC02040301050010	Kettle Creek (above Lake Riviera outlet)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
13	02040301050020-01	HUC02040301050020	Kettle Creek (below Lake Riviera outlet)	Insufficient Data	NA	Insufficient Data	Non Attaining	Insufficient Data	Non Attaining
19	02040202060010-01	HUC02040202060010	Kettle Run (above Centennial Lake)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	Non Attaining	NA	Non Attaining	NA	Attaining	NA
11	02040105170070-01	HUC02040105170070	Kingwood Twp (Rt 519 to Warford Ck)	Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Attaining	NA
11	02040105170060-01	HUC02040105170060	Kingwood Twp(Warford-Little Nishisakawk)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
1	02040105040040-01	HUC02040105040040	Lafayette Swamp tribs	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
20	02040201050010-01	HUC02040201050010	Lahaway Ck (above Prospertown)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
20	02040201050020-01	HUC02040201050020	Lahaway Ck (Allentwn/NE Road-Prospertown)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105150020-01	HUC02040105150020	Lake Hopatcong	Non Attaining	Non Attaining	Non Attaining	Attaining	Insufficient Data	NA
1	02040105040030-01	HUC02040105040030	Lake Kemah tribs	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
1	02040105070010-01	HUC02040105070010	Lake Lenape trib	Insufficient Data	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
19	02040202060020-01	HUC02040202060020	Lake Pine / Centennial Lake & tribs	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
15	02040302050110-01	HUC02040302050110	Lakes Creek (GEHR)	Non Attaining	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
8	02030105050010-01	HUC02030105050010	Lamington R (above Rt 10)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
8	02030105050030-01	HUC02030105050030	Lamington R (Furnace Rd to Hillside Rd)	Attaining	Insufficient Data	Insufficient Data	Attaining	Non Attaining	NA
8	02030105050070-01	HUC02030105050070	Lamington R (HallsBrRd-HerzogBrk)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
8	02030105050130-01	HUC02030105050130	Lamington R (Hertzog Brk to Pottersville gage)	Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
8	02030105050020-01	HUC02030105050020	Lamington R (Hillside Rd to Rt 10)	Non Attaining	Insufficient Data	Insufficient Data	Attaining	Non Attaining	NA
8	02030105050040-01	HUC02030105050040	Lamington R (Pottersville gage-FurnaceRd)	Attaining	Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
14	02040301170100-01	HUC02040301170100	Landing Creek (above Rt 563)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
14	02040301170120-01	HUC02040301170120	Landing Creek (below Indian Cabin Ck)	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	Non Attaining
14	02040301170110-01	HUC02040301170110	Landing Creek (Indian Cabin Ck to Rt563)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
9	02030105130020-01	HUC02030105130020	Lawrence Bk (above Deans Pond dam)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA

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20	02040201090030-01	HUC02040201090030	LDRV tribs (Assiscunk Ck to Blacks Ck)	Non Attaining	NA	Non Attaining	Insufficient Data	Attaining	NA
20	02040201110010-01	HUC02040201110010	LDRV tribs (Beverly to Assiscunk Ck)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
20	02040201090040-01	HUC02040201090040	LDRV tribs (Bustleton Creek area)	Insufficient Data	NA	Non Attaining	Non Attaining	Insufficient Data	NA
17	02040206020010-01	HUC02040206020010	LDRV tribs (Lakeview Ave to Oldmans Ck)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
17	02040206020020-01	HUC02040206020020	LDRV tribs (Marsh Pt-Main St Pennsville)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
18	02040202110070-01	HUC02040202110070	LDRV tribs (Pennsauken Ck to 28th St)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
17	02040206160010-01	HUC02040206160010	Lebanon Branch (Mill Creek)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
13	02040301140040-01	HUC02040301140040	LEH Bay tribs (Westecunk Ck-Tuckerton Ck)	Non Attaining	NA	Insufficient Data	NA	Insufficient Data	Attaining
13	02040301140050-01	HUC02040301140050	LEH Bay tribs (Willis Creek to LE Inlet)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Attaining
3	02030103110010-01	HUC02030103110010	Lincoln Park tribs (Pompton River)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
14	02040301210030-01	HUC02040301210030	Little Bay & tribs	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Attaining
19	02040202060070-01	HUC02040202060070	Little Creek (above Bear Swamp River)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
19	02040202060090-01	HUC02040202060090	Little Creek (below Bear Swamp River)	Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
17	02040206120010-01	HUC02040206120010	Little Ease Run (above Academy Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
17	02040206120020-01	HUC02040206120020	Little Ease Run (below Academy Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040104130010-01	HUC02040104130010	Little Flat Brook (Beerskill and above)	Attaining	Non Attaining	Non Attaining	Attaining	Attaining	NA
1	02040104130030-01	HUC02040104130030	Little Flat Brook (Confluence to Layton)	Attaining	Non Attaining	Insufficient Data	Attaining	Attaining	NA
1	02040104130020-01	HUC02040104130020	Little Flat Brook (Layton to Beerskill)	Attaining	Non Attaining	Insufficient Data	Attaining	Attaining	NA
11	02040105240050-01	HUC02040105240050	Little Shabakunk Creek	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
12	02030104080010-01	HUC02030104080010	Little Silver Creek / Town Neck Creek	Insufficient Data	NA	Non Attaining	NA	Non Attaining	Non Attaining
18	02040202120070-01	HUC02040202120070	Little Timber Creek (Gloucester City)	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
6	02030103010040-01	HUC02030103010040	Loantaka Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
11	02040105200010-01	HUC02040105200010	Lockatong Ck (above Rt 12)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
11	02040105200030-01	HUC02040105200030	Lockatong Ck (below Milltown) incl UDRV	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Attaining	NA
11	02040105200020-01	HUC02040105200020	Lockatong Ck (Milltown to Rt 12)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
12	02030104080050-01	HUC02030104080050	Long Branch direct Atlantic drainage	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Insufficient Data
2	02020007040060-01	HUC02020007040060	Long House Creek/Upper Greenwood Lake	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
13	02040301080080-01	HUC02040301080080	Long Swamp Creek	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
1	02040105120010-01	HUC02040105120010	Lopatcong Creek (above Rt 57)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105120020-01	HUC02040105120020	Lopatcong Creek (below Rt 57) incl UDRV	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
13	BarnegatBay09	BarnegatBay09	Lower Little Egg Harbor Bay	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
19	02040202080060-01	HUC02040202080060	LRDV trib- Delanco/Edgewater	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
1	02040105150040-01	HUC02040105150040	Lubbers Run (above/incl Dallis Pond)	Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
1	02040105150050-01	HUC02040105150050	Lubbers Run (below Dallis Pond)	Attaining	Attaining	Insufficient Data	Non Attaining	Insufficient Data	NA
17	02040206070020-01	HUC02040206070020	Mad Horse Ck / Little Ck / Turners Fork	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining

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18	02040202120120-01	HUC02040202120120	Main Ditch / Little Mantua Creek	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
15	02040302040100-01	HUC02040302040100	Makepeace Stream (above Makepeace Lake)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Attaining	NA
6	02030103020060-01	HUC02030103020060	Malapardis Brook	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
13	BarnegatBay08	BarnegatBay08	Manahawkan Bay and Upper Little Egg Harbor	Non Attaining	NA	Insufficient Data	NA	Attaining	Attaining
9	02030105140010-01	HUC02030105140010	Manalapan Brook (above 40d 16m 15s)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
9	02030105140030-01	HUC02030105140030	Manalapan Brook (below Lake Manalapan)	Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
9	02030105140020-01	HUC02030105140020	Manalapan Brook (incl LkManlpn to 40d16m15s)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
13	02040301070080-01	HUC02040301070080	Manapaqua Brook	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
12	02030104100010-01	HUC02030104100010	Manasquan R (above 74d17m50s road)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
12	02030104100100-01	HUC02030104100100	Manasquan R (below Rt 70 bridge)	Non Attaining	NA	Insufficient Data	NA	Non Attaining	Non Attaining
12	02030104100050-01	HUC02030104100050	Manasquan R (gage to West Farms Rd)	Non Attaining	Non Attaining	Non Attaining	Attaining	Non Attaining	NA
12	02030104100090-01	HUC02030104100090	Manasquan R (Rt 70 br to 74d07m30s)	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
12	02030104100030-01	HUC02030104100030	Manasquan R (West Farms Rd to Rt 9)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
17	02040206040010-01	HUC02040206040010	Mannington Creek	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
18	02040202130010-01	HUC02040202130010	Mantua Creek (above Rt 47)	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
18	02040202130060-01	HUC02040202130060	Mantua Creek (below Edwards Run)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
18	02040202130040-01	HUC02040202130040	Mantua Creek (Edwards Run to rd to Sewell)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
18	02040202130020-01	HUC02040202130020	Mantua Creek (road to Sewell to Rt 47)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206190010-01	HUC02040206190010	Manumuskin River (above/incl BigNealBr)	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
17	02040206190030-01	HUC02040206190030	Manumuskin River (below Rt 49)	Attaining	NA	Non Attaining	Non Attaining	Attaining	Non Attaining
17	02040206190020-01	HUC02040206190020	Manumuskin River (Rt 49 to Big Neal Br)	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
13	02040301060040-01	HUC02040301060040	Maple Root Branch (Toms River)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
15	02040302060020-01	HUC02040302060020	Maple Run / Mill Br (Zion Rd to Cardiff rd)	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
12	02030104100040-01	HUC02030104100040	Marsh Bog Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040104090010-01	HUC02040104090010	Mashipacong Island UDRV tribs	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
3	02030103100020-01	HUC02030103100020	Masonicus Brook	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
12	02030104060020-01	HUC02030104060020	Matawan Creek (above Ravine Drive)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	Non Attaining
9	02030105150040-01	HUC02030105150040	Matchaponix Brook (above/incl Pine Bk)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
14	02040301200110-01	HUC02040301200110	Mattix Run (Nacote Creek)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	Non Attaining
17	02040206200050-01	HUC02040206200050	Maurice River (below Leesburg) to EastPt	Non Attaining	NA	Non Attaining	NA	Non Attaining	Non Attaining
17	02040206140010-01	HUC02040206140010	Maurice River (BlkwtrBr to/incl WillowGroveLk)	Insufficient Data	NA	Non Attaining	Non Attaining	Attaining	NA

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17	02040206200040-01	HUC02040206200040	Maurice River (Leesburg to Rt 548)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206170030-01	HUC02040206170030	Maurice River (Menantico Ck to UnionLake)	Insufficient Data	NA	Non Attaining	NA	Non Attaining	Non Attaining
17	02040206200030-01	HUC02040206200030	Maurice River (Rt 548 to Menantico Ck)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206140060-01	HUC02040206140060	Maurice River (Sherman Ave to Blackwater Br)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206160030-01	HUC02040206160030	Maurice River (Union Lake to Sherman Ave)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
19	02040202030070-01	HUC02040202030070	McDonalds Branch	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
9	02030105150020-01	HUC02030105150020	McGellairds Brook (above Taylors Mills)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
9	02030105150030-01	HUC02030105150030	McGellairds Brook (below Taylors Mills)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
15	02040302070030-01	HUC02040302070030	McNeals Branch (Tuckahoe River)	Attaining	NA	Insufficient Data	Insufficient Data	Attaining	NA
3	02030103070060-01	HUC02030103070060	Meadow Brook / High Mountain Brook	Non Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206180030-01	HUC02040206180030	Menantico Creek (above Rt 552)	Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	Non Attaining
11	02040105210080-01	HUC02040105210080	Mercer (Calhoun St to Jacobs Creek)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
1	02040105140040-01	HUC02040105140040	Merrill Creek	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Non Attaining	NA
13	BarnegatBay03	BarnegatBay03	Metedeconk and Lower Tribs - Bay	Non Attaining	NA	Insufficient Data	NA	Attaining	Non Attaining
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	BarnegatBay02	BarnegatBay02	Metedeconk R Estuary	Attaining	NA	Insufficient Data	NA	Non Attaining	Non Attaining
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301020020-01	HUC02040301020020	Metedeconk R NB (Rt 9 to I-195)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301030020-01	HUC02040301030020	Metedeconk R SB (74d19m15s to I-195 X21)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301030030-01	HUC02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	Non Attaining	NA
13	02040301050030-01	HUC02040301050030	Metedekunk Neck tribs (below Heron Is)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Insufficient Data
13	02040301080020-01	HUC02040301080020	Michaels Branch (Wrangel Brook)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206200010-01	HUC02040206200010	Middle Branch / Slab Branch	Insufficient Data	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
9	02030105120180-01	HUC02030105120180	Middle Brook	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
8	02030105060080-01	HUC02030105060080	Middle Brook (NB Raritan River)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
9	02030105120050-01	HUC02030105120050	Middle Brook EB	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Attaining	NA
9	02030105120060-01	HUC02030105120060	Middle Brook WB	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
17	02040206100010-01	HUC02040206100010	Middle Marsh Ck (DrumboCk to Sea Breeze)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
15	02040302050120-01	HUC02040302050120	Middle River / Peters Creek	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining
9	02030105120150-01	HUC02030105120150	Mile Run	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
15	02040302060010-01	HUC02040302060010	Mill Br (above Cardiff-Bargaintown rd)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
13	02040301140010-01	HUC02040301140010	Mill Branch (above GS Parkway)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
6	02030103030080-01	HUC02030103030080	Mill Brook (Morris Co)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
13	02040301130020-01	HUC02040301130020	Mill Ck (above GS Parkway)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
13	02040301130030-01	HUC02040301130030	Mill Ck (below GS Parkway)/Manahawkin Ck	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	Insufficient Data
17	02040206090040-01	HUC02040206090040	Mill Creek (above/incl Maple House Bk)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
17	02040206090050-01	HUC02040206090050	Mill Creek (below Maple House Bk)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206110040-01	HUC02040206110040	Mill Creek (Dividing Creek)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
17	02040206160040-01	HUC02040206160040	Mill Creek (lower)	Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
19	02040202080030-01	HUC02040202080030	Mill Creek (Willingboro)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
15	02040302070060-01	HUC02040302070060	Mill Creek / Back Run (Tuckahoe River)	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining
16	02040302080080-01	HUC02040302080080	Mill Creek / Jones Creek / Taylor Creek	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining
16	02040302080030-01	HUC02040302080030	Mill Creek / Sunks Ck / Big Elder Creek	Insufficient Data	NA	Insufficient Data	Attaining	Insufficient Data	Non Attaining
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105110140-01	HUC02030105110140	Millstone R (AmwellRd to BlackwellsMills)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
10	02030105110110-01	HUC02030105110110	Millstone R (BlackwellsMills to BedenBk)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
10	02030105100030-01	HUC02030105100030	Millstone R (RockyBk to Applegarth road)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105100140-01	HUC02030105100140	Millstone R (Rt 1 to Cranbury Bk)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
12	02030104070050-01	HUC02030104070050	Mine Brook (Monmouth Co)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105150090-01	HUC02040105150090	Mine Brook (Morris Co)	Attaining	Attaining	Insufficient Data	Attaining	Insufficient Data	NA
12	02030104100060-01	HUC02030104100060	Mingamahone Brook (above Asbury Rd)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
12	02030104100070-01	HUC02030104100070	Mingamahone Brook (below Asbury Rd)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
11	02040105240030-01	HUC02040105240030	Miry Run (Assunpink Cr)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302050070-01	HUC02040302050070	Miry Run (GEHR)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
4	02030103120040-01	HUC02030103120040	Molly Ann Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
16	02040302080060-01	HUC02040302080060	Mommy Teal Ck / Cresse Ck / Gravelly Run	Non Attaining	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
6	02030103030160-01	HUC02030103030160	Montville Tribs	Non Attaining	Insufficient Data	Insufficient Data	Attaining	Attaining	NA
11	02040105210040-01	HUC02040105210040	Moore Creek	Attaining	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA

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7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
14	02040301200100-01	HUC02040301200100	Morses Mill Stream	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
18	02040202140040-01	HUC02040202140040	Moss Branch / Little Timber Ck (Repaupo)	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
14	02040301210020-01	HUC02040301210020	Mott Creek (Oysterbed Pt to Oyster Ck)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
19	02040202030030-01	HUC02040202030030	Mount Misery Bk MB/NB (below 74d27m30s)	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
19	02040202030020-01	HUC02040202030020	Mount Misery Bk NB (above 74d27m30s dam)	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
19	02040202030040-01	HUC02040202030040	Mount Misery Bk SB	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
1	02040105090040-01	HUC02040105090040	Mountain Lake Brook	Insufficient Data	Insufficient Data	Non Attaining	Attaining	Insufficient Data	NA
13	02040301020040-01	HUC02040301020040	Muddy Ford Brook	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
17	02040206150010-01	HUC02040206150010	Muddy Run (above/incl Elmer Lake)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206150070-01	HUC02040206150070	Muddy Run (below Landis Ave)	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206150020-01	HUC02040206150020	Muddy Run (incl Palatine Lk to Elmer Lk)	Insufficient Data	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206150050-01	HUC02040206150050	Muddy Run (incl ParvinLk to Palatine Lk)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
17	02040206150060-01	HUC02040206150060	Muddy Run (Landis Ave to Parvin Lake)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
8	02030105020030-01	HUC02030105020030	Mulhockaway Creek	Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
14	02040301170140-01	HUC02040301170140	Mullica River (BatstoR to Nescochague Lake)	Insufficient Data	NA	Non Attaining	Insufficient Data	Attaining	Non Attaining
14	02040301160140-01	HUC02040301160140	Mullica River (39d40m30s to Rt 206)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
14	02040301160020-01	HUC02040301160020	Mullica River (above Jackson Road)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
14	02040301170040-01	HUC02040301170040	Mullica River (BatstoR to PleasantMills)	Insufficient Data	NA	Non Attaining	Insufficient Data	Attaining	Non Attaining
14	02040301210010-01	HUC02040301210010	Mullica River (below GSP bridge)	Insufficient Data	NA	Non Attaining	NA	Attaining	Non Attaining
14	02040301200080-01	HUC02040301200080	Mullica River (GSP bridge to Turtle Ck)	Insufficient Data	NA	Non Attaining	NA	Attaining	Non Attaining
14	02040301170080-01	HUC02040301170080	Mullica River (Lower Bank Rd to Rt 563)	Insufficient Data	NA	Non Attaining	Insufficient Data	Attaining	Non Attaining
14	02040301160150-01	HUC02040301160150	Mullica River (Pleasant Mills to 39d40m30s)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
14	02040301160030-01	HUC02040301160030	Mullica River (Rt 206 to Jackson Road)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
14	02040301170060-01	HUC02040301170060	Mullica River (Rt 563 to Batsto River)	Insufficient Data	NA	Non Attaining	Non Attaining	Attaining	Non Attaining
14	02040301170130-01	HUC02040301170130	Mullica River (Turtle Ck to Lower BankRd)	Insufficient Data	NA	Non Attaining	Insufficient Data	Attaining	Non Attaining
1	02040105160040-01	HUC02040105160040	Musconetcong R (75d 00m to Rt 31)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105160070-01	HUC02040105160070	Musconetcong R (below Warren Glen)	Attaining	Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105160020-01	HUC02040105160020	Musconetcong R (Changewater to HancesBk)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105160010-01	HUC02040105160010	Musconetcong R (Hances Bk thru Trout Bk)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105160050-01	HUC02040105160050	Musconetcong R (I-78 to 75d 00m)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105160030-01	HUC02040105160030	Musconetcong R (Rt 31 to Changewater)	Attaining	Attaining	Insufficient Data	Attaining	Attaining	NA
1	02040105150080-01	HUC02040105150080	Musconetcong R (SaxtonFalls to Waterloo)	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105150100-01	HUC02040105150100	Musconetcong R (Trout Bk to SaxtonFalls)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105160060-01	HUC02040105160060	Musconetcong R (Warren Glen to I-78)	Attaining	Attaining	Insufficient Data	Non Attaining	Non Attaining	NA

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1	02040105150110-01	HUC02040105150110	Musconetcong R (Waterloo area)	Insufficient Data	Insufficient Data	Insufficient Data	Attaining	Non Attaining	NA
1	02040105150070-01	HUC02040105150070	Musconetcong R (Waterloo to/incl WillsBk)	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	NA
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	Non Attaining	Non Attaining	Non Attaining	Attaining	Non Attaining	NA
17	02040206200020-01	HUC02040206200020	Muskee Creek	Insufficient Data	NA	Non Attaining	Non Attaining	Insufficient Data	Non Attaining
14	02040301200120-01	HUC02040301200120	Nacote Creek (below/incl Mill Pond)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
17	02040206100060-01	HUC02040206100060	Nantuxent Creek (above Newport Landing)	Insufficient Data	NA	Non Attaining	Insufficient Data	Attaining	Non Attaining
17	02040206100070-01	HUC02040206100070	Nantuxent Creek (below Newport Landing)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	Non Attaining
12	02030104070120-01	HUC02030104070120	Navesink R mouth	Non Attaining	NA	Non Attaining	NA	Attaining	Non Attaining
18	02040202140010-01	HUC02040202140010	Nehonsey Bk / Clonmell Ck (LDRV to MantuaCk)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	NA
14	02040301170070-01	HUC02040301170070	Nergo Creek	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206110070-01	HUC02040206110070	New England Creek (Kenny Pt to Elder Pt)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Insufficient Data
11	02040105230030-01	HUC02040105230030	New Sharon Branch (Assunpink Creek)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
1	02040105070020-01	HUC02040105070020	New Wawayanda Lake/Andover Pond trib	Non Attaining	Insufficient Data	Non Attaining	Attaining	Insufficient Data	NA
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	Non Attaining	NA	Non Attaining	NA	Insufficient Data	NA
17	02040206110010-01	HUC02040206110010	Newport Neck (Nantuxent to Beadons Ck)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
18	02040202120090-01	HUC02040202120090	Newton Creek (LDRV-Kaighn Ave to LT Ck)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
17	02040206030020-01	HUC02040206030020	Nichomus Run	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
11	02040105170040-01	HUC02040105170040	Nishisakawick Creek (above 40d 33m)	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
11	02040105170050-01	HUC02040105170050	Nishisakawick Creek (below 40d 33m)	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
7	02030104050050-01	HUC02030104050050	Nomahegan Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
20	02040201040060-01	HUC02040201040060	North Run (above Wrightstown bypass)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
12	02030104070090-01	HUC02030104070090	Nut Swamp Brook	Non Attaining	NA	Attaining	Insufficient Data	Non Attaining	NA
9	02030105130030-01	HUC02030105130030	Oakeys Brook	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301070060-01	HUC02040301070060	Old Hurricane Brook (above 74d22m30s)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
13	02040301070070-01	HUC02040301070070	Old Hurricane Brook (below 74d22m30s)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Attaining	NA
18	02040202160010-01	HUC02040202160010	Oldmans Creek (above Commissioners Rd)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
18	02040202160060-01	HUC02040202160060	Oldmans Creek (below Center Sq Rd)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	NA
18	02040202160050-01	HUC02040202160050	Oldmans Creek (Center Sq Rd to KingsHwy)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202160030-01	HUC02040202160030	Oldmans Creek (Kings Hwy to Rt 45)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
18	02040202160020-01	HUC02040202160020	Oldmans Creek (Rt45 to Commissioners Rd)	Insufficient Data	NA	Insufficient Data	Attaining	Attaining	NA
19	02040202020020-01	HUC02040202020020	Ong Run / Jacks Run	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
17	02040206110030-01	HUC02040206110030	Oranoaken Creek	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining

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14	02040301180020-01	HUC02040301180020	Oswego River (above Rt 539)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
14	02040301180060-01	HUC02040301180060	Oswego River (Andrews Rd to Sim Place Resv)	Attaining	NA	Non Attaining	Insufficient Data	Attaining	NA
14	02040301180070-01	HUC02040301180070	Oswego River (below Andrews Road)	Insufficient Data	NA	Non Attaining	Attaining	Attaining	NA
14	02040301180040-01	HUC02040301180040	Oswego River (Sim Place Resv to Rt 539)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
5	02030103180040-01	HUC02030103180040	Overpeck Creek	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
13	02040301110040-01	HUC02040301110040	Oyster Creek (above Rt 532)	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
13	02040301110050-01	HUC02040301110050	Oyster Creek (below Rt 532)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	Non Attaining
3	02030103050020-01	HUC02030103050020	Pacock Brook	Insufficient Data	Insufficient Data	Non Attaining	Attaining	Insufficient Data	NA
17	02040206150030-01	HUC02040206150030	Palatine Branch (Muddy Run)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206180010-01	HUC02040206180010	Panther Branch (Menantico Creek)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
2	02020007020010-01	HUC02020007020010	Papakating Ck (above Frankford Plains)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
2	02020007020070-01	HUC02020007020070	Papakating Ck (below Pellettown)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
2	02020007020030-01	HUC02020007020030	Papakating Ck (Pellettown-Frankford Plns)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
2	02020007020040-01	HUC02020007020040	Papakating Ck WB(abv 74d39m30s side rd)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
2	02020007020050-01	HUC02020007020050	Papakating Ck WB(blw 74d39m30s side rd)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
14	02040301180050-01	HUC02040301180050	Papoose Branch (Oswego River)	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
18	02040202140030-01	HUC02040202140030	Pargay Creek	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
19	02040202080010-01	HUC02040202080010	Parkers Creek (above Marne Highway)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	Non Attaining
17	02040206080030-01	HUC02040206080030	Parsonage Run / Foster Run	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
17	02040206140070-01	HUC02040206140070	Parvin Branch / Tarkiln Branch	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
5	02030103170010-01	HUC02030103170010	Pascack Brook (above Westwood gage)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	Insufficient Data	NA	Non Attaining	NA	Attaining	NA
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	Non Attaining	NA	Non Attaining	NA	Attaining	NA
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
6	02030103010130-01	HUC02030103010130	Passaic R Upr (40d 45m to Snyder Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103010010-01	HUC02030103010010	Passaic R Upr (above Osborn Mills)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
6	02030103010150-01	HUC02030103010150	Passaic R Upr (Columbia Rd to 40d 45m)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103010070-01	HUC02030103010070	Passaic R Upr (Dead R to Osborn Mills)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA

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6	02030103010160-01	HUC02030103010160	Passaic R Upr (HanoverRR to ColumbiaRd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
6	02030103010110-01	HUC02030103010110	Passaic R Upr (Plainfield Rd to Dead R)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
6	02030103010120-01	HUC02030103010120	Passaic R Upr (Snyder to Plainfield Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302060030-01	HUC02040302060030	Patcong Creek (Somers Ave to Zion Rd)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
1	02040105040060-01	HUC02040105040060	Paulins Kill (above Rt 15)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105050050-01	HUC02040105050050	Paulins Kill (below Blairstown gage)	Non Attaining	Non Attaining	Non Attaining	Attaining	Attaining	NA
1	02040105050010-01	HUC02040105050010	Paulins Kill (Blairstown to Stillwater)	Attaining	Non Attaining	Non Attaining	Attaining	Attaining	NA
1	02040105040070-01	HUC02040105040070	Paulins Kill (Dry Brook to Rt 15)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
1	02040105040080-01	HUC02040105040080	Paulins Kill (PK Lk outlet to Dry Brook)	Attaining	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105040090-01	HUC02040105040090	Paulins Kill (Stillwater Vil to PK Lake)	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	NA
8	02030105060050-01	HUC02030105060050	Peapack Brook (above/incl Gladstone Bk)	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	NA
8	02030105060060-01	HUC02030105060060	Peapack Brook (below Gladstone Brook)	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
4	02030103120010-01	HUC02030103120010	Peckman River (above CG Res trib)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
4	02030103120020-01	HUC02030103120020	Peckman River (below CG Res trib)	Non Attaining	NA	Non Attaining	Insufficient Data	Non Attaining	NA
19	02040202040020-01	HUC02040202040020	Pemberton / Ft Dix trib (NB Rancocas Ck)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
14	02040301150070-01	HUC02040301150070	Penn Swamp Branch	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202100010-01	HUC02040202100010	Pennsauken Ck NB (above NJTPK)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
18	02040202100030-01	HUC02040202100030	Pennsauken Ck NB (below Strawbridge Lk)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
18	02040202100040-01	HUC02040202100040	Pennsauken Ck SB (above Rt 41)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
18	02040202100050-01	HUC02040202100050	Pennsauken Ck SB (below Rt 41)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302030070-01	HUC02040302030070	Penny Pot Stream (GEHR)	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
3	02030103050030-01	HUC02030103050030	Pequannock R (above OakRidge Res outlet)	Attaining	Non Attaining	Non Attaining	Non Attaining	Non Attaining	NA
3	02030103050010-01	HUC02030103050010	Pequannock R (above Stockholm/Vernon Rd)	Attaining	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
3	02030103050080-01	HUC02030103050080	Pequannock R (below Macopin gage)	Attaining	Non Attaining	Non Attaining	Attaining	Attaining	NA
3	02030103050050-01	HUC02030103050050	Pequannock R (Charlotteburg to OakRidge)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Insufficient Data	NA
3	02030103050060-01	HUC02030103050060	Pequannock R (Macopin gage to Charl'brg)	Non Attaining	Non Attaining	Non Attaining	Attaining	Attaining	NA
1	02040105070030-01	HUC02040105070030	Pequest R (above Brighton)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105070060-01	HUC02040105070060	Pequest R (below Bear Swamp to Trout Bk)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105090060-01	HUC02040105090060	Pequest R (below Furnace Brook)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105090020-01	HUC02040105090020	Pequest R (Cemetary Road to Drag Strip)	Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	NA

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1	02040105090010-01	HUC02040105090010	Pequest R (Drag Strip--below Bear Swamp)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
1	02040105090030-01	HUC02040105090030	Pequest R (Furnace Bk to Cemetary Road)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105070040-01	HUC02040105070040	Pequest R (Trout Brook to Brighton)	Non Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
9	02030105080010-01	HUC02030105080010	Peters Brook	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	Non Attaining
17	02040206070090-01	HUC02040206070090	Phillips Creek / Jacobs Creek	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
10	02030105110080-01	HUC02030105110080	Pike Run (above Cruser Brook)	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
10	02030105110100-01	HUC02030105110100	Pike Run (below Cruser Brook)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
12	02030104070080-01	HUC02030104070080	Pine Brook / Hockhockson Brook	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	Non Attaining
17	02040206090090-01	HUC02040206090090	Pine Mount Creek	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining
14	02040301180030-01	HUC02040301180030	Plains Branch (Oswego River)	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
8	02030105040020-01	HUC02030105040020	Pleasant Run	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
11	02040105200050-01	HUC02040105200050	Plum Creek	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
2	02020007040030-01	HUC02020007040030	Pochuck Ck/Glenwood Lk & northern trib	Insufficient Data	Insufficient Data	Insufficient Data	Attaining	Non Attaining	NA
1	02040105140010-01	HUC02040105140010	Pohatcong Ck (above Rt 31)	Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105140070-01	HUC02040105140070	Pohatcong Ck (below Springtown) incl UDRV	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
1	02040105140020-01	HUC02040105140020	Pohatcong Ck (Brass Castle Ck to Rt 31)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105140030-01	HUC02040105140030	Pohatcong Ck (Edison Rd-Brass Castle Ck)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105140050-01	HUC02040105140050	Pohatcong Ck (Merrill Ck to Edison Rd)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105140060-01	HUC02040105140060	Pohatcong Ck (Springtown to Merrill Ck)	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	Non Attaining	NA
13	BarnegatBay01	BarnegatBay01	Point Pleasant Canal and Bay Head Harbor	Attaining	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
19	02040202030010-01	HUC02040202030010	Pole Bridge Br (above County line)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
19	02040202030060-01	HUC02040202030060	Pole Bridge Br (CountryLk dam - Co line)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
18	02040202090020-01	HUC02040202090020	Pompeston Creek (above Rt 130)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
18	02040202090030-01	HUC02040202090030	Pompeston Creek (below Rt130/Swede to 40d)	Non Attaining	NA	Non Attaining	Insufficient Data	Non Attaining	NA
3	02030103110020-01	HUC02030103110020	Pompton River	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
16	02040206230070-01	HUC02040206230070	Pond Creek / Cape May Canal West	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
11	02040105240040-01	HUC02040105240040	Pond Run	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
1	02040105110010-01	HUC02040105110010	Pophandusing Brook	Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	NA
12	02030104090020-01	HUC02030104090020	Poplar Brook	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	Insufficient Data
12	02030104070100-01	HUC02030104070100	Poricy Bk/Swimming R(below SwimmingR Rd)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	Non Attaining
8	02030105050050-01	HUC02030105050050	Pottersville trib (Lamington River)	Attaining	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	NA
4	02030103120030-01	HUC02030103120030	Preakness Brook / Naachtpunkt Brook	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	NA
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Non Attaining	NA
6	02030103010020-01	HUC02030103010020	Primrose Brook	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Attaining	NA

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14	02040301160070-01	HUC02040301160070	Pump Branch (above 74d53m road)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
14	02040301160080-01	HUC02040301160080	Pump Branch (below 74d53m road)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
2	02020007030020-01	HUC02020007030020	Quarryville Brook	Insufficient Data	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
18	02040202150010-01	HUC02040202150010	Raccoon Ck (above Clems Run)	Insufficient Data	NA	Insufficient Data	Attaining	Attaining	NA
18	02040202150060-01	HUC02040202150060	Raccoon Ck (below Swedesboro rd)/BirchCk	Insufficient Data	NA	Non Attaining	NA	Attaining	NA
18	02040202150020-01	HUC02040202150020	Raccoon Ck (Rt 45 to/incl Clems Run)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
18	02040202150050-01	HUC02040202150050	Raccoon Ck (Swedesboro rd-RussellMillRd)	Non Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
18	02040202150030-01	HUC02040202150030	Raccoon Ck SB	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
17	02040206070070-01	HUC02040206070070	Raccoon Ditch (Stow Creek)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	Insufficient Data
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	Insufficient Data	NA	Non Attaining	NA	Attaining	NA
7	02030104050040-01	HUC02030104050040	Rahway River (Kenilworth Blvd to EB / WB)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
7	02030104050060-01	HUC02030104050060	Rahway River (Robinsons Br to KenilworthBlvd)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
7	02030104050020-01	HUC02030104050020	Rahway River EB	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
7	02030104050090-01	HUC02030104050090	Rahway River SB	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
7	02030104050010-01	HUC02030104050010	Rahway River WB	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
3	02030103100010-01	HUC02030103100010	Ramapo R (above 74d 11m 00s)	Non Attaining	Insufficient Data	Insufficient Data	Attaining	Non Attaining	NA
3	02030103100030-01	HUC02030103100030	Ramapo R (above Fyke Bk to 74d 11m 00s)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
3	02030103100040-01	HUC02030103100040	Ramapo R (Bear Swamp Bk thru Fyke Bk)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	Non Attaining	Insufficient Data	Non Attaining	Attaining	Non Attaining	NA
3	02030103100050-01	HUC02030103100050	Ramapo R (Crystal Lk br to BearSwamp Bk)	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	NA
19	02040202080050-01	HUC02040202080050	Rancocas Ck (below Rt 130)	Insufficient Data	NA	Non Attaining	Attaining	Attaining	NA
19	02040202080020-01	HUC02040202080020	Rancocas Ck (Martins Beach to NB/SB)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
19	02040202080040-01	HUC02040202080040	Rancocas Ck (Rt 130 to Martins Beach)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
19	02040202040050-01	HUC02040202040050	Rancocas Ck NB (below Smithville)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
19	02040202020040-01	HUC02040202020040	Rancocas Ck NB (NL dam to Mirror Lk)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
19	02040202040010-01	HUC02040202040010	Rancocas Ck NB (Pemberton br to NL dam)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
19	02040202040030-01	HUC02040202040030	Rancocas Ck NB (Rt 206 to Pemberton br)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
19	02040202040040-01	HUC02040202040040	Rancocas Ck NB (Smithville to Rt 206)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
19	02040202050060-01	HUC02040202050060	Rancocas Ck SB (above Friendship Ck)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
19	02040202070030-01	HUC02040202070030	Rancocas Ck SB (below Rt 38)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
19	02040202050090-01	HUC02040202050090	Rancocas Ck SB (BobbysRun to Vincentown)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
19	02040202070020-01	HUC02040202070020	Rancocas Ck SB (Rt 38 to Bobbys Run)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA

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19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	Non Attaining	NA	Non Attaining	NA	Attaining	Non Attaining
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	Non Attaining	NA	Non Attaining	NA	Attaining	Non Attaining
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	Insufficient Data	NA	Non Attaining	NA	Non Attaining	Non Attaining
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
8	02030105060010-01	HUC02030105060010	Raritan R NB (above/incl India Bk)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
8	02030105070030-01	HUC02030105070030	Raritan R NB (below Rt 28)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105060030-01	HUC02030105060030	Raritan R NB (incl McVickers to India Bk)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
8	02030105060070-01	HUC02030105060070	Raritan R NB (incl Mine Bk to Peapack Bk)	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	Insufficient Data	NA
8	02030105060090-01	HUC02030105060090	Raritan R NB (Lamington R to Mine Bk)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
8	02030105060040-01	HUC02030105060040	Raritan R NB (Peapack Bk to McVickers Bk)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
8	02030105070010-01	HUC02030105070010	Raritan R NB (Rt 28 to Lamington R)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105010040-01	HUC02030105010040	Raritan R SB (74d 44m 15s to Rt 46)	Attaining	Insufficient Data	Non Attaining	Insufficient Data	Insufficient Data	NA
8	02030105010030-01	HUC02030105010030	Raritan R SB (above Rt 46)	Insufficient Data	Insufficient Data	Attaining	Insufficient Data	Insufficient Data	NA
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Non Attaining	NA
8	02030105010050-01	HUC02030105010050	Raritan R SB (LongValley br to 74d44m15s)	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Non Attaining	NA
8	02030105040040-01	HUC02030105040040	Raritan R SB (NB to Pleasant Run)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
8	02030105040010-01	HUC02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
8	02030105020080-01	HUC02030105020080	Raritan R SB (Prescott Bk to River Rd)	Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105020070-01	HUC02030105020070	Raritan R SB (River Rd to Spruce Run)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Attaining	NA
8	02030105010080-01	HUC02030105010080	Raritan R SB (Spruce Run-StoneMill gage)	Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
8	02030105010070-01	HUC02030105010070	Raritan R SB (StoneMill gage to Califon)	Attaining	Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Non Attaining	NA
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data
17	02040206120040-01	HUC02040206120040	Reed Branch (Still Run)	Insufficient Data	NA	Insufficient Data	Attaining	Attaining	NA
15	02040302010010-01	HUC02040302010010	Reeds Bay / Absecon Bay & tribs	Non Attaining	NA	Insufficient Data	NA	Attaining	Non Attaining
18	02040202140050-01	HUC02040202140050	Repaupo Ck (belowTomlin Sta Rd)/CedarSwamp	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
13	02040301070040-01	HUC02040301070040	Ridgeway Br (below Hope Chapel Rd)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
13	02040301070030-01	HUC02040301070030	Ridgeway Br (Hope Chapel Rd to HarrisBr)	Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
1	02040105160080-01	HUC02040105160080	Riegelsville (direct Del. R. drainage)	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	Insufficient Data	NA

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
16	02040206210010-01	HUC02040206210010	Riggins Ditch (Moores Beach to East Pt)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Non Attaining
3	02030103070080-01	HUC02030103070080	Ringwood Creek	Insufficient Data	Insufficient Data	Non Attaining	Attaining	Insufficient Data	NA
7	02030104050070-01	HUC02030104050070	Robinsons Br Rahway R (above Lake Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
7	02030104050080-01	HUC02030104050080	Robinsons Br Rahway R (below Lake Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105110060-01	HUC02030105110060	Rock Brook (above Camp Meeting Ave)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
10	02030105110070-01	HUC02030105110070	Rock Brook (below Camp Meeting Ave)	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
8	02030105050080-01	HUC02030105050080	Rockaway Ck (above McCrea Mills)	Attaining	Non Attaining	Insufficient Data	Non Attaining	Attaining	NA
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
6	02030103030070-01	HUC02030103030070	Rockaway R (74d 33m 30s to Stephens Bk)	Insufficient Data	Insufficient Data	Non Attaining	Attaining	Non Attaining	NA
6	02030103030030-01	HUC02030103030030	Rockaway R (above Longwood Lake outlet)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
6	02030103030090-01	HUC02030103030090	Rockaway R (BM 534 brdg to 74d 33m 30s)	Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
6	02030103030150-01	HUC02030103030150	Rockaway R (Boonton dam to Stony Brook)	Attaining	Insufficient Data	Non Attaining	Non Attaining	Attaining	NA
6	02030103030170-01	HUC02030103030170	Rockaway R (Passaic R to Boonton dam)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
6	02030103030040-01	HUC02030103030040	Rockaway R (Stephens Bk to Longwood Lk)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
6	02030103030140-01	HUC02030103030140	Rockaway R (Stony Brook to BM 534 brdg)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
10	02030105100040-01	HUC02030105100040	Rocky Brook (above Monmouth Co line)	Insufficient Data	NA	Insufficient Data	Non Attaining	Attaining	NA
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
10	02030105110150-01	HUC02030105110150	Royce Brook (above Branch Royce Brook)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
10	02030105110160-01	HUC02030105110160	Royce Brook (below/incl Branch Royce Bk)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
6	02030103030010-01	HUC02030103030010	Russia Brook (above Milton)	Insufficient Data	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
6	02030103030020-01	HUC02030103030020	Russia Brook (below Milton)	Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
2	02020007000010-01	HUC02020007000010	Rutgers Creek tribs	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
4	02030103140040-01	HUC02030103140040	Saddle River (above Ridgewood gage)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood gage)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
4	02030103140050-01	HUC02030103140050	Saddle River (Rt 4 to Hohokus)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206030080-01	HUC02040206030080	Salem Canal	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg)/Canal	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
17	02040206030010-01	HUC02040206030010	Salem R (above Woodstown gage)	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
17	02040206040040-01	HUC02040206040040	Salem R (below Fenwick Creek)	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
17	02040206030030-01	HUC02040206030030	Salem R (CountyHomeRd to Woodstown gage)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206040030-01	HUC02040206040030	Salem R (Fenwick Ck to 39d40m14s dam)	Insufficient Data	NA	Non Attaining	NA	Non Attaining	NA

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12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	Non Attaining	NA	Non Attaining	NA	Attaining	Non Attaining
16	02040206210050-01	HUC02040206210050	Savages Run (above East Creek Pond)	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
17	02040206130010-01	HUC02040206130010	Scotland Run (above Fries Mill)	Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
17	02040206130040-01	HUC02040206130040	Scotland Run (below Delsea Drive)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
17	02040206130020-01	HUC02040206130020	Scotland Run (Delsea Drive to FriesMill)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
8	02030105030020-01	HUC02030105030020	Second Neshanic River	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
4	02030103150020-01	HUC02030103150020	Second River	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
11	02040105240010-01	HUC02040105240010	Shabakunk Creek	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
11	02040105240020-01	HUC02040105240020	Shabakunk Creek WB	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
20	02040201070030-01	HUC02040201070030	Shady Brook/Spring Lake/Rowan Lake	Non Attaining	NA	Non Attaining	Insufficient Data	Insufficient Data	NA
10	02030105100100-01	HUC02030105100100	Shallow Brook (Devils Brook)	Attaining	NA	Insufficient Data	Insufficient Data	Attaining	NA
13	02040301070010-01	HUC02040301070010	Shannae Brook	Non Attaining	NA	Non Attaining	Attaining	Attaining	NA
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Non Attaining	NA
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	Non Attaining	NA	Non Attaining	NA	Non Attaining	Non Attaining
1	02040104090030-01	HUC02040104090030	Shimers Brook	Attaining	Non Attaining	Insufficient Data	Non Attaining	Attaining	NA
11	02040105230060-01	HUC02040105230060	Shipetaukin Creek	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
14	02040301190010-01	HUC02040301190010	Shoal Branch (above/incl Pope Branch)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
14	02040301190040-01	HUC02040301190040	Shoal Branch (below Pope Branch)	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
12	02030104080040-01	HUC02030104080040	Shrewsbury River (above Navesink River)	Insufficient Data	NA	Non Attaining	NA	Non Attaining	Non Attaining
10	02030105110120-01	HUC02030105110120	Sixmile Run (above Middlebush Rd)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
10	02030105110130-01	HUC02030105110130	Sixmile Run (below Middlebush Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
14	02040301150020-01	HUC02040301150020	Skit Branch (Batsto River)	Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
14	02040301160170-01	HUC02040301160170	Sleeper Branch	Insufficient Data	NA	Non Attaining	Attaining	Attaining	NA
14	02040301160060-01	HUC02040301160060	Sleeper Branch (Rt 206 to Tremont Ave)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
6	02030103010190-01	HUC02030103010190	Slough Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
16	02040206220020-01	HUC02040206220020	Sluice Creek	Insufficient Data	NA	Non Attaining	Attaining	Insufficient Data	Insufficient Data
9	02030105120080-01	HUC02030105120080	South Fork of Bound Brook	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
15	02040302050030-01	HUC02040302050030	South River (above 39d26m15s)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302050040-01	HUC02040302050040	South River (below 39d26m15s)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	Non Attaining
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	NA
20	02040201040020-01	HUC02040201040020	South Run (above 74d35m) (Ft Dix)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
20	02040201040030-01	HUC02040201040030	South Run (Jumping Brook to 74d35m)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
20	02040201040050-01	HUC02040201040050	South Run (North Run to Jumping Brook)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
5	02030101170020-01	HUC02030101170020	Sparkill Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105040050-01	HUC02040105040050	Sparta Junction tribs	Non Attaining	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA

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9	02030105120090-01	HUC02030105120090	Spring Lake Fork of Bound Brook	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
14	02040301150040-01	HUC02040301150040	Springers Brook / Deep Run	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
8	02030105020010-01	HUC02030105020010	Spruce Run (above Glen Gardner)	Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
8	02030105020020-01	HUC02030105020020	Spruce Run (Reservior to Glen Gardner)	Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
8	02030105020040-01	HUC02030105020040	Spruce Run Reservior / Willoughby Brook	Non Attaining	Non Attaining	Non Attaining	Attaining	Insufficient Data	NA
15	02040302030050-01	HUC02040302030050	Squankum Branch (GEHR)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
15	02040302050080-01	HUC02040302050080	Stephen Creek (GEHR)	Non Attaining	NA	Non Attaining	Non Attaining	Insufficient Data	Non Attaining
17	02040206120030-01	HUC02040206120030	Still Run (above Silver Lake Road)	Attaining	NA	Insufficient Data	Attaining	Attaining	NA
17	02040206120050-01	HUC02040206120050	Still Run (WillowGroveLk - SilverLakeRd)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
18	02040202140020-01	HUC02040202140020	Still Run/London Br(above Tomlin Sta Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
3	02030103050070-01	HUC02030103050070	Stone House Brook	Insufficient Data	Non Attaining	Insufficient Data	Insufficient Data	Insufficient Data	NA
10	02030105090020-01	HUC02030105090020	Stony Bk (74d 48m 10s to 74d 49m 15s)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105090040-01	HUC02030105090040	Stony Bk (74d46m dam to/incl Baldwins Ck)	Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
10	02030105090010-01	HUC02030105090010	Stony Bk (above 74d 49m 15s)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
10	02030105090030-01	HUC02030105090030	Stony Bk (Baldwins Ck to 74d 48m 10s)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105090070-01	HUC02030105090070	Stony Bk (Harrison St to Rt 206)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	Non Attaining	NA	Attaining	Non Attaining	Non Attaining	NA
10	02030105090060-01	HUC02030105090060	Stony Bk (Rt 206 to Province Line Rd)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
10	02030105090090-01	HUC02030105090090	Stony Bk- Princeton drainage	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103030130-01	HUC02030103030130	Stony Brook (Boonton)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
1	02040105060010-01	HUC02040105060010	Stony Brook (incl UDRV)	Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	NA
9	02030105120030-01	HUC02030105120030	Stony Brook (North Plainfield)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206070050-01	HUC02040206070050	Stow Creek (above Jericho Road)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
17	02040206070080-01	HUC02040206070080	Stow Creek (below Canton Rd)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Insufficient Data
17	02040206070060-01	HUC02040206070060	Stow Creek (Canton Road to Jericho Road)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Insufficient Data
11	02040105210030-01	HUC02040105210030	Swan Creek (Moore Ck to Alexauken Ck)	Attaining	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	NA
1	02040105030020-01	HUC02040105030020	Swartswood Lake and tribs	Non Attaining	Non Attaining	Non Attaining	Non Attaining	Attaining	NA
1	02040105030010-01	HUC02040105030010	Swartswood trib(41-06-06 thru Lk Owassa)	Non Attaining	Insufficient Data	Insufficient Data	Attaining	Insufficient Data	NA
18	02040202090010-01	HUC02040202090010	Swede Run	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
15	02040302070050-01	HUC02040302070050	Tarkiln Brook (Tuckahoe River)	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
5	02030103170040-01	HUC02030103170040	Tenakill Brook	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
9	02030105160050-01	HUC02030105160050	Tennent Brook (above 74d 19m 05s)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
9	02030105160060-01	HUC02030105160060	Tennent Brook (below 74d 19m 05s)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
8	02030105030040-01	HUC02030105030040	Third Neshanic River	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA

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4	02030103150010-01	HUC02030103150010	Third River	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
15	02040302040060-01	HUC02040302040060	Three Pond Branch (Hospitality Branch)	Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
13	BarnegatBay04	BarnegatBay04	Toms R Estuary	Non Attaining	NA	Non Attaining	NA	Non Attaining	Non Attaining
13	02040301060020-01	HUC02040301060020	Toms River (74-22-30 rd to FrancisMills)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301060010-01	HUC02040301060010	Toms River (above Francis Mills)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
13	02040301060030-01	HUC02040301060030	Toms River (Bowman Rd to 74-22-30 road)	Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301060060-01	HUC02040301060060	Toms River (Hope Chapel Rd to Bowman Rd)	Attaining	Insufficient Data	Insufficient Data	Attaining	Non Attaining	NA
13	02040301060080-01	HUC02040301060080	Toms River (Oak Ridge Parkway to Rt 70)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
13	02040301060070-01	HUC02040301060070	Toms River (Rt 70 to Hope Chapel Road)	Attaining	Attaining	Insufficient Data	Attaining	Non Attaining	NA
13	02040301080060-01	HUC02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	Non Attaining	NA	Non Attaining	Attaining	Non Attaining	NA
1	02040105030030-01	HUC02040105030030	Trout Brook	Attaining	Attaining	Non Attaining	Attaining	Insufficient Data	NA
1	02040105070050-01	HUC02040105070050	Trout Brook / Lake Tranquility	Non Attaining	Insufficient Data	Non Attaining	Attaining	Insufficient Data	NA
6	02030103020080-01	HUC02030103020080	Troy Brook (above Reynolds Ave)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
6	02030103020090-01	HUC02030103020090	Troy Brook (below Reynolds Ave)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
15	02040302070020-01	HUC02040302070020	Tuckahoe River (39d19m52s to Cumberland Ave)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
15	02040302070010-01	HUC02040302070010	Tuckahoe River (above Cumberland Ave)	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
15	02040302070110-01	HUC02040302070110	Tuckahoe River (below Rt 49)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	Non Attaining
15	02040302070120-01	HUC02040302070120	Tuckahoe River (lower)	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
15	02040302070040-01	HUC02040302070040	Tuckahoe River (Rt 49 to 39d19m52s)	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA
13	02040301140030-01	HUC02040301140030	Tuckerton Creek (below Mill Branch)	Non Attaining	NA	Non Attaining	NA	Insufficient Data	Non Attaining
14	02040301190060-01	HUC02040301190060	Tulpehocken Creek	Non Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA
1	02040104110010-01	HUC02040104110010	UDRV tribs (Dingmans Ferry to 206 bridg)	Insufficient Data	Non Attaining	Insufficient Data	Non Attaining	Insufficient Data	NA
1	02040104110020-01	HUC02040104110020	UDRV tribs (Flat Bk to Dingmans Ferry)	Insufficient Data	NA	Insufficient Data	Attaining	Insufficient Data	NA
1	02040105110030-01	HUC02040105110030	UDRV tribs (Rt 22 to Buckhorn Ck)	Insufficient Data	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	NA
1	02040105100010-01	HUC02040105100010	Union Church trib	Non Attaining	Insufficient Data	Insufficient Data	Attaining	Non Attaining	NA
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	Non Attaining	NA	Non Attaining	NA	Attaining	NA
1	02040104240010-01	HUC02040104240010	Van Campens Brook	Attaining	Attaining	Non Attaining	Attaining	Attaining	NA
12	02030104060050-01	HUC02030104060050	Waackaack Creek	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	Non Attaining
14	02040301200030-01	HUC02040301200030	Wading River (below Rt 542)	Insufficient Data	NA	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining
14	02040301200020-01	HUC02040301200020	Wading River (Rt 542 to Oswego River)	Attaining	NA	Non Attaining	Attaining	Attaining	Non Attaining
14	02040301190020-01	HUC02040301190020	Wading River WB (above Rt 532)	Insufficient Data	NA	Insufficient Data	Attaining	Insufficient Data	NA
14	02040301190050-01	HUC02040301190050	Wading River WB (Jenkins Rd to Rt 563)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
14	02040301190070-01	HUC02040301190070	Wading River WB (Oswego R to Jenkins Rd)	Non Attaining	NA	Non Attaining	Non Attaining	Attaining	NA
14	02040301190030-01	HUC02040301190030	Wading River WB (Rt 563 to Rt 532)	Attaining	NA	Insufficient Data	Attaining	Insufficient Data	NA

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2	02020007030010-01	HUC02020007030010	Wallkill R (41d13m30s to Martins Road)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
2	02020007010080-01	HUC02020007010080	Wallkill R (Franklin Pond to Ogdensburg)	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
2	02020007010040-01	HUC02020007010040	Wallkill R (Hamburg SW Bdy to Frkln Pnd)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
2	02020007010070-01	HUC02020007010070	Wallkill R (Martins Rd to Hamburg SW Bdy)	Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
2	02020007010020-01	HUC02020007010020	Wallkill R (Ogdensburg to SpartaStation)	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
2	02020007010010-01	HUC02020007010010	Wallkill R / Lake Mohawk(above Sparta Sta)	Attaining	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
2	02020007030030-01	HUC02020007030030	Wallkill River (Owens gage to 41d13m30s)	Insufficient Data	NA	Insufficient Data	Non Attaining	Non Attaining	NA
2	02020007030040-01	HUC02020007030040	Wallkill River (stateline to Owens gage)	Insufficient Data	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
3	02030103070030-01	HUC02030103070030	Wanaque R/Greenwood Lk(aboveMonks gage)	Attaining	Attaining	Non Attaining	Attaining	Attaining	NA
3	02030103070070-01	HUC02030103070070	Wanaque R/Posts Bk (below reservior)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
3	02030103070050-01	HUC02030103070050	Wanaque Reservior (below Monks gage)	Insufficient Data	Insufficient Data	Non Attaining	Attaining	Non Attaining	NA
13	02040301120010-01	HUC02040301120010	Waretown Creek / Lochiel Creek	Insufficient Data	NA	Insufficient Data	Non Attaining	Insufficient Data	Insufficient Data
15	02040302050010-01	HUC02040302050010	Watering Race Branch (Babcock Creek)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
2	02020007040050-01	HUC02020007040050	Wawayanda Creek & tribs	Non Attaining	Non Attaining	Insufficient Data	Non Attaining	Attaining	NA
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
13	02040301090010-01	HUC02040301090010	Webbs Mill Branch	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
1	02040105150010-01	HUC02040105150010	Weldon Brook/Beaver Brook	Insufficient Data	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
3	02030103070040-01	HUC02030103070040	West Brook/Burnt Meadow Brook	Insufficient Data	Non Attaining	Insufficient Data	Attaining	Insufficient Data	NA
16	02040206210020-01	HUC02040206210020	West Ck (above Rt 550)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
16	02040206210040-01	HUC02040206210040	West Ck (below PaperMillRd) to MooresBch	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	Insufficient Data
16	02040206210030-01	HUC02040206210030	West Ck (Paper Mill Rd to Rt 550)	Non Attaining	NA	Insufficient Data	Attaining	Attaining	NA
13	02040301130050-01	HUC02040301130050	Westecunk Creek (above GS Parkway)	Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
13	02040301130060-01	HUC02040301130060	Westecunk Creek (below GS Parkway)	Attaining	NA	Insufficient Data	Attaining	Non Attaining	Non Attaining
12	02030104090010-01	HUC02030104090010	Whale Pond Brook	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
6	02030103020010-01	HUC02030103020010	Whippany R (above road at 74d 33m)	Attaining	Non Attaining	Insufficient Data	Non Attaining	Attaining	NA
6	02030103020040-01	HUC02030103020040	Whippany R (Lk Pocahontas to Wash Val Rd)	Non Attaining	Insufficient Data	Non Attaining	Attaining	Non Attaining	NA
6	02030103020050-01	HUC02030103020050	Whippany R (Malapardis to Lk Pocahontas)	Non Attaining	Insufficient Data	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103020100-01	HUC02030103020100	Whippany R (Rockaway R to Malapardis Bk)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
6	02030103020020-01	HUC02030103020020	Whippany R (Wash. Valley Rd to 74d 33m)	Attaining	Attaining	Insufficient Data	Non Attaining	Non Attaining	NA
17	02040206170020-01	HUC02040206170020	White Marsh Run (Millville)	Attaining	NA	Insufficient Data	Non Attaining	Insufficient Data	NA
15	02040302040040-01	HUC02040302040040	White Oak Branch (Hospitality Branch)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
11	02040105200040-01	HUC02040105200040	Wickecheoke Creek (above Locktown)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
11	02040105200060-01	HUC02040105200060	Wickecheoke Creek (below Locktown)	Non Attaining	Non Attaining	Insufficient Data	Attaining	Non Attaining	NA
15	02040302070100-01	HUC02040302070100	Willis Thorofare / Hughes Creek	Insufficient Data	NA	Insufficient Data	NA	Insufficient Data	Non Attaining
12	02030104070020-01	HUC02030104070020	Willow Brook	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Aquatic Life General	Aquatic Life Trout	Fish Consumption	Public Water Supply	Recreation	Shellfish
14	02040301160040-01	HUC02040301160040	Wisickaman Creek	Non Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	Insufficient Data	NA	Non Attaining	NA	Insufficient Data	NA
18	02040202120100-01	HUC02040202120100	Woodbury Creek (above Rt 45)	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
18	02040202120110-01	HUC02040202120110	Woodbury Creek (below Rt 45)/LDRV to B T Ck	Non Attaining	NA	Non Attaining	Attaining	Insufficient Data	NA
13	02040301080010-01	HUC02040301080010	Wrangel Brook (above Michaels Branch)	Attaining	NA	Insufficient Data	Insufficient Data	Insufficient Data	NA
13	02040301080050-01	HUC02040301080050	Wrangel Brook (below Michaels Branch)	Non Attaining	NA	Insufficient Data	Non Attaining	Non Attaining	NA
12	02030104090070-01	HUC02030104090070	Wreck Pond Brook (above Rt 35)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
12	02030104090080-01	HUC02030104090080	Wreck Pond Brook (below Rt 35)	Non Attaining	NA	Non Attaining	Non Attaining	Non Attaining	Non Attaining
2	02020007020020-01	HUC02020007020020	Wykertown tribs (Papakating Creek)	Insufficient Data	NA	Insufficient Data	Attaining	Attaining	NA
1	02040105050040-01	HUC02040105050040	Yards Creek	Non Attaining	Non Attaining	Non Attaining	Insufficient Data	Insufficient Data	NA
12	02030104070040-01	HUC02030104070040	Yellow Brook (above Bucks Mill)	Non Attaining	NA	Insufficient Data	Attaining	Non Attaining	NA
12	02030104070060-01	HUC02030104070060	Yellow Brook (below Bucks Mill)	Non Attaining	NA	Insufficient Data	Insufficient Data	Non Attaining	NA
14	02040301180010-01	HUC02040301180010	Yellow Dam Branch	Non Attaining	NA	Insufficient Data	Non Attaining	Attaining	NA

WMA	Assessment Unit Number	HUC	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
15	02040302020030-01	HUC02040302020030	Absecon Creek (AC Reserviors) (gage to SB)	MERCURY IN FISH TISSUE	Atlantic City Reservoir (Upper),Atlantic City Reservoir	2014	Fish Consumption		Low
15	02040302020030-01	HUC02040302020030	Absecon Creek (AC Reserviors) (gage to SB)	MERCURY IN WATER COLUMN	01410455	2006	Public Water Supply		Low
15	02040302020030-01	HUC02040302020030	Absecon Creek (AC Reserviors) (gage to SB)	PCBS IN FISH TISSUE	Atlantic City Reservoir (Upper),Atlantic City Reservoir	2016	Fish Consumption	L	Low
15	02040302020040-01	HUC02040302020040	Absecon Creek (below gage)	DISSOLVED OXYGEN	2401, R33	2004	Aquatic Life General		Medium
15	02040302020040-01	HUC02040302020040	Absecon Creek (below gage)	MERCURY IN FISH TISSUE	Atlantic City Reservoir (Lower)	2008	Fish Consumption		Low
15	02040302020010-01	HUC02040302020010	Absecon Creek NB	MERCURY IN FISH TISSUE	Atlantic City Reservoir (Lower)	2006	Fish Consumption		Low
15	02040302020010-01	HUC02040302020010	Absecon Creek NB	PH	ANOABGSP	2016	Aquatic Life General		Medium
15	02040302020020-01	HUC02040302020020	Absecon Creek SB	MERCURY IN WATER COLUMN	01410455	2016	Public Water Supply		Low
14	02040301160110-01	HUC02040301160110	Albertson Brook / Gun Branch	BIOLOGICAL-CAUSE UNKNOWN	AN0571, AN0572	2016	Aquatic Life General		Low
14	02040301160110-01	HUC02040301160110	Albertson Brook / Gun Branch	PH	0140940970, 0140941020, NALDEREL	2016	Aquatic Life General		Medium
11	02040105210010-01	HUC02040105210010	Alexauken Ck (above 74d 55m)	PH	01461900	2016	Aquatic Life General		Medium
11	02040105210010-01	HUC02040105210010	Alexauken Ck (above 74d 55m)	TEMPERATURE	01461900, BFBM000207, BFBM000208, BFBM000209	2006	Aquatic Life General, Aquatic Life Trout	R	Medium
11	02040105210020-01	HUC02040105210020	Alexauken Ck (below 74d 55m to 11BA06)	ARSENIC	01461840	2012	Public Water Supply		Low
11	02040105210020-01	HUC02040105210020	Alexauken Ck (below 74d 55m to 11BA06)	ESCHERICHIA COLI (E. COLI)	01461840	2012	Recreation	R	Medium
11	02040105210020-01	HUC02040105210020	Alexauken Ck (below 74d 55m to 11BA06)	PH	01461900	2012	Aquatic Life General		Medium
11	02040105210020-01	HUC02040105210020	Alexauken Ck (below 74d 55m to 11BA06)	TEMPERATURE	01461900, BFBM000210	2006	Aquatic Life Trout	R	Medium
17	02040206060020-01	HUC02040206060020	Alloway Ck (above Alloway-Woodstown Rd)	ARSENIC	01482880	2008	Public Water Supply	A	Low
17	02040206060020-01	HUC02040206060020	Alloway Ck (above Alloway-Woodstown Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0699	2016	Aquatic Life General		Low
17	02040206060020-01	HUC02040206060020	Alloway Ck (above Alloway-Woodstown Rd)	TOTAL SUSPENDED SOLIDS (TSS)	01482880	2008	Aquatic Life General		Medium
17	02040206060090-01	HUC02040206060090	Alloway Ck (below HancocksBr) to Salem R	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060090-01	HUC02040206060090	Alloway Ck (below HancocksBr) to Salem R	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
17	02040206060080-01	HUC02040206060080	Alloway Ck (HancocksBridge to NewBridge)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060080-01	HUC02040206060080	Alloway Ck (HancocksBridge to NewBridge)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
17	02040206060060-01	HUC02040206060060	Alloway Ck (New Bridge to Quinton)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060060-01	HUC02040206060060	Alloway Ck (New Bridge to Quinton)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
17	02040206060050-01	HUC02040206060050	Alloway Ck (Quinton to Alloway-WdstwnRd)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060050-01	HUC02040206060050	Alloway Ck (Quinton to Alloway-WdstwnRd)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
18	02040202120060-01	HUC02040202120060	Almonesson Creek	ARSENIC	01467368	2012	Public Water Supply		Low
18	02040202120060-01	HUC02040202120060	Almonesson Creek	DISSOLVED OXYGEN	01467368	2010	Aquatic Life General		Medium
18	02040202120060-01	HUC02040202120060	Almonesson Creek	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202120060-01	HUC02040202120060	Almonesson Creek	PHOSPHORUS, TOTAL	01467368	2014	Aquatic Life General		Medium
18	02040202120060-01	HUC02040202120060	Almonesson Creek	TURBIDITY	01467368	2012	Aquatic Life General		Medium
9	02030105120110-01	HUC02030105120110	Ambrose Brook (above/incl Lake Nelson)	ARSENIC	01404010	2016	Public Water Supply		Low
9	02030105120110-01	HUC02030105120110	Ambrose Brook (above/incl Lake Nelson)	BIOLOGICAL-CAUSE UNKNOWN	AN0425B	2016	Aquatic Life General		Low
9	02030105120110-01	HUC02030105120110	Ambrose Brook (above/incl Lake Nelson)	PHOSPHORUS, TOTAL	01404010	2016	Aquatic Life General		Medium
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	ARSENIC	01404010	2016	Public Water Supply		Low
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	CHLORIDE	AN0425A	2016	Public Water Supply		Low
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	ESCHERICHIA COLI (E. COLI)	BFBM000155	2016	Recreation		Medium
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	BIOLOGICAL-CAUSE UNKNOWN	AN0425, AN0425A, FIBI071, NJS11-113	2006	Aquatic Life General		Medium
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	PHOSPHORUS, TOTAL	01404010, AN0425A	2016	Aquatic Life General		Medium
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	TOTAL DISSOLVED SOLIDS (TDS)	AN0425A	2016	Public Water Supply		Medium
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	BENZO[A]PYRENE (PAHS)	Arthur Kill	2008	Fish Consumption		Low
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	CHLORDANE IN FISH TISSUE	NY Harbor	2006	Fish Consumption	L	Low
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	DDT IN FISH TISSUE	NY Harbor	2008	Fish Consumption	L	Low
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	DIELDRIN	Arthur Kill	2008	Fish Consumption	L	Low
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	DIOXIN IN FISH TISSUE	NY Harbor	2006	Fish Consumption		Low
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	HEPTACHLOR EPOXIDE	Arthur Kill	2008	Fish Consumption	L	Low

7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	HEXACHLOROBENZENE	Arthur Kill	2008	Fish Consumption		Low
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	BIOLOGICAL-CAUSE UNKNOWN	NB208, NB209	2006	Aquatic Life General		Low
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	PCBS IN FISH TISSUE	NY Harbor	2008	Fish Consumption	L	Low
20	02040201100010-01	HUC02040201100010	Assiscunk Ck (above Rt 206)	ARSENIC	01464577	2008	Public Water Supply		Low
20	02040201100010-01	HUC02040201100010	Assiscunk Ck (above Rt 206)	TOTAL SUSPENDED SOLIDS (TSS)	01464577	2010	Aquatic Life General	R	Medium
20	02040201100060-01	HUC02040201100060	Assiscunk Ck (below Neck Rd)	ARSENIC	01464594	2016	Public Water Supply		Low
20	02040201100060-01	HUC02040201100060	Assiscunk Ck (below Neck Rd)	ESCHERICHIA COLI (E. COLI)	BFBM000013	2012	Recreation		Medium
20	02040201100060-01	HUC02040201100060	Assiscunk Ck (below Neck Rd)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201100040-01	HUC02040201100040	Assiscunk Ck (Jacksonville rd to Rt 206)	ARSENIC	01464588	1998	Public Water Supply		Low
20	02040201100040-01	HUC02040201100040	Assiscunk Ck (Jacksonville rd to Rt 206)	BIOLOGICAL-CAUSE UNKNOWN	AN0141	2008	Aquatic Life General		Low
20	02040201100050-01	HUC02040201100050	Assiscunk Ck (Neck Rd to Jacksonville rd)	ARSENIC	01464588	1998	Public Water Supply		Low
20	02040201100050-01	HUC02040201100050	Assiscunk Ck (Neck Rd to Jacksonville rd)	ESCHERICHIA COLI (E. COLI)	BFBM000053	2012	Recreation		Low
20	02040201100050-01	HUC02040201100050	Assiscunk Ck (Neck Rd to Jacksonville rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0141	2008	Aquatic Life General		Medium
20	02040201100050-01	HUC02040201100050	Assiscunk Ck (Neck Rd to Jacksonville rd)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
11	02040105230010-01	HUC02040105230010	Assunpink Ck (above Assunpink Lake)	ARSENIC	01463520	2012	Public Water Supply		Low
11	02040105230010-01	HUC02040105230010	Assunpink Ck (above Assunpink Lake)	ESCHERICHIA COLI (E. COLI)	01463520	2012	Recreation		Low
11	02040105230010-01	HUC02040105230010	Assunpink Ck (above Assunpink Lake)	BIOLOGICAL-CAUSE UNKNOWN	AN0108	2016	Aquatic Life General		Medium
11	02040105230010-01	HUC02040105230010	Assunpink Ck (above Assunpink Lake)	PHOSPHORUS, TOTAL	01463520	2012	Aquatic Life General		Medium
11	02040105240060-01	HUC02040105240060	Assunpink Ck (below Shipetaukin Ck)	ARSENIC	01464000	1998	Public Water Supply		Low
11	02040105240060-01	HUC02040105240060	Assunpink Ck (below Shipetaukin Ck)	BIOLOGICAL-CAUSE UNKNOWN	AN0621	2016	Aquatic Life General		Low
11	02040105240060-01	HUC02040105240060	Assunpink Ck (below Shipetaukin Ck)	LEAD	01464000	1998	Public Water Supply		Low
11	02040105240060-01	HUC02040105240060	Assunpink Ck (below Shipetaukin Ck)	MERCURY IN FISH TISSUE	Assunpink Creek	2010	Fish Consumption		Low
11	02040105240060-01	HUC02040105240060	Assunpink Ck (below Shipetaukin Ck)	PHOSPHORUS, TOTAL	01464020	2010	Aquatic Life General		Medium
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	ARSENIC	01463566, 01463568	2012	Public Water Supply		Low
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	DISSOLVED OXYGEN	01463566	2016	Aquatic Life General		Low
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	BIOLOGICAL-CAUSE UNKNOWN	AN0109A	2016	Aquatic Life General		Medium
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	PCBS IN FISH TISSUE	Assunpink Creek,Assunpink Lake	2012	Fish Consumption	L	Low
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	PHOSPHORUS, TOTAL	01463566, 01463568	2010	Aquatic Life General		Medium
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	TOTAL SUSPENDED SOLIDS (TSS)	01463568	2010	Aquatic Life General		Medium
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	ARSENIC	01463610, 01463620	1998	Public Water Supply		Low
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	CHLORDANE IN FISH TISSUE	Assunpink Creek,Mercer Co. Park Lake	2014	Fish Consumption	L	Low
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	ESCHERICHIA COLI (E. COLI)	01463610	2014	Recreation		Low
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0131A	2006	Aquatic Life General		Medium
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	MERCURY IN FISH TISSUE	Assunpink Creek,Mercer Co. Park Lake	2006	Fish Consumption		High
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	PCBS IN FISH TISSUE	Assunpink Creek,Mercer Co. Park Lake	2012	Fish Consumption	L	Low
11	02040105230040-01	HUC02040105230040	Assunpink Ck (TrentonRd to NewSharonBr)	ARSENIC	01463610	1998	Public Water Supply		Low
11	02040105230040-01	HUC02040105230040	Assunpink Ck (TrentonRd to NewSharonBr)	ESCHERICHIA COLI (E. COLI)	01463610	2008	Recreation		Low
11	02040105230040-01	HUC02040105230040	Assunpink Ck (TrentonRd to NewSharonBr)	BIOLOGICAL-CAUSE UNKNOWN	AN0109	2006	Aquatic Life General		Medium
11	02040105230040-01	HUC02040105230040	Assunpink Ck (TrentonRd to NewSharonBr)	PCBS IN FISH TISSUE	Assunpink Creek,Mercer Co. Park Lake,Assunpink Lake	2014	Fish Consumption	L	Low
16	02040302940010-01	HUC02040302940010	Atl Coast(34th St to Corson Inl)	DISSOLVED OXYGEN	A85A2, A87A, JC85E, JC85G	2006	Aquatic Life General		Medium
15	02040302920010-01	HUC02040302920010	Atl Coast(Absecon In to Ventnor)	DISSOLVED OXYGEN	A74A, JC75E, JC75G	2006	Aquatic Life General		Medium
13	02040301920010-01	HUC02040301920010	Atl Coast(Barnegat to Surf City)	DISSOLVED OXYGEN	JC61E	2006	Aquatic Life General		Medium
16	02040302940050-01	HUC02040302940050	Atl Coast(CM Inlet to Cape May Pt)	DISSOLVED OXYGEN	A107A, A110B, C106A1	2006	Aquatic Life General		Medium
16	02040302940020-01	HUC02040302940020	Atl Coast(Corson to Townsends In)	DISSOLVED OXYGEN	JC87	2010	Aquatic Life General		Medium
15	02040302930010-01	HUC02040302930010	Atl Coast(Great Egg to 34th St)	DISSOLVED OXYGEN	A81B, JC81	2006	Aquatic Life General		Medium
13	02040301920030-01	HUC02040301920030	Atl Coast(Haven Bch to Lit Egg)	DISSOLVED OXYGEN	JC69E, JC69G	2006	Aquatic Life General		Medium
16	02040302940040-01	HUC02040302940040	Atl Coast(Hereford to Cape May In)	DISSOLVED OXYGEN	A101A, A105A2	2006	Aquatic Life General		Medium
13	02040301910020-01	HUC02040301910020	Atl Coast(Herring Is to Rt 37)	DISSOLVED OXYGEN	JC44	2006	Aquatic Life General		Medium
14	02040302910010-01	HUC02040302910010	Atl Coast(Ltl Egg to Absecon In)	DISSOLVED OXYGEN	JC69E, JC69G, JC75E, JC75G	2006	Aquatic Life General		Medium
13	02040301910010-01	HUC02040301910010	Atl Coast(Manasquan/Herring Is)	DISSOLVED OXYGEN	JC37, JC41, JC41E, JC41G	2006	Aquatic Life General		Medium
12	02030104920020-01	HUC02030104920020	Atl Coast(Navesink R to WhalePond)	DISSOLVED OXYGEN	JC14E, JC14G	2006	Aquatic Life General		Medium

16	02040303060201-01	HUC02040303060201	Atl Coast(off Cape May Pt)	DISSOLVED OXYGEN	A107A, A110B, C106A1	2010	Aquatic Life General		Medium
13	02040301910030-01	HUC02040301910030	Atl Coast(Rt 37 to Barnegat Inlet)	DISSOLVED OXYGEN	JC53E, JC53G, JC61G	2006	Aquatic Life General		Medium
12	02030104920010-01	HUC02030104920010	Atl Coast(Sandy H to Navesink R)	DISSOLVED OXYGEN	JC03, JC05, NYB20	2006	Aquatic Life General		Medium
12	02030104930020-01	HUC02030104930020	Atl Coast(Shark R to Manasquan)	DISSOLVED OXYGEN	JC26, JC27	2006	Aquatic Life General		Medium
13	02040301920020-01	HUC02040301920020	Atl Coast(Surf City to Haven Be)	DISSOLVED OXYGEN	JC65	2006	Aquatic Life General		Medium
16	02040302940030-01	HUC02040302940030	Atl Coast(Townsends to Hereford In)	DISSOLVED OXYGEN	A93A2, A94A, A94A2, JC89, JC90E, JC90G	2010	Aquatic Life General		Medium
15	02040302920020-01	HUC02040302920020	Atl Coast(Ventnor to Great Egg)	DISSOLVED OXYGEN	A77B, JC79	2006	Aquatic Life General		Medium
12	02030104930010-01	HUC02030104930010	Atl Coast(Whale Pond to Shark R)	DISSOLVED OXYGEN	JC21, JC27E, JC27G	2006	Aquatic Life General		Medium
15	02040302050020-01	HUC02040302050020	Babcock Creek (GEHR)	ARSENIC	01411196	2016	Public Water Supply		Low
15	02040302050020-01	HUC02040302050020	Babcock Creek (GEHR)	BIOLOGICAL-CAUSE UNKNOWN	AN0640B	2016	Aquatic Life General		Low
15	02040302050020-01	HUC02040302050020	Babcock Creek (GEHR)	PH	01411196, LJALEIPZ	2002	Aquatic Life General		Medium
8	02030105030050-01	HUC02030105030050	Back Brook	ARSENIC	BFBM000009	2016	Public Water Supply		Low
8	02030105030050-01	HUC02030105030050	Back Brook	ESCHERICHIA COLI (E. COLI)	BFBM000009	2012	Recreation	R	Low
8	02030105030050-01	HUC02030105030050	Back Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0334, AN0335, BB18	2006	Aquatic Life General		Medium
20	02040201070010-01	HUC02040201070010	Back Creek (above Yardville-H Sq Road)	BIOLOGICAL-CAUSE UNKNOWN	AN0131A	2016	Aquatic Life General		Low
20	02040201070010-01	HUC02040201070010	Back Creek (above Yardville-H Sq Road)	PHOSPHORUS, TOTAL	01464523	2006	Aquatic Life General		Medium
17	02040206100030-01	HUC02040206100030	Back Creek (Sea Breeze Rd to Cedar Ck)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100030-01	HUC02040206100030	Back Creek (Sea Breeze Rd to Cedar Ck)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
7	02030104050030-01	HUC02030104050030	Baltusrol trib (above Springfield Sta)	BIOLOGICAL-CAUSE UNKNOWN	AN0193A	2016	Aquatic Life General		Low
9	02030105150050-01	HUC02030105150050	Barclay Brook	ESCHERICHIA COLI (E. COLI)	01405285	2010	Recreation		Low
9	02030105150050-01	HUC02030105150050	Barclay Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0450	2016	Aquatic Life General		Medium
9	02030105150050-01	HUC02030105150050	Barclay Brook	PH	01405285, BaB1	2002	Aquatic Life General		Medium
20	02040201100020-01	HUC02040201100020	Barkers Brook (above 40d02m30s)	ARSENIC	01464583	2008	Public Water Supply		Low
20	02040201100020-01	HUC02040201100020	Barkers Brook (above 40d02m30s)	DISSOLVED OXYGEN	01464583	2014	Aquatic Life General		Low
20	02040201100020-01	HUC02040201100020	Barkers Brook (above 40d02m30s)	BIOLOGICAL-CAUSE UNKNOWN	AN0140, AN0141O	2016	Aquatic Life General		Medium
13	BarnegatBay05	HUCBarnegatBay05	Barnegat Bay Central West	DISSOLVED OXYGEN	BB07a	2014	Aquatic Life General		High
17	02040206090010-01	HUC02040206090010	Barrett Run (above West Ave)	DISSOLVED OXYGEN	01413007	2016	Aquatic Life General		Low
17	02040206090010-01	HUC02040206090010	Barrett Run (above West Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0713, AN0714	2016	Aquatic Life General		Medium
19	02040202060040-01	HUC02040202060040	Barton Run (above Kettle Run Road)	ARSENIC	01465865	2008	Public Water Supply		Low
19	02040202060040-01	HUC02040202060040	Barton Run (above Kettle Run Road)	DISSOLVED OXYGEN	01465865	2008	Aquatic Life General		Medium
19	02040202060040-01	HUC02040202060040	Barton Run (above Kettle Run Road)	PH	01465865	2006	Aquatic Life General		Medium
19	02040202060050-01	HUC02040202060050	Barton Run (below Kettle Run Road)	ARSENIC	01465865	2008	Public Water Supply		Low
19	02040202060050-01	HUC02040202060050	Barton Run (below Kettle Run Road)	DISSOLVED OXYGEN	01465865	2008	Aquatic Life General		Low
19	02040202060050-01	HUC02040202060050	Barton Run (below Kettle Run Road)	BIOLOGICAL-CAUSE UNKNOWN	AN0165, AN0166	2016	Aquatic Life General		Medium
19	02040202060050-01	HUC02040202060050	Barton Run (below Kettle Run Road)	PH	01465865, NJW04459-251, WBAJENNS	2004	Aquatic Life General		Medium
19	02040202060050-01	HUC02040202060050	Barton Run (below Kettle Run Road)	PHOSPHORUS, TOTAL	NJW04459-251	2010	Aquatic Life General		Medium
14	02040301200050-01	HUC02040301200050	Bass River EB	ARSENIC	01410150	2012	Public Water Supply	A	Low
14	02040301200050-01	HUC02040301200050	Bass River EB	DDT IN FISH TISSUE	Lake Absegami	2010	Fish Consumption	L	Low
14	02040301200050-01	HUC02040301200050	Bass River EB	PCBS IN FISH TISSUE	Lake Absegami	2010	Fish Consumption	L	Low
14	02040301150010-01	HUC02040301150010	Batsto River (above Hampton Gate)	PH	01409432, BBACARRZ, BHOBUTTR	2006	Aquatic Life General		Medium
14	02040301150080-01	HUC02040301150080	Batsto River (Batsto gage to Quaker Bridge)	PH	01409470, 01409500, BBAPENNS	2002	Aquatic Life General		Medium
14	02040301150050-01	HUC02040301150050	Batsto River (CNJRR to Hampton Gate)	PH	01409432	2002	Aquatic Life General		Medium
14	02040301150060-01	HUC02040301150060	Batsto River (Quaker Bridge to CNJRR)	PH	01409470, BBALFORG	2002	Aquatic Life General		Medium
10	02030105100120-01	HUC02030105100120	Bear Brook (above Trenton Road)	ARSENIC	01400775	2008	Public Water Supply		Low
10	02030105100120-01	HUC02030105100120	Bear Brook (above Trenton Road)	ESCHERICHIA COLI (E. COLI)	01400775	2008	Recreation		Low
10	02030105100120-01	HUC02030105100120	Bear Brook (above Trenton Road)	BIOLOGICAL-CAUSE UNKNOWN	AN0383	2016	Aquatic Life General		Medium
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	ARSENIC	01400775, 01400808	2008	Public Water Supply		Low
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	DISSOLVED OXYGEN	01400808, BBB2-GMP	2010	Aquatic Life General		Low
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	ESCHERICHIA COLI (E. COLI)	01400775, 01400808	2008	Recreation		Medium
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	BIOLOGICAL-CAUSE UNKNOWN	AN0383, AN0384, BB1	2016	Aquatic Life General		Medium
1	02040105080010-01	HUC02040105080010	Bear Brook (Sussex/Warren Co)	ESCHERICHIA COLI (E. COLI)	01445160	2012	Recreation		Low

1	02040105080010-01	HUC02040105080010	Bear Brook (Sussex/Warren Co)	BIOLOGICAL-CAUSE UNKNOWN	AN0040A	2006	Aquatic Life General, Aquatic Life Trout		Medium
19	02040202060060-01	HUC02040202060060	Bear Swamp River	BIOLOGICAL-CAUSE UNKNOWN	AN0159	2010	Aquatic Life General		Low
8	02030105020050-01	HUC02030105020050	Beaver Brook (Clinton)	ESCHERICHIA COLI (E. COLI)	BFBM000043	2012	Recreation		Medium
8	02030105020050-01	HUC02030105020050	Beaver Brook (Clinton)	PH	BvB1	2010	Aquatic Life General		Medium
8	02030105020050-01	HUC02030105020050	Beaver Brook (Clinton)	TEMPERATURE	BvB1	2010	Aquatic Life Trout		Medium
6	02030103030110-01	HUC02030103030110	Beaver Brook (Morris County)	ARSENIC	01380100	2012	Public Water Supply		Low
6	02030103030110-01	HUC02030103030110	Beaver Brook (Morris County)	BIOLOGICAL-CAUSE UNKNOWN	AN0246	2012	Aquatic Life General		Low
18	02040202160040-01	HUC02040202160040	Beaver Creek (Oldmans Creek)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
2	02020007010060-01	HUC02020007010060	Beaver Run	BIOLOGICAL-CAUSE UNKNOWN	NJS11-134	2006	Aquatic Life General		Low
13	02040301040010-01	HUC02040301040010	Beaverdam Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0513	2008	Aquatic Life General		Low
10	02030105110040-01	HUC02030105110040	Beden Brook (above Province Line Rd)	ARSENIC	01401516, 01401520	2004	Public Water Supply		Low
10	02030105110040-01	HUC02030105110040	Beden Brook (above Province Line Rd)	ESCHERICHIA COLI (E. COLI)	01401520	2010	Recreation	R	Low
10	02030105110040-01	HUC02030105110040	Beden Brook (above Province Line Rd)	BIOLOGICAL-CAUSE UNKNOWN	NJS11-105	2016	Aquatic Life General		Medium
10	02030105110040-01	HUC02030105110040	Beden Brook (above Province Line Rd)	PHOSPHORUS, TOTAL	01401516	2016	Aquatic Life General		Medium
10	02030105110050-01	HUC02030105110050	Beden Brook (below Province Line Rd)	ARSENIC	01401520, 01401600, 01401703	2004	Public Water Supply		Low
10	02030105110050-01	HUC02030105110050	Beden Brook (below Province Line Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0401, AN0405	2016	Aquatic Life General		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	ARSENIC	Berry's Creek Reach 02030103-034	1998	Fish Consumption		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	BENZO[A]PYRENE (PAHS)	Berry's Creek Reach 02030103-034	2008	Fish Consumption		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	CADMIUM	Berry's Creek Reach 02030103-034Berry's Creek Reach 02030103-034	1998	Aquatic Life General, Fish Consumption		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	CHLORDANE IN FISH TISSUE	Berry's Creek Reach 02030103-034	2006	Fish Consumption	L	Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	COPPER	Berry's Creek Reach 02030103-034	1998	Aquatic Life General		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	DDT IN FISH TISSUE	Berry's Creek Reach 02030103-034	2008	Fish Consumption	L	Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	DIELDRIN	Berry's Creek Reach 02030103-034	2008	Fish Consumption	L	Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	DIOXIN IN FISH TISSUE	Berry's Creek Reach 02030103-034	2006	Fish Consumption		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	HEPTACHLOR EPOXIDE	Berry's Creek Reach 02030103-034	2014	Fish Consumption	L	Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	LEAD	Berry's Creek Reach 02030103-034	1998	Aquatic Life General		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	MERCURY IN WATER COLUMN	Berry's Creek Reach 02030103-034	2016	Fish Consumption		Low
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	PCBS IN FISH TISSUE	Berry's Creek Reach 02030103-034	1998	Fish Consumption	L	Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	ARSENIC	Adjacent to Berry's Creek Reach 02030103-034-0.11, Berry's Creek Reach 02030103-034	1998	Fish Consumption		Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	BENZO[A]PYRENE (PAHS)	Berry's Creek Reach 02030103-034	2008	Fish Consumption		Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	CHLORDANE IN FISH TISSUE	Adjacent to Berry's Creek Reach 02030103-034-0.11, Berry's Creek Reach 02030103-034	2006	Fish Consumption	L	Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	CHROMIUM	Adjacent to Berry's Creek Reach 02030103-034-0.11	1998	Fish Consumption		Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	COPPER	Berry's Creek Reach 02030103-034	1998	Aquatic Life General		Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	DDT IN FISH TISSUE	Adjacent to Berry's Creek Reach 02030103-034-0.11, Berry's Creek Reach 02030103-034	2008	Fish Consumption	L	Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	DIELDRIN	Berry's Creek Reach 02030103-034	2008	Fish Consumption	L	Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	DIOXIN IN FISH TISSUE	Adjacent to Berry's Creek Reach 02030103-034-0.11, Berry's Creek Reach 02030103-034	2006	Fish Consumption		Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	HEPTACHLOR EPOXIDE	Berry's Creek Reach 02030103-034	2014	Fish Consumption	L	Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	LEAD	Adjacent to Berry's Creek Reach 02030103-034-0.11, Berry's Creek Reach 02030103-034	1998	Aquatic Life General		Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	MERCURY IN WATER COLUMN	Adjacent to Berry's Creek Reach 02030103-034-0.11, Berry's Creek Reach 02030103-034	2016	Fish Consumption		Low
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	PCBS IN FISH TISSUE	Adjacent to Berry's Creek Reach 02030103-034-0.11, Berry's Creek Reach 02030103-034	1998	Fish Consumption	L	Low
16	02040206230010-01	HUC02040206230010	Bidwell Creek (above Rt 47)	DISSOLVED OXYGEN	R39	2004	Aquatic Life General		Medium
16	02040206230010-01	HUC02040206230010	Bidwell Creek (above Rt 47)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low

16	02040206230020-01	HUC02040206230020	Bidwell Creek (below Rt 47)-Dias to GoshenCk	DISSOLVED OXYGEN	R39	2006	Aquatic Life General		Medium
16	02040206230020-01	HUC02040206230020	Bidwell Creek (below Rt 47)-Dias to GoshenCk	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
12	02030104070030-01	HUC02030104070030	Big Brook	ARSENIC	01407280, 01407320	2012	Public Water Supply		Low
12	02030104070030-01	HUC02030104070030	Big Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0469, AN0470	2016	Aquatic Life General		Low
12	02030104070030-01	HUC02030104070030	Big Brook	PH	01407280, 01407320	2010	Aquatic Life General		Medium
12	02030104070030-01	HUC02030104070030	Big Brook	PHOSPHORUS, TOTAL	01407280, 01407320	2002	Aquatic Life General		Medium
1	02040104140010-01	HUC02040104140010	Big Flat Brook (above Forked Brook)	MERCURY IN FISH TISSUE	Saw Mill Lake	2016	Fish Consumption		Low
1	02040104140010-01	HUC02040104140010	Big Flat Brook (above Forked Brook)	PCBS IN FISH TISSUE	Saw Mill Lake	2014	Fish Consumption	L	Low
1	02040104140040-01	HUC02040104140040	Big Flat Brook (Confluence to Kittle Rd)	ARSENIC	01439830	2012	Public Water Supply		Low
1	02040104140040-01	HUC02040104140040	Big Flat Brook (Confluence to Kittle Rd)	ESCHERICHIA COLI (E. COLI)	01440000	2016	Recreation		Medium
1	02040104140040-01	HUC02040104140040	Big Flat Brook (Confluence to Kittle Rd)	TEMPERATURE	01439830	2012	Aquatic Life Trout		Medium
18	02040202120080-01	HUC02040202120080	Big Timber Creek (below NB/SB confl)	PCBS IN FISH TISSUE	Big Timber Creek,Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202120010-01	HUC02040202120010	Big Timber Creek NB (above Laurel Rd)	ARSENIC	01467359	2012	Public Water Supply		Low
18	02040202120010-01	HUC02040202120010	Big Timber Creek NB (above Laurel Rd)	PHOSPHORUS, TOTAL	01467359, NJW04459-161	2002	Aquatic Life General		Medium
18	02040202120020-01	HUC02040202120020	Big Timber Creek NB (below Laurel Rd)	ARSENIC	01467359	2012	Public Water Supply		Low
18	02040202120020-01	HUC02040202120020	Big Timber Creek NB (below Laurel Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0662	2016	Aquatic Life General		Low
18	02040202120020-01	HUC02040202120020	Big Timber Creek NB (below Laurel Rd)	PHOSPHORUS, TOTAL	01467359	2002	Aquatic Life General		Medium
18	02040202120030-01	HUC02040202120030	Big Timber Creek SB (above Lakeland Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0655, AN0656, AN0657	2016	Aquatic Life General		Low
18	02040202120050-01	HUC02040202120050	Big Timber Creek SB (below Bull Run)	PCBS IN FISH TISSUE	Big Timber Creek,Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202120050-01	HUC02040202120050	Big Timber Creek SB (below Bull Run)	PHOSPHORUS, TOTAL	01467331	2002	Aquatic Life General		Medium
18	02040202120040-01	HUC02040202120040	Big Timber Creek SB (incl Bull Run to LakelandRd)	ARSENIC	01467329	2006	Public Water Supply		Low
18	02040202150070-01	HUC02040202150070	Birch Creek	PCBS IN FISH TISSUE	Raccoon Creek	2014	Fish Consumption	L	Low
19	02040202030080-01	HUC02040202030080	Bisphams Mill Creek (below McDonalds Br)	PHOSPHORUS, TOTAL	NJW04459-155	2014	Aquatic Life General		Medium
6	02030103010060-01	HUC02030103010060	Black Brook (Great Swamp NWR)	ARSENIC	01378855, 01378895	2012	Public Water Supply		Low
6	02030103010060-01	HUC02030103010060	Black Brook (Great Swamp NWR)	DISSOLVED OXYGEN	01378895	2008	Aquatic Life General		Low
6	02030103010060-01	HUC02030103010060	Black Brook (Great Swamp NWR)	BIOLOGICAL-CAUSE UNKNOWN	AN0222, AN0223	2016	Aquatic Life General		Medium
6	02030103010060-01	HUC02030103010060	Black Brook (Great Swamp NWR)	TOTAL DISSOLVED SOLIDS (TDS)	GSWA_BB2	2008	Public Water Supply		Medium
2	02020007040020-01	HUC02020007040020	Black Creek (below G. Gorge Resort trib)	ARSENIC	01368950	2012	Public Water Supply		Low
2	02020007040020-01	HUC02020007040020	Black Creek (below G. Gorge Resort trib)	DISSOLVED OXYGEN	01368950, Wallkill_G	2006	Aquatic Life General		Low
2	02020007040020-01	HUC02020007040020	Black Creek (below G. Gorge Resort trib)	BIOLOGICAL-CAUSE UNKNOWN	AN0296	2016	Aquatic Life General		Medium
13	02040301070050-01	HUC02040301070050	Blacks Branch (above 74d22m05s)	BIOLOGICAL-CAUSE UNKNOWN	AN0529	2012	Aquatic Life General		Low
20	02040201080020-01	HUC02040201080020	Blacks Creek (Bacons Run to 40d06m10s)	BIOLOGICAL-CAUSE UNKNOWN	AN0132, AN0133	2016	Aquatic Life General		Low
20	02040201080030-01	HUC02040201080030	Blacks Creek (below Bacons Run)	ESCHERICHIA COLI (E. COLI)	01464532	2008	Recreation		Medium
20	02040201080030-01	HUC02040201080030	Blacks Creek (below Bacons Run)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201080030-01	HUC02040201080030	Blacks Creek (below Bacons Run)	PHOSPHORUS, TOTAL	01464532	2006	Aquatic Life General		Medium
20	02040201080030-01	HUC02040201080030	Blacks Creek (below Bacons Run)	TOTAL SUSPENDED SOLIDS (TSS)	01464532	2006	Aquatic Life General		Medium
17	02040206140040-01	HUC02040206140040	Blackwater Branch (above/incl Pine Br)	ARSENIC	01411495	2012	Public Water Supply		Low
17	02040206140040-01	HUC02040206140040	Blackwater Branch (above/incl Pine Br)	MERCURY IN WATER COLUMN	01411495	2008	Public Water Supply		Low
17	02040206140050-01	HUC02040206140050	Blackwater Branch (below Pine Branch)	ARSENIC	01411495	2012	Public Water Supply		Low
17	02040206140050-01	HUC02040206140050	Blackwater Branch (below Pine Branch)	MERCURY IN WATER COLUMN	01411495	2008	Public Water Supply		Low
1	02040105050020-01	HUC02040105050020	Blair Creek	TEMPERATURE	01443500	2014	Aquatic Life Trout		Medium
14	02040301160100-01	HUC02040301160100	Blue Anchor Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0570	2016	Aquatic Life General		Low
14	02040301160100-01	HUC02040301160100	Blue Anchor Brook	PH	0140940950, NBLSPRNG, NJW04459-235	2002	Aquatic Life General		Medium
19	02040202070010-01	HUC02040202070010	Bobbys Run	BIOLOGICAL-CAUSE UNKNOWN	AN0171A	2008	Aquatic Life General		Low
19	02040202070010-01	HUC02040202070010	Bobbys Run	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	ARSENIC	01403385	2016	Public Water Supply		Low
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	DIOXIN IN FISH TISSUE	Bound Brook,New Market Pond	2008	Fish Consumption		Low
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	BIOLOGICAL-CAUSE UNKNOWN	AN0424, CEDA3, CEDA4, CEDA6, CEDA7, NJS11-167	2016	Aquatic Life General		Low
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	PCBS IN FISH TISSUE	Bound Brook,New Market Pond	2006	Fish Consumption	L	Low
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	PHOSPHORUS, TOTAL	01403385	2002	Aquatic Life General		Medium
12	02030104080030-01	HUC02030104080030	Branchport Creek	DDT IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low

12	02030104080030-01	HUC02030104080030	Branchport Creek	DISSOLVED OXYGEN	1135B, MCHD-45, MCHD-47	2006	Aquatic Life General		Medium
12	02030104080030-01	HUC02030104080030	Branchport Creek	MERCURY IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption		Low
12	02030104080030-01	HUC02030104080030	Branchport Creek	PCBS IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
17	02040206100020-01	HUC02040206100020	Bridges Sticks Creek / Ogden Creek	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100020-01	HUC02040206100020	Bridges Sticks Creek / Ogden Creek	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
1	02040105110020-01	HUC02040105110020	Buckhorn Creek (incl UDRV)	TEMPERATURE	BFBM000182, FIBI048	2014	Aquatic Life Trout		Medium
17	02040206170050-01	HUC02040206170050	Buckshutem Creek (below Rt 555)	ARSENIC	01411955	2012	Public Water Supply	A	Low
17	02040206170050-01	HUC02040206170050	Buckshutem Creek (below Rt 555)	ESCHERICHIA COLI (E. COLI)	01411950	2016	Recreation		Medium
17	02040206170050-01	HUC02040206170050	Buckshutem Creek (below Rt 555)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
8	02030105060020-01	HUC02030105060020	Burnett Brook (above Old Mill Rd)	TEMPERATURE	BFBM000088	2016	Aquatic Life General, Aquatic Life Trout		Medium
17	02040206140020-01	HUC02040206140020	Burnt Mill Branch / Hudson Branch	ARSENIC	01411483	2004	Public Water Supply		Low
17	02040206140020-01	HUC02040206140020	Burnt Mill Branch / Hudson Branch	PH	01411483	2010	Aquatic Life General		Medium
19	02040202050010-01	HUC02040202050010	Burrs Mill Bk (above 39d51m30s road)	ARSENIC	01465808	2008	Public Water Supply		Low
19	02040202050010-01	HUC02040202050010	Burrs Mill Bk (above 39d51m30s road)	DISSOLVED OXYGEN	01465808	2006	Aquatic Life General		Medium
19	02040202050020-01	HUC02040202050020	Burrs Mill Bk (Burnt Br Br- 39-51-30 rd)	ARSENIC	01465808	2008	Public Water Supply		Low
19	02040202050020-01	HUC02040202050020	Burrs Mill Bk (Burnt Br Br- 39-51-30 rd)	DISSOLVED OXYGEN	01465808	2006	Aquatic Life General		Medium
19	02040202050030-01	HUC02040202050030	Burrs Mill Bk (BurrsMill to Burnt Br Br)	ARSENIC	01465808	2008	Public Water Supply		Low
19	02040202050030-01	HUC02040202050030	Burrs Mill Bk (BurrsMill to Burnt Br Br)	DISSOLVED OXYGEN	01465808	2006	Aquatic Life General		Medium
8	02030105020060-01	HUC02030105020060	Cakepoulin Creek	DDT IN FISH TISSUE	Cakepoulin Creek Reach 02030105-043-0.00	2006	Fish Consumption	L	Low
8	02030105020060-01	HUC02030105020060	Cakepoulin Creek	PH	01396900	2016	Aquatic Life General		Medium
8	02030105020060-01	HUC02030105020060	Cakepoulin Creek	TEMPERATURE	01396900	2016	Aquatic Life Trout		Medium
6	02030103010140-01	HUC02030103010140	Canoe Brook	ARSENIC	01379525	2012	Public Water Supply		Low
6	02030103010140-01	HUC02030103010140	Canoe Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0231D, AN0231E	2016	Aquatic Life General		Low
6	02030103010140-01	HUC02030103010140	Canoe Brook	TOTAL DISSOLVED SOLIDS (TDS)	01379525	2012	Public Water Supply		Medium
17	02040206070040-01	HUC02040206070040	Canton Drain (below Maskell Mill)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206070040-01	HUC02040206070040	Canton Drain (below Maskell Mill)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
16	02040302080040-01	HUC02040302080040	Cape May Bays (Reubens Wharf-BigElderCk)	DISSOLVED OXYGEN	3127C, 3201, 3214B, 3215A, JC87	2010	Aquatic Life General		Medium
16	02040302080070-01	HUC02040302080070	Cape May Bays (Rt 47 to Reubens Wharf)	DISSOLVED OXYGEN	3307B, 3307N, 3310, 3312, 3409H, 3411E, 3504A, 3509B,	2010	Aquatic Life General		Medium
16	02040302080050-01	HUC02040302080050	Cape May Courthouse tribs	BIOLOGICAL-CAUSE UNKNOWN	WACROOK2	2014	Aquatic Life General		Low
16	02040302080090-01	HUC02040302080090	Cape May Harbor & Bays (below Rt 47)	DISSOLVED OXYGEN	3516C, 3617A, SL-Bay	2010	Aquatic Life General		Medium
10	02030105100080-01	HUC02030105100080	Cedar Brook (Cranbury Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0385B	2016	Aquatic Life General		Low
17	02040206100040-01	HUC02040206100040	Cedar Creek (above Rt 553)	ARSENIC	01412250	2012	Public Water Supply	A	Low
17	02040206100040-01	HUC02040206100040	Cedar Creek (above Rt 553)	MERCURY IN FISH TISSUE	Cedar Lake	2008	Fish Consumption		Low
17	02040206100040-01	HUC02040206100040	Cedar Creek (above Rt 553)	PHOSPHORUS, TOTAL	NJW04459-173	2014	Aquatic Life General		Medium
17	02040206100040-01	HUC02040206100040	Cedar Creek (above Rt 553)	TURBIDITY	01412250	2012	Aquatic Life General		Medium
17	02040206100050-01	HUC02040206100050	Cedar Creek (below Rt 553)	ARSENIC	01412250	2016	Fish Consumption		Low
17	02040206100050-01	HUC02040206100050	Cedar Creek (below Rt 553)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100050-01	HUC02040206100050	Cedar Creek (below Rt 553)	TURBIDITY	01412250	2012	Aquatic Life General		Medium
13	02040301130040-01	HUC02040301130040	Cedar Run	ARSENIC	01409255	2012	Public Water Supply	A	Low
13	02040301130040-01	HUC02040301130040	Cedar Run	BIOLOGICAL-CAUSE UNKNOWN	AN0556	2014	Aquatic Life General		Low
12	02030104060010-01	HUC02030104060010	Cheesequake Creek / Whale Creek	CHLORDANE IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060010-01	HUC02030104060010	Cheesequake Creek / Whale Creek	DDT IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060010-01	HUC02030104060010	Cheesequake Creek / Whale Creek	MERCURY IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption		Low
12	02030104060010-01	HUC02030104060010	Cheesequake Creek / Whale Creek	PCBS IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060010-01	HUC02030104060010	Cheesequake Creek / Whale Creek	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
18	02040202130030-01	HUC02040202130030	Chestnut Branch (above Sewell)	BIOLOGICAL-CAUSE UNKNOWN	AN0670	2016	Aquatic Life General		Low
18	02040202130030-01	HUC02040202130030	Chestnut Branch (above Sewell)	PHOSPHORUS, TOTAL	Alcyon_Lake-18	2008	Aquatic Life General		Medium
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	CHLORDANE IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	DDT IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	DISSOLVED OXYGEN	R64	2014	Aquatic Life General		Low

12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	ENTEROCOCCUS	R64	2008	Recreation		Medium
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0459	2016	Aquatic Life General		Medium
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	MERCURY IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption		Low
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	PCBS IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060040-01	HUC02030104060040	Chingarora Creek to Thorns Creek	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
14	02040301160090-01	HUC02040301160090	Clark Branch (above/incl Price Branch)	BIOLOGICAL-CAUSE UNKNOWN	AN0567, AN0568	2016	Aquatic Life General		Low
3	02030103050040-01	HUC02030103050040	Clinton Reservior/Mossmans Brook	ARSENIC	01382280	2012	Public Water Supply		Low
3	02030103050040-01	HUC02030103050040	Clinton Reservior/Mossmans Brook	TEMPERATURE	AN0260	2012	Aquatic Life Trout		Medium
1	02040104090020-01	HUC02040104090020	Clove Brook (Delaware R)	PCBS IN FISH TISSUE	Steenykill Lake,Montague Lake	2012	Fish Consumption	L	Low
2	02020007020060-01	HUC02020007020060	Clove Brook (Papakating Ck)	ESCHERICHIA COLI (E. COLI)	01367880	2006	Recreation	R	Low
2	02020007020060-01	HUC02020007020060	Clove Brook (Papakating Ck)	BIOLOGICAL-CAUSE UNKNOWN	AN0308, AN0309	2016	Aquatic Life General, Aquatic Life Trout		Medium
2	02020007020060-01	HUC02020007020060	Clove Brook (Papakating Ck)	TEMPERATURE	AN0308	2006	Aquatic Life Trout		Medium
17	02040206090060-01	HUC02040206090060	Cohansey R (75d15m to/incl Rocaps Run)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206090070-01	HUC02040206090070	Cohansey R (75d17m50s to 75d15m)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206080010-01	HUC02040206080010	Cohansey R (above Beals Mill)	BIOLOGICAL-CAUSE UNKNOWN	AN0709	2016	Aquatic Life General		Low
17	02040206090100-01	HUC02040206090100	Cohansey R (below Greenwich)	CHLORDANE IN FISH TISSUE	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090100-01	HUC02040206090100	Cohansey R (below Greenwich)	DDT IN FISH TISSUE	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090100-01	HUC02040206090100	Cohansey R (below Greenwich)	PCBS IN FISH TISSUE	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090080-01	HUC02040206090080	Cohansey R (Greenwich to 75d17m50s)	CHLORDANE IN FISH TISSUE	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090080-01	HUC02040206090080	Cohansey R (Greenwich to 75d17m50s)	DDT IN FISH TISSUE	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090080-01	HUC02040206090080	Cohansey R (Greenwich to 75d17m50s)	MERCURY IN FISH TISSUE	Cohansey River at Greenwich	2006	Fish Consumption		Low
17	02040206090080-01	HUC02040206090080	Cohansey R (Greenwich to 75d17m50s)	PCBS IN FISH TISSUE	Cohansey River at Greenwich	2008	Fish Consumption	L	Low
17	02040206080040-01	HUC02040206080040	Cohansey R (incl Beebe Run to HandsPond)	ARSENIC	01412710	2016	Public Water Supply		Low
17	02040206080040-01	HUC02040206080040	Cohansey R (incl Beebe Run to HandsPond)	BIOLOGICAL-CAUSE UNKNOWN	AN0712	2016	Aquatic Life General		Low
17	02040206080020-01	HUC02040206080020	Cohansey R (incl HandsPond - Beals Mill)	BIOLOGICAL-CAUSE UNKNOWN	AN0710	2016	Aquatic Life General		Low
17	02040206090030-01	HUC02040206090030	Cohansey R (Rocaps Run to Cornwell Run)	BIOLOGICAL-CAUSE UNKNOWN	AN0716	2016	Aquatic Life General		Low
17	02040206090030-01	HUC02040206090030	Cohansey R (Rocaps Run to Cornwell Run)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
8	02030105050060-01	HUC02030105050060	Cold Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0362	2016	Aquatic Life General, Aquatic Life Trout		Low
5	02030103180010-01	HUC02030103180010	Coles Brook / Van Saun Mill Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0211, FIBI062a	2016	Aquatic Life General		Low
5	02030103180010-01	HUC02030103180010	Coles Brook / Van Saun Mill Brook	TOTAL DISSOLVED SOLIDS (TDS)	01378560	2016	Public Water Supply		Medium
15	02040302040050-01	HUC02040302040050	Collings Lakes trib (Hospitality Branch)	PH	HMAALBER, HMABLUEA, HMAPINEY, HMAUNEXS,	2006	Aquatic Life General		Medium
17	02040206060010-01	HUC02040206060010	Cool Run	BIOLOGICAL-CAUSE UNKNOWN	AN0700	2014	Aquatic Life General		Low
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	ARSENIC	01467150	2006	Public Water Supply		Low
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	CHLORDANE IN FISH TISSUE	Linden Lake,Kirkwood Lake	2012	Fish Consumption	L	Low
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	DDT IN FISH TISSUE	Linden Lake,Kirkwood Lake	2006	Fish Consumption	L	Low
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	LEAD	01467150	1998	Public Water Supply		Low
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	PCBS IN FISH TISSUE	Linden Lake,Kirkwood Lake	2008	Fish Consumption	L	Low
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	TETRACHLOROETHYLENE	01467150	1998	Public Water Supply		Low
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	TRICHLOROETHYLENE (TCE)	01467150	1998	Public Water Supply		Low
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	ARSENIC	01467190	2006	Public Water Supply		Low
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	DDT IN FISH TISSUE	Cooper River (Hwy. 130),Cooper River Park Lake,Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	ESCHERICHIA COLI (E. COLI)	BFBM000049	2012	Recreation		Medium
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	PCBS IN FISH TISSUE	Cooper River (Hwy. 130),Cooper River Park Lake,Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	TETRACHLOROETHYLENE	01467190	1998	Public Water Supply		Low
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	TRICHLOROETHYLENE (TCE)	01467190	1998	Public Water Supply		Low
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	ARSENIC	01467190, 01467150	1998	Public Water Supply		Low

18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	CHLORDANE IN FISH TISSUE	Cooper River Park Lake,Cooper River Lake,Cooper River at mouth of Evans Pond	2008	Fish Consumption	L	Low
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	DDT IN FISH TISSUE	Cooper River Park Lake,Cooper River Lake,Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	ESCHERICHIA COLI (E. COLI)	01467150, BFBM000049, Cooper River at Cuthbert Blvd, Cooper River near mouth	2010	Recreation		Medium
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	LEAD	01467150	1998	Public Water Supply		Low
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	PCBS IN FISH TISSUE	Cooper River Park Lake,Cooper River Lake,Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	PH	NJW04459-047	2008	Aquatic Life General		Medium
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	TETRACHLOROETHYLENE	01467190, 01467150	1998	Public Water Supply		Low
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	TRICHLOROETHYLENE (TCE)	01467190, 01467150	1998	Public Water Supply		Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	ARSENIC	01467150	1998	Public Water Supply		Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	CHLORDANE IN FISH TISSUE	Evans Pond,Cooper River at mouth of Evans Pond	2008	Fish Consumption	L	Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	DDT IN FISH TISSUE	Evans Pond,Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0190, FIBI266	2016	Aquatic Life General		Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	LEAD	01467150	1998	Public Water Supply		Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	PCBS IN FISH TISSUE	Evans Pond,Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	TETRACHLOROETHYLENE	01467150	1998	Public Water Supply		Low
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	TRICHLOROETHYLENE (TCE)	01467150	1998	Public Water Supply		Low
18	02040202110010-01	HUC02040202110010	Cooper River NB (above Springdale Road)	ARSENIC	01467155	2004	Public Water Supply		Low
18	02040202110010-01	HUC02040202110010	Cooper River NB (above Springdale Road)	DDT IN FISH TISSUE	Cooper River	2006	Fish Consumption	L	Low
18	02040202110010-01	HUC02040202110010	Cooper River NB (above Springdale Road)	DISSOLVED OXYGEN	01467155	2008	Aquatic Life General		Medium
18	02040202110010-01	HUC02040202110010	Cooper River NB (above Springdale Road)	PCBS IN FISH TISSUE	Cooper River	2006	Fish Consumption	L	Low
18	02040202110020-01	HUC02040202110020	Cooper River NB (below Springdale Road)	ARSENIC	01467181	2006	Public Water Supply	A	Low
18	02040202110020-01	HUC02040202110020	Cooper River NB (below Springdale Road)	DDT IN FISH TISSUE	Cooper River	2006	Fish Consumption	L	Low
18	02040202110020-01	HUC02040202110020	Cooper River NB (below Springdale Road)	BIOLOGICAL-CAUSE UNKNOWN	AN0187, AN0188, FIBI236	2016	Aquatic Life General		Low
18	02040202110020-01	HUC02040202110020	Cooper River NB (below Springdale Road)	PCBS IN FISH TISSUE	Cooper River	2006	Fish Consumption	L	Low
16	02040302080020-01	HUC02040302080020	Corson Inlet & Sound / Ludlam Bay	DISSOLVED OXYGEN	3103A, 3105A, 3115, 3122A	2010	Aquatic Life General		Medium
16	02040206230060-01	HUC02040206230060	Cox Hall Creek / Mickels Run (to Villas)	ARSENIC	01411397	2014	Public Water Supply		Low
16	02040206230060-01	HUC02040206230060	Cox Hall Creek / Mickels Run (to Villas)	DISSOLVED OXYGEN	01411397	2006	Aquatic Life General		Low
16	02040206230060-01	HUC02040206230060	Cox Hall Creek / Mickels Run (to Villas)	BIOLOGICAL-CAUSE UNKNOWN	WACRESS	2016	Aquatic Life General		Medium
16	02040206230060-01	HUC02040206230060	Cox Hall Creek / Mickels Run (to Villas)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206230060-01	HUC02040206230060	Cox Hall Creek / Mickels Run (to Villas)	TURBIDITY	01411397	2010	Aquatic Life General		Medium
20	02040201090010-01	HUC02040201090010	Crafts Creek (above Rt 206)	ESCHERICHIA COLI (E. COLI)	BFBM000021	2012	Recreation		Low
20	02040201090010-01	HUC02040201090010	Crafts Creek (above Rt 206)	BIOLOGICAL-CAUSE UNKNOWN	AN0135, AN0136, CRA-04GB	2016	Aquatic Life General		Medium
20	02040201090010-01	HUC02040201090010	Crafts Creek (above Rt 206)	PHOSPHORUS, TOTAL	01464537	2006	Aquatic Life General		Medium
20	02040201090020-01	HUC02040201090020	Crafts Creek (below Rt 206)	ARSENIC	01464540	2008	Public Water Supply		Low
20	02040201090020-01	HUC02040201090020	Crafts Creek (below Rt 206)	ESCHERICHIA COLI (E. COLI)	BFBM000002	2012	Recreation		Low
20	02040201090020-01	HUC02040201090020	Crafts Creek (below Rt 206)	BIOLOGICAL-CAUSE UNKNOWN	AN0137	2012	Aquatic Life General		Medium
20	02040201090020-01	HUC02040201090020	Crafts Creek (below Rt 206)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
1	02040105150060-01	HUC02040105150060	Cranberry Lake / Jefferson Lake & tribs	PCBS IN FISH TISSUE	Cranberry Lake	2012	Fish Consumption	L	Low
16	02040302080010-01	HUC02040302080010	Crook Horn Creek (above Devils Island)	DISSOLVED OXYGEN	3007A, 3101A	2006	Aquatic Life General		Medium
20	02040201070020-01	HUC02040201070020	Crosswicks Ck (below Doctors Creek)	ARSENIC	0146452360	2008	Public Water Supply		Low
20	02040201070020-01	HUC02040201070020	Crosswicks Ck (below Doctors Creek)	ESCHERICHIA COLI (E. COLI)	BFBM000057	2012	Recreation		Low
20	02040201070020-01	HUC02040201070020	Crosswicks Ck (below Doctors Creek)	BIOLOGICAL-CAUSE UNKNOWN	AN0131A	2016	Aquatic Life General		Medium
20	02040201070020-01	HUC02040201070020	Crosswicks Ck (below Doctors Creek)	PCBS IN FISH TISSUE	Crosswicks Creek,Crosswicks Creek (at Bordentown),Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201070020-01	HUC02040201070020	Crosswicks Ck (below Doctors Creek)	PHOSPHORUS, TOTAL	01464523, 0146452360	2006	Aquatic Life General		Medium
20	02040201070020-01	HUC02040201070020	Crosswicks Ck (below Doctors Creek)	TOTAL SUSPENDED SOLIDS (TSS)	0146452360	2006	Aquatic Life General		Medium
20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	ARSENIC	01464504	2006	Public Water Supply		Low

20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	MERCURY IN FISH TISSUE	Delaware River Tribs to Head of Tide,Crosswicks Creek	2006	Fish Consumption		Low
20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide,Crosswicks Creek	2006	Fish Consumption	L	Low
20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	PHOSPHORUS, TOTAL	01464504	2002	Aquatic Life General		Medium
20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	TURBIDITY	01464504	2006	Aquatic Life General		Medium
20	02040201050050-01	HUC02040201050050	Crosswicks Ck (Ellisdale trib - Walnford)	ARSENIC	01464485, 01464500	2006	Public Water Supply		Low
20	02040201050050-01	HUC02040201050050	Crosswicks Ck (Ellisdale trib - Walnford)	BIOLOGICAL-CAUSE UNKNOWN	AN0126B	2016	Aquatic Life General		Low
20	02040201050050-01	HUC02040201050050	Crosswicks Ck (Ellisdale trib - Walnford)	LEAD	01464500	2012	Public Water Supply		Low
20	02040201050050-01	HUC02040201050050	Crosswicks Ck (Ellisdale trib - Walnford)	PHOSPHORUS, TOTAL	01464485, 01464500, MCHD-2	2002	Aquatic Life General		Medium
20	02040201050030-01	HUC02040201050030	Crosswicks Ck (Lahaway Ck to New Egypt)	ARSENIC	01464400, 01464430	2012	Public Water Supply		Low
20	02040201050030-01	HUC02040201050030	Crosswicks Ck (Lahaway Ck to New Egypt)	BIOLOGICAL-CAUSE UNKNOWN	AN0121	2016	Aquatic Life General		Low
20	02040201050030-01	HUC02040201050030	Crosswicks Ck (Lahaway Ck to New Egypt)	PHOSPHORUS, TOTAL	01464400, 01464420, 01464430	2006	Aquatic Life General		Medium
20	02040201040070-01	HUC02040201040070	Crosswicks Ck (NewEgypt to/incl NorthRun)	ARSENIC	01464380, 01464400	2008	Public Water Supply		Low
20	02040201040070-01	HUC02040201040070	Crosswicks Ck (NewEgypt to/incl NorthRun)	PHOSPHORUS, TOTAL	01464380, 01464400, NJW04459-115	2006	Aquatic Life General		Medium
20	02040201050040-01	HUC02040201050040	Crosswicks Ck (Walnford to Lahaway Ck)	ARSENIC	01464460, 01464485	2006	Public Water Supply	A	Low
20	02040201050040-01	HUC02040201050040	Crosswicks Ck (Walnford to Lahaway Ck)	BIOLOGICAL-CAUSE UNKNOWN	AN0125B	2016	Aquatic Life General		Low
20	02040201050040-01	HUC02040201050040	Crosswicks Ck (Walnford to Lahaway Ck)	PHOSPHORUS, TOTAL	01464460, 01464485, MCHD-2	2006	Aquatic Life General		Medium
10	02030105110090-01	HUC02030105110090	Cruser Brook / Roaring Brook	ESCHERICHIA COLI (E. COLI)	BFBM000037	2012	Recreation		Low
10	02030105110090-01	HUC02030105110090	Cruser Brook / Roaring Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0403	2012	Aquatic Life General		Medium
3	02030103100060-01	HUC02030103100060	Crystal Lake/Pond Brook	PH	NJW04459-159	2010	Aquatic Life General		Medium
9	02030105120070-01	HUC02030105120070	Cuckels Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0415	2008	Aquatic Life General		Low
1	02040105040010-01	HUC02040105040010	Culvers Creek	ESCHERICHIA COLI (E. COLI)	BFBM000126	2014	Recreation		Low
1	02040105040010-01	HUC02040105040010	Culvers Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0017, AN0018A	2016	Aquatic Life General, Aquatic Life Trout		Medium
1	02040105040010-01	HUC02040105040010	Culvers Creek	TEMPERATURE	01443395	2014	Aquatic Life Trout		Medium
6	02030103010100-01	HUC02030103010100	Dead River (below Harrisons Brook)	DISSOLVED OXYGEN	DR1	2010	Aquatic Life General		Low
6	02030103010100-01	HUC02030103010100	Dead River (below Harrisons Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0227	2016	Aquatic Life General		Medium
12	02030104090030-01	HUC02030104090030	Deal Lake	CHLORDANE IN FISH TISSUE	Deal Lake	2010	Fish Consumption	L	Low
12	02030104090030-01	HUC02030104090030	Deal Lake	PCBS IN FISH TISSUE	Deal Lake	2010	Fish Consumption	L	Low
12	02030104090030-01	HUC02030104090030	Deal Lake	PH	MCHD-1	2008	Aquatic Life General		Medium
9	02030105160010-01	HUC02030105160010	Deep Run (above Monmouth Co line)	ARSENIC	01405960	2016	Public Water Supply		Low
9	02030105160010-01	HUC02030105160010	Deep Run (above Monmouth Co line)	ESCHERICHIA COLI (E. COLI)	MCHD-90	2014	Recreation		Low
9	02030105160010-01	HUC02030105160010	Deep Run (above Monmouth Co line)	BIOLOGICAL-CAUSE UNKNOWN	AN0453A	2016	Aquatic Life General		Medium
9	02030105160010-01	HUC02030105160010	Deep Run (above Monmouth Co line)	PHOSPHORUS, TOTAL	01405960	2016	Aquatic Life General		Medium
17	02040206060040-01	HUC02040206060040	Deep Run (Alloway)	ARSENIC	01483010	2008	Public Water Supply	A	Low
9	02030105160040-01	HUC02030105160040	Deep Run (below Rt 9)	ARSENIC	01406040	2012	Public Water Supply		Low
9	02030105160040-01	HUC02030105160040	Deep Run (below Rt 9)	DISSOLVED OXYGEN	01406040	2008	Aquatic Life General		Low
9	02030105160040-01	HUC02030105160040	Deep Run (below Rt 9)	ESCHERICHIA COLI (E. COLI)	BFBM000004	2012	Recreation		Medium
9	02030105160040-01	HUC02030105160040	Deep Run (below Rt 9)	BIOLOGICAL-CAUSE UNKNOWN	AN0453, AN0454	2016	Aquatic Life General		Medium
9	02030105160040-01	HUC02030105160040	Deep Run (below Rt 9)	PH	01406040	2014	Aquatic Life General		Medium
15	02040302040120-01	HUC02040302040120	Deep Run (GEHR)	ARSENIC	01411140	2012	Public Water Supply	A	Low
15	02040302040120-01	HUC02040302040120	Deep Run (GEHR)	BIOLOGICAL-CAUSE UNKNOWN	AN0636	2016	Aquatic Life General		Low
15	02040302040120-01	HUC02040302040120	Deep Run (GEHR)	PH	01411140, MDEEPR54, MDEPANCS, NJW04459-150	2006	Aquatic Life General		Medium
9	02030105160020-01	HUC02030105160020	Deep Run (Rt 9 to Monmouth Co line)	ARSENIC	01406040	2016	Public Water Supply		Low
9	02030105160020-01	HUC02030105160020	Deep Run (Rt 9 to Monmouth Co line)	DISSOLVED OXYGEN	01406040	2008	Aquatic Life General		Low
9	02030105160020-01	HUC02030105160020	Deep Run (Rt 9 to Monmouth Co line)	ESCHERICHIA COLI (E. COLI)	MCHD-90	2016	Recreation		Medium
9	02030105160020-01	HUC02030105160020	Deep Run (Rt 9 to Monmouth Co line)	BIOLOGICAL-CAUSE UNKNOWN	AN0453	2016	Aquatic Life General		Medium
9	02030105160020-01	HUC02030105160020	Deep Run (Rt 9 to Monmouth Co line)	PH	01406040	2016	Aquatic Life General		Medium
4	02030103120060-01	HUC02030103120060	Deepavaal Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0271, FIBI044	2006	Aquatic Life General		Low
1	02040105060020-01	HUC02040105060020	Delawanna Creek (incl UDRV)	ARSENIC	01444520	2012	Public Water Supply		Low
1	02040105060020-01	HUC02040105060020	Delawanna Creek (incl UDRV)	PCBS IN FISH TISSUE	Delaware Lake	2012	Fish Consumption	L	Low
1	02040105060020-01	HUC02040105060020	Delawanna Creek (incl UDRV)	PH	NJW04459-087	2010	Aquatic Life General		Medium

1	02040105060020-01	HUC02040105060020	Delawanna Creek (incl UDRV)	PHOSPHORUS, TOTAL	01444520	2016	Aquatic Life General		Medium
1	02040105060020-01	HUC02040105060020	Delawanna Creek (incl UDRV)	TEMPERATURE	01444520, AN0033	2012	Aquatic Life Trout		Medium
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	CHLORDANE IN FISH TISSUE	Delaware Bay	2006	Fish Consumption	L	Low
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	DDT IN FISH TISSUE	Delaware Bay	2010	Fish Consumption	L	Low
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	DIELDRIN	Delaware Bay	2006	Fish Consumption	L	Low
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	MERCURY IN FISH TISSUE	Delaware Bay	2010	Fish Consumption		Low
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	TURBIDITY	091015, 091017	2014	Aquatic Life General		Medium
1	Delaware River 2	HUCDelaware River 2	Delaware River 1C	CHLORDANE IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
1	Delaware River 2	HUCDelaware River 2	Delaware River 1C	DDT IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
1	Delaware River 2	HUCDelaware River 2	Delaware River 1C	MERCURY IN FISH TISSUE	Delaware River	2006	Fish Consumption		Low
1	Delaware River 2	HUCDelaware River 2	Delaware River 1C	PCBS IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
1	Delaware River 2	HUCDelaware River 2	Delaware River 1C	ALUMINUM	WQN0101, 01444800	2016	Aquatic Life General		Low
1	Delaware River 8	HUCDelaware River 8	Delaware River 1D	CHLORDANE IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
1	Delaware River 8	HUCDelaware River 8	Delaware River 1D	DDT IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
1	Delaware River 8	HUCDelaware River 8	Delaware River 1D	MERCURY IN FISH TISSUE	Delaware River	2006	Fish Consumption		Low
1	Delaware River 8	HUCDelaware River 8	Delaware River 1D	PCBS IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
1	Delaware River 8	HUCDelaware River 8	Delaware River 1D	ALUMINUM	WQN0182	2014	Aquatic Life General		Low
11	Delaware River 14	HUCDelaware River 14	Delaware River 1E	CHLORDANE IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
11	Delaware River 14	HUCDelaware River 14	Delaware River 1E	DDT IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
11	Delaware River 14	HUCDelaware River 14	Delaware River 1E	MERCURY IN FISH TISSUE	Delaware River	2006	Fish Consumption		Low
11	Delaware River 14	HUCDelaware River 14	Delaware River 1E	PCBS IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
11	Delaware River 14	HUCDelaware River 14	Delaware River 1E	PH	01463500	2008	Aquatic Life General		Low
11	Delaware River 14	HUCDelaware River 14	Delaware River 1E	ALUMINUM	WQN0101, 01444800	2016	Aquatic Life General		Medium
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	CHLORDANE IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	DDT IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	DIELDRIN	Delaware River	2006	Fish Consumption	L	Low
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	MERCURY IN FISH TISSUE	Delaware River	2006	Fish Consumption		Low
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	TEMPERATURE	Newbold, Burlington	2014	Aquatic Life General		Medium
18	Delaware River 16	HUCDelaware River 16	Delaware River 3	CHLORDANE IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
18	Delaware River 16	HUCDelaware River 16	Delaware River 3	DDT IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
18	Delaware River 16	HUCDelaware River 16	Delaware River 3	DIELDRIN	Delaware River	2006	Fish Consumption	L	Low
18	Delaware River 16	HUCDelaware River 16	Delaware River 3	MERCURY IN FISH TISSUE	Delaware River	2006	Fish Consumption		Low
18	Delaware River 16	HUCDelaware River 16	Delaware River 3	TEMPERATURE	Philadelphia, Ben Franklin Bridge, Tacony Palmyra	2014	Aquatic Life General		Medium
18	Delaware River 17	HUCDelaware River 17	Delaware River 4	ALUMINUM	WQN0101, 01444800	2014	Aquatic Life General		Low
18	Delaware River 17	HUCDelaware River 17	Delaware River 4	CHLORDANE IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
18	Delaware River 17	HUCDelaware River 17	Delaware River 4	DDT IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
18	Delaware River 17	HUCDelaware River 17	Delaware River 4	DIELDRIN	Delaware River	2006	Fish Consumption	L	Low
18	Delaware River 17	HUCDelaware River 17	Delaware River 4	MERCURY IN FISH TISSUE	Delaware River	2006	Fish Consumption		Low
18	Delaware River 17	HUCDelaware River 17	Delaware River 4	TEMPERATURE	Marcus Hook, Chester, Fort Mifflin	2014	Aquatic Life General		Medium
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	CHLORDANE IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	DDT IN FISH TISSUE	Delaware River	2006	Fish Consumption	L	Low
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	DIELDRIN	Delaware River	2006	Fish Consumption	L	Low
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	MERCURY IN FISH TISSUE	Delaware River	2006	Fish Consumption		Low
6	02030103030120-01	HUC02030103030120	Den Brook	ARSENIC	01380125	2012	Public Water Supply		Low
6	02030103030120-01	HUC02030103030120	Den Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0247	2012	Aquatic Life General		Low
16	02040206220010-01	HUC02040206220010	Dennis Ck / Cedar Swamp (Rt 47 to Rt 550)	DISSOLVED OXYGEN	R38	2004	Aquatic Life General		Medium
16	02040206220010-01	HUC02040206220010	Dennis Ck / Cedar Swamp (Rt 47 to Rt 550)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206220040-01	HUC02040206220040	Dennis Creek (below Jakes Landing Rd)	DISSOLVED OXYGEN	01411440	2006	Aquatic Life General		Medium
16	02040206220040-01	HUC02040206220040	Dennis Creek (below Jakes Landing Rd)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206220030-01	HUC02040206220030	Dennis Creek (Jakes Landing Rd to Rt 47)	ARSENIC	01411427, 01411438	2012	Public Water Supply	A	Low
16	02040206220030-01	HUC02040206220030	Dennis Creek (Jakes Landing Rd to Rt 47)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low

10	02030105100110-01	HUC02030105100110	Devils Brook	ARSENIC	01400823	2012	Public Water Supply		Low
10	02030105100110-01	HUC02030105100110	Devils Brook	DISSOLVED OXYGEN	DB2-GP	2010	Aquatic Life General		Low
10	02030105100110-01	HUC02030105100110	Devils Brook	ESCHERICHIA COLI (E. COLI)	01400823, BFBM000030	2010	Recreation		Medium
10	02030105100110-01	HUC02030105100110	Devils Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0387, AN0389	2016	Aquatic Life General		Medium
16	02040206230030-01	HUC02040206230030	Dias Creek	ARSENIC	0141140850	2014	Public Water Supply		Low
16	02040206230030-01	HUC02040206230030	Dias Creek	DISSOLVED OXYGEN	0141140850	2006	Aquatic Life General		Medium
16	02040206230030-01	HUC02040206230030	Dias Creek	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206230030-01	HUC02040206230030	Dias Creek	TURBIDITY	0141140850	2014	Aquatic Life General		Medium
17	02040206110050-01	HUC02040206110050	Dividing Creek (above Mill Creek)	DISSOLVED OXYGEN	R44	2004	Aquatic Life General		Medium
17	02040206110050-01	HUC02040206110050	Dividing Creek (above Mill Creek)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110050-01	HUC02040206110050	Dividing Creek (above Mill Creek)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
17	02040206110060-01	HUC02040206110060	Dividing Creek (below Mill Creek)	DISSOLVED OXYGEN	R44	2006	Aquatic Life General		Medium
17	02040206110060-01	HUC02040206110060	Dividing Creek (below Mill Creek)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110060-01	HUC02040206110060	Dividing Creek (below Mill Creek)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
20	02040201060010-01	HUC02040201060010	Doctors Creek (above 74d28m40s)	ARSENIC	01464512	2012	Public Water Supply		Low
20	02040201060020-01	HUC02040201060020	Doctors Creek (Allentown to 74d28m40s)	BIOLOGICAL-CAUSE UNKNOWN	AN0128	2016	Aquatic Life General		Low
20	02040201060030-01	HUC02040201060030	Doctors Creek (below Allentown)	DISSOLVED OXYGEN	01464515	2016	Aquatic Life General		Low
20	02040201060030-01	HUC02040201060030	Doctors Creek (below Allentown)	BIOLOGICAL-CAUSE UNKNOWN	AN0129	2016	Aquatic Life General		Medium
13	02040301060050-01	HUC02040301060050	Dove Mill Branch (Toms River)	ARSENIC	01408290	2012	Public Water Supply	A	Low
13	02040301060050-01	HUC02040301060050	Dove Mill Branch (Toms River)	BIOLOGICAL-CAUSE UNKNOWN	AN0522	2016	Aquatic Life General		Low
13	02040301060050-01	HUC02040301060050	Dove Mill Branch (Toms River)	PH	01408290	2010	Aquatic Life General		Medium
8	02030105010010-01	HUC02030105010010	Drakes Brook (above Eyland Ave)	DISSOLVED OXYGEN	01396137	2016	Aquatic Life Trout		Low
8	02030105010010-01	HUC02030105010010	Drakes Brook (above Eyland Ave)	BIOLOGICAL-CAUSE UNKNOWN	NJS11-109	2016	Aquatic Life General, Aquatic Life Trout		Medium
8	02030105010010-01	HUC02030105010010	Drakes Brook (above Eyland Ave)	PH	01396137	2016	Aquatic Life General		Medium
8	02030105010010-01	HUC02030105010010	Drakes Brook (above Eyland Ave)	PHOSPHORUS, TOTAL	01396137	2016	Aquatic Life General		Medium
8	02030105010010-01	HUC02030105010010	Drakes Brook (above Eyland Ave)	TEMPERATURE	AN0311	2012	Aquatic Life Trout		Medium
1	02040105040020-01	HUC02040105040020	Dry Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0019	2008	Aquatic Life General		Low
20	02040201030010-01	HUC02040201030010	Duck Creek and UDRV to Assunpink Ck	MERCURY IN FISH TISSUE	Delaware River at Crosswicks Creek	2006	Fish Consumption		Low
20	02040201030010-01	HUC02040201030010	Duck Creek and UDRV to Assunpink Ck	PCBS IN FISH TISSUE	Delaware River at Crosswicks Creek	2006	Fish Consumption	L	Low
10	02030105090080-01	HUC02030105090080	Duck Pond Run	BIOLOGICAL-CAUSE UNKNOWN	AN0394	2008	Aquatic Life General		Low
9	02030105160030-01	HUC02030105160030	Duhernal Lake / Iresick Brook	ARSENIC	01405470	2012	Public Water Supply		Low
9	02030105160030-01	HUC02030105160030	Duhernal Lake / Iresick Brook	DISSOLVED OXYGEN	01405470, MnB2-DL	2010	Aquatic Life General		Low
9	02030105160030-01	HUC02030105160030	Duhernal Lake / Iresick Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0452	2016	Aquatic Life General		Medium
1	02040104240020-01	HUC02040104240020	Dunnfield Creek (incl UDRV)	ARSENIC	01442760	2012	Public Water Supply		Low
5	02030103170050-01	HUC02030103170050	Dwars Kill	ARSENIC	01378400	2012	Public Water Supply		Low
5	02030103170050-01	HUC02030103170050	Dwars Kill	ESCHERICHIA COLI (E. COLI)	01378400	2008	Recreation		Medium
16	02040206210060-01	HUC02040206210060	East Creek	PCBS IN FISH TISSUE	East Creek Lake,Delaware Bay Tribs	2006	Fish Consumption	L	Low
18	02040202130050-01	HUC02040202130050	Edwards Run	ARSENIC	01475090	2008	Public Water Supply		Low
18	02040202130050-01	HUC02040202130050	Edwards Run	BIOLOGICAL-CAUSE UNKNOWN	AN0674	2016	Aquatic Life General		Low
18	02040202130050-01	HUC02040202130050	Edwards Run	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202130050-01	HUC02040202130050	Edwards Run	PHOSPHORUS, TOTAL	01475090	2004	Aquatic Life General		Medium
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	ARSENIC	01393450	2014	Public Water Supply		Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	BENZO[A]PYRENE (PAHS)	NY Harbor Tributaries	2008	Fish Consumption		Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	CHLORDANE IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption	L	Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	COPPER	01393450	2016	Aquatic Life General		Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	DDT IN FISH TISSUE	New York Harbor Tribs	2008	Fish Consumption	L	Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	DIELDRIN	Arthur Kill, NY Harbor Tributaries	2008	Fish Consumption	L	Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	DIOXIN IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption		Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	HEPTACHLOR EPOXIDE	NY Harbor Tributaries	2008	Fish Consumption	L	Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	HEXACHLOROBENZENE	NY Harbor Tributaries	2008	Fish Consumption		Low

7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	BIOLOGICAL-CAUSE UNKNOWN	NB204	2016	Aquatic Life General		Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	LEAD	01393450	2008	Public Water Supply		Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	MERCURY IN FISH TISSUE	New York Harbor Tribs	2008	Fish Consumption		Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	PCBS IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption	L	Low
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	PH	NJHDG-20	2014	Aquatic Life General		Medium
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	PHOSPHORUS, TOTAL	01393450	2010	Aquatic Life General		Medium
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	TOTAL DISSOLVED SOLIDS (TDS)	01393450	2010	Public Water Supply		Medium
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	ARSENIC	01393450	2014	Public Water Supply		Low
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	COPPER	01393450	2016	Aquatic Life General		Low
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	BIOLOGICAL-CAUSE UNKNOWN	AN0202, AN0204, AN0204X, FIBI042	2016	Aquatic Life General		Low
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	LEAD	01393450	2008	Public Water Supply		Low
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	PHOSPHORUS, TOTAL	01393350, 01393450	2002	Aquatic Life General		Medium
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	TOTAL DISSOLVED SOLIDS (TDS)	01393450	2002	Public Water Supply		Medium
20	02040201050060-01	HUC02040201050060	Ellisdale trib (Crosswicks Creek)	BIOLOGICAL-CAUSE UNKNOWN	AN0126A	2006	Aquatic Life General		Low
15	02040302050090-01	HUC02040302050090	English Ck / Flat Ck / Cranberry Ck	DISSOLVED OXYGEN	01411258	2006	Aquatic Life General		Medium
17	02040206040020-01	HUC02040206040020	Fenwick Creek / Keasbeys Creek	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
11	02040105210050-01	HUC02040105210050	Fiddlers Creek (Jacobs Ck to Moore Ck)	ESCHERICHIA COLI (E. COLI)	01462400	2012	Recreation		Medium
8	02030105030010-01	HUC02030105030010	First Neshanic River	BIOLOGICAL-CAUSE UNKNOWN	NR01	2008	Aquatic Life General		Low
17	02040206070010-01	HUC02040206070010	Fishing Creek / Bucks Ditch / Pattys Fork	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206070010-01	HUC02040206070010	Fishing Creek / Bucks Ditch / Pattys Fork	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
16	02040206230050-01	HUC02040206230050	Fishing Creek / Fishing Mill Stream	ARSENIC	01411400	2014	Public Water Supply		Low
16	02040206230050-01	HUC02040206230050	Fishing Creek / Fishing Mill Stream	BIOLOGICAL-CAUSE UNKNOWN	AN0771	2008	Aquatic Life General		Low
16	02040206230050-01	HUC02040206230050	Fishing Creek / Fishing Mill Stream	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
1	02040104150020-01	HUC02040104150020	Flat Brook (below Tillman Brook)	ESCHERICHIA COLI (E. COLI)	01440000	2014	Recreation		Medium
1	02040104150010-01	HUC02040104150010	Flat Brook (Tillman Brook to Confluence)	ESCHERICHIA COLI (E. COLI)	01440000	2008	Recreation		Medium
13	02040301110010-01	HUC02040301110010	Forked River NB (above old RR grade)	DISSOLVED OXYGEN	01409030	2006	Aquatic Life General		Low
13	02040301110010-01	HUC02040301110010	Forked River NB (above old RR grade)	BIOLOGICAL-CAUSE UNKNOWN	AN0550	2016	Aquatic Life General		Medium
17	02040206110020-01	HUC02040206110020	Fortesque Ck / Fishing Ck / Straight Ck	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
15	02040302030030-01	HUC02040302030030	Four Mile Branch (GEHR)	ARSENIC	01410810	2016	Public Water Supply		Low
15	02040302030030-01	HUC02040302030030	Four Mile Branch (GEHR)	ESCHERICHIA COLI (E. COLI)	01410810	2016	Recreation		Medium
13	02040301130010-01	HUC02040301130010	Four Mile Branch (Mill Creek)	BIOLOGICAL-CAUSE UNKNOWN	AN0554	2014	Aquatic Life General		Low
2	02020007010030-01	HUC02020007010030	Franklin Pond Creek	TEMPERATURE	01367693	2014	Aquatic Life Trout		Medium
19	02040202050040-01	HUC02040202050040	Friendship Creek (above Burrs Mill Bk)	PH	SBRNEWRD	2016	Aquatic Life General		Medium
19	02040202050050-01	HUC02040202050050	Friendship Creek (below/incl Burrs Mill Bk)	ARSENIC	01465835	2008	Public Water Supply		Low
19	02040202050050-01	HUC02040202050050	Friendship Creek (below/incl Burrs Mill Bk)	ESCHERICHIA COLI (E. COLI)	01465835	2008	Recreation		Medium
1	02040105090050-01	HUC02040105090050	Furnace Brook	ARSENIC	01445495	2012	Public Water Supply		Low
1	02040105090050-01	HUC02040105090050	Furnace Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0042	2006	Aquatic Life General		Low
1	02040105090050-01	HUC02040105090050	Furnace Brook	MERCURY IN FISH TISSUE	Furnace Lake	2012	Fish Consumption		High
17	02040206030050-01	HUC02040206030050	Game Creek (above Rt 48)	BIOLOGICAL-CAUSE UNKNOWN	AN0695	2016	Aquatic Life General		Low
17	02040206030050-01	HUC02040206030050	Game Creek (above Rt 48)	PHOSPHORUS, TOTAL	01482560, 01482562	2002	Aquatic Life General		Medium
17	02040206030070-01	HUC02040206030070	Game Creek (below Rt 48)	DISSOLVED OXYGEN	01482570	2010	Aquatic Life General		Medium
17	02040206030070-01	HUC02040206030070	Game Creek (below Rt 48)	PHOSPHORUS, TOTAL	01482562, 01482570	2010	Aquatic Life General		Medium
19	02040202020010-01	HUC02040202020010	Gaunts Brook / Hartshorne Mill Stream	ARSENIC	01465950	2014	Public Water Supply		Low
19	02040202020010-01	HUC02040202020010	Gaunts Brook / Hartshorne Mill Stream	COPPER	01465950	1998	Aquatic Life General		Low
19	02040202020010-01	HUC02040202020010	Gaunts Brook / Hartshorne Mill Stream	LEAD	01465950	1998	Public Water Supply		Low
15	02040302060040-01	HUC02040302060040	GEH Bay/Lakes Bay/Skull Bay/Peck Bay	DISSOLVED OXYGEN	2507A, 2510A, 2511A, 2701B, 2712A, 2713B, 2714A, 3002A, GEH, LKSBAY	2006	Aquatic Life General		Medium
15	02040302040080-01	HUC02040302040080	GEHR (39d32m50s to Hospitality Branch)	COPPER	01411110	1998	Aquatic Life General		Low
15	02040302040080-01	HUC02040302040080	GEHR (39d32m50s to Hospitality Branch)	PH	01411110	2006	Aquatic Life General		Medium
15	02040302030010-01	HUC02040302030010	GEHR (above New Freedom Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0621	2016	Aquatic Life General		Low
15	02040302030010-01	HUC02040302030010	GEHR (above New Freedom Rd)	PH	01410784	2002	Aquatic Life General		Medium

15	02040302030020-01	HUC02040302030020	GEHR (AC Expressway to New Freedom Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0621	2016	Aquatic Life General		Low
15	02040302030020-01	HUC02040302030020	GEHR (AC Expressway to New Freedom Rd)	PH	01410784, 01410788	2002	Aquatic Life General		Medium
15	02040302030040-01	HUC02040302030040	GEHR (Broad Lane road to AC Expressway)	ARSENIC	01410820	2014	Public Water Supply		Low
15	02040302030040-01	HUC02040302030040	GEHR (Broad Lane road to AC Expressway)	PH	01410820	2006	Aquatic Life General		Medium
15	02040302050140-01	HUC02040302050140	GEHR (GEH Bay to Gibson Ck)	DISSOLVED OXYGEN	2801A, 2804, 2812	2010	Aquatic Life General		Medium
15	02040302030080-01	HUC02040302030080	GEHR (Hospitality Br to Piney Hollow Rd)	COPPER	01411000	2002	Aquatic Life General		Low
15	02040302030080-01	HUC02040302030080	GEHR (Hospitality Br to Piney Hollow Rd)	PH	01411000, UGR8THST	2002	Aquatic Life General		Medium
15	02040302040130-01	HUC02040302040130	GEHR (Lake Lenape to Mare Run)	COPPER	01411110	1998	Aquatic Life General		Low
15	02040302040130-01	HUC02040302040130	GEHR (Lake Lenape to Mare Run)	PCBS IN FISH TISSUE	Lake Lenape	2016	Fish Consumption	L	Low
15	02040302040130-01	HUC02040302040130	GEHR (Lake Lenape to Mare Run)	PH	01411110, MGREA616	2002	Aquatic Life General		Medium
15	02040302040110-01	HUC02040302040110	GEHR (Mare Run to Rt 322)	COPPER	01411110	1998	Aquatic Life General		Low
15	02040302040110-01	HUC02040302040110	GEHR (Mare Run to Rt 322)	PH	01411110	2002	Aquatic Life General		Medium
15	02040302030060-01	HUC02040302030060	GEHR (Piney Hollow Rd to Broad Lane rd)	ARSENIC	01410820	2012	Public Water Supply	A	Low
15	02040302030060-01	HUC02040302030060	GEHR (Piney Hollow Rd to Broad Lane rd)	PH	01410820	2002	Aquatic Life General		Medium
15	02040302040090-01	HUC02040302040090	GEHR (Rt 322 to 39d32m50s)	COPPER	01411110	1998	Aquatic Life General		Low
15	02040302040090-01	HUC02040302040090	GEHR (Rt 322 to 39d32m50s)	PH	01411110	2002	Aquatic Life General		Medium
4	02030103120050-01	HUC02030103120050	Goffle Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0277, AN0277A, FIBI035a	2010	Aquatic Life General		Low
4	02030103120050-01	HUC02030103120050	Goffle Brook	TOTAL DISSOLVED SOLIDS (TDS)	01389850	2006	Public Water Supply		Medium
15	02040302050050-01	HUC02040302050050	Gravelly Run (above Gravelly Run road)	ARSENIC	01411208	2012	Public Water Supply	A	Low
14	02040301210050-01	HUC02040301210050	Great Bay tribs	DISSOLVED OXYGEN	1924	2012	Aquatic Life General		Medium
6	02030103010030-01	HUC02030103010030	Great Brook (above Green Village Rd)	ESCHERICHIA COLI (E. COLI)	BFBM000206	2016	Recreation		Low
6	02030103010030-01	HUC02030103010030	Great Brook (above Green Village Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0218, GSWA_GB3, GSWA_GB4, GSWA_GB5, NJPB-215	2008	Aquatic Life General		Medium
6	02030103010050-01	HUC02030103010050	Great Brook (below Green Village Rd)	ARSENIC	01378770	2012	Public Water Supply		Low
6	02030103010050-01	HUC02030103010050	Great Brook (below Green Village Rd)	DISSOLVED OXYGEN	GSWA_GB1	2010	Aquatic Life General		Low
6	02030103010050-01	HUC02030103010050	Great Brook (below Green Village Rd)	ESCHERICHIA COLI (E. COLI)	01378770	2012	Recreation		Medium
6	02030103010050-01	HUC02030103010050	Great Brook (below Green Village Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0219, GSWA_GB2	2016	Aquatic Life General		Medium
9	02030105130010-01	HUC02030105130010	Great Ditch / Pigeon Swamp	ARSENIC	01404280	2016	Public Water Supply		Low
9	02030105130010-01	HUC02030105130010	Great Ditch / Pigeon Swamp	ESCHERICHIA COLI (E. COLI)	01404280	2012	Recreation		Medium
14	02040301160120-01	HUC02040301160120	Great Swamp Branch (above Rt 206)	ARSENIC	0140941050, 0140941070	2012	Public Water Supply		Low
14	02040301160120-01	HUC02040301160120	Great Swamp Branch (above Rt 206)	DISSOLVED OXYGEN	0140941050	2012	Aquatic Life General		Low
14	02040301160120-01	HUC02040301160120	Great Swamp Branch (above Rt 206)	BIOLOGICAL-CAUSE UNKNOWN	AN0574	2016	Aquatic Life General		Medium
14	02040301160120-01	HUC02040301160120	Great Swamp Branch (above Rt 206)	NITRATE	0140941070	2002	Public Water Supply		Medium
14	02040301160120-01	HUC02040301160120	Great Swamp Branch (above Rt 206)	PH	0140941050, 0140941070, NGREAR30	2002	Aquatic Life General		Medium
14	02040301160120-01	HUC02040301160120	Great Swamp Branch (above Rt 206)	TEMPERATURE	0140941050	2008	Aquatic Life General		Medium
14	02040301160130-01	HUC02040301160130	Great Swamp Branch (below Rt 206)	ARSENIC	0140941070	2012	Public Water Supply		Low
14	02040301160130-01	HUC02040301160130	Great Swamp Branch (below Rt 206)	BIOLOGICAL-CAUSE UNKNOWN	AN0574, AN0575	2016	Aquatic Life General		Low
14	02040301160130-01	HUC02040301160130	Great Swamp Branch (below Rt 206)	NITRATE	0140941070, 0140941075	2002	Public Water Supply		Medium
14	02040301160130-01	HUC02040301160130	Great Swamp Branch (below Rt 206)	PH	0140941070, 0140941075	2002	Aquatic Life General		Medium
9	02030105120010-01	HUC02030105120010	Green Bk (above/incl Blue Brook)	TEMPERATURE	BFBM000174	2014	Aquatic Life Trout		Medium
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0426, FIBI091	2016	Aquatic Life General		Low
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	PCBS IN FISH TISSUE	Bound Brook @ Shepard Rd	2006	Fish Consumption	L	Low
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	PH	NJHDG-25	2014	Aquatic Life General		Medium
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	PHOSPHORUS, TOTAL	01403900, NJHDG-25	2002	Aquatic Life General		Medium
9	02030105120040-01	HUC02030105120040	Green Bk (Bound Bk to N Plainfield gage)	ARSENIC	01403465	2016	Public Water Supply		Low
9	02030105120040-01	HUC02030105120040	Green Bk (Bound Bk to N Plainfield gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0423	2016	Aquatic Life General		Low
9	02030105120040-01	HUC02030105120040	Green Bk (Bound Bk to N Plainfield gage)	PH	01403465	2014	Aquatic Life General		Medium
9	02030105120040-01	HUC02030105120040	Green Bk (Bound Bk to N Plainfield gage)	TOTAL DISSOLVED SOLIDS (TDS)	01403465	2016	Public Water Supply		Medium
9	02030105120020-01	HUC02030105120020	Green Bk (N Plainfield gage to Blue Bk)	ARSENIC	01403465	2012	Public Water Supply		Low
9	02030105120020-01	HUC02030105120020	Green Bk (N Plainfield gage to Blue Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0421	2016	Aquatic Life General		Low
9	02030105120020-01	HUC02030105120020	Green Bk (N Plainfield gage to Blue Bk)	PH	01403465	2010	Aquatic Life General		Medium
9	02030105120020-01	HUC02030105120020	Green Bk (N Plainfield gage to Blue Bk)	TOTAL DISSOLVED SOLIDS (TDS)	01403465	2010	Public Water Supply		Medium

17	02040206140030-01	HUC02040206140030	Green Branch / Endless Branch	ARSENIC	01411490	2012	Public Water Supply	A	Low
17	02040206140030-01	HUC02040206140030	Green Branch / Endless Branch	MERCURY IN WATER COLUMN	01411487, 01411490	2010	Public Water Supply		Low
16	02040206230040-01	HUC02040206230040	Green Ck (Norburys Landng to Pierces Pt)	DISSOLVED OXYGEN	01411404	2006	Aquatic Life General		Low
16	02040206230040-01	HUC02040206230040	Green Ck (Norburys Landng to Pierces Pt)	BIOLOGICAL-CAUSE UNKNOWN	AN0770	2016	Aquatic Life General		Medium
16	02040206230040-01	HUC02040206230040	Green Ck (Norburys Landng to Pierces Pt)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206230040-01	HUC02040206230040	Green Ck (Norburys Landng to Pierces Pt)	PHOSPHORUS, TOTAL	01411404	2006	Aquatic Life General		Medium
16	02040206230040-01	HUC02040206230040	Green Ck (Norburys Landng to Pierces Pt)	TOTAL DISSOLVED SOLIDS (TDS)	01411404	2014	Public Water Supply		Medium
6	02030103030060-01	HUC02030103030060	Green Pond Brook (below Burnt Meadow Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0242	2006	Aquatic Life General		Low
19	02040202030090-01	HUC02040202030090	Greenwood Br (below CountryLk & MM confl)	DDT IN FISH TISSUE	Mirror Lake, Whitesbog Pond	2010	Fish Consumption	L	Low
19	02040202030090-01	HUC02040202030090	Greenwood Br (below CountryLk & MM confl)	BIOLOGICAL-CAUSE UNKNOWN	AN0148	2016	Aquatic Life General		Low
19	02040202030090-01	HUC02040202030090	Greenwood Br (below CountryLk & MM confl)	PCBS IN FISH TISSUE	Mirror Lake, Whitesbog Pond	2008	Fish Consumption	L	Low
19	02040202030090-01	HUC02040202030090	Greenwood Br (below CountryLk & MM confl)	PH	01466900	2014	Aquatic Life General		Medium
6	02030103020030-01	HUC02030103020030	Greystone / Watnong Mtn tribs	ESCHERICHIA COLI (E. COLI)	BFBM000091	2016	Recreation		Low
6	02030103020030-01	HUC02030103020030	Greystone / Watnong Mtn tribs	BIOLOGICAL-CAUSE UNKNOWN	AN0234A	2008	Aquatic Life General		Medium
5	02030103170030-01	HUC02030103170030	Hackensack R (above Old Tappan gage)	ARSENIC	01376970, 01377000	2004	Public Water Supply		Low
5	02030103170030-01	HUC02030103170030	Hackensack R (above Old Tappan gage)	DISSOLVED OXYGEN	01377000	2012	Aquatic Life General		Low
5	02030103170030-01	HUC02030103170030	Hackensack R (above Old Tappan gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0205	2016	Aquatic Life General		Medium
5	02030103170030-01	HUC02030103170030	Hackensack R (above Old Tappan gage)	MERCURY IN FISH TISSUE	Tappan Lake	2008	Fish Consumption		Low
5	02030103170030-01	HUC02030103170030	Hackensack R (above Old Tappan gage)	PHOSPHORUS, TOTAL	01377000	2006	Aquatic Life General		Medium
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	BENZO[A]PYRENE (PAHS)	Hackensack R - Tidal	2008	Fish Consumption		Low
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	CHLORDANE IN FISH TISSUE	Hackensack R - Tidal,Hackensack River @ Laurel Hill	2006	Fish Consumption	L	Low
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	DDT IN FISH TISSUE	Hackensack R - Tidal,Hackensack River @ Laurel Hill	2008	Fish Consumption	L	Low
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	DIELDRIN	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	DIOXIN IN FISH TISSUE	Hackensack R - Tidal,Hackensack River @ Laurel Hill	2006	Fish Consumption		Low
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	DISSOLVED OXYGEN	NJHDG-14	2006	Aquatic Life General		Medium
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	HEPTACHLOR EPOXIDE	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	PCBS IN FISH TISSUE	Hackensack R - Tidal,Hackensack River @ Laurel Hill	2006	Fish Consumption	L	Low
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	BENZO[A]PYRENE (PAHS)	Hackensack R - Tidal	2008	Fish Consumption		Low
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	CHLORDANE IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	DDT IN FISH TISSUE	Hackensack R - Tidal	2012	Fish Consumption	L	Low
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	DIELDRIN	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	DIOXIN IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption		Low
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	HEPTACHLOR EPOXIDE	Hackensack R - Tidal	2012	Fish Consumption	L	Low
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	PCBS IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	BENZO[A]PYRENE (PAHS)	Hackensack R - Tidal	2008	Fish Consumption		Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	CHLORDANE IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	DDT IN FISH TISSUE	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	DIELDRIN	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	DIOXIN IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption		Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	DISSOLVED OXYGEN	NJHDG-15	2006	Aquatic Life General		Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	HEPTACHLOR EPOXIDE	Hackensack R - Tidal	2008	Fish Consumption	L	Medium
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	BIOLOGICAL-CAUSE UNKNOWN	NB225	2016	Aquatic Life General		Low
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	PCBS IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	ARSENIC	01378500, 01378567	2014	Fish Consumption		Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	BENZO[A]PYRENE (PAHS)	Hackensack R - Tidal	2008	Fish Consumption		Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	CHLORDANE IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	DDT IN FISH TISSUE	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	DIELDRIN	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	DIOXIN IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption		Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	HEPTACHLOR EPOXIDE	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	PCBS IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low

5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	PH	01378567	2012	Aquatic Life General		Medium
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	TURBIDITY	01378567	2008	Aquatic Life General		Medium
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	ARSENIC	01378475, 01378500, 01377000	2004	Public Water Supply		Low
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	DISSOLVED OXYGEN	01377000, NJHDG-13	2008	Aquatic Life General		Low
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0210	2016	Aquatic Life General		Medium
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	MERCURY IN FISH TISSUE	Oradell Reservoir	2008	Fish Consumption		Low
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	PHOSPHORUS, TOTAL	01377000, 01378475, NJHDG-13	2006	Aquatic Life General		Medium
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	BENZO[A]PYRENE (PAHS)	Hackensack R - Tidal	2008	Fish Consumption		Low
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	CHLORDANE IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	DDT IN FISH TISSUE	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	DIELDRIN	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	DIOXIN IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption		Low
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	HEPTACHLOR EPOXIDE	Hackensack R - Tidal	2008	Fish Consumption	L	Low
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	PCBS IN FISH TISSUE	Hackensack R - Tidal	2006	Fish Consumption	L	Low
11	02040105170020-01	HUC02040105170020	Hakihokake Creek	ARSENIC	01458100	2012	Public Water Supply		Low
11	02040105170020-01	HUC02040105170020	Hakihokake Creek	TEMPERATURE	01458100	2012	Aquatic Life Trout		Medium
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	ARSENIC	01409412, 01409414, 01409525	1998	Public Water Supply		Low
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	COPPER	01409414, 01409416	2008	Aquatic Life General		Low
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	BIOLOGICAL-CAUSE UNKNOWN	AN0577	2016	Aquatic Life General		Low
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	MERCURY IN WATER COLUMN	01409414	1998	Public Water Supply		Low
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	NITRATE	0140941580, 01409416	2004	Public Water Supply		Medium
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	PH	01409412, 01409414, 01409415, 0140941580, 01409416, HC1, HC2, HC3, LHACHEST	2006	Aquatic Life General		Medium
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	TOTAL SUSPENDED SOLIDS (TSS)	0140941580	2012	Aquatic Life General		Medium
14	02040301170030-01	HUC02040301170030	Hammonton Creek (below Columbia Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0578	2016	Aquatic Life General		Low
14	02040301170030-01	HUC02040301170030	Hammonton Creek (below Columbia Rd)	PH	01409418	2012	Aquatic Life General		Medium
14	02040301170030-01	HUC02040301170030	Hammonton Creek (below Columbia Rd)	PHOSPHORUS, TOTAL	01409418	2012	Aquatic Life General		Medium
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	ARSENIC	01409414	1998	Public Water Supply		Low
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	COPPER	01409414, 01409416	2008	Aquatic Life General		Low
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	BIOLOGICAL-CAUSE UNKNOWN	AN0578	2016	Aquatic Life General		Low
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	MERCURY IN WATER COLUMN	01409414	1998	Public Water Supply		Low
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	NITRATE	01409416	2004	Public Water Supply		Medium
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	PH	01409414, 01409416, 01409418, LHACHEST	2006	Aquatic Life General		Medium
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	PHOSPHORUS, TOTAL	01409414, 01409416, 01409418	2006	Aquatic Life General		Medium
17	02040206170010-01	HUC02040206170010	Hankins Pond trib (Millville)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206170010-01	HUC02040206170010	Hankins Pond trib (Millville)	PHOSPHORUS, TOTAL	NJW04459-118	2010	Aquatic Life General		Medium
11	02040105170030-01	HUC02040105170030	Harihokake Creek (and to Hakihokake Ck)	ESCHERICHIA COLI (E. COLI)	01458300	2008	Recreation		Medium
11	02040105170030-01	HUC02040105170030	Harihokake Creek (and to Hakihokake Ck)	PHOSPHORUS, TOTAL	01458300	2006	Aquatic Life General		Medium
17	02040206060070-01	HUC02040206060070	Harmony trib (Alloway Creek)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060070-01	HUC02040206060070	Harmony trib (Alloway Creek)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
6	02030103010090-01	HUC02030103010090	Harrisons Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0227A	2014	Aquatic Life General		Low
19	02040202060030-01	HUC02040202060030	Haynes Creek (below Lake Pine)	PH	01465878, NJW04459-086, NJW04459-098, NJW04459-132, NJW04459-151, WHATRBIR	2010	Aquatic Life General		Medium
14	02040301160050-01	HUC02040301160050	Hays Mill Creek (above Tremont Ave)	ARSENIC	0140940200	2016	Public Water Supply		Low
14	02040301160050-01	HUC02040301160050	Hays Mill Creek (above Tremont Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0565	2016	Aquatic Life General		Low
14	02040301160050-01	HUC02040301160050	Hays Mill Creek (above Tremont Ave)	PH	01409401, 01409402, MHAATCOL, NJW04459-278	2002	Aquatic Life General		Medium
13	02040301020030-01	HUC02040301020030	Haystack Brook	ARSENIC	HS-1	2016	Public Water Supply		Low
8	02030105030030-01	HUC02030105030030	Headquarters trib (Third Neshanic River)	DISSOLVED OXYGEN	01397950	2006	Aquatic Life General		Low
8	02030105030030-01	HUC02030105030030	Headquarters trib (Third Neshanic River)	BIOLOGICAL-CAUSE UNKNOWN	NR04	2016	Aquatic Life General		Medium
10	02030105110010-01	HUC02030105110010	Heathcote Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0396	2014	Aquatic Life General		Low
6	02030103030100-01	HUC02030103030100	Hibernia Brook	TEMPERATURE	01380075, BFBM000186	2014	Aquatic Life Trout		Medium

4	02030103140010-01	HUC02030103140010	Hohokus Bk (above Godwin Ave)	ARSENIC	01390610	2012	Public Water Supply		Low
4	02030103140010-01	HUC02030103140010	Hohokus Bk (above Godwin Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0283	2016	Aquatic Life General		Low
4	02030103140010-01	HUC02030103140010	Hohokus Bk (above Godwin Ave)	PHOSPHORUS, TOTAL	01390600	2008	Aquatic Life General		High
4	02030103140010-01	HUC02030103140010	Hohokus Bk (above Godwin Ave)	TOTAL DISSOLVED SOLIDS (TDS)	01390600	2006	Public Water Supply		Medium
4	02030103140030-01	HUC02030103140030	Hohokus Bk (below Pennington Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0288	2016	Aquatic Life General		Low
4	02030103140030-01	HUC02030103140030	Hohokus Bk (below Pennington Ave)	NITRATE	01391000, 01391050, 01391100, HB001	2010	Public Water Supply		Medium
4	02030103140030-01	HUC02030103140030	Hohokus Bk (below Pennington Ave)	PHOSPHORUS, TOTAL	01391000, 01391050, 01391100, HB001	2010	Aquatic Life General		High
4	02030103140030-01	HUC02030103140030	Hohokus Bk (below Pennington Ave)	TOTAL DISSOLVED SOLIDS (TDS)	01391000, 01391050, 01391100	2016	Public Water Supply		Medium
4	02030103140020-01	HUC02030103140020	Hohokus Bk (Pennington Ave to Godwin Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0284, AN0285, AN0286, AN0286X, AN0287	2002	Aquatic Life General		Low
4	02030103140020-01	HUC02030103140020	Hohokus Bk (Pennington Ave to Godwin Ave)	TOTAL DISSOLVED SOLIDS (TDS)	01390800	2008	Public Water Supply		Medium
8	02030105040030-01	HUC02030105040030	Holland Brook	ESCHERICHIA COLI (E. COLI)	01398110	2016	Recreation		Low
8	02030105040030-01	HUC02030105040030	Holland Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0343	2016	Aquatic Life General		Medium
8	02030105040030-01	HUC02030105040030	Holland Brook	PH	01398110	2012	Aquatic Life General		Medium
1	02040105100020-01	HUC02040105100020	Honey Run	DISSOLVED OXYGEN	01445900	2004	Aquatic Life Trout		Low
1	02040105100020-01	HUC02040105100020	Honey Run	BIOLOGICAL-CAUSE UNKNOWN	AN0046	2016	Aquatic Life General, Aquatic Life Trout		Medium
12	02030104070010-01	HUC02030104070010	Hop Brook	ARSENIC	01407210	2008	Public Water Supply		Low
12	02030104070010-01	HUC02030104070010	Hop Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0465, AN0466	2016	Aquatic Life General, Aquatic Life Trout		Low
12	02030104070010-01	HUC02030104070010	Hop Brook	PH	01407210	2014	Aquatic Life General		Medium
12	02030104070010-01	HUC02030104070010	Hop Brook	PHOSPHORUS, TOTAL	01407210	2006	Aquatic Life General		Medium
12	02030104070010-01	HUC02030104070010	Hop Brook	TOTAL SUSPENDED SOLIDS (TSS)	01407210	2006	Aquatic Life General		Medium
17	02040206060100-01	HUC02040206060100	Hope Creek / Artificial Island	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060100-01	HUC02040206060100	Hope Creek / Artificial Island	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
15	02040302040010-01	HUC02040302040010	Hospitality Br (above Whitehouse Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0627	2016	Aquatic Life General		Low
15	02040302040010-01	HUC02040302040010	Hospitality Br (above Whitehouse Rd)	PH	01411035	2002	Aquatic Life General		Medium
15	02040302040070-01	HUC02040302040070	Hospitality Br (below Piney Hollow Rd)	ARSENIC	01411071	2012	Public Water Supply	A	Low
15	02040302040070-01	HUC02040302040070	Hospitality Br (below Piney Hollow Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0633	2016	Aquatic Life General		Low
15	02040302040070-01	HUC02040302040070	Hospitality Br (below Piney Hollow Rd)	PH	01411071, HHOCAINS, HHOCUSHM, HHODIAMO, HHOEIGHT, NJW04459-170	2006	Aquatic Life General		Medium
15	02040302040020-01	HUC02040302040020	Hospitality Br (Rt 538 to Whitehouse Rd)	PH	01411050, HHOWHITE, HWHBLUEB, HWHSUNSE,	2002	Aquatic Life General		Medium
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	BENZO[A]PYRENE (PAHS)	Hudson River	2010	Fish Consumption		Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	CHLORDANE IN FISH TISSUE	Hudson River	2006	Fish Consumption	L	Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	DDT IN FISH TISSUE	Hudson River	2010	Fish Consumption	L	Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	DIELDRIN	Hudson River	2008	Fish Consumption	L	Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	DIOXIN IN FISH TISSUE	Hudson River	2010	Fish Consumption		Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	HEXACHLOROBENZENE	Hudson River	2010	Fish Consumption		Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	BIOLOGICAL-CAUSE UNKNOWN	UH014	2010	Aquatic Life General		Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	PCBS IN FISH TISSUE	Hudson River	2008	Fish Consumption	L	Low
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	PHOSPHORUS, TOTAL	NJW04459-168	2016	Aquatic Life General		Medium
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	BENZO[A]PYRENE (PAHS)	Hudson River	2008	Fish Consumption		Low
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	CHLORDANE IN FISH TISSUE	HEP	2006	Fish Consumption	L	Low
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	DDT IN FISH TISSUE	Hudson River	2012	Fish Consumption	L	Low
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	DIELDRIN	Hudson River	2008	Fish Consumption	L	Low
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	DIOXIN IN FISH TISSUE	Hudson River	2006	Fish Consumption		Low
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	HEXACHLOROBENZENE	Hudson River	2008	Fish Consumption		Low
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	BIOLOGICAL-CAUSE UNKNOWN	UH004, UH018, UH211, UH213	2010	Aquatic Life General		Low
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	PCBS IN FISH TISSUE	Hudson River	2008	Fish Consumption	L	Low
17	02040206130030-01	HUC02040206130030	Indian Branch (Scotland Run)	DISSOLVED OXYGEN	01411466	2012	Aquatic Life General		Medium
14	02040301170090-01	HUC02040301170090	Indian Cabin Creek	DISSOLVED OXYGEN	01409601	2006	Aquatic Life General		Medium
14	02040301150030-01	HUC02040301150030	Indian Mills Brook / Muskingum Brook	PH	01409444, 01409449, BINSCHOO, BINSHADW,	2006	Aquatic Life General		Medium

17	02040206150040-01	HUC02040206150040	Indian Run (Muddy Run)	ARSENIC	01411695	2012	Public Water Supply		Low
17	02040206150040-01	HUC02040206150040	Indian Run (Muddy Run)	BIOLOGICAL-CAUSE UNKNOWN	AN0746	2006	Aquatic Life General		Low
9	02030105130040-01	HUC02030105130040	Ireland Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0433, FIBI051	2016	Aquatic Life General		Low
9	02030105130040-01	HUC02030105130040	Ireland Brook	PH	01404470	2002	Aquatic Life General		Medium
20	02040201100030-01	HUC02040201100030	Jacksonville trib (above Barkers Brook)	ESCHERICHIA COLI (E. COLI)	BFBM000048	2012	Recreation		Medium
11	02040105210060-01	HUC02040105210060	Jacobs Creek (above Woolsey Brook)	ARSENIC	01462730, 01462739	2008	Public Water Supply		Low
11	02040105210060-01	HUC02040105210060	Jacobs Creek (above Woolsey Brook)	DISSOLVED OXYGEN	01462739	2010	Aquatic Life General		Medium
11	02040105210060-01	HUC02040105210060	Jacobs Creek (above Woolsey Brook)	MERCURY IN WATER COLUMN	01462739	2008	Public Water Supply		Low
11	02040105210060-01	HUC02040105210060	Jacobs Creek (above Woolsey Brook)	PHOSPHORUS, TOTAL	01462739	2008	Aquatic Life General		Medium
11	02040105210060-01	HUC02040105210060	Jacobs Creek (above Woolsey Brook)	TOTAL SUSPENDED SOLIDS (TSS)	01462739	2010	Aquatic Life General		Medium
11	02040105210070-01	HUC02040105210070	Jacobs Creek (below/incl Woolsey Brook)	ARSENIC	01462800	2012	Public Water Supply		Low
19	02040202050070-01	HUC02040202050070	Jade Run	DISSOLVED OXYGEN	01465847, RCW-JR1	2004	Aquatic Life General		Low
19	02040202050070-01	HUC02040202050070	Jade Run	BIOLOGICAL-CAUSE UNKNOWN	AN0157	2016	Aquatic Life General		Medium
19	02040202050070-01	HUC02040202050070	Jade Run	PH	01465847, RCW-JR1, SJART616	2004	Aquatic Life General		Medium
19	02040202050070-01	HUC02040202050070	Jade Run	PHOSPHORUS, TOTAL	01465847, 01465848, RCW-JR1	2004	Aquatic Life General		Medium
13	02040301080070-01	HUC02040301080070	Jakes Branch (Lower Toms River)	DISSOLVED OXYGEN	BT05	2014	Aquatic Life General		Low
13	02040301080070-01	HUC02040301080070	Jakes Branch (Lower Toms River)	BIOLOGICAL-CAUSE UNKNOWN	AN0543	2016	Aquatic Life General		Medium
12	02030104090050-01	HUC02030104090050	Jumping Brook (Monmouth Co)	BIOLOGICAL-CAUSE UNKNOWN	AN0479, AN0480	2012	Aquatic Life General		Low
20	02040201040040-01	HUC02040201040040	Jumping Brook (Ocean Co)	ARSENIC	01464080	2014	Public Water Supply		Low
20	02040201040040-01	HUC02040201040040	Jumping Brook (Ocean Co)	DISSOLVED OXYGEN	01464080	2014	Aquatic Life General		Medium
20	02040201040040-01	HUC02040201040040	Jumping Brook (Ocean Co)	MERCURY IN FISH TISSUE	Crosswicks Creek	2006	Fish Consumption		Low
13	02040301050010-01	HUC02040301050010	Kettle Creek (above Lake Riviera outlet)	ARSENIC	01408175, R09	2014	Public Water Supply		Low
13	02040301050010-01	HUC02040301050010	Kettle Creek (above Lake Riviera outlet)	BIOLOGICAL-CAUSE UNKNOWN	AN0515	2008	Aquatic Life General		Low
13	02040301050020-01	HUC02040301050020	Kettle Creek (below Lake Riviera outlet)	ARSENIC	01408175	2014	Public Water Supply	A	Low
19	02040202060010-01	HUC02040202060010	Kettle Run (above Centennial Lake)	PH	0146587020, NJW04459-071, NJW04459-230,	2008	Aquatic Life General		Medium
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	BENZO[A]PYRENE (PAHS)	Kill Van Kull, Newark Bay	2008	Fish Consumption		Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	CHLORDANE IN FISH TISSUE	Newark Bay,Kill Van Kull	2006	Fish Consumption	L	Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	DDT IN FISH TISSUE	Newark Bay,Kill Van Kull	2008	Fish Consumption	L	Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	DIELDRIN	Kill Van Kull, Newark Bay	2008	Fish Consumption	L	Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	DIOXIN IN FISH TISSUE	Newark Bay,Kill Van Kull	2006	Fish Consumption		Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	HEPTACHLOR EPOXIDE	Kill Van Kull, Newark Bay	2008	Fish Consumption	L	Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	HEXACHLOROBENZENE	Kill Van Kull, Newark Bay	2008	Fish Consumption		Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	BIOLOGICAL-CAUSE UNKNOWN	NB1, NB2, NB201,NB202,NB206,NB212,NB213,NB216,NB217,NB222,NB223,NB226,NB227,NB231,NB3	2006	Aquatic Life General		Low
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	PCBS IN FISH TISSUE	Newark Bay,Kill Van Kull	2006	Fish Consumption	L	Low
11	02040105170060-01	HUC02040105170060	Kingwood Twp(Warford-Little Nishisakawk)	PHOSPHORUS, TOTAL	01458710	2006	Aquatic Life General		Medium
1	02040105040040-01	HUC02040105040040	Lafayette Swamp tribs	BIOLOGICAL-CAUSE UNKNOWN	AN0016	2008	Aquatic Life General, Aquatic Life Trout		Low
20	02040201050010-01	HUC02040201050010	Lahaway Ck (above Prospertown)	BIOLOGICAL-CAUSE UNKNOWN	AN0123	2006	Aquatic Life General		Low
20	02040201050020-01	HUC02040201050020	Lahaway Ck (Allentwn/NE Road-Prospertown)	ARSENIC	01464460	2012	Public Water Supply		Low
20	02040201050020-01	HUC02040201050020	Lahaway Ck (Allentwn/NE Road-Prospertown)	ESCHERICHIA COLI (E. COLI)	01464460	2016	Recreation		Medium
20	02040201050020-01	HUC02040201050020	Lahaway Ck (Allentwn/NE Road-Prospertown)	PHOSPHORUS, TOTAL	01464460	2006	Aquatic Life General		Medium
1	02040105150020-01	HUC02040105150020	Lake Hopatcong	PCBS IN FISH TISSUE	Lake Hopatcong	2012	Fish Consumption	L	Low
1	02040105150020-01	HUC02040105150020	Lake Hopatcong	PH	Hop_3, Hop_6, NPS-1, NPS-2, NPS-3, NPS-4, NPS-5, ST-10, ST-3, ST-6	2008	Aquatic Life General		Medium
1	02040105150020-01	HUC02040105150020	Lake Hopatcong	TEMPERATURE	NPS-1, NPS-2, NPS-3, NPS-4, NPS-5, ST-1, ST-10, ST-11, ST-2, ST-3, ST-4, ST-5, ST-6, ST-7, ST-8, ST-9	2016	Aquatic Life Trout		Medium
1	02040105070010-01	HUC02040105070010	Lake Lenape trib	TEMPERATURE	01444980	2014	Aquatic Life Trout		Medium
19	02040202060020-01	HUC02040202060020	Lake Pine / Centennial Lake & tribs	PH	NJW04459-149, WHATAUNT, WHATRBLU	2010	Aquatic Life General		Medium
15	02040302050110-01	HUC02040302050110	Lakes Creek (GEHR)	DISSOLVED OXYGEN	2803	2008	Aquatic Life General		Medium

8	02030105050010-01	HUC02030105050010	Lamington R (above Rt 10)	DISSOLVED OXYGEN	NJW04459-106	2016	Aquatic Life General		Low
8	02030105050010-01	HUC02030105050010	Lamington R (above Rt 10)	BIOLOGICAL-CAUSE UNKNOWN	BR05	2016	Aquatic Life General		Medium
8	02030105050010-01	HUC02030105050010	Lamington R (above Rt 10)	PH	NJW04459-106	2016	Aquatic Life General		Medium
8	02030105050070-01	HUC02030105050070	Lamington R (HallsBrRd-HerzogBrk)	TEMPERATURE	01399545	2004	Aquatic Life Trout		Medium
8	02030105050130-01	HUC02030105050130	Lamington R (Hertzog Brk to Pottersville gage)	TEMPERATURE	LR3	2010	Aquatic Life Trout		Medium
8	02030105050020-01	HUC02030105050020	Lamington R (Hillside Rd to Rt 10)	DISSOLVED OXYGEN	LR2	2012	Aquatic Life General		Low
8	02030105050020-01	HUC02030105050020	Lamington R (Hillside Rd to Rt 10)	BIOLOGICAL-CAUSE UNKNOWN	AN0356, BR04	2016	Aquatic Life General		Medium
8	02030105050040-01	HUC02030105050040	Lamington R (Pottersville gage-FurnaceRd)	ARSENIC	01399320	2012	Public Water Supply		Low
14	02040301170100-01	HUC02040301170100	Landing Creek (above Rt 563)	ARSENIC	01409570	2012	Public Water Supply	A	Low
14	02040301170100-01	HUC02040301170100	Landing Creek (above Rt 563)	BIOLOGICAL-CAUSE UNKNOWN	AN0590	2016	Aquatic Life General		Low
14	02040301170100-01	HUC02040301170100	Landing Creek (above Rt 563)	MERCURY IN WATER COLUMN	01409570	2016	Public Water Supply		Low
14	02040301170110-01	HUC02040301170110	Landing Creek (Indian Cabin Ck to Rt563)	PH	LLANDIND, LUNIOMOS	2014	Aquatic Life General		Medium
9	02030105130020-01	HUC02030105130020	Lawrence Bk (above Deans Pond dam)	ARSENIC	01404302	1998	Public Water Supply		Low
9	02030105130020-01	HUC02030105130020	Lawrence Bk (above Deans Pond dam)	BIOLOGICAL-CAUSE UNKNOWN	AN0430	2008	Aquatic Life General		Low
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	ARSENIC	BFBM000008	2012	Public Water Supply		Low
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	CHLORDANE IN FISH TISSUE	Weston Mill Pond	2016	Fish Consumption	L	Low
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	DIOXIN IN FISH TISSUE	Weston Mill Pond	2006	Fish Consumption		Low
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	BIOLOGICAL-CAUSE UNKNOWN	AN0435	2006	Aquatic Life General		Low
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	MERCURY IN FISH TISSUE	Weston Mill Pond	2016	Fish Consumption		Low
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	PCBS IN FISH TISSUE	Weston Mill Pond	2006	Fish Consumption	L	Low
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	ARSENIC	01404302	1998	Public Water Supply		Low
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	ESCHERICHIA COLI (E. COLI)	01404280, 01404400	2008	Recreation		Low
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	BIOLOGICAL-CAUSE UNKNOWN	AN0431	2006	Aquatic Life General		Medium
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	PCBS IN FISH TISSUE	Davidsons Mill Pond,Farrington Lake	2016	Fish Consumption	L	Low
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	ARSENIC	01405003	2008	Public Water Supply		Low
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	ESCHERICHIA COLI (E. COLI)	01405003	2008	Recreation		Low
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	BIOLOGICAL-CAUSE UNKNOWN	AN0434	2016	Aquatic Life General		Medium
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	PHOSPHORUS, TOTAL	NJW04459-060	2014	Aquatic Life General		Medium
20	02040201090030-01	HUC02040201090030	LDRV tribs (Assiscunk Ck to Blacks Ck)	BIOLOGICAL-CAUSE UNKNOWN	SHB-01AF, SHB-02SB	2014	Aquatic Life General		Low
20	02040201090030-01	HUC02040201090030	LDRV tribs (Assiscunk Ck to Blacks Ck)	PCBS IN FISH TISSUE	Crosswicks Creek, Crystal Lake,Delaware River Tribs to Head of Tide	2010	Fish Consumption	L	Low
20	02040201110010-01	HUC02040201110010	LDRV tribs (Beverly to Assiscunk Ck)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201090040-01	HUC02040201090040	LDRV tribs (Bustleton Creek area)	ARSENIC	DR9	2016	Public Water Supply		Low
20	02040201090040-01	HUC02040201090040	LDRV tribs (Bustleton Creek area)	MERCURY IN FISH TISSUE	Delaware River Tribs to Head of Tide	2008	Fish Consumption		Low
20	02040201090040-01	HUC02040201090040	LDRV tribs (Bustleton Creek area)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2010	Fish Consumption	L	Low
17	02040206020010-01	HUC02040206020010	LDRV tribs (Lakeview Ave to Oldmans Ck)	PCBS IN FISH TISSUE	DOD Lake,Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206020020-01	HUC02040206020020	LDRV tribs (Marsh Pt-Main St Pennsville)	DDT IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206020020-01	HUC02040206020020	LDRV tribs (Marsh Pt-Main St Pennsville)	MERCURY IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption		Low
17	02040206020020-01	HUC02040206020020	LDRV tribs (Marsh Pt-Main St Pennsville)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202110070-01	HUC02040202110070	LDRV tribs (Pennsauken Ck to 28th St)	ESCHERICHIA COLI (E. COLI)	BFBM000003	2012	Recreation		Medium
13	02040301140040-01	HUC02040301140040	LEH Bay tribs (Westecunk Ck-Tuckerton Ck)	DISSOLVED OXYGEN	R19	2016	Aquatic Life General		Medium
3	02030103110010-01	HUC02030103110010	Lincoln Park tribs (Pompton River)	ARSENIC	01388720	2012	Public Water Supply		Low
3	02030103110010-01	HUC02030103110010	Lincoln Park tribs (Pompton River)	BIOLOGICAL-CAUSE UNKNOWN	AN0269, FIBI045	2008	Aquatic Life General		Low
19	02040202060070-01	HUC02040202060070	Little Creek (above Bear Swamp River)	ARSENIC	01465893	2012	Public Water Supply	A	Low
19	02040202060070-01	HUC02040202060070	Little Creek (above Bear Swamp River)	ESCHERICHIA COLI (E. COLI)	01465893	2006	Recreation		Low
19	02040202060070-01	HUC02040202060070	Little Creek (above Bear Swamp River)	BIOLOGICAL-CAUSE UNKNOWN	AN0158	2016	Aquatic Life General		Medium
19	02040202060070-01	HUC02040202060070	Little Creek (above Bear Swamp River)	PH	01465893, WLIHAWKI	2012	Aquatic Life General		Medium
19	02040202060090-01	HUC02040202060090	Little Creek (below Bear Swamp River)	ESCHERICHIA COLI (E. COLI)	BFBM000015	2012	Recreation		Medium
17	02040206120010-01	HUC02040206120010	Little Ease Run (above Academy Rd)	ARSENIC	01411458	2016	Public Water Supply		Low
17	02040206120010-01	HUC02040206120010	Little Ease Run (above Academy Rd)	PH	01411458	2006	Aquatic Life General		Medium
17	02040206120020-01	HUC02040206120020	Little Ease Run (below Academy Rd)	ARSENIC	01411457, 01411458	2012	Public Water Supply		Low

17	02040206120020-01	HUC02040206120020	Little Ease Run (below Academy Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0727	2016	Aquatic Life General		Low
17	02040206120020-01	HUC02040206120020	Little Ease Run (below Academy Rd)	PH	01411457, 01411458, NJW04459-236	2002	Aquatic Life General		Medium
1	02040104130010-01	HUC02040104130010	Little Flat Brook (Beerskill and above)	TEMPERATURE	01439920	2006	Aquatic Life Trout		Medium
1	02040104130030-01	HUC02040104130030	Little Flat Brook (Confluence to Layton)	TEMPERATURE	01439920	2006	Aquatic Life Trout		Medium
1	02040104130020-01	HUC02040104130020	Little Flat Brook (Layton to Beerskill)	TEMPERATURE	01439920	2006	Aquatic Life Trout		Medium
11	02040105240050-01	HUC02040105240050	Little Shabakunk Creek	ARSENIC	01464000	2006	Public Water Supply		Low
11	02040105240050-01	HUC02040105240050	Little Shabakunk Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0578	2016	Aquatic Life General		Low
11	02040105240050-01	HUC02040105240050	Little Shabakunk Creek	LEAD	01464000	1998	Public Water Supply		Low
11	02040105240050-01	HUC02040105240050	Little Shabakunk Creek	MERCURY IN FISH TISSUE	Assunpink Creek	2006	Fish Consumption		Low
11	02040105240050-01	HUC02040105240050	Little Shabakunk Creek	PHOSPHORUS, TOTAL	01464020	2006	Aquatic Life General		Medium
12	02030104080010-01	HUC02030104080010	Little Silver Creek / Town Neck Creek	DDT IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080010-01	HUC02030104080010	Little Silver Creek / Town Neck Creek	MERCURY IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption		Low
12	02030104080010-01	HUC02030104080010	Little Silver Creek / Town Neck Creek	PCBS IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
18	02040202120070-01	HUC02040202120070	Little Timber Creek (Gloucester City)	BIOLOGICAL-CAUSE UNKNOWN	AN0666	2008	Aquatic Life General		Low
18	02040202120070-01	HUC02040202120070	Little Timber Creek (Gloucester City)	PCBS IN FISH TISSUE	Little Timber Creek	2006	Fish Consumption	L	Low
6	02030103010040-01	HUC02030103010040	Loantaka Brook	ESCHERICHIA COLI (E. COLI)	01378860	2008	Recreation		Low
6	02030103010040-01	HUC02030103010040	Loantaka Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0220, AN0221, GSWA_LB1, GSWA_LB2, GSWA_LB3,	2008	Aquatic Life General		Medium
6	02030103010040-01	HUC02030103010040	Loantaka Brook	TOTAL DISSOLVED SOLIDS (TDS)	GSWA_LB2, GSWA_LB4, GSWA_LB4P, GSWA_LB5,	2008	Public Water Supply		Medium
11	02040105200010-01	HUC02040105200010	Lockatong Ck (above Rt 12)	ESCHERICHIA COLI (E. COLI)	01460860, L8a, L9a, L9b	2008	Recreation		Medium
11	02040105200010-01	HUC02040105200010	Lockatong Ck (above Rt 12)	PH	L9	2008	Aquatic Life General		Medium
11	02040105200030-01	HUC02040105200030	Lockatong Ck (below Milltown) incl UDRV	ARSENIC	01460900	2012	Public Water Supply		Low
11	02040105200030-01	HUC02040105200030	Lockatong Ck (below Milltown) incl UDRV	BIOLOGICAL-CAUSE UNKNOWN	AN0089	2016	Aquatic Life General, Aquatic Life Trout		Low
11	02040105200030-01	HUC02040105200030	Lockatong Ck (below Milltown) incl UDRV	TEMPERATURE	01460880, 01460900, L3	2008	Aquatic Life Trout		Medium
11	02040105200020-01	HUC02040105200020	Lockatong Ck (Milltown to Rt 12)	ARSENIC	01460870	2012	Public Water Supply		Low
11	02040105200020-01	HUC02040105200020	Lockatong Ck (Milltown to Rt 12)	ESCHERICHIA COLI (E. COLI)	01460860, 01460870, L4	2008	Recreation		Low
11	02040105200020-01	HUC02040105200020	Lockatong Ck (Milltown to Rt 12)	BIOLOGICAL-CAUSE UNKNOWN	AN0087, AN0088, NJS11-166	2016	Aquatic Life General, Aquatic Life Trout		Medium
11	02040105200020-01	HUC02040105200020	Lockatong Ck (Milltown to Rt 12)	PH	L3a, L4, L6	2008	Aquatic Life General		Medium
11	02040105200020-01	HUC02040105200020	Lockatong Ck (Milltown to Rt 12)	TEMPERATURE	01460860, 01460870, L3	2008	Aquatic Life Trout		Medium
2	02020007040060-01	HUC02020007040060	Long House Creek/Upper Greenwood Lake	PH	NJW04459-119	2010	Aquatic Life General		Medium
13	02040301080080-01	HUC02040301080080	Long Swamp Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0544	2012	Aquatic Life General		Low
1	02040105120010-01	HUC02040105120010	Lopatcong Creek (above Rt 57)	PHOSPHORUS, TOTAL	Lopat_1	2010	Aquatic Life General		Medium
1	02040105120020-01	HUC02040105120020	Lopatcong Creek (below Rt 57) incl UDRV	BIOLOGICAL-CAUSE UNKNOWN	AN0053	2016	Aquatic Life General, Aquatic Life Trout		Low
1	02040105120020-01	HUC02040105120020	Lopatcong Creek (below Rt 57) incl UDRV	PHOSPHORUS, TOTAL	Lopat_3	2010	Aquatic Life General		Medium
13	BarnegatBay09	HUCBarnegatBay09	Lower Little Egg Harbor Bay	DISSOLVED OXYGEN	BB14	2014	Aquatic Life General		High
13	BarnegatBay09	HUCBarnegatBay09	Lower Little Egg Harbor Bay	TURBIDITY	BB12, BB13	2014	Aquatic Life General		High
19	02040202080060-01	HUC02040202080060	LRDV trib- Delanco/Edgewater	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2010	Fish Consumption	L	Low
1	02040105150040-01	HUC02040105150040	Lubbers Run (above/incl Dallis Pond)	TEMPERATURE	AN0065	2012	Aquatic Life Trout		Medium
1	02040105150050-01	HUC02040105150050	Lubbers Run (below Dallis Pond)	ARSENIC	01455780	2012	Public Water Supply		Low
17	02040206070020-01	HUC02040206070020	Mad Horse Ck / Little Ck / Turners Fork	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206070020-01	HUC02040206070020	Mad Horse Ck / Little Ck / Turners Fork	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
18	02040202120120-01	HUC02040202120120	Main Ditch / Little Mantua Creek	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
6	02030103020060-01	HUC02030103020060	Malapardis Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0238B	2008	Aquatic Life General		Low
13	BarnegatBay08	HUCBarnegatBay08	Manahawkan Bay and Upper Little Egg Harbor	TURBIDITY	BB10, BB11a	2014	Aquatic Life General		High
9	02030105140030-01	HUC02030105140030	Manalapan Brook (below Lake Manalapan)	ARSENIC	01405440	2006	Public Water Supply		Low
9	02030105140020-01	HUC02030105140020	Manalapan Brook (incl LkManlpn to 40d16m15s)	CHLORDANE IN FISH TISSUE	Manalapan Lake	2016	Fish Consumption	L	Low
9	02030105140020-01	HUC02030105140020	Manalapan Brook (incl LkManlpn to 40d16m15s)	DDT IN FISH TISSUE	Manalapan Lake	2016	Fish Consumption	L	Low
9	02030105140020-01	HUC02030105140020	Manalapan Brook (incl LkManlpn to 40d16m15s)	PCBS IN FISH TISSUE	Manalapan Lake	2016	Fish Consumption	L	Low
13	02040301070080-01	HUC02040301070080	Manapaqua Brook	ARSENIC	01408460	2016	Public Water Supply		Low

12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	ARSENIC	0140802850	2008	Public Water Supply	A	Low
12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0496	2016	Aquatic Life General		Low
12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	PHOSPHORUS, TOTAL	MCHD-16	2008	Aquatic Life General		Medium
12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	TEMPERATURE	01408029	2014	Aquatic Life Trout		Medium
12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	TURBIDITY	01408029	2014	Aquatic Life General		Medium
12	02030104100010-01	HUC02030104100010	Manasquan R (above 74d17m50s road)	ARSENIC	01407820	2014	Public Water Supply		Low
12	02030104100100-01	HUC02030104100100	Manasquan R (below Rt 70 bridge)	DISSOLVED OXYGEN	1306A, 1308C, MCHD-84	2014	Aquatic Life General		Medium
12	02030104100050-01	HUC02030104100050	Manasquan R (gage to West Farms Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0490, AN0493	2016	Aquatic Life General, Aquatic Life Trout		Low
12	02030104100050-01	HUC02030104100050	Manasquan R (gage to West Farms Rd)	PCBS IN FISH TISSUE	Manasquan Reservoir	2016	Fish Consumption	L	Low
12	02030104100050-01	HUC02030104100050	Manasquan R (gage to West Farms Rd)	TURBIDITY	01408000	2016	Aquatic Life General		Medium
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	ARSENIC	01407846, 01407862	2012	Public Water Supply		Low
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	BIOLOGICAL-CAUSE UNKNOWN	AN0486, AN0487	2016	Aquatic Life General		Low
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	TOTAL SUSPENDED SOLIDS (TSS)	01407862, 01407868	2006	Aquatic Life General		Medium
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	TURBIDITY	01407862	2014	Aquatic Life General		Medium
12	02030104100030-01	HUC02030104100030	Manasquan R (West Farms Rd to Rt 9)	BIOLOGICAL-CAUSE UNKNOWN	AN0489, AN0490	2016	Aquatic Life General, Aquatic Life Trout		Low
12	02030104100030-01	HUC02030104100030	Manasquan R (West Farms Rd to Rt 9)	TURBIDITY	01408000	2016	Aquatic Life General		Medium
17	02040206040010-01	HUC02040206040010	Mannington Creek	ARSENIC	01482645	2008	Public Water Supply	A	Low
17	02040206040010-01	HUC02040206040010	Mannington Creek	DISSOLVED OXYGEN	01482645	2010	Aquatic Life General		Low
17	02040206040010-01	HUC02040206040010	Mannington Creek	ESCHERICHIA COLI (E. COLI)	01482645	2010	Recreation		Medium
17	02040206040010-01	HUC02040206040010	Mannington Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0697, AN0698	2016	Aquatic Life General		Medium
17	02040206040010-01	HUC02040206040010	Mannington Creek	PHOSPHORUS, TOTAL	01482645	2008	Aquatic Life General		Medium
18	02040202130010-01	HUC02040202130010	Mantua Creek (above Rt 47)	BIOLOGICAL-CAUSE UNKNOWN	AN0668	2008	Aquatic Life General		Low
18	02040202130060-01	HUC02040202130060	Mantua Creek (below Edwards Run)	MERCURY IN FISH TISSUE	Delaware River/Bay at Mantua Creek mouth, Mantua Creek @ Paulsboro, NJ	2014	Fish Consumption		Low
18	02040202130060-01	HUC02040202130060	Mantua Creek (below Edwards Run)	PCBS IN FISH TISSUE	Delaware River/Bay at Mantua Creek mouth, Mantua Creek @ Paulsboro, NJ	2006	Fish Consumption	L	Low
18	02040202130040-01	HUC02040202130040	Mantua Creek (Edwards Run to rd to Sewell)	ESCHERICHIA COLI (E. COLI)	01475042	2008	Recreation		Medium
18	02040202130040-01	HUC02040202130040	Mantua Creek (Edwards Run to rd to Sewell)	MERCURY IN FISH TISSUE	Delaware River/Bay at Mantua Creek mouth,Marlton	2008	Fish Consumption		Low
18	02040202130040-01	HUC02040202130040	Mantua Creek (Edwards Run to rd to Sewell)	PCBS IN FISH TISSUE	Delaware River/Bay at Mantua Creek mouth,Marlton	2006	Fish Consumption	L	Low
18	02040202130040-01	HUC02040202130040	Mantua Creek (Edwards Run to rd to Sewell)	PH	01475042	2008	Aquatic Life General		Medium
18	02040202130040-01	HUC02040202130040	Mantua Creek (Edwards Run to rd to Sewell)	PHOSPHORUS, TOTAL	01475045	2004	Aquatic Life General		Medium
17	02040206190010-01	HUC02040206190010	Manumuskin River (above/incl BigNealBr)	ARSENIC	01412080	2014	Public Water Supply		Low
17	02040206190030-01	HUC02040206190030	Manumuskin River (below Rt 49)	ARSENIC	01412080	2012	Public Water Supply	A	Low
17	02040206190030-01	HUC02040206190030	Manumuskin River (below Rt 49)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206190020-01	HUC02040206190020	Manumuskin River (Rt 49 to Big Neal Br)	ARSENIC	01412080	2014	Public Water Supply		Low
12	02030104100040-01	HUC02030104100040	Marsh Bog Brook	ARSENIC	01407988	2012	Public Water Supply		Low
12	02030104100040-01	HUC02030104100040	Marsh Bog Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0491, AN0492	2008	Aquatic Life General		Low
3	02030103100020-01	HUC02030103100020	Masonicus Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0266E, FIBI076a	2014	Aquatic Life General		Low
12	02030104060020-01	HUC02030104060020	Matawan Creek (above Ravine Drive)	ARSENIC	Adjacent to Matawan Creek Reach 02030104-328-0.42	1998	Public Water Supply		Low
12	02030104060020-01	HUC02030104060020	Matawan Creek (above Ravine Drive)	COPPER	Adjacent to Matawan Creek Reach 02030104-328-0.42	1998	Aquatic Life General		Low
12	02030104060020-01	HUC02030104060020	Matawan Creek (above Ravine Drive)	BIOLOGICAL-CAUSE UNKNOWN	AN0456	2016	Aquatic Life General		Low
12	02030104060020-01	HUC02030104060020	Matawan Creek (above Ravine Drive)	LEAD	Adjacent to Matawan Creek Reach 02030104-328-0.42	1998	Aquatic Life General		Low
12	02030104060020-01	HUC02030104060020	Matawan Creek (above Ravine Drive)	PCBS IN FISH TISSUE	Lefferts Lake	1998	Fish Consumption	L	Low
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	ARSENIC	01407026	2012	Public Water Supply		Low
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	CHLORDANE IN FISH TISSUE	Matawan Creek	2006	Fish Consumption	L	Low
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	DDT IN FISH TISSUE	Matawan Creek	2006	Fish Consumption	L	Low
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	DISSOLVED OXYGEN	MCHD-51, NNB-M2, NNB-M3, R62	2012	Aquatic Life General		Low
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	ENTEROCOCCUS	MCHD-51, R62	2008	Recreation		Medium
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	ESCHERICHIA COLI (E. COLI)	MCHD-65	2014	Recreation		Medium

12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	BIOLOGICAL-CAUSE UNKNOWN	AN0457, AN0458	2016	Aquatic Life General		Medium
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	PCBS IN FISH TISSUE	Matawan Creek	1998	Fish Consumption	L	Low
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	PH	01407012, 01407026, MCHD-65	2006	Aquatic Life General		Medium
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
9	02030105150040-01	HUC02030105150040	Matchaponix Brook (above/incl Pine Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0448, AN0449	2006	Aquatic Life General		Low
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	DISSOLVED OXYGEN	MtB1	2010	Aquatic Life General		Low
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0451	2016	Aquatic Life General		Medium
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	NITRATE	01405290, 01405302, MtB1	2004	Public Water Supply		Medium
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	PHOSPHORUS, TOTAL	01405290, 01405302, MtB1	2004	Aquatic Life General	R	High
14	02040301200110-01	HUC02040301200110	Mattix Run (Nacote Creek)	ARSENIC	01410230	2012	Public Water Supply	A	Low
14	02040301200110-01	HUC02040301200110	Mattix Run (Nacote Creek)	DISSOLVED OXYGEN	01410230	2008	Aquatic Life General		Medium
17	02040206200050-01	HUC02040206200050	Maurice River (below Leesburg) to EastPt	DISSOLVED OXYGEN	3900M	2006	Aquatic Life General		Medium
17	02040206200050-01	HUC02040206200050	Maurice River (below Leesburg) to EastPt	PCBS IN FISH TISSUE	Maurice River at Mauricetown	2006	Fish Consumption	L	Low
17	02040206140010-01	HUC02040206140010	Maurice River (BlkwtrBr to/incl WillowGroveLk)	ARSENIC	01411500	2004	Public Water Supply		Low
17	02040206200040-01	HUC02040206200040	Maurice River (Leesburg to Rt 548)	PCBS IN FISH TISSUE	Maurice River at Mauricetown	2006	Fish Consumption	L	Low
17	02040206170030-01	HUC02040206170030	Maurice River (Menantico Ck to UnionLake)	ARSENIC	01411907	2014	Fish Consumption	A	Low
17	02040206170030-01	HUC02040206170030	Maurice River (Menantico Ck to UnionLake)	MERCURY IN FISH TISSUE	Maurice River at Mauricetown,Union Lake	2010	Fish Consumption		Low
17	02040206170030-01	HUC02040206170030	Maurice River (Menantico Ck to UnionLake)	PCBS IN FISH TISSUE	Maurice River at Mauricetown,Union Lake	2006	Fish Consumption	L	Low
17	02040206200030-01	HUC02040206200030	Maurice River (Rt 548 to Menantico Ck)	PCBS IN FISH TISSUE	Maurice River at Mauricetown	2006	Fish Consumption	L	Low
17	02040206140060-01	HUC02040206140060	Maurice River (Sherman Ave to Blackwater Br)	ARSENIC	01411500, 01411800	1998	Public Water Supply		Low
17	02040206160030-01	HUC02040206160030	Maurice River (Union Lake to Sherman Ave)	ARSENIC	01411800	1998	Public Water Supply		Low
17	02040206160030-01	HUC02040206160030	Maurice River (Union Lake to Sherman Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0751	2008	Aquatic Life General		Low
17	02040206160030-01	HUC02040206160030	Maurice River (Union Lake to Sherman Ave)	MERCURY IN FISH TISSUE	Union Lake	2008	Fish Consumption		Low
19	02040202030070-01	HUC02040202030070	McDonalds Branch	ARSENIC	01466500	2012	Public Water Supply	A	Low
9	02030105150020-01	HUC02030105150020	McGellairds Brook (above Taylors Mills)	BIOLOGICAL-CAUSE UNKNOWN	AN0445	2016	Aquatic Life General		Low
9	02030105150030-01	HUC02030105150030	McGellairds Brook (below Taylors Mills)	BIOLOGICAL-CAUSE UNKNOWN	AN0446, AN0447	2016	Aquatic Life General		Low
9	02030105150030-01	HUC02030105150030	McGellairds Brook (below Taylors Mills)	PHOSPHORUS, TOTAL	01405180, MGB1	2006	Aquatic Life General		High
3	02030103070060-01	HUC02030103070060	Meadow Brook / High Mountain Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0256A	2016	Aquatic Life General, Aquatic Life Trout		Low
3	02030103070060-01	HUC02030103070060	Meadow Brook / High Mountain Brook	TEMPERATURE	MDBK	2010	Aquatic Life Trout		Medium
17	02040206180030-01	HUC02040206180030	Menantico Creek (above Rt 552)	DDT IN FISH TISSUE	Menantico Sands Pond	2010	Fish Consumption	L	Low
17	02040206180030-01	HUC02040206180030	Menantico Creek (above Rt 552)	DIOXIN IN FISH TISSUE	Menantico Sands Pond	2010	Fish Consumption		Low
17	02040206180030-01	HUC02040206180030	Menantico Creek (above Rt 552)	PCBS IN FISH TISSUE	Menantico Sands Pond	2010	Fish Consumption	L	Low
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	ARSENIC	01412005	2008	Public Water Supply	A	Low
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	DDT IN FISH TISSUE	Menantico Sand Ponds	2010	Fish Consumption	L	Low
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	PCBS IN FISH TISSUE	Menantico Sand Ponds	2006	Fish Consumption	L	Low
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	PHOSPHORUS, TOTAL	01412005	2006	Aquatic Life General		Medium
11	02040105210080-01	HUC02040105210080	Mercer (Calhoun St to Jacobs Creek)	ARSENIC	01463500	2016	Public Water Supply		Low
11	02040105210080-01	HUC02040105210080	Mercer (Calhoun St to Jacobs Creek)	BIOLOGICAL-CAUSE UNKNOWN	AN0107	2008	Aquatic Life General		Low
11	02040105210080-01	HUC02040105210080	Mercer (Calhoun St to Jacobs Creek)	TURBIDITY	01463500	2016	Aquatic Life General		Medium
1	02040105140040-01	HUC02040105140040	Merrill Creek	ARSENIC	01455240	2016	Public Water Supply		Low
1	02040105140040-01	HUC02040105140040	Merrill Creek	CHLORDANE IN FISH TISSUE	Merrill Creek Reservoir	2014	Fish Consumption	L	Low
1	02040105140040-01	HUC02040105140040	Merrill Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0059	2010	Aquatic Life General, Aquatic Life Trout		Low
1	02040105140040-01	HUC02040105140040	Merrill Creek	PCBS IN FISH TISSUE	Merrill Creek Reservoir	2014	Fish Consumption	L	Low
13	BarnegatBay03	HUCBarnegatBay03	Metedeconk and Lower Tribs - Bay	TURBIDITY	01408167, BB05a	2014	Aquatic Life General		High
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	ARSENIC	01408156, INTAKE	2008	Public Water Supply	A	Low
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	DISSOLVED OXYGEN	01408156	2016	Aquatic Life General		Low
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	BIOLOGICAL-CAUSE UNKNOWN	AN0514	2008	Aquatic Life General		Medium
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	PHOSPHORUS, TOTAL	01408156	2016	Aquatic Life General		Medium
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	ARSENIC	NK, NM, NO, NP	2008	Public Water Supply		Low

13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	CHLORDANE IN FISH TISSUE	Metedeconk River North Branch	2010	Fish Consumption	L	Low
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	DDT IN FISH TISSUE	Metedeconk River North Branch	2010	Fish Consumption	L	Low
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	DISSOLVED OXYGEN	NO	2014	Aquatic Life General		Low
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	BIOLOGICAL-CAUSE UNKNOWN	AN0499	2016	Aquatic Life General		Medium
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	LEAD	NO, NP	2012	Public Water Supply		Low
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	MERCURY IN FISH TISSUE	Metedeconk River North Branch	2010	Fish Consumption		Low
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	PCBS IN FISH TISSUE	Metedeconk River North Branch	2010	Fish Consumption	L	Low
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	TURBIDITY	NK, NM, NN, NO, NP	2012	Aquatic Life General	R	Medium
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	ARSENIC	01408100, BT01, CB, CB-1, ND	2008	Public Water Supply		Low
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	BIOLOGICAL-CAUSE UNKNOWN	AN0502, AN0506	2012	Aquatic Life General, Aquatic Life Trout		Low
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	LEAD	CB-1, CB	2012	Public Water Supply		Low
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	TEMPERATURE	01408100	2016	Aquatic Life Trout		Medium
13	02040301020020-01	HUC02040301020020	Metedeconk R NB (Rt 9 to I-195)	ARSENIC	01408100, NG	2016	Public Water Supply		Low
13	02040301020020-01	HUC02040301020020	Metedeconk R NB (Rt 9 to I-195)	BIOLOGICAL-CAUSE UNKNOWN	AN0502	2012	Aquatic Life General		Low
13	02040301020020-01	HUC02040301020020	Metedeconk R NB (Rt 9 to I-195)	TEMPERATURE	01408100	2016	Aquatic Life Trout		Medium
13	02040301030020-01	HUC02040301030020	Metedeconk R SB (74d19m15s to I-195 X21)	ARSENIC	01408127, SK	2014	Public Water Supply	A	Low
13	02040301030020-01	HUC02040301030020	Metedeconk R SB (74d19m15s to I-195 X21)	DISSOLVED OXYGEN	01408127, SK	2014	Aquatic Life General		Medium
13	02040301030020-01	HUC02040301030020	Metedeconk R SB (74d19m15s to I-195 X21)	TURBIDITY	SK	2012	Aquatic Life General	R	Medium
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	ARSENIC	SL	2008	Public Water Supply		Low
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	ESCHERICHIA COLI (E. COLI)	SL	2016	Recreation		Medium
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	TOTAL DISSOLVED SOLIDS (TDS)	SO	2016	Public Water Supply		Medium
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	TURBIDITY	SO	2016	Aquatic Life General	R	Medium
13	02040301030030-01	HUC02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	ARSENIC	01408136, SI	2014	Public Water Supply		Low
13	02040301030030-01	HUC02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	CHLORDANE IN FISH TISSUE	Enno Lake (Bennetts Pond)	2010	Fish Consumption	L	Low
13	02040301030030-01	HUC02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	ESCHERICHIA COLI (E. COLI)	SI	2016	Recreation		Low
13	02040301030030-01	HUC02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	BIOLOGICAL-CAUSE UNKNOWN	AN0510A	2014	Aquatic Life General		Medium
13	02040301030030-01	HUC02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	MERCURY IN FISH TISSUE	Enno Lake (Bennetts Pond)	2010	Fish Consumption		Low
13	02040301030030-01	HUC02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	PCBS IN FISH TISSUE	Enno Lake (Bennetts Pond)	2010	Fish Consumption	L	Low
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	ARSENIC	BT02, SA, SB1	2008	Public Water Supply	A	Low
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	BIOLOGICAL-CAUSE UNKNOWN	AN0511, AN0512	2012	Aquatic Life General		Low
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	LEAD	SA, SD	2012	Public Water Supply		Low
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	ARSENIC	01408136, SE, SG, SI	2008	Public Water Supply	A	Low
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	BENZENE	NF14	2016	Public Water Supply		Low
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	TETRACHLOROETHYLENE	NF14	2016	Public Water Supply		Low
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	VINYL CHLORIDE	NF14	2016	Public Water Supply		Low
13	02040301080020-01	HUC02040301080020	Michaels Branch (Wrangel Brook)	PH	NJW04459-042, RTIKESWI	2010	Aquatic Life General		Medium
17	02040206200010-01	HUC02040206200010	Middle Branch / Slab Branch	ARSENIC	01412120	2014	Public Water Supply		Low
17	02040206200010-01	HUC02040206200010	Middle Branch / Slab Branch	MERCURY IN WATER COLUMN	01412120	2008	Public Water Supply		Low
9	02030105120180-01	HUC02030105120180	Middle Brook	ARSENIC	01403190	2010	Public Water Supply		Low
9	02030105120180-01	HUC02030105120180	Middle Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0420, FIBI072	2012	Aquatic Life General		Low
8	02030105060080-01	HUC02030105060080	Middle Brook (NB Raritan River)	ESCHERICHIA COLI (E. COLI)	01399100	2008	Recreation		Low
8	02030105060080-01	HUC02030105060080	Middle Brook (NB Raritan River)	BIOLOGICAL-CAUSE UNKNOWN	AN0354, AN0355, FIBI038, MD01	2008	Aquatic Life General		Medium
9	02030105120050-01	HUC02030105120050	Middle Brook EB	ARSENIC	01403075	2012	Public Water Supply		Low
9	02030105120050-01	HUC02030105120050	Middle Brook EB	CHLORIDE	01403075	2016	Public Water Supply		Low
9	02030105120050-01	HUC02030105120050	Middle Brook EB	DISSOLVED OXYGEN	01403075	2012	Aquatic Life Trout		Medium
9	02030105120050-01	HUC02030105120050	Middle Brook EB	BIOLOGICAL-CAUSE UNKNOWN	AN0418, AN0419	2016	Aquatic Life General, Aquatic Life Trout		Medium
9	02030105120050-01	HUC02030105120050	Middle Brook EB	PHOSPHORUS, TOTAL	01403075	2012	Aquatic Life General		Medium
9	02030105120050-01	HUC02030105120050	Middle Brook EB	TEMPERATURE	01403120	2014	Aquatic Life Trout		Medium
9	02030105120050-01	HUC02030105120050	Middle Brook EB	TOTAL DISSOLVED SOLIDS (TDS)	01403075	2008	Public Water Supply		Medium

9	02030105120060-01	HUC02030105120060	Middle Brook WB	BIOLOGICAL-CAUSE UNKNOWN	AN0416	2008	Aquatic Life General		Low
17	02040206100010-01	HUC02040206100010	Middle Marsh Ck (DrumboCk to Sea Breeze)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
15	02040302050120-01	HUC02040302050120	Middle River / Peters Creek	DISSOLVED OXYGEN	2900, 2900A, 2900E	2006	Aquatic Life General		Medium
9	02030105120150-01	HUC02030105120150	Mile Run	ESCHERICHIA COLI (E. COLI)	BFBM000007	2012	Recreation		Low
9	02030105120150-01	HUC02030105120150	Mile Run	BIOLOGICAL-CAUSE UNKNOWN	AN0429, FIBI015, FIBI506	2006	Aquatic Life General		Medium
15	02040302060010-01	HUC02040302060010	Mill Br (above Cardiff-Bargaintown rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0618	2010	Aquatic Life General		Low
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	PCBS IN FISH TISSUE	Pohatcong Pond	2010	Fish Consumption	L	Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	BENZO[A]PYRENE (PAHS)	Raritan River Estuary	2016	Fish Consumption		Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	CHLORDANE IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2016	Fish Consumption	L	Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	DDT IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2016	Fish Consumption	L	Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	DIOXIN IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2016	Fish Consumption		Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	HEPTACHLOR EPOXIDE	Raritan River Estuary	2016	Fish Consumption	L	Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0436	2008	Aquatic Life General		Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	MERCURY IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2016	Fish Consumption		Low
9	02030105160080-01	HUC02030105160080	Mill Brook / Martins Creek	PCBS IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	1998	Fish Consumption	L	Low
13	02040301130020-01	HUC02040301130020	Mill Ck (above GS Parkway)	PH	01409150, NJW04459-224	2006	Aquatic Life General		Medium
13	02040301130030-01	HUC02040301130030	Mill Ck (below GS Parkway)/Manahawkin Ck	DDT IN FISH TISSUE	Lake Manahawkin	2010	Fish Consumption	L	Low
13	02040301130030-01	HUC02040301130030	Mill Ck (below GS Parkway)/Manahawkin Ck	BIOLOGICAL-CAUSE UNKNOWN	AN0555	2014	Aquatic Life General		Low
13	02040301130030-01	HUC02040301130030	Mill Ck (below GS Parkway)/Manahawkin Ck	PCBS IN FISH TISSUE	Lake Manahawkin	2010	Fish Consumption	L	Low
17	02040206090050-01	HUC02040206090050	Mill Creek (below Maple House Bk)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110040-01	HUC02040206110040	Mill Creek (Dividing Creek)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110040-01	HUC02040206110040	Mill Creek (Dividing Creek)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
17	02040206160040-01	HUC02040206160040	Mill Creek (lower)	MERCURY IN FISH TISSUE	Union Lake	2010	Fish Consumption		High
19	02040202080030-01	HUC02040202080030	Mill Creek (Willingboro)	ARSENIC	01467021	2008	Public Water Supply		Low
19	02040202080030-01	HUC02040202080030	Mill Creek (Willingboro)	ESCHERICHIA COLI (E. COLI)	01467021, BFBM000040	2012	Recreation		Low
19	02040202080030-01	HUC02040202080030	Mill Creek (Willingboro)	BIOLOGICAL-CAUSE UNKNOWN	AN0175	2016	Aquatic Life General		Medium
19	02040202080030-01	HUC02040202080030	Mill Creek (Willingboro)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202080030-01	HUC02040202080030	Mill Creek (Willingboro)	PHOSPHORUS, TOTAL	01467021	2004	Aquatic Life General		Medium
15	02040302070060-01	HUC02040302070060	Mill Creek / Back Run (Tuckahoe River)	BIOLOGICAL-CAUSE UNKNOWN	AN0652	2014	Aquatic Life General		Low
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	ARSENIC	01400530	1998	Public Water Supply		Low
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	BIOLOGICAL-CAUSE UNKNOWN	AN0379	2016	Aquatic Life General		Low
10	02030105110140-01	HUC02030105110140	Millstone R (AmwellRd to BlackwellsMills)	ARSENIC	01402000	1998	Public Water Supply		Low
10	02030105110140-01	HUC02030105110140	Millstone R (AmwellRd to BlackwellsMills)	BIOLOGICAL-CAUSE UNKNOWN	AN0409, AN0410	2016	Aquatic Life General		Low
10	02030105110140-01	HUC02030105110140	Millstone R (AmwellRd to BlackwellsMills)	PHOSPHORUS, TOTAL	01402000	2004	Aquatic Life General		Medium
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	ARSENIC	01400530, 01400560	1998	Public Water Supply		Low
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	BIOLOGICAL-CAUSE UNKNOWN	AN0379, AN0382D	2016	Aquatic Life General		Low
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	ARSENIC	01401440	1998	Public Water Supply		Low
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	DISSOLVED OXYGEN	M4	2010	Aquatic Life General		Medium
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	ESCHERICHIA COLI (E. COLI)	01401440	2006	Recreation		Medium
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	PH	01401440	2002	Aquatic Life General		Medium
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	PHOSPHORUS, TOTAL	01401440	2002	Aquatic Life General		Medium
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	CHLORDANE IN FISH TISSUE	Millstone River @Manville	2016	Fish Consumption	L	Low
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	DDT IN FISH TISSUE	Millstone River @Manville	2016	Fish Consumption	L	Low
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0414, AN0414A	2016	Aquatic Life General		Low
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	PCBS IN FISH TISSUE	Millstone River @Manville	2016	Fish Consumption	L	Low
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	PH	01402540	2002	Aquatic Life General		Medium
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	PHOSPHORUS, TOTAL	01402540, NJW04459-257	2002	Aquatic Life General		Medium
10	02030105110110-01	HUC02030105110110	Millstone R (BlackwellsMills to BedenBk)	ARSENIC	01402000, 01460530	1998	Public Water Supply		Low
10	02030105110110-01	HUC02030105110110	Millstone R (BlackwellsMills to BedenBk)	BIOLOGICAL-CAUSE UNKNOWN	AN0406	2016	Aquatic Life General		Low
10	02030105110110-01	HUC02030105110110	Millstone R (BlackwellsMills to BedenBk)	PHOSPHORUS, TOTAL	01402000, 01460530	2002	Aquatic Life General		Medium
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	ARSENIC	01400650	2006	Public Water Supply		Low

10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0382, AN0382B	2016	Aquatic Life General		Low
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	ARSENIC	01401440	2016	Public Water Supply		Low
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	CHLORDANE IN FISH TISSUE	Carnegie Lake	2016	Fish Consumption	L	Low
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	DDT IN FISH TISSUE	Carnegie Lake	2016	Fish Consumption	L	Low
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	ESCHERICHIA COLI (E. COLI)	01401440	2014	Recreation		Low
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	BIOLOGICAL-CAUSE UNKNOWN	AN0394B, WAHARR1, WAHARR2, WAHARR3	2016	Aquatic Life General		Medium
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	PCBS IN FISH TISSUE	Carnegie Lake	2016	Fish Consumption	L	Low
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	PH	01401440	2014	Aquatic Life General		Medium
10	02030105100030-01	HUC02030105100030	Millstone R (RockyBk to Applegarth road)	ARSENIC	01400560	2016	Public Water Supply		Low
10	02030105100030-01	HUC02030105100030	Millstone R (RockyBk to Applegarth road)	DISSOLVED OXYGEN	UMR1	2010	Aquatic Life General		Low
10	02030105100030-01	HUC02030105100030	Millstone R (RockyBk to Applegarth road)	BIOLOGICAL-CAUSE UNKNOWN	AN0382C, AN0382D	2016	Aquatic Life General		Medium
10	02030105100140-01	HUC02030105100140	Millstone R (Rt 1 to Cranbury Bk)	ARSENIC	01400834	2004	Public Water Supply		Low
10	02030105100140-01	HUC02030105100140	Millstone R (Rt 1 to Cranbury Bk)	DISSOLVED OXYGEN	UMR3	2010	Aquatic Life General		Low
10	02030105100140-01	HUC02030105100140	Millstone R (Rt 1 to Cranbury Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0384A	2016	Aquatic Life General		Medium
12	02030104070050-01	HUC02030104070050	Mine Brook (Monmouth Co)	ARSENIC	01407450	2012	Public Water Supply		Low
12	02030104070050-01	HUC02030104070050	Mine Brook (Monmouth Co)	BIOLOGICAL-CAUSE UNKNOWN	AN0473	2016	Aquatic Life General		Low
12	02030104070050-01	HUC02030104070050	Mine Brook (Monmouth Co)	PHOSPHORUS, TOTAL	01407450, MCHD-58	2012	Aquatic Life General		Medium
12	02030104100060-01	HUC02030104100060	Mingamahone Brook (above Asbury Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0494	2016	Aquatic Life General, Aquatic Life Trout		Low
12	02030104100060-01	HUC02030104100060	Mingamahone Brook (above Asbury Rd)	TOTAL SUSPENDED SOLIDS (TSS)	01408009	2006	Aquatic Life General		Medium
12	02030104100060-01	HUC02030104100060	Mingamahone Brook (above Asbury Rd)	TURBIDITY	01408009	2006	Aquatic Life General		Medium
12	02030104100070-01	HUC02030104100070	Mingamahone Brook (below Asbury Rd)	PHOSPHORUS, TOTAL	01408020	2014	Aquatic Life General		Medium
11	02040105240030-01	HUC02040105240030	Miry Run (Assunpink Cr)	ARSENIC	01463850	2012	Public Water Supply		Low
11	02040105240030-01	HUC02040105240030	Miry Run (Assunpink Cr)	BIOLOGICAL-CAUSE UNKNOWN	AN0115A, AN0569	2016	Aquatic Life General		Low
4	02030103120040-01	HUC02030103120040	Molly Ann Brook	ARSENIC	01389745, 01389785	2012	Public Water Supply		Low
4	02030103120040-01	HUC02030103120040	Molly Ann Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0276	2006	Aquatic Life General		Low
4	02030103120040-01	HUC02030103120040	Molly Ann Brook	TOTAL DISSOLVED SOLIDS (TDS)	01389785	2008	Public Water Supply		Medium
16	02040302080060-01	HUC02040302080060	Mommy Teal Ck / Cresse Ck / Gravelly Run	BIOLOGICAL-CAUSE UNKNOWN	WAMICK	2014	Aquatic Life General		Low
6	02030103030160-01	HUC02030103030160	Montville Tribs	BIOLOGICAL-CAUSE UNKNOWN	AN0253, AN0254	2008	Aquatic Life General		Low
11	02040105210040-01	HUC02040105210040	Moore Creek	TEMPERATURE	01462200	2014	Aquatic Life Trout		Medium
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	ARSENIC	01393690	2012	Public Water Supply		Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	BENZO[A]PYRENE (PAHS)	NY Harbor Tributaries	2008	Fish Consumption		Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	CHLORDANE IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption	L	Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	DDT IN FISH TISSUE	New York Harbor Tribs	2008	Fish Consumption	L	Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	DIELDRIN	NY Harbor Tributaries	2008	Fish Consumption	L	Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	DIOXIN IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption		Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	HEPTACHLOR EPOXIDE	NY Harbor Tributaries	2008	Fish Consumption	L	Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	HEXACHLOROBENZENE	NY Harbor Tributaries	2008	Fish Consumption		Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	BIOLOGICAL-CAUSE UNKNOWN	FIBI514, NB203	2016	Aquatic Life General		Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	MERCURY IN FISH TISSUE	New York Harbor Tribs	2008	Fish Consumption		Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	PCBS IN FISH TISSUE	New York Harbor Tribs	1998	Fish Consumption	L	Low
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	PHOSPHORUS, TOTAL	01393690	2010	Aquatic Life General		Medium
14	02040301200100-01	HUC02040301200100	Morses Mill Stream	PH	LMOSTOCK, NJW04459-274	2014	Aquatic Life General		Medium
18	02040202140040-01	HUC02040202140040	Moss Branch / Little Timber Ck (Repaupo)	BIOLOGICAL-CAUSE UNKNOWN	AN0678	2008	Aquatic Life General		Low
18	02040202140040-01	HUC02040202140040	Moss Branch / Little Timber Ck (Repaupo)	MERCURY IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption		Low
18	02040202140040-01	HUC02040202140040	Moss Branch / Little Timber Ck (Repaupo)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206150010-01	HUC02040206150010	Muddy Run (above/incl Elmer Lake)	BIOLOGICAL-CAUSE UNKNOWN	AN0741	2014	Aquatic Life General		Low
17	02040206150050-01	HUC02040206150050	Muddy Run (incl ParvinLk to Palatine Lk)	DDT IN FISH TISSUE	Parvin Lake	2010	Fish Consumption	L	Low
17	02040206150050-01	HUC02040206150050	Muddy Run (incl ParvinLk to Palatine Lk)	PCBS IN FISH TISSUE	Parvin Lake	2010	Fish Consumption	L	Low
8	02030105020030-01	HUC02030105020030	Mulhockaway Creek	ARSENIC	01396660	2016	Public Water Supply		Low
8	02030105020030-01	HUC02030105020030	Mulhockaway Creek	TEMPERATURE	01396660	2014	Aquatic Life Trout	R	Medium

14	02040301170140-01	HUC02040301170140	Mullica River (BatstoR to Nescochague Lake)	DDT IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301170140-01	HUC02040301170140	Mullica River (BatstoR to Nescochague Lake)	MERCURY IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301170140-01	HUC02040301170140	Mullica River (BatstoR to Nescochague Lake)	PCBS IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301160140-01	HUC02040301160140	Mullica River (39d40m30s to Rt 206)	ARSENIC	0140940050	2012	Public Water Supply		Low
14	02040301160140-01	HUC02040301160140	Mullica River (39d40m30s to Rt 206)	DDT IN FISH TISSUE	Mullica River from Atsion to Pleasantville	2006	Fish Consumption	L	Low
14	02040301160140-01	HUC02040301160140	Mullica River (39d40m30s to Rt 206)	PCBS IN FISH TISSUE	Mullica River from Atsion to Pleasantville	2006	Fish Consumption	L	Low
14	02040301160140-01	HUC02040301160140	Mullica River (39d40m30s to Rt 206)	PH	0140940050, MMURRBRG	2006	Aquatic Life General		Medium
14	02040301160020-01	HUC02040301160020	Mullica River (above Jackson Road)	DDT IN FISH TISSUE	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160020-01	HUC02040301160020	Mullica River (above Jackson Road)	MERCURY IN FISH TISSUE	Atsion Lake	2006	Fish Consumption		Low
14	02040301160020-01	HUC02040301160020	Mullica River (above Jackson Road)	PCBS IN FISH TISSUE	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160020-01	HUC02040301160020	Mullica River (above Jackson Road)	PH	01409375	2002	Aquatic Life General		Medium
14	02040301170040-01	HUC02040301170040	Mullica River (BatstoR to PleasantMills)	DDT IN FISH TISSUE	Mullica River	2006	Fish Consumption	L	Low
14	02040301170040-01	HUC02040301170040	Mullica River (BatstoR to PleasantMills)	MERCURY IN FISH TISSUE	Mullica River	2006	Fish Consumption		Low
14	02040301170040-01	HUC02040301170040	Mullica River (BatstoR to PleasantMills)	PCBS IN FISH TISSUE	Mullica River	2010	Fish Consumption	L	Low
14	02040301210010-01	HUC02040301210010	Mullica River (below GSP bridge)	MERCURY IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301210010-01	HUC02040301210010	Mullica River (below GSP bridge)	PCBS IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301200080-01	HUC02040301200080	Mullica River (GSP bridge to Turtle Ck)	MERCURY IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301200080-01	HUC02040301200080	Mullica River (GSP bridge to Turtle Ck)	PCBS IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301170080-01	HUC02040301170080	Mullica River (Lower Bank Rd to Rt 563)	MERCURY IN FISH TISSUE	Mullica River between Green Bank and Batsto	2006	Fish Consumption		Low
14	02040301170080-01	HUC02040301170080	Mullica River (Lower Bank Rd to Rt 563)	PCBS IN FISH TISSUE	Mullica River between Green Bank and Batsto	2006	Fish Consumption	L	Low
14	02040301160150-01	HUC02040301160150	Mullica River (Pleasant Mills to 39d40m30s)	DDT IN FISH TISSUE	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160150-01	HUC02040301160150	Mullica River (Pleasant Mills to 39d40m30s)	PCBS IN FISH TISSUE	Atsion Lake	2010	Fish Consumption	L	Low
14	02040301160150-01	HUC02040301160150	Mullica River (Pleasant Mills to 39d40m30s)	PH	01409411, NNEWESTM	2002	Aquatic Life General		Medium
14	02040301160030-01	HUC02040301160030	Mullica River (Rt 206 to Jackson Road)	ARSENIC	01409384	2016	Public Water Supply		Low
14	02040301160030-01	HUC02040301160030	Mullica River (Rt 206 to Jackson Road)	DDT IN FISH TISSUE	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160030-01	HUC02040301160030	Mullica River (Rt 206 to Jackson Road)	PCBS IN FISH TISSUE	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160030-01	HUC02040301160030	Mullica River (Rt 206 to Jackson Road)	PH	MMUDIKES, MMUGOSHN	2014	Aquatic Life General		Medium
14	02040301170060-01	HUC02040301170060	Mullica River (Rt 563 to Batsto River)	ARSENIC	01409525	2012	Public Water Supply	A	Low
14	02040301170060-01	HUC02040301170060	Mullica River (Rt 563 to Batsto River)	MERCURY IN FISH TISSUE	Mullica River between Green Bank and Batsto	2006	Fish Consumption		Low
14	02040301170060-01	HUC02040301170060	Mullica River (Rt 563 to Batsto River)	PCBS IN FISH TISSUE	Mullica River between Green Bank and Batsto	2006	Fish Consumption	L	Low
14	02040301170130-01	HUC02040301170130	Mullica River (Turtle Ck to Lower BankRd)	MERCURY IN FISH TISSUE	Mullica River between Green Bank and Batsto	2006	Fish Consumption		Low
14	02040301170130-01	HUC02040301170130	Mullica River (Turtle Ck to Lower BankRd)	PCBS IN FISH TISSUE	Mullica River between Green Bank and Batsto	2006	Fish Consumption	L	Low
1	02040105160070-01	HUC02040105160070	Musconetcong R (below Warren Glen)	ARSENIC	01457400	2012	Public Water Supply		Low
1	02040105160020-01	HUC02040105160020	Musconetcong R (Changewater to HancesBk)	ARSENIC	01456200	1998	Public Water Supply		Low
1	02040105160020-01	HUC02040105160020	Musconetcong R (Changewater to HancesBk)	PH	GDD5/SDD5	2014	Aquatic Life General		Medium
1	02040105160010-01	HUC02040105160010	Musconetcong R (Hances Bk thru Trout Bk)	ARSENIC	01456200	1998	Public Water Supply		Low
1	02040105160010-01	HUC02040105160010	Musconetcong R (Hances Bk thru Trout Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0070	2016	Aquatic Life General, Aquatic Life Trout		Low
1	02040105160010-01	HUC02040105160010	Musconetcong R (Hances Bk thru Trout Bk)	TEMPERATURE	01456210	2014	Aquatic Life Trout		Medium
1	02040105150080-01	HUC02040105150080	Musconetcong R (SaxtonFalls to Waterloo)	ARSENIC	01456200	1998	Public Water Supply		Low
1	02040105150100-01	HUC02040105150100	Musconetcong R (Trout Bk to SaxtonFalls)	ARSENIC	01456200	1998	Public Water Supply		Low
1	02040105150100-01	HUC02040105150100	Musconetcong R (Trout Bk to SaxtonFalls)	BIOLOGICAL-CAUSE UNKNOWN	AN0068	2016	Aquatic Life General, Aquatic Life Trout		Low
1	02040105150100-01	HUC02040105150100	Musconetcong R (Trout Bk to SaxtonFalls)	PH	GDU1/SDU1	2014	Aquatic Life General		Medium
1	02040105160060-01	HUC02040105160060	Musconetcong R (Warren Glen to I-78)	ARSENIC	01457120	2012	Public Water Supply		Low
1	02040105150070-01	HUC02040105150070	Musconetcong R (Waterloo to/incl WillsBk)	BIOLOGICAL-CAUSE UNKNOWN		2014	Aquatic Life General, Aquatic Life Trout		Low
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	ESCHERICHIA COLI (E. COLI)	01455500	2004	Recreation		Medium
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	MERCURY IN FISH TISSUE	Lake Musconetcong	2012	Fish Consumption		High
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	PCBS IN FISH TISSUE	Lake Musconetcong	2012	Fish Consumption	L	Low
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	PH	01455500, MSA1	2002	Aquatic Life General		Medium

1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	TEMPERATURE	01455500	2002	Aquatic Life Trout		Medium
17	02040206200020-01	HUC02040206200020	Muskee Creek	ARSENIC	01412120	2012	Public Water Supply	A	Low
17	02040206200020-01	HUC02040206200020	Muskee Creek	MERCURY IN WATER COLUMN	01412120	2008	Public Water Supply		Low
17	02040206200020-01	HUC02040206200020	Muskee Creek	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100060-01	HUC02040206100060	Nantuxent Creek (above Newport Landing)	PCBS IN FISH TISSUE	Cedarville Ponds,Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100070-01	HUC02040206100070	Nantuxent Creek (below Newport Landing)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	ARSENIC	01407538	2016	Public Water Supply		Low
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	DDT IN FISH TISSUE	Navesink River (At Red Bank)	2006	Fish Consumption	L	Low
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	BIOLOGICAL-CAUSE UNKNOWN	AN0462	2016	Aquatic Life General		Low
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	PCBS IN FISH TISSUE	Navesink River (At Red Bank)	2006	Fish Consumption	L	Low
12	02030104070120-01	HUC02030104070120	Navesink R mouth	DDT IN FISH TISSUE	Navesink River at Fairhaven,Shrewsbury River at	2010	Fish Consumption	L	Low
12	02030104070120-01	HUC02030104070120	Navesink R mouth	DISSOLVED OXYGEN	1020B	2006	Aquatic Life General		Medium
12	02030104070120-01	HUC02030104070120	Navesink R mouth	MERCURY IN FISH TISSUE	Navesink River at Fairhaven,Shrewsbury River at	2010	Fish Consumption		Low
12	02030104070120-01	HUC02030104070120	Navesink R mouth	PCBS IN FISH TISSUE	Navesink River at Fairhaven,Shrewsbury River at	2006	Fish Consumption	L	Low
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	ARSENIC	01398000	2006	Public Water Supply		Low
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	ESCHERICHIA COLI (E. COLI)	01398000, 01398060, 01398065	2014	Recreation	R	Low
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	BIOLOGICAL-CAUSE UNKNOWN	NR10	2016	Aquatic Life General		Medium
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	ARSENIC	01398000	2006	Public Water Supply		Low
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	DISSOLVED OXYGEN	NR1	2010	Aquatic Life General		Low
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	BIOLOGICAL-CAUSE UNKNOWN	NR05	2016	Aquatic Life General		Medium
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	PH	01398000, NR1	2008	Aquatic Life General		Medium
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	TURBIDITY	01398000	2016	Aquatic Life General		Medium
17	02040206110070-01	HUC02040206110070	New England Creek (Kenny Pt to Elder Pt)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
11	02040105230030-01	HUC02040105230030	New Sharon Branch (Assunpink Creek)	ESCHERICHIA COLI (E. COLI)	MCHD-4	2014	Recreation		Low
11	02040105230030-01	HUC02040105230030	New Sharon Branch (Assunpink Creek)	BIOLOGICAL-CAUSE UNKNOWN	AN0109B	2016	Aquatic Life General		Medium
11	02040105230030-01	HUC02040105230030	New Sharon Branch (Assunpink Creek)	PHOSPHORUS, TOTAL	MCHD-4	2002	Aquatic Life General		Medium
1	02040105070020-01	HUC02040105070020	New Wawayanda Lake/Andover Pond trib	CHLORDANE IN FISH TISSUE	Lake Aeroflex	2014	Fish Consumption	L	Low
1	02040105070020-01	HUC02040105070020	New Wawayanda Lake/Andover Pond trib	BIOLOGICAL-CAUSE UNKNOWN	AN0036	2012	Aquatic Life General		Low
1	02040105070020-01	HUC02040105070020	New Wawayanda Lake/Andover Pond trib	MERCURY IN FISH TISSUE	Lake Aeroflex	2014	Fish Consumption		High
1	02040105070020-01	HUC02040105070020	New Wawayanda Lake/Andover Pond trib	PCBS IN FISH TISSUE	Lake Aeroflex	2014	Fish Consumption	L	Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	BENZO[A]PYRENE (PAHS)	Newark Bay	2008	Fish Consumption		Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	CHLORDANE IN FISH TISSUE	Weequahic Lake	2006	Fish Consumption	L	Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	DDT IN FISH TISSUE	Weequahic Lake	2012	Fish Consumption	L	Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	DIELDRIN	Newark Bay	2008	Fish Consumption	L	Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	DIOXIN IN FISH TISSUE	Weequahic Lake	2006	Fish Consumption		Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	HEPTACHLOR EPOXIDE	Newark Bay	2012	Fish Consumption	L	Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	HEXACHLOROBENZENE	Newark Bay	2012	Fish Consumption		Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	MERCURY IN FISH TISSUE	Weequahic Lake	2006	Fish Consumption		Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	PCBS IN FISH TISSUE	Weequahic Lake	2006	Fish Consumption	L	Low
7	02030104010010-01	HUC02030104010010	Newark Airport Peripheral Ditch	PHOSPHORUS, TOTAL	Weequahic_Lake-07	2008	Aquatic Life General		Medium
17	02040206110010-01	HUC02040206110010	Newport Neck (Nantuxent to Beadons Ck)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
18	02040202120090-01	HUC02040202120090	Newton Creek (LDRV-Kaighn Ave to LT Ck)	ARSENIC	01467312	2008	Public Water Supply		Low
18	02040202120090-01	HUC02040202120090	Newton Creek (LDRV-Kaighn Ave to LT Ck)	CHLORDANE IN FISH TISSUE	Newton Creek, North (at Mt Ephriam Ave),Newton Lake,Haddon Lake	2008	Fish Consumption	L	Low
18	02040202120090-01	HUC02040202120090	Newton Creek (LDRV-Kaighn Ave to LT Ck)	DDT IN FISH TISSUE	Newton Creek, North (at Mt Ephriam Ave),Newton Lake,Haddon Lake	2010	Fish Consumption	L	Low
18	02040202120090-01	HUC02040202120090	Newton Creek (LDRV-Kaighn Ave to LT Ck)	ESCHERICHIA COLI (E. COLI)	01467312, Newton Creek at Route 130, Newton Creek near mouth	2008	Recreation		Medium
18	02040202120090-01	HUC02040202120090	Newton Creek (LDRV-Kaighn Ave to LT Ck)	PCBS IN FISH TISSUE	Newton Creek, North (at Mt Ephriam Ave),Newton Lake,Haddon Lake	2008	Fish Consumption	L	Low

18	02040202120090-01	HUC02040202120090	Newton Creek (LDRV-Kaighn Ave to LT Ck)	PHOSPHORUS, TOTAL	01467312, Newton Creek at Route 130, Newton Creek near mouth	2004	Aquatic Life General		Medium
7	02030104050050-01	HUC02030104050050	Nomahegan Brook	ARSENIC	01394600	2016	Public Water Supply		Low
7	02030104050050-01	HUC02030104050050	Nomahegan Brook	BIOLOGICAL-CAUSE UNKNOWN	WANOMA2, WANOMA4, WANOMA5, WANOMA6	2016	Aquatic Life General		Low
7	02030104050050-01	HUC02030104050050	Nomahegan Brook	PHOSPHORUS, TOTAL	01394600	2016	Aquatic Life General		Medium
20	02040201040060-01	HUC02040201040060	North Run (above Wrightstown bypass)	ARSENIC	01464380	2008	Public Water Supply		Low
20	02040201040060-01	HUC02040201040060	North Run (above Wrightstown bypass)	PHOSPHORUS, TOTAL	01464380	2006	Aquatic Life General		Medium
12	02030104070090-01	HUC02030104070090	Nut Swamp Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0464	2008	Aquatic Life General		Low
9	02030105130030-01	HUC02030105130030	Oakeys Brook	ARSENIC	01404400	2016	Public Water Supply		Low
9	02030105130030-01	HUC02030105130030	Oakeys Brook	ESCHERICHIA COLI (E. COLI)	01404400	2016	Recreation		Medium
13	02040301070060-01	HUC02040301070060	Old Hurricane Brook (above 74d22m30s)	BIOLOGICAL-CAUSE UNKNOWN	AN0531	2012	Aquatic Life General		Low
18	02040202160010-01	HUC02040202160010	Oldmans Creek (above Commissioners Rd)	ARSENIC	01477440	2012	Public Water Supply		Low
18	02040202160060-01	HUC02040202160060	Oldmans Creek (below Center Sq Rd)	PCBS IN FISH TISSUE	Oldmans Creek @ Rt 130 Bridge, Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202160060-01	HUC02040202160060	Oldmans Creek (below Center Sq Rd)	TURBIDITY	Oldmans Creek at Route 130	2016	Aquatic Life General		Medium
18	02040202160050-01	HUC02040202160050	Oldmans Creek (Center Sq Rd to KingsHwy)	ARSENIC	01477510	2016	Public Water Supply		Low
18	02040202160050-01	HUC02040202160050	Oldmans Creek (Center Sq Rd to KingsHwy)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202160050-01	HUC02040202160050	Oldmans Creek (Center Sq Rd to KingsHwy)	TOTAL SUSPENDED SOLIDS (TSS)	01477520	2006	Aquatic Life General		Medium
18	02040202160030-01	HUC02040202160030	Oldmans Creek (Kings Hwy to Rt 45)	ARSENIC	01477510	2016	Public Water Supply		Low
19	02040202020020-01	HUC02040202020020	Ong Run / Jacks Run	PH	01465965, NJARANGE, NJW04459-094, NJW04459-169, NJW04459-197, NJLM-0627	2004	Aquatic Life General		Medium
17	02040206110030-01	HUC02040206110030	Oranoaken Creek	DISSOLVED OXYGEN	R45	2006	Aquatic Life General		Medium
17	02040206110030-01	HUC02040206110030	Oranoaken Creek	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
14	02040301180020-01	HUC02040301180020	Oswego River (above Rt 539)	ARSENIC	01409880	2012	Public Water Supply		Low
14	02040301180020-01	HUC02040301180020	Oswego River (above Rt 539)	DISSOLVED OXYGEN	01409880	2008	Aquatic Life General		Medium
14	02040301180020-01	HUC02040301180020	Oswego River (above Rt 539)	TOTAL SUSPENDED SOLIDS (TSS)	01409880	2012	Aquatic Life General		Medium
14	02040301180060-01	HUC02040301180060	Oswego River (Andrews Rd to Sim Place Resv)	PCBS IN FISH TISSUE	Lake Oswego	2010	Fish Consumption	L	Low
14	02040301180040-01	HUC02040301180040	Oswego River (Sim Place Resv to Rt 539)	ARSENIC	01409880	2012	Public Water Supply		Low
14	02040301180040-01	HUC02040301180040	Oswego River (Sim Place Resv to Rt 539)	DISSOLVED OXYGEN	01409880	2008	Aquatic Life General		Medium
14	02040301180040-01	HUC02040301180040	Oswego River (Sim Place Resv to Rt 539)	TOTAL SUSPENDED SOLIDS (TSS)	01409880	2012	Aquatic Life General		Medium
5	02030103180040-01	HUC02030103180040	Overpeck Creek	CHLORDANE IN FISH TISSUE	Overpeck Creek Lake,Overpeck Creek (at	2006	Fish Consumption	L	Low
5	02030103180040-01	HUC02030103180040	Overpeck Creek	DDT IN FISH TISSUE	Overpeck Creek Lake,Overpeck Creek (at	2006	Fish Consumption	L	Low
5	02030103180040-01	HUC02030103180040	Overpeck Creek	DIOXIN IN FISH TISSUE	Overpeck Creek Lake,Overpeck Creek (at	2006	Fish Consumption		Low
5	02030103180040-01	HUC02030103180040	Overpeck Creek	ESCHERICHIA COLI (E. COLI)	01378583	2006	Recreation		Low
5	02030103180040-01	HUC02030103180040	Overpeck Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0212, FIBI508	2016	Aquatic Life General		Medium
5	02030103180040-01	HUC02030103180040	Overpeck Creek	PCBS IN FISH TISSUE	Overpeck Creek Lake,Overpeck Creek (at	2006	Fish Consumption	L	Low
17	02040206150030-01	HUC02040206150030	Palatine Branch (Muddy Run)	BIOLOGICAL-CAUSE UNKNOWN	AN0743, AN0744	2008	Aquatic Life General		Low
2	02020007020070-01	HUC02020007020070	Papakating Ck (below Pellettown)	BIOLOGICAL-CAUSE UNKNOWN	AN0307	2008	Aquatic Life General		Low
2	02020007020030-01	HUC02020007020030	Papakating Ck (Pellettown-Frankford Plns)	BIOLOGICAL-CAUSE UNKNOWN	AN0304	2006	Aquatic Life General		Low
18	02040202140030-01	HUC02040202140030	Pargay Creek	ESCHERICHIA COLI (E. COLI)	01476625, 01476640	2008	Recreation		Low
18	02040202140030-01	HUC02040202140030	Pargay Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0676, AN0677	2016	Aquatic Life General		Medium
18	02040202140030-01	HUC02040202140030	Pargay Creek	PHOSPHORUS, TOTAL	01476625, 01476640	2008	Aquatic Life General		Medium
19	02040202080010-01	HUC02040202080010	Parkers Creek (above Marne Highway)	PHOSPHORUS, TOTAL	01467011	2006	Aquatic Life General		Medium
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	DDT IN FISH TISSUE	Wampum Lake,Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	MERCURY IN FISH TISSUE	Wampum Lake,Shrewsbury River at Oceanport	2006	Fish Consumption		Low
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	PCBS IN FISH TISSUE	Wampum Lake,Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	PH	MCHD-32	2006	Aquatic Life General		Medium
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	PHOSPHORUS, TOTAL	MCHD-32, MCHD-33, NJW04459-222	2002	Aquatic Life General		Medium
17	02040206080030-01	HUC02040206080030	Parsonage Run / Foster Run	ARSENIC	01412710	2012	Public Water Supply		Low
17	02040206080030-01	HUC02040206080030	Parsonage Run / Foster Run	BIOLOGICAL-CAUSE UNKNOWN	AN0711	2016	Aquatic Life General		Low
17	02040206080030-01	HUC02040206080030	Parsonage Run / Foster Run	MERCURY IN WATER COLUMN	01412710	2012	Public Water Supply		Low

17	02040206080030-01	HUC02040206080030	Parsonage Run / Foster Run	TOTAL SUSPENDED SOLIDS (TSS)	01412710	2010	Aquatic Life General		Medium
17	02040206140070-01	HUC02040206140070	Parvin Branch / Tarkiln Branch	BIOLOGICAL-CAUSE UNKNOWN	AN0750	2006	Aquatic Life General		Low
5	02030103170010-01	HUC02030103170010	Pascack Brook (above Westwood gage)	ARSENIC	01377358	2012	Public Water Supply		Low
5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	ARSENIC	01377499, 01377500	2004	Public Water Supply		Low
5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	DISSOLVED OXYGEN	MB001, MB002, MB004, MB005	2010	Aquatic Life General		Low
5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0206, AN0207, FIBI060	2016	Aquatic Life General		Medium
5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	PH	MB001, MB005, MB006	2010	Aquatic Life General		Medium
5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	TOTAL DISSOLVED SOLIDS (TDS)	01377500	2006	Public Water Supply		Medium
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	ARSENIC	Passaic River - Tidal	2002	Fish Consumption		Low
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	BENZO[A]PYRENE (PAHS)	Passaic River-Tidal	2008	Fish Consumption		Low
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	CHLORDANE IN FISH TISSUE	Passaic River by Kearny,Branch Brook Park Lake,Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	DDT IN FISH TISSUE	Passaic River by Kearny,Branch Brook Park Lake,Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	DIELDRIN	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	DIOXIN IN FISH TISSUE	Passaic River by Kearny,Branch Brook Park Lake,Passaic River-Tidal	2006	Fish Consumption		Low
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	HEPTACHLOR EPOXIDE	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	PCBS IN FISH TISSUE	Passaic River by Kearny,Branch Brook Park Lake,Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	ARSENIC	01389895	2006	Public Water Supply		Low
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	CHLORDANE IN FISH TISSUE	Dundee Lake,Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	DDT IN FISH TISSUE	Dundee Lake,Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	ESCHERICHIA COLI (E. COLI)	01389880	2014	Recreation		Medium
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	MERCURY IN FISH TISSUE	Dundee Lake,Passaic River at Elmwood Park	2006	Fish Consumption		Low
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	PCBS IN FISH TISSUE	Dundee Lake,Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	PH	NJHDG-4	2014	Aquatic Life General		Medium
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	ARSENIC	01389895	2006	Public Water Supply		Low
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	CHLORDANE IN FISH TISSUE	Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	DDT IN FISH TISSUE	Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	BIOLOGICAL-CAUSE UNKNOWN	AN0278, FIBI503	2016	Aquatic Life General		Low
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	MERCURY IN FISH TISSUE	Passaic River at Elmwood Park	2006	Fish Consumption		Low
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	PCBS IN FISH TISSUE	Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	PH	NJHDG-3	2014	Aquatic Life General		Medium
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	ARSENIC	01389500	1998	Public Water Supply		Low
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	CHLORDANE IN FISH TISSUE	Passaic River at Elmwood Park	2010	Fish Consumption	L	Low
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	DDT IN FISH TISSUE	Passaic River at Elmwood Park	2010	Fish Consumption	L	Low
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	BIOLOGICAL-CAUSE UNKNOWN	AN0274	2016	Aquatic Life General		Low
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	MERCURY IN FISH TISSUE	Passaic River at Elmwood Park	2010	Fish Consumption		Low
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	PCBS IN FISH TISSUE	Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	PH	NJHDG-2	2014	Aquatic Life General		Medium
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	ARSENIC	01389130	1998	Public Water Supply		Low
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	CHLORDANE IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2008	Fish Consumption	L	Low
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	DDT IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2006	Fish Consumption	L	Low
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	MERCURY IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2006	Fish Consumption		Low
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	PCBS IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2006	Fish Consumption	L	Low
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	PH	01389005, 01389400	2014	Aquatic Life General		Medium
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	ARSENIC	Passaic River - Tidal	2014	Fish Consumption		Low
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	BENZO[A]PYRENE (PAHS)	Passaic River-Tidal	2008	Fish Consumption		Low
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	CHLORDANE IN FISH TISSUE	Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	DDT IN FISH TISSUE	Passaic River-Tidal	2012	Fish Consumption	L	Low

4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	DIELDRIN	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	DIOXIN IN FISH TISSUE	Passaic River-Tidal	2006	Fish Consumption		Low
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	HEPTACHLOR EPOXIDE	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	BIOLOGICAL-CAUSE UNKNOWN	NB205	2014	Aquatic Life General		Low
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	PCBS IN FISH TISSUE	Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	ARSENIC	01389895	1998	Public Water Supply		Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	BENZO[A]PYRENE (PAHS)	Passaic River-Tidal	2008	Fish Consumption		Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	CHLORDANE IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	DDT IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	DIELDRIN	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	DIOXIN IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2006	Fish Consumption		Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	HEPTACHLOR EPOXIDE	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	BIOLOGICAL-CAUSE UNKNOWN	AN0292O	2016	Aquatic Life General		Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	PCBS IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	PH	NJHDG-5	2012	Aquatic Life General		Medium
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	PHOSPHORUS, TOTAL	NJHDG-5, Passaic1	2006	Aquatic Life General		Medium
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	ARSENIC	Passaic River - Tidal	2006	Public Water Supply		Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	BENZO[A]PYRENE (PAHS)	Passaic River-Tidal	2008	Fish Consumption		Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	CHLORDANE IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	DDT IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	DIELDRIN	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	DIOXIN IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2006	Fish Consumption		Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	HEPTACHLOR EPOXIDE	Passaic River-Tidal	2008	Fish Consumption	L	Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	PCBS IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	PH	NJHDG-7	2014	Aquatic Life General		Medium
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	PHOSPHORUS, TOTAL	NJHDG-7, NJHDG-8	2014	Aquatic Life General		Medium
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	TOTAL SUSPENDED SOLIDS (TSS)	NJHDG-7, NJHDG-8	2012	Aquatic Life General		Medium
6	02030103010130-01	HUC02030103010130	Passaic R Upr (40d 45m to Snyder Ave)	ARSENIC	01379500	1998	Public Water Supply		Low
6	02030103010130-01	HUC02030103010130	Passaic R Upr (40d 45m to Snyder Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0229, AN0230, NJS11-153	2016	Aquatic Life General		Low
6	02030103010130-01	HUC02030103010130	Passaic R Upr (40d 45m to Snyder Ave)	TOTAL SUSPENDED SOLIDS (TSS)	01379500	2006	Aquatic Life General		Medium
6	02030103010010-01	HUC02030103010010	Passaic R Upr (above Osborn Mills)	BIOLOGICAL-CAUSE UNKNOWN	AN0213	2016	Aquatic Life General, Aquatic Life Trout		Low
6	02030103010010-01	HUC02030103010010	Passaic R Upr (above Osborn Mills)	PH	NPS-FRBT, NPS-IG1, NPS-PR1	2014	Aquatic Life General		Medium
6	02030103010010-01	HUC02030103010010	Passaic R Upr (above Osborn Mills)	TEMPERATURE	FIBI095, NPS-PR1, NPS-PR2	2016	Aquatic Life Trout		Medium
6	02030103010150-01	HUC02030103010150	Passaic R Upr (Columbia Rd to 40d 45m)	ARSENIC	01379500	2006	Public Water Supply		Low
6	02030103010150-01	HUC02030103010150	Passaic R Upr (Columbia Rd to 40d 45m)	BIOLOGICAL-CAUSE UNKNOWN	AN0231A	2016	Aquatic Life General		Low
6	02030103010150-01	HUC02030103010150	Passaic R Upr (Columbia Rd to 40d 45m)	TOTAL SUSPENDED SOLIDS (TSS)	01379500	2006	Aquatic Life General		Medium
6	02030103010070-01	HUC02030103010070	Passaic R Upr (Dead R to Osborn Mills)	ARSENIC	01379000	1998	Public Water Supply		Low
6	02030103010070-01	HUC02030103010070	Passaic R Upr (Dead R to Osborn Mills)	DISSOLVED OXYGEN	PA2	2010	Aquatic Life General		Low
6	02030103010070-01	HUC02030103010070	Passaic R Upr (Dead R to Osborn Mills)	BIOLOGICAL-CAUSE UNKNOWN	AN0224	2016	Aquatic Life General		Medium
6	02030103010160-01	HUC02030103010160	Passaic R Upr (HanoverRR to ColumbiaRd)	DISSOLVED OXYGEN	PA5	2016	Aquatic Life General		Medium
6	02030103010160-01	HUC02030103010160	Passaic R Upr (HanoverRR to ColumbiaRd)	TOTAL DISSOLVED SOLIDS (TDS)	01379580	2004	Public Water Supply		Medium
6	02030103010160-01	HUC02030103010160	Passaic R Upr (HanoverRR to ColumbiaRd)	TOTAL SUSPENDED SOLIDS (TSS)	01379580	2006	Aquatic Life General		Medium
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	ARSENIC	01382000	2006	Public Water Supply		Low
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	CHLORDANE IN FISH TISSUE	Passaic River Great Piece	2006	Fish Consumption	L	Low
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	DDT IN FISH TISSUE	Passaic River Great Piece	2006	Fish Consumption	L	Low
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	MERCURY IN FISH TISSUE	Passaic River Great Piece	2014	Fish Consumption		Low
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	PCBS IN FISH TISSUE	Passaic River Great Piece	2006	Fish Consumption	L	Low
6	02030103010110-01	HUC02030103010110	Passaic R Upr (Plainfield Rd to Dead R)	ARSENIC	01379300, 01379500	2006	Public Water Supply		Low
6	02030103010110-01	HUC02030103010110	Passaic R Upr (Plainfield Rd to Dead R)	DISSOLVED OXYGEN	PA3	2008	Aquatic Life General		Low
6	02030103010110-01	HUC02030103010110	Passaic R Upr (Plainfield Rd to Dead R)	BIOLOGICAL-CAUSE UNKNOWN	AN0228	2016	Aquatic Life General		Medium

6	02030103010110-01	HUC02030103010110	Passaic R Upr (Plainfield Rd to Dead R)	TOTAL SUSPENDED SOLIDS (TSS)	01379500	2006	Aquatic Life General		Medium
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	ARSENIC	01382000	1998	Public Water Supply		Low
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	CHLORDANE IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2006	Fish Consumption	L	Low
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	DDT IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2006	Fish Consumption	L	Low
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0274A	2016	Aquatic Life General		Low
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	MERCURY IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2006	Fish Consumption		Low
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	PCBS IN FISH TISSUE	Passaic River Great Piece,Passaic River at Pompton	2008	Fish Consumption	L	Low
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	CHLORDANE IN FISH TISSUE	Passaic River at Hatfield Swamp	2006	Fish Consumption	L	Low
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	DDT IN FISH TISSUE	Passaic River at Hatfield Swamp	2006	Fish Consumption	L	Low
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	DISSOLVED OXYGEN	PA5	2010	Aquatic Life General		Low
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	BIOLOGICAL-CAUSE UNKNOWN	AN0231	2016	Aquatic Life General		Medium
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	PCBS IN FISH TISSUE	Passaic River at Hatfield Swamp	2006	Fish Consumption	L	Low
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	TOTAL DISSOLVED SOLIDS (TDS)	01379580	2004	Public Water Supply		Medium
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	TOTAL SUSPENDED SOLIDS (TSS)	01379580	2006	Aquatic Life General		Medium
6	02030103010120-01	HUC02030103010120	Passaic R Upr (Snyder to Plainfield Rd)	ARSENIC	01379300, 01379500	2006	Public Water Supply		Low
6	02030103010120-01	HUC02030103010120	Passaic R Upr (Snyder to Plainfield Rd)	DISSOLVED OXYGEN	PA3	2008	Aquatic Life General		Medium
6	02030103010120-01	HUC02030103010120	Passaic R Upr (Snyder to Plainfield Rd)	TOTAL SUSPENDED SOLIDS (TSS)	01379500	2006	Aquatic Life General		Medium
1	02040105040060-01	HUC02040105040060	Paulins Kill (above Rt 15)	DISSOLVED OXYGEN	01443250	2004	Aquatic Life General		Low
1	02040105040060-01	HUC02040105040060	Paulins Kill (above Rt 15)	BIOLOGICAL-CAUSE UNKNOWN	AN0015	2016	Aquatic Life General, Aquatic Life Trout		Medium
1	02040105040060-01	HUC02040105040060	Paulins Kill (above Rt 15)	PHOSPHORUS, TOTAL	01443250	2004	Aquatic Life General		Medium
1	02040105050050-01	HUC02040105050050	Paulins Kill (below Blairstown gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0032	2016	Aquatic Life General, Aquatic Life Trout		Low
1	02040105050050-01	HUC02040105050050	Paulins Kill (below Blairstown gage)	MERCURY IN FISH TISSUE	Columbia Lake	2012	Fish Consumption		High
1	02040105050050-01	HUC02040105050050	Paulins Kill (below Blairstown gage)	PCBS IN FISH TISSUE	Columbia Lake	2012	Fish Consumption	L	Low
1	02040105050050-01	HUC02040105050050	Paulins Kill (below Blairstown gage)	TEMPERATURE	01443500, AN0027	2004	Aquatic Life Trout		Medium
1	02040105050010-01	HUC02040105050010	Paulins Kill (Blairstown to Stillwater)	MERCURY IN FISH TISSUE	White Lake	2012	Fish Consumption		High
1	02040105050010-01	HUC02040105050010	Paulins Kill (Blairstown to Stillwater)	PCBS IN FISH TISSUE	White Lake	2012	Fish Consumption	L	Low
1	02040105050010-01	HUC02040105050010	Paulins Kill (Blairstown to Stillwater)	TEMPERATURE	01443500	2002	Aquatic Life Trout		Medium
1	02040105040080-01	HUC02040105040080	Paulins Kill (PK Lk outlet to Dry Brook)	ARSENIC	01443441	2004	Public Water Supply		Low
1	02040105040090-01	HUC02040105040090	Paulins Kill (Stillwater Vil to PK Lake)	BIOLOGICAL-CAUSE UNKNOWN	AN0022	2016	Aquatic Life General, Aquatic Life Trout		Low
1	02040105040090-01	HUC02040105040090	Paulins Kill (Stillwater Vil to PK Lake)	TEMPERATURE	01443500	2002	Aquatic Life Trout		Medium
8	02030105060050-01	HUC02030105060050	Peapack Brook (above/incl Gladstone Bk)	ESCHERICHIA COLI (E. COLI)	BFBM000092	2016	Recreation		Low
8	02030105060050-01	HUC02030105060050	Peapack Brook (above/incl Gladstone Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0349, PB01	2014	Aquatic Life General, Aquatic Life Trout		Medium
8	02030105060060-01	HUC02030105060060	Peapack Brook (below Gladstone Brook)	BIOLOGICAL-CAUSE UNKNOWN	PB07	2014	Aquatic Life General, Aquatic Life Trout		Low
4	02030103120010-01	HUC02030103120010	Peckman River (above CG Res trib)	BIOLOGICAL-CAUSE UNKNOWN	AN0275A	2008	Aquatic Life General		Low
4	02030103120020-01	HUC02030103120020	Peckman River (below CG Res trib)	BIOLOGICAL-CAUSE UNKNOWN	AN0275, NJS11-110	2016	Aquatic Life General		Low
4	02030103120020-01	HUC02030103120020	Peckman River (below CG Res trib)	PCBS IN FISH TISSUE	Passic R at Pompton, Passic R at Hatfield Swamp	2006	Fish Consumption	L	Low
19	02040202040020-01	HUC02040202040020	Pemberton / Ft Dix trib (NB Rancocas Ck)	ESCHERICHIA COLI (E. COLI)	BFBM000046	2012	Recreation		Low
19	02040202040020-01	HUC02040202040020	Pemberton / Ft Dix trib (NB Rancocas Ck)	BIOLOGICAL-CAUSE UNKNOWN	AN0150	2006	Aquatic Life General		Medium
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	ARSENIC	01467082	2006	Public Water Supply		Low
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	CHLORDANE IN FISH TISSUE	Pennsauken Creek,Pennsauken Creek @ Forked Landing	2006	Fish Consumption	L	Low
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	DDT IN FISH TISSUE	Pennsauken Creek,Pennsauken Creek @ Forked Landing	2006	Fish Consumption	L	Low
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	DISSOLVED OXYGEN	01467082	2008	Aquatic Life General		Medium
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	ESCHERICHIA COLI (E. COLI)	BFBM000056	2012	Recreation		Medium
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	LEAD	01467082	1998	Public Water Supply		Low
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	PCBS IN FISH TISSUE	Pennsauken Creek,Pennsauken Creek @ Forked Landing	2006	Fish Consumption	L	Low
18	02040202100060-01	HUC02040202100060	Pennsauken Ck (below NB / SB)	PHOSPHORUS, TOTAL	01467082, Pennsauken Creek near mouth	2002	Aquatic Life General		Medium

18	02040202100010-01	HUC02040202100010	Pennsauken Ck NB (above NJTPK)	ARSENIC	01467069	2014	Public Water Supply		Low
18	02040202100010-01	HUC02040202100010	Pennsauken Ck NB (above NJTPK)	BIOLOGICAL-CAUSE UNKNOWN	FIBI057	2014	Aquatic Life General		Low
18	02040202100010-01	HUC02040202100010	Pennsauken Ck NB (above NJTPK)	PHOSPHORUS, TOTAL	01467069	2016	Aquatic Life General		Medium
18	02040202100030-01	HUC02040202100030	Pennsauken Ck NB (below Strawbridge Lk)	ARSENIC	01467069	2006	Public Water Supply		Low
18	02040202100030-01	HUC02040202100030	Pennsauken Ck NB (below Strawbridge Lk)	ESCHERICHIA COLI (E. COLI)	01467069	2016	Recreation		Medium
18	02040202100030-01	HUC02040202100030	Pennsauken Ck NB (below Strawbridge Lk)	PHOSPHORUS, TOTAL	01467069	2016	Aquatic Life General		Medium
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	ARSENIC	01467069	1998	Public Water Supply		Low
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	CHLORDANE IN FISH TISSUE	Strawbridge Lake at Moorestown	2008	Fish Consumption	L	Low
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	DDT IN FISH TISSUE	Strawbridge Lake at Moorestown	2008	Fish Consumption	L	Low
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	PCBS IN FISH TISSUE	Strawbridge Lake at Moorestown	2008	Fish Consumption	L	Low
18	02040202100040-01	HUC02040202100040	Pennsauken Ck SB (above Rt 41)	ARSENIC	01467080, 01467075	1998	Public Water Supply		Low
18	02040202100040-01	HUC02040202100040	Pennsauken Ck SB (above Rt 41)	DISSOLVED OXYGEN	Penn-SBPCB	2008	Aquatic Life General		Low
18	02040202100040-01	HUC02040202100040	Pennsauken Ck SB (above Rt 41)	BIOLOGICAL-CAUSE UNKNOWN	AN0182	2016	Aquatic Life General		Medium
18	02040202100040-01	HUC02040202100040	Pennsauken Ck SB (above Rt 41)	PHOSPHORUS, TOTAL	01467080, Penn-SBPC2, Penn-SBPC3, Penn-SBPCB	2006	Aquatic Life General		Medium
18	02040202100050-01	HUC02040202100050	Pennsauken Ck SB (below Rt 41)	ARSENIC	01467080, 0146708130, 01467075	2006	Public Water Supply		Low
18	02040202100050-01	HUC02040202100050	Pennsauken Ck SB (below Rt 41)	BIOLOGICAL-CAUSE UNKNOWN	AN0183	2016	Aquatic Life General		Low
18	02040202100050-01	HUC02040202100050	Pennsauken Ck SB (below Rt 41)	PHOSPHORUS, TOTAL	01467080, 0146708130, Penn-SBPC4	2006	Aquatic Life General		Medium
18	02040202100050-01	HUC02040202100050	Pennsauken Ck SB (below Rt 41)	TOTAL SUSPENDED SOLIDS (TSS)	01467081	2006	Aquatic Life General		Medium
15	02040302030070-01	HUC02040302030070	Penny Pot Stream (GEHR)	PH	UPENN8TH	2006	Aquatic Life General		Medium
3	02030103050030-01	HUC02030103050030	Pequannock R (above OakRidge Res outlet)	ARSENIC	01382170	2012	Public Water Supply		Low
3	02030103050030-01	HUC02030103050030	Pequannock R (above OakRidge Res outlet)	DISSOLVED OXYGEN	01382210	2014	Aquatic Life Trout		Medium
3	02030103050030-01	HUC02030103050030	Pequannock R (above OakRidge Res outlet)	ESCHERICHIA COLI (E. COLI)	01382170	2012	Recreation		Medium
3	02030103050010-01	HUC02030103050010	Pequannock R (above Stockholm/Vernon Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0258	2016	Aquatic Life Trout		Low
3	02030103050080-01	HUC02030103050080	Pequannock R (below Macopin gage)	CHLORDANE IN FISH TISSUE	Pompton R at Pequannock R, Also called Ramapo R at Pompton Plains	2008	Fish Consumption	L	Low
3	02030103050080-01	HUC02030103050080	Pequannock R (below Macopin gage)	DDT IN FISH TISSUE	Pompton R at Pequannock R, Also called Ramapo R at Pompton Plains	2006	Fish Consumption	L	Low
3	02030103050080-01	HUC02030103050080	Pequannock R (below Macopin gage)	PCBS IN FISH TISSUE	Pompton R at Pequannock R, Also called Ramapo R at Pompton Plains	2008	Fish Consumption	L	Low
3	02030103050050-01	HUC02030103050050	Pequannock R (Charlotteburg to OakRidge)	ARSENIC	01382310	2012	Public Water Supply		Low
3	02030103050050-01	HUC02030103050050	Pequannock R (Charlotteburg to OakRidge)	DISSOLVED OXYGEN	01382310	2012	Aquatic Life Trout		Low
3	02030103050050-01	HUC02030103050050	Pequannock R (Charlotteburg to OakRidge)	BIOLOGICAL-CAUSE UNKNOWN	AN0261	2016	Aquatic Life General		Medium
3	02030103050060-01	HUC02030103050060	Pequannock R (Macopin gage to Charl'brg)	BIOLOGICAL-CAUSE UNKNOWN	AN0263	2012	Aquatic Life General, Aquatic Life Trout		Low
1	02040105070030-01	HUC02040105070030	Pequest R (above Brighton)	DISSOLVED OXYGEN	NJW04459-089	2010	Aquatic Life General, Aquatic Life Trout		Low
1	02040105070030-01	HUC02040105070030	Pequest R (above Brighton)	BIOLOGICAL-CAUSE UNKNOWN	AN0035, NJS11-165	2016	Aquatic Life General, Aquatic Life Trout		Medium
1	02040105090060-01	HUC02040105090060	Pequest R (below Furnace Brook)	ARSENIC	01446400	1998	Public Water Supply		Low
1	02040105090060-01	HUC02040105090060	Pequest R (below Furnace Brook)	PH	01446400, 1978_BCP	2014	Aquatic Life General		Medium
1	02040105090030-01	HUC02040105090030	Pequest R (Furnace Bk to Cemetary Road)	BIOLOGICAL-CAUSE UNKNOWN	FIBI003	2014	Aquatic Life General, Aquatic Life Trout		Low
1	02040105070040-01	HUC02040105070040	Pequest R (Trout Brook to Brighton)	ESCHERICHIA COLI (E. COLI)	01444990	2008	Recreation		Medium
1	02040105070040-01	HUC02040105070040	Pequest R (Trout Brook to Brighton)	PH	NJW04459-263	2014	Aquatic Life General		Medium
9	02030105080010-01	HUC02030105080010	Peters Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0376, FIBI025	2006	Aquatic Life General		Low
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	ARSENIC	01407090	2012	Public Water Supply		Low
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	CHLORDANE IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	DDT IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	DISSOLVED OXYGEN	R66	2016	Aquatic Life General		Low
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	BIOLOGICAL-CAUSE UNKNOWN	AN0461	2016	Aquatic Life General		Medium
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	MERCURY IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption		Low

12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	PCBS IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	PHOSPHORUS, TOTAL	01407090	2010	Aquatic Life General		Medium
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
17	02040206070090-01	HUC02040206070090	Phillips Creek / Jacobs Creek	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
10	02030105110080-01	HUC02030105110080	Pike Run (above Cruser Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0402	2008	Aquatic Life General		Low
10	02030105110100-01	HUC02030105110100	Pike Run (below Cruser Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0404, PR1	2016	Aquatic Life General		Low
12	02030104070080-01	HUC02030104070080	Pine Brook / Hockhockson Brook	ARSENIC	01407520	2012	Public Water Supply		Low
12	02030104070080-01	HUC02030104070080	Pine Brook / Hockhockson Brook	PHOSPHORUS, TOTAL	MCHD-34, MCHD-75	2014	Aquatic Life General		Medium
12	02030104070080-01	HUC02030104070080	Pine Brook / Hockhockson Brook	TEMPERATURE	AN0475	2012	Aquatic Life Trout		Medium
17	02040206090090-01	HUC02040206090090	Pine Mount Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0717	2008	Aquatic Life General		Low
14	02040301180030-01	HUC02040301180030	Plains Branch (Oswego River)	ARSENIC	01409930	2016	Public Water Supply		Low
8	02030105040020-01	HUC02030105040020	Pleasant Run	ESCHERICHIA COLI (E. COLI)	01398090	2006	Recreation	R	Low
8	02030105040020-01	HUC02030105040020	Pleasant Run	BIOLOGICAL-CAUSE UNKNOWN	AN0340, PR16	2006	Aquatic Life General		Medium
11	02040105200050-01	HUC02040105200050	Plum Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0092, FIBI035	2016	Aquatic Life General, Aquatic Life Trout		Low
1	02040105140010-01	HUC02040105140010	Pohatcong Ck (above Rt 31)	TEMPERATURE	01455135	2004	Aquatic Life Trout		Medium
1	02040105140070-01	HUC02040105140070	Pohatcong Ck (below Springtown) incl UDRV	PHOSPHORUS, TOTAL	DRBCNJ0027	2004	Aquatic Life General		Medium
1	02040105140020-01	HUC02040105140020	Pohatcong Ck (Brass Castle Ck to Rt 31)	ARSENIC	01455200	2012	Public Water Supply		Low
1	02040105140020-01	HUC02040105140020	Pohatcong Ck (Brass Castle Ck to Rt 31)	TOTAL SUSPENDED SOLIDS (TSS)	01455200	2008	Aquatic Life General		Medium
1	02040105140030-01	HUC02040105140030	Pohatcong Ck (Edison Rd-Brass Castle Ck)	ARSENIC	01455200	2012	Public Water Supply		Low
1	02040105140030-01	HUC02040105140030	Pohatcong Ck (Edison Rd-Brass Castle Ck)	BIOLOGICAL-CAUSE UNKNOWN	AN0057, AN0058	2016	Aquatic Life General		Low
1	02040105140030-01	HUC02040105140030	Pohatcong Ck (Edison Rd-Brass Castle Ck)	PH	01455200	2002	Aquatic Life General		Medium
1	02040105140030-01	HUC02040105140030	Pohatcong Ck (Edison Rd-Brass Castle Ck)	PHOSPHORUS, TOTAL	01455200	2002	Aquatic Life General		Medium
1	02040105140030-01	HUC02040105140030	Pohatcong Ck (Edison Rd-Brass Castle Ck)	TOTAL SUSPENDED SOLIDS (TSS)	01455200	2008	Aquatic Life General		Medium
1	02040105140050-01	HUC02040105140050	Pohatcong Ck (Merrill Ck to Edison Rd)	ARSENIC	01455200	2012	Public Water Supply		Low
1	02040105140050-01	HUC02040105140050	Pohatcong Ck (Merrill Ck to Edison Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0058	2016	Aquatic Life General, Aquatic Life Trout		Low
1	02040105140050-01	HUC02040105140050	Pohatcong Ck (Merrill Ck to Edison Rd)	PH	01455200	2008	Aquatic Life General		Medium
1	02040105140050-01	HUC02040105140050	Pohatcong Ck (Merrill Ck to Edison Rd)	PHOSPHORUS, TOTAL	01455200	2002	Aquatic Life General		Medium
1	02040105140050-01	HUC02040105140050	Pohatcong Ck (Merrill Ck to Edison Rd)	TOTAL SUSPENDED SOLIDS (TSS)	01455200	2008	Aquatic Life General		Medium
1	02040105140060-01	HUC02040105140060	Pohatcong Ck (Springtown to Merrill Ck)	ARSENIC	01455240	2012	Public Water Supply		Low
19	02040202030060-01	HUC02040202030060	Pole Bridge Br (CountryLk dam - Co line)	DISSOLVED OXYGEN	01466130	2014	Aquatic Life General		Medium
18	02040202090020-01	HUC02040202090020	Pompeston Creek (above Rt 130)	DISSOLVED OXYGEN	PM_003	2010	Aquatic Life General		Medium
18	02040202090020-01	HUC02040202090020	Pompeston Creek (above Rt 130)	ESCHERICHIA COLI (E. COLI)	PM002, PM003	2008	Recreation		Medium
18	02040202090020-01	HUC02040202090020	Pompeston Creek (above Rt 130)	PH	PM_002	2010	Aquatic Life General		Medium
18	02040202090020-01	HUC02040202090020	Pompeston Creek (above Rt 130)	PHOSPHORUS, TOTAL	PM_002, PM_003	2008	Aquatic Life General		Medium
18	02040202090030-01	HUC02040202090030	Pompeston Creek (below Rt130/Swede to 40d)	ESCHERICHIA COLI (E. COLI)	BFBM000034	2012	Recreation		Low
18	02040202090030-01	HUC02040202090030	Pompeston Creek (below Rt130/Swede to 40d)	BIOLOGICAL-CAUSE UNKNOWN	AN0177	2006	Aquatic Life General		Medium
18	02040202090030-01	HUC02040202090030	Pompeston Creek (below Rt130/Swede to 40d)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
3	02030103110020-01	HUC02030103110020	Pompton River	CHLORDANE IN FISH TISSUE	Passaic River at Pompton	2008	Fish Consumption	L	Low
3	02030103110020-01	HUC02030103110020	Pompton River	DDT IN FISH TISSUE	Passaic River at Pompton	2006	Fish Consumption	L	Low
3	02030103110020-01	HUC02030103110020	Pompton River	ESCHERICHIA COLI (E. COLI)	01388500, 01388850	2008	Recreation		Low
3	02030103110020-01	HUC02030103110020	Pompton River	BIOLOGICAL-CAUSE UNKNOWN	AN0270	2012	Aquatic Life General		Medium
3	02030103110020-01	HUC02030103110020	Pompton River	LEAD	01388500	1998	Public Water Supply		Low
3	02030103110020-01	HUC02030103110020	Pompton River	PCBS IN FISH TISSUE	Passaic River at Pompton	2008	Fish Consumption	L	Low
16	02040206230070-01	HUC02040206230070	Pond Creek / Cape May Canal West	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
11	02040105240040-01	HUC02040105240040	Pond Run	BIOLOGICAL-CAUSE UNKNOWN	AN0574	2016	Aquatic Life General		Low
11	02040105240040-01	HUC02040105240040	Pond Run	TOTAL SUSPENDED SOLIDS (TSS)	01463920	2006	Aquatic Life General		Medium
11	02040105240040-01	HUC02040105240040	Pond Run	TURBIDITY	01463920	2010	Aquatic Life General		Medium
12	02030104090020-01	HUC02030104090020	Poplar Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0478	2016	Aquatic Life General		Low
12	02030104090020-01	HUC02030104090020	Poplar Brook	PHOSPHORUS, TOTAL	01407630	2002	Aquatic Life General		Medium

12	02030104070100-01	HUC02030104070100	Poricy Bk/Swimming R(below SwimmingR Rd)	DDT IN FISH TISSUE	Navesink River at Fairhaven	2006	Fish Consumption	L	Low
12	02030104070100-01	HUC02030104070100	Poricy Bk/Swimming R(below SwimmingR Rd)	DISSOLVED OXYGEN	MCHD-41, R03	2006	Aquatic Life General		Medium
12	02030104070100-01	HUC02030104070100	Poricy Bk/Swimming R(below SwimmingR Rd)	PCBS IN FISH TISSUE	Navesink River at Fairhaven	2006	Fish Consumption	L	Low
8	02030105050050-01	HUC02030105050050	Pottersville trib (Lamington River)	TEMPERATURE	01399520	2012	Aquatic Life Trout		Medium
4	02030103120030-01	HUC02030103120030	Preakness Brook / Naachtpunkt Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0272, AN0273	2006	Aquatic Life General		Low
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	ARSENIC	01397160	2012	Public Water Supply		Low
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	DISSOLVED OXYGEN	RV-1, RV-2, RV-3	2016	Aquatic Life Trout		Medium
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	ESCHERICHIA COLI (E. COLI)	01397160	2012	Recreation		Medium
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	PCBS IN FISH TISSUE	Round Valley Reservoir	2016	Fish Consumption	L	Low
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	TEMPERATURE	NLA06608-0333, RV-1, RV-2, RV-3	2016	Aquatic Life Trout		Medium
6	02030103010020-01	HUC02030103010020	Primrose Brook	ARSENIC	01378780	2012	Public Water Supply		Low
6	02030103010020-01	HUC02030103010020	Primrose Brook	DISSOLVED OXYGEN	NPS-CSP, PB2	2010	Aquatic Life Trout		Medium
6	02030103010020-01	HUC02030103010020	Primrose Brook	PH	NPS-CSP, NPS-JB2, NPS-WP1, NPS-WP2, PB1, PB2, PRB	2010	Aquatic Life General		Medium
6	02030103010020-01	HUC02030103010020	Primrose Brook	TEMPERATURE	NPS-CSP, PB2, PRB	2010	Aquatic Life Trout		Medium
6	02030103010020-01	HUC02030103010020	Primrose Brook	TURBIDITY	PRB	2012	Aquatic Life General		Medium
14	02040301160070-01	HUC02040301160070	Pump Branch (above 74d53m road)	BIOLOGICAL-CAUSE UNKNOWN	AN0569	2016	Aquatic Life General		Low
14	02040301160070-01	HUC02040301160070	Pump Branch (above 74d53m road)	PH	01409408	2002	Aquatic Life General		Medium
14	02040301160080-01	HUC02040301160080	Pump Branch (below 74d53m road)	BIOLOGICAL-CAUSE UNKNOWN	AN0569	2016	Aquatic Life General		Low
14	02040301160080-01	HUC02040301160080	Pump Branch (below 74d53m road)	PH	01409408, NPUHALUW, NPUMDIKE	2002	Aquatic Life General		Medium
2	02020007030020-01	HUC02020007030020	Quarryville Brook	TEMPERATURE	BFBM000188	2014	Aquatic Life Trout		Medium
18	02040202150060-01	HUC02040202150060	Raccoon Ck (below Swedesboro rd)/BirchCk	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2014	Fish Consumption	L	Low
18	02040202150020-01	HUC02040202150020	Raccoon Ck (Rt 45 to/incl Clems Run)	ARSENIC	01477110	2016	Public Water Supply		Low
18	02040202150020-01	HUC02040202150020	Raccoon Ck (Rt 45 to/incl Clems Run)	PH	0147710950	2014	Aquatic Life General		Medium
18	02040202150020-01	HUC02040202150020	Raccoon Ck (Rt 45 to/incl Clems Run)	PHOSPHORUS, TOTAL	0147710950	2010	Aquatic Life General		Medium
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	ARSENIC	01477110, 01477120, 01477125	2006	Public Water Supply		Low
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	CHLORDANE IN FISH TISSUE	Raccoon Creek at Swedesboro	2006	Fish Consumption	L	Low
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	DDT IN FISH TISSUE	Raccoon Creek at Swedesboro	2006	Fish Consumption	L	Low
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	PCBS IN FISH TISSUE	Raccoon Creek at Swedesboro	2006	Fish Consumption	L	Low
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	PH	0147710950	2014	Aquatic Life General		Medium
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	PHOSPHORUS, TOTAL	0147710950, 01477120, 01477125	2002	Aquatic Life General		Medium
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	TURBIDITY	01477120	2006	Aquatic Life General		Medium
18	02040202150050-01	HUC02040202150050	Raccoon Ck (Swedesboro rd-RussellMillRd)	ARSENIC	01477125	2016	Public Water Supply		Low
18	02040202150050-01	HUC02040202150050	Raccoon Ck (Swedesboro rd-RussellMillRd)	PHOSPHORUS, TOTAL	01477125, NJW04459-148	2014	Aquatic Life General		Medium
18	02040202150030-01	HUC02040202150030	Raccoon Ck SB	BIOLOGICAL-CAUSE UNKNOWN	AN0682	2014	Aquatic Life General		Low
17	02040206070070-01	HUC02040206070070	Raccoon Ditch (Stow Creek)	DISSOLVED OXYGEN	R51	2012	Aquatic Life General		Medium
17	02040206070070-01	HUC02040206070070	Raccoon Ditch (Stow Creek)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	BENZO[A]PYRENE (PAHS)	NY Harbor Tributaries	2008	Fish Consumption		Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	CHLORDANE IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption	L	Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	DDT IN FISH TISSUE	New York Harbor Tribs	2012	Fish Consumption	L	Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	DIELDRIN	Arthur Kill, NY Harbor Tributaries	2008	Fish Consumption	L	Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	DIOXIN IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption		Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	HEPTACHLOR EPOXIDE	NY Harbor Tributaries	2012	Fish Consumption	L	Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	HEXACHLOROBENZENE	NY Harbor Tributaries	2012	Fish Consumption		Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	MERCURY IN FISH TISSUE	New York Harbor Tribs	2010	Fish Consumption		Low
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	PCBS IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption	L	Low
7	02030104050040-01	HUC02030104050040	Rahway River (Kenilworth Blvd to EB / WB)	ARSENIC	01394500	2006	Public Water Supply		Low
7	02030104050040-01	HUC02030104050040	Rahway River (Kenilworth Blvd to EB / WB)	CHLORIDE	01394180	2016	Public Water Supply		Low
7	02030104050040-01	HUC02030104050040	Rahway River (Kenilworth Blvd to EB / WB)	BIOLOGICAL-CAUSE UNKNOWN	AN0193, AN0194, NJPB-138	2016	Aquatic Life General		Medium
7	02030104050040-01	HUC02030104050040	Rahway River (Kenilworth Blvd to EB / WB)	PHOSPHORUS, TOTAL	01394180, 01394500	2004	Aquatic Life General		Medium
7	02030104050040-01	HUC02030104050040	Rahway River (Kenilworth Blvd to EB / WB)	TOTAL DISSOLVED SOLIDS (TDS)	01394180, 01394500	2016	Public Water Supply		Medium
7	02030104050060-01	HUC02030104050060	Rahway River (Robinsons Br to KenilworthBlvd)	ARSENIC	01395000	2004	Public Water Supply		Low

7	02030104050060-01	HUC02030104050060	Rahway River (Robinsons Br to KenilworthBlvd)	DISSOLVED OXYGEN	NJW04459-044, NJW04459-250	2010	Aquatic Life General		Low
7	02030104050060-01	HUC02030104050060	Rahway River (Robinsons Br to KenilworthBlvd)	BIOLOGICAL-CAUSE UNKNOWN	AN0195, FIBI019	2016	Aquatic Life General		Medium
7	02030104050060-01	HUC02030104050060	Rahway River (Robinsons Br to KenilworthBlvd)	MERCURY IN FISH TISSUE	Rahway R at Valley Road Pond	2008	Fish Consumption		Low
7	02030104050060-01	HUC02030104050060	Rahway River (Robinsons Br to KenilworthBlvd)	PHOSPHORUS, TOTAL	01394630, 01395000, NJW04459-044, NJW04459-250, NJW04459-281	2002	Aquatic Life General		Medium
7	02030104050020-01	HUC02030104050020	Rahway River EB	BIOLOGICAL-CAUSE UNKNOWN	FIBI504, WAEAST1	2016	Aquatic Life General		Low
7	02030104050090-01	HUC02030104050090	Rahway River SB	CHLORIDE	01396023	2016	Public Water Supply		Low
7	02030104050090-01	HUC02030104050090	Rahway River SB	DIOXIN IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption		Medium
7	02030104050090-01	HUC02030104050090	Rahway River SB	BIOLOGICAL-CAUSE UNKNOWN	AN0200, AN0201, FIBI017a, NJPB-108	2016	Aquatic Life General		Low
7	02030104050090-01	HUC02030104050090	Rahway River SB	PCBS IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption	L	Low
7	02030104050090-01	HUC02030104050090	Rahway River SB	PHOSPHORUS, TOTAL	01396023, 01396030	2004	Aquatic Life General		Medium
7	02030104050090-01	HUC02030104050090	Rahway River SB	TOTAL DISSOLVED SOLIDS (TDS)	01396023, 01396030	2006	Public Water Supply		Medium
7	02030104050010-01	HUC02030104050010	Rahway River WB	BIOLOGICAL-CAUSE UNKNOWN	AN0192	2016	Aquatic Life General		Low
7	02030104050010-01	HUC02030104050010	Rahway River WB	PHOSPHORUS, TOTAL	01393960, NJW04459-052	2002	Aquatic Life General		Medium
7	02030104050010-01	HUC02030104050010	Rahway River WB	SULFATE	01393960	2006	Public Water Supply		Low
7	02030104050010-01	HUC02030104050010	Rahway River WB	TOTAL DISSOLVED SOLIDS (TDS)	01393960	2002	Public Water Supply		Medium
3	02030103100010-01	HUC02030103100010	Ramapo R (above 74d 11m 00s)	DISSOLVED OXYGEN	RA1	2010	Aquatic Life General		Low
3	02030103100010-01	HUC02030103100010	Ramapo R (above 74d 11m 00s)	BIOLOGICAL-CAUSE UNKNOWN	AN0266	2016	Aquatic Life General		Medium
3	02030103100030-01	HUC02030103100030	Ramapo R (above Fyke Bk to 74d 11m 00s)	TEMPERATURE	BFBM000189	2014	Aquatic Life Trout		Medium
3	02030103100040-01	HUC02030103100040	Ramapo R (Bear Swamp Bk thru Fyke Bk)	PH	NJW04459-240	2010	Aquatic Life General		Medium
3	02030103100040-01	HUC02030103100040	Ramapo R (Bear Swamp Bk thru Fyke Bk)	TEMPERATURE	BFBM000190	2016	Aquatic Life Trout		Medium
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	CHLORDANE IN FISH TISSUE	Ramapo River at Pompton Feeder,Pompton	2008	Fish Consumption	L	Low
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	DDT IN FISH TISSUE	Ramapo River at Pompton Feeder,Pompton	2008	Fish Consumption	L	Low
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	BIOLOGICAL-CAUSE UNKNOWN	AN0267	2016	Aquatic Life General		Low
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	MERCURY IN FISH TISSUE	Ramapo River at Pompton Feeder,Pompton	2010	Fish Consumption		Low
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	PCBS IN FISH TISSUE	Ramapo River at Pompton Feeder,Pompton	2010	Fish Consumption	L	Low
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	PH	01388000, 01388100, DROUGHT5, PRTMDL-RA3	2004	Aquatic Life General		Medium
3	02030103100050-01	HUC02030103100050	Ramapo R (Crystal Lk br to BearSwamp Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0267	2016	Aquatic Life General, Aquatic Life Trout		Low
3	02030103100050-01	HUC02030103100050	Ramapo R (Crystal Lk br to BearSwamp Bk)	PH	01387700	2016	Aquatic Life General		Medium
3	02030103100050-01	HUC02030103100050	Ramapo R (Crystal Lk br to BearSwamp Bk)	TEMPERATURE	01387700	2014	Aquatic Life Trout		Medium
19	02040202080050-01	HUC02040202080050	Rancocas Ck (below Rt 130)	MERCURY IN FISH TISSUE	Rancocas Creek at Riverside, Delaware River Tribs to Head of Tide	2014	Fish Consumption		Low
19	02040202080050-01	HUC02040202080050	Rancocas Ck (below Rt 130)	PCBS IN FISH TISSUE	Rancocas Creek at Riverside, Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202080020-01	HUC02040202080020	Rancocas Ck (Martins Beach to NB/SB)	DISSOLVED OXYGEN	RCW-M1	2014	Aquatic Life General		Medium
19	02040202080020-01	HUC02040202080020	Rancocas Ck (Martins Beach to NB/SB)	ESCHERICHIA COLI (E. COLI)	BFBM000020	2012	Recreation		Medium
19	02040202080020-01	HUC02040202080020	Rancocas Ck (Martins Beach to NB/SB)	MERCURY IN FISH TISSUE	Rancocas Creek at Centerton. Delaware River Tribs to Head of Tide	2014	Fish Consumption		Low
19	02040202080020-01	HUC02040202080020	Rancocas Ck (Martins Beach to NB/SB)	PCBS IN FISH TISSUE	Rancocas Creek at Centerton. Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202080020-01	HUC02040202080020	Rancocas Ck (Martins Beach to NB/SB)	PHOSPHORUS, TOTAL	01467011, RCW-M1	2004	Aquatic Life General		Medium
19	02040202080040-01	HUC02040202080040	Rancocas Ck (Rt 130 to Martins Beach)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202040050-01	HUC02040202040050	Rancocas Ck NB (below Smithville)	ARSENIC	01467005	2004	Public Water Supply		Low
19	02040202040050-01	HUC02040202040050	Rancocas Ck NB (below Smithville)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202040050-01	HUC02040202040050	Rancocas Ck NB (below Smithville)	PHOSPHORUS, TOTAL	01467005, RCW-N1, RCW-N3	2002	Aquatic Life General		Medium
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	ARSENIC	01465950	2012	Public Water Supply	A	Low
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	CHLORDANE IN FISH TISSUE	Mirror Lake	2012	Fish Consumption	L	Low
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	COPPER	01465950	1998	Aquatic Life General		Low
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	DDT IN FISH TISSUE	Mirror Lake	2012	Fish Consumption	L	Low
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	ESCHERICHIA COLI (E. COLI)	01465970	2016	Recreation		Medium

19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	LEAD	01465950	1998	Public Water Supply		Low
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	MERCURY IN FISH TISSUE	Mirror Lake	2008	Fish Consumption		Low
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	PCBS IN FISH TISSUE	Mirror Lake	2012	Fish Consumption	L	Low
19	02040202020030-01	HUC02040202020030	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	PH	01465970, NJLM-0627	2002	Aquatic Life General		Medium
19	02040202020040-01	HUC02040202020040	Rancocas Ck NB (NL dam to Mirror Lk)	ARSENIC	01465950, 01467000	2014	Public Water Supply		Low
19	02040202020040-01	HUC02040202020040	Rancocas Ck NB (NL dam to Mirror Lk)	COPPER	01409416, 19-RA-1N, 19-RA-3N	1998	Aquatic Life General		Low
19	02040202020040-01	HUC02040202020040	Rancocas Ck NB (NL dam to Mirror Lk)	ESCHERICHIA COLI (E. COLI)	01465970	2006	Recreation		Medium
19	02040202020040-01	HUC02040202020040	Rancocas Ck NB (NL dam to Mirror Lk)	MERCURY IN FISH TISSUE	Mirror Lake	2012	Fish Consumption		Low
19	02040202020040-01	HUC02040202020040	Rancocas Ck NB (NL dam to Mirror Lk)	PH	01465970, RCW-NBRanc1	2002	Aquatic Life General		Medium
19	02040202040010-01	HUC02040202040010	Rancocas Ck NB (Pemberton br to NL dam)	ARSENIC	01467000	2008	Public Water Supply		Low
19	02040202040010-01	HUC02040202040010	Rancocas Ck NB (Pemberton br to NL dam)	COPPER	01467000	1998	Aquatic Life General		Low
19	02040202040010-01	HUC02040202040010	Rancocas Ck NB (Pemberton br to NL dam)	PH	RCW-NBRanc1	2014	Aquatic Life General		Medium
19	02040202040030-01	HUC02040202040030	Rancocas Ck NB (Rt 206 to Pemberton br)	ARSENIC	01467000, 01467005	2006	Public Water Supply		Low
19	02040202040030-01	HUC02040202040030	Rancocas Ck NB (Rt 206 to Pemberton br)	COPPER	01467000	1998	Aquatic Life General		Low
19	02040202040030-01	HUC02040202040030	Rancocas Ck NB (Rt 206 to Pemberton br)	ESCHERICHIA COLI (E. COLI)	01467005	2016	Recreation		Medium
19	02040202040030-01	HUC02040202040030	Rancocas Ck NB (Rt 206 to Pemberton br)	PHOSPHORUS, TOTAL	01467005, RCW-IR1, RCW-NBRanc2, RCW-NBRanc3,	2006	Aquatic Life General		Medium
19	02040202040040-01	HUC02040202040040	Rancocas Ck NB (Smithville to Rt 206)	ARSENIC	01467005	2006	Public Water Supply		Low
19	02040202040040-01	HUC02040202040040	Rancocas Ck NB (Smithville to Rt 206)	ESCHERICHIA COLI (E. COLI)	01467005	2016	Recreation		Medium
19	02040202040040-01	HUC02040202040040	Rancocas Ck NB (Smithville to Rt 206)	PHOSPHORUS, TOTAL	0146700350, 01467005, RCW-PR1, RCW-PRB	2006	Aquatic Life General		Medium
19	02040202040040-01	HUC02040202040040	Rancocas Ck NB (Smithville to Rt 206)	TURBIDITY	RCW-PRB	2014	Aquatic Life General		Medium
19	02040202050060-01	HUC02040202050060	Rancocas Ck SB (above Friendship Ck)	ARSENIC	01465835	2008	Public Water Supply		Low
19	02040202050060-01	HUC02040202050060	Rancocas Ck SB (above Friendship Ck)	ESCHERICHIA COLI (E. COLI)	01465835	2008	Recreation		Medium
19	02040202050060-01	HUC02040202050060	Rancocas Ck SB (above Friendship Ck)	PCBS IN FISH TISSUE	Rancocas Tributary between Vincetown/Buddtown	2006	Fish Consumption	L	Low
19	02040202050060-01	HUC02040202050060	Rancocas Ck SB (above Friendship Ck)	PHOSPHORUS, TOTAL	01465835	2008	Aquatic Life General		Medium
19	02040202070030-01	HUC02040202070030	Rancocas Ck SB (below Rt 38)	ARSENIC	01465915	2006	Public Water Supply		Low
19	02040202070030-01	HUC02040202070030	Rancocas Ck SB (below Rt 38)	DISSOLVED OXYGEN	01465915	2012	Aquatic Life General		Low
19	02040202070030-01	HUC02040202070030	Rancocas Ck SB (below Rt 38)	ESCHERICHIA COLI (E. COLI)	01465915	2006	Recreation		Medium
19	02040202070030-01	HUC02040202070030	Rancocas Ck SB (below Rt 38)	BIOLOGICAL-CAUSE UNKNOWN	AN0172, AN0173	2016	Aquatic Life General		Medium
19	02040202070030-01	HUC02040202070030	Rancocas Ck SB (below Rt 38)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202070030-01	HUC02040202070030	Rancocas Ck SB (below Rt 38)	PHOSPHORUS, TOTAL	01465915	2002	Aquatic Life General		Medium
19	02040202050090-01	HUC02040202050090	Rancocas Ck SB (BobbysRun to Vincentown)	ARSENIC	01465854, 01465915	2006	Public Water Supply		Low
19	02040202050090-01	HUC02040202050090	Rancocas Ck SB (BobbysRun to Vincentown)	DISSOLVED OXYGEN	01465915	2016	Aquatic Life General		Medium
19	02040202050090-01	HUC02040202050090	Rancocas Ck SB (BobbysRun to Vincentown)	PCBS IN FISH TISSUE	Rancocas Tributary between Vincetown/Buddtown	2006	Fish Consumption	L	Low
19	02040202050090-01	HUC02040202050090	Rancocas Ck SB (BobbysRun to Vincentown)	PH	RCW-SB1	2002	Aquatic Life General		Medium
19	02040202050090-01	HUC02040202050090	Rancocas Ck SB (BobbysRun to Vincentown)	PHOSPHORUS, TOTAL	01465850, 01465854, 01465915, RCW-SB2, RCW-SBRanc1, RCW-SBRanc2	2006	Aquatic Life General		Medium
19	02040202070020-01	HUC02040202070020	Rancocas Ck SB (Rt 38 to Bobbys Run)	ARSENIC	01465915	2004	Public Water Supply		Low
19	02040202070020-01	HUC02040202070020	Rancocas Ck SB (Rt 38 to Bobbys Run)	DISSOLVED OXYGEN	01465915	2012	Aquatic Life General		Medium
19	02040202070020-01	HUC02040202070020	Rancocas Ck SB (Rt 38 to Bobbys Run)	ESCHERICHIA COLI (E. COLI)	01465915	2006	Recreation		Medium
19	02040202070020-01	HUC02040202070020	Rancocas Ck SB (Rt 38 to Bobbys Run)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202070020-01	HUC02040202070020	Rancocas Ck SB (Rt 38 to Bobbys Run)	PHOSPHORUS, TOTAL	01465915	2002	Aquatic Life General		Medium
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	ARSENIC	01465835	2008	Public Water Supply		Low
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	DISSOLVED OXYGEN	NJW04459-015	2008	Aquatic Life General		Medium
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	ESCHERICHIA COLI (E. COLI)	01465835	2008	Recreation		Medium
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	PCBS IN FISH TISSUE	Rancocas Tributary between Vincetown/Buddtown	2006	Fish Consumption	L	Low
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	PHOSPHORUS, TOTAL	01465835, 01465838, NJW04459-015	2006	Aquatic Life General		Medium
19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	ARSENIC	01465857	2008	Public Water Supply		Low
19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	BIOLOGICAL-CAUSE UNKNOWN	AN0162	2016	Aquatic Life General		Low
19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	NITRATE	SBR3	2008	Public Water Supply		Medium
19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	PH	SBR2, SBR3, WSOHARTF	2008	Aquatic Life General		Medium
19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	PHOSPHORUS, TOTAL	01465857, SBR0, SBR2, SBR3	2006	Aquatic Life General		Medium

19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	TOTAL SUSPENDED SOLIDS (TSS)	SBR0	2008	Aquatic Life General		Medium
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	ARSENIC	01465887, 01465882	2004	Public Water Supply		Low
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	DISSOLVED OXYGEN	01465887, RCW-SR1, RCW-SRB	2008	Aquatic Life General		Low
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	BIOLOGICAL-CAUSE UNKNOWN	AN0170	2016	Aquatic Life General		Medium
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	PH	01465882, RCW-SWBRanc1	2008	Aquatic Life General		Medium
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	PHOSPHORUS, TOTAL	01465882, 01465884, 01465887, 01465900, RCW-SR1, RCW-SRB, RCW-SWBRanc1	2006	Aquatic Life General		Medium
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	BENZO[A]PYRENE (PAHS)	Raritan Bay-1 thru 7	2008	Fish Consumption		Low
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	CHLORDANE IN FISH TISSUE	Raritan Bay @ Keansburg,Sandy Hook Bay, Raritan Bay-1	2006	Fish Consumption	L	Low
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	DDT IN FISH TISSUE	Raritan Bay @ Keansburg,Sandy Hook Bay, Raritan Bay-1	2012	Fish Consumption	L	Low
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	DIELDRIN	Raritan Bay-1 thru 7	2008	Fish Consumption	L	Low
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	DIOXIN IN FISH TISSUE	Raritan Bay @ Keansburg,Sandy Hook Bay, Raritan Bay-1	2006	Fish Consumption		Low
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	BIOLOGICAL-CAUSE UNKNOWN	RB003,RB011,RB016,RB030,RB032,RB033,RB202,RB211,RB214, RB024, RB027, RB203, RB210, RB216	2014	Aquatic Life General		Low
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	PCBS IN FISH TISSUE	Raritan Bay @ Keansburg,Sandy Hook Bay, Raritan Bay-1	2008	Fish Consumption	L	Low
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	TOTAL COLIFORM	Shellfish Network	2008	Shellfish		Medium
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	BENZO[A]PYRENE (PAHS)	Raritan Bay-1 thru 7	2008	Fish Consumption		Low
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	CHLORDANE IN FISH TISSUE	Raritan River Lower at Union Beach, Raritan Bay-1 thru 7	2006	Fish Consumption	L	Low
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	DDT IN FISH TISSUE	Raritan River Lower at Union Beach, Raritan Bay-1 thru 7	2012	Fish Consumption	L	Low
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	DIELDRIN	Raritan Bay-1 thru 7	2008	Fish Consumption	L	Low
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	DIOXIN IN FISH TISSUE	Raritan River Lower at Union Beach, Raritan Bay-1 thru 7	2006	Fish Consumption		Low
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	DISSOLVED OXYGEN	NJHDG-28, NJHDG-29	2014	Aquatic Life General		Low
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	BIOLOGICAL-CAUSE UNKNOWN	RB019, RB029, RB204, RB208	2016	Aquatic Life General		Medium
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	PCBS IN FISH TISSUE	Raritan River Lower at Union Beach, Raritan Bay-1 thru 7	2006	Fish Consumption	L	Low
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	BENZO[A]PYRENE (PAHS)	Raritan River Estuary	2008	Fish Consumption		Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	CHLORDANE IN FISH TISSUE	Raritan River Upper at Rt 1, Raritan @ Rt 35, Raritan	2008	Fish Consumption	L	Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	DDT IN FISH TISSUE	Raritan River Upper at Rt 1, Raritan @ Rt 35, Raritan	2012	Fish Consumption	L	Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	DIELDRIN	Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	DIOXIN IN FISH TISSUE	Raritan River Upper at Rt 1, Raritan @ Rt 35, Raritan	2006	Fish Consumption		Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	ENTEROCOCCUS	NJHDG-27	2012	Recreation		Medium
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	HEPTACHLOR EPOXIDE	Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	MERCURY IN FISH TISSUE	Raritan River Upper at Rt 1, Raritan @ Rt 35, Raritan	2010	Fish Consumption		Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	PCBS IN FISH TISSUE	Raritan River Upper at Rt 1, Raritan @ Rt 35, Raritan	2006	Fish Consumption	L	Low
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	ARSENIC	01403300	2004	Public Water Supply		Low
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	BENZENE	01403300	2006	Public Water Supply		Low
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	BIOLOGICAL-CAUSE UNKNOWN	AN0427	2016	Aquatic Life General		Low
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	PH	R4	2014	Aquatic Life General		Medium
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	PHOSPHORUS, TOTAL	01403300, 01404100	2002	Aquatic Life General		Medium
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	ARSENIC	01404170	2002	Public Water Supply		Low
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	BENZO[A]PYRENE (PAHS)	Raritan River Estuary	2008	Fish Consumption		Low
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	CHLORDANE IN FISH TISSUE	Raritan River @ Route 1 Bridge, Raritan River Upper at Rt 1, Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	DIELDRIN	Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	DIOXIN IN FISH TISSUE	Raritan River @ Route 1 Bridge, Raritan River Upper at Rt 1, Raritan River Estuary	2008	Fish Consumption		Low
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	ENTEROCOCCUS	NJHDG-26	2012	Recreation		Medium
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	HEPTACHLOR EPOXIDE	Raritan River Estuary	2008	Fish Consumption	L	Low

9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	MERCURY IN FISH TISSUE	Raritan River @ Route 1 Bridge, Raritan River Upper at Rt 1, Raritan River Estuary	2010	Fish Consumption		Low
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	PCBS IN FISH TISSUE	Raritan River @ Route 1 Bridge, Raritan River Upper at Rt 1, Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	PH	01460595	2014	Aquatic Life General		Medium
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	PHOSPHORUS, TOTAL	01404170	2002	Aquatic Life General		Medium
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	TEMPERATURE	01460595	2014	Aquatic Life General		Medium
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	TOTAL SUSPENDED SOLIDS (TSS)	01404170	2006	Aquatic Life General		Medium
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	ARSENIC	01403300, 01404170	2004	Public Water Supply		Low
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	BENZENE	01403300	2006	Public Water Supply		Low
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	BIOLOGICAL-CAUSE UNKNOWN	AN0428	2016	Aquatic Life General		Low
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	PCBS IN FISH TISSUE	Delaware -Raritan Canal @ South Bound Brook	2006	Fish Consumption	L	Low
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	PH	01460595, R4	2014	Aquatic Life General		Medium
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	PHOSPHORUS, TOTAL	01403300, 01404100, 01404170	2006	Aquatic Life General		Medium
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	TEMPERATURE	01460595	2014	Aquatic Life General		Medium
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	TOTAL SUSPENDED SOLIDS (TSS)	01403300, 01404170	2006	Aquatic Life General	R	Medium
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	CHLORDANE IN FISH TISSUE	Raritan River at Millstone Creek	2016	Fish Consumption	L	Low
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	DDT IN FISH TISSUE	Raritan River at Millstone Creek	2016	Fish Consumption	L	Low
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	BIOLOGICAL-CAUSE UNKNOWN	AN0375	2016	Aquatic Life General		Low
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	PCBS IN FISH TISSUE	Raritan River at Millstone Creek	2016	Fish Consumption	L	Low
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	PH	01400500, R1	2010	Aquatic Life General		Medium
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	TEMPERATURE	01400500	2014	Aquatic Life General		Medium
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	TURBIDITY	01400500	2014	Aquatic Life General		Medium
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	CHLORDANE IN FISH TISSUE	FTM012	2016	Fish Consumption	L	Low
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	DDT IN FISH TISSUE	FTM012	2016	Fish Consumption	L	Low
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	PCBS IN FISH TISSUE	FTM012	2016	Fish Consumption	L	Low
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	PH	01400500	2014	Aquatic Life General		Medium
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	TEMPERATURE	01400500	2014	Aquatic Life General		Medium
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	TURBIDITY	01400500	2014	Aquatic Life General		Medium
8	02030105070030-01	HUC02030105070030	Raritan R NB (below Rt 28)	ARSENIC	01400000	2012	Public Water Supply		Low
8	02030105070030-01	HUC02030105070030	Raritan R NB (below Rt 28)	PH	01400000, NBRR7	2012	Aquatic Life General		Medium
8	02030105070030-01	HUC02030105070030	Raritan R NB (below Rt 28)	TURBIDITY	01400000	2016	Aquatic Life General		Medium
8	02030105060030-01	HUC02030105060030	Raritan R NB (incl McVickers to India Bk)	DISSOLVED OXYGEN	NBRR1	2012	Aquatic Life Trout		Low
8	02030105060030-01	HUC02030105060030	Raritan R NB (incl McVickers to India Bk)	BIOLOGICAL-CAUSE UNKNOWN	NB15	2016	Aquatic Life General, Aquatic Life Trout		Medium
8	02030105060030-01	HUC02030105060030	Raritan R NB (incl McVickers to India Bk)	TEMPERATURE	BFBM000220, NBRR1	2010	Aquatic Life Trout		Medium
8	02030105060070-01	HUC02030105060070	Raritan R NB (incl Mine Bk to Peapack Bk)	ARSENIC	01398900	2012	Public Water Supply		Low
8	02030105060070-01	HUC02030105060070	Raritan R NB (incl Mine Bk to Peapack Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0352, AN0353	2008	Aquatic Life General		Low
8	02030105060090-01	HUC02030105060090	Raritan R NB (Lamington R to Mine Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0355A	2016	Aquatic Life General		Low
8	02030105070010-01	HUC02030105070010	Raritan R NB (Rt 28 to Lamington R)	ARSENIC	01399820	2012	Public Water Supply		Low
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	ARSENIC	01396350	2016	Public Water Supply		Low
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	TEMPERATURE	01396270, SBR4	2006	Aquatic Life Trout		Medium
8	02030105010050-01	HUC02030105010050	Raritan R SB (LongValley br to 74d44m15s)	ARSENIC	01396121	2016	Public Water Supply		Low
8	02030105010050-01	HUC02030105010050	Raritan R SB (LongValley br to 74d44m15s)	BIOLOGICAL-CAUSE UNKNOWN	SB02	2014	Aquatic Life General, Aquatic Life Trout		Low
8	02030105010050-01	HUC02030105010050	Raritan R SB (LongValley br to 74d44m15s)	TEMPERATURE	01396121, 01396270	2016	Aquatic Life Trout		Medium
8	02030105040040-01	HUC02030105040040	Raritan R SB (NB to Pleasant Run)	ARSENIC	01398102	1998	Public Water Supply		Low
8	02030105040040-01	HUC02030105040040	Raritan R SB (NB to Pleasant Run)	ESCHERICHIA COLI (E. COLI)	01398102	2016	Recreation		Medium
8	02030105040010-01	HUC02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	ARSENIC	01397415	2006	Public Water Supply		Low
8	02030105040010-01	HUC02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	BIOLOGICAL-CAUSE UNKNOWN	AN0338	2016	Aquatic Life General		Low
8	02030105020080-01	HUC02030105020080	Raritan R SB (Prescott Bk to River Rd)	ARSENIC	01397000	2004	Public Water Supply		Low

8	02030105020080-01	HUC02030105020080	Raritan R SB (Prescott Bk to River Rd)	TEMPERATURE	SBRR8	2006	Aquatic Life Trout		Medium
8	02030105020070-01	HUC02030105020070	Raritan R SB (River Rd to Spruce Run)	PH	SB-1	2016	Aquatic Life General		Medium
8	02030105020070-01	HUC02030105020070	Raritan R SB (River Rd to Spruce Run)	TEMPERATURE	AN0322, SBRR6, SBRR7	2010	Aquatic Life Trout	R	Medium
8	02030105010080-01	HUC02030105010080	Raritan R SB (Spruce Run-StoneMill gage)	TEMPERATURE	01396535	2002	Aquatic Life Trout		Medium
8	02030105010070-01	HUC02030105010070	Raritan R SB (StoneMill gage to Califon)	ARSENIC	01396350	2012	Public Water Supply		Low
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	ARSENIC	01397000	2016	Public Water Supply		Low
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	TEMPERATURE	01397400, SBRR8	2006	Aquatic Life Trout		Medium
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	ARSENIC	BFBM000196	2016	Public Water Supply		Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	BENZO[A]PYRENE (PAHS)	Raritan River Estuary	2008	Fish Consumption		Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	CHLORDANE IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	DDT IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2012	Fish Consumption	L	Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	DIELDRIN	Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	DIOXIN IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2006	Fish Consumption		Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	DISSOLVED OXYGEN	BFBM000196	2016	Aquatic Life General		Medium
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	HEPTACHLOR EPOXIDE	Raritan River Estuary	2008	Fish Consumption	L	Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	LEAD	BFBM000196	2016	Aquatic Life General, Public Water Supply		Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	MERCURY IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2010	Fish Consumption		Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	PCBS IN FISH TISSUE	Raritan Bay at Rt 35, Raritan River Estuary	2006	Fish Consumption	L	Low
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	PH	BFBM000196	2016	Aquatic Life General		Medium
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	PHOSPHORUS, TOTAL	BFBM000196	2016	Aquatic Life General		Medium
9	02030105160090-01	HUC02030105160090	Red Root Creek / Crows Mill Creek	TOTAL SUSPENDED SOLIDS (TSS)	BFBM000196	2016	Aquatic Life General		Medium
15	02040302010010-01	HUC02040302010010	Reeds Bay / Absecon Bay & tribs	DISSOLVED OXYGEN	2301, 2305C, 2306C, 2307B, 2311D, 2400A, 2405B, 2408A, 2412A, 2503	2012	Aquatic Life General		Medium
18	02040202140050-01	HUC02040202140050	Repaupo Ck (belowTomlin Sta Rd)/CedarSwamp	MERCURY IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption		Low
18	02040202140050-01	HUC02040202140050	Repaupo Ck (belowTomlin Sta Rd)/CedarSwamp	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
13	02040301070040-01	HUC02040301070040	Ridgeway Br (below Hope Chapel Rd)	ARSENIC	01408492	2012	Public Water Supply	A	Low
13	02040301070040-01	HUC02040301070040	Ridgeway Br (below Hope Chapel Rd)	PH	01408492	2006	Aquatic Life General		Medium
1	02040105160080-01	HUC02040105160080	Riegelsville (direct Del. R. drainage)	ARSENIC	01457500	2016	Public Water Supply		Low
16	02040206210010-01	HUC02040206210010	Riggins Ditch (Moores Beach to East Pt)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
7	02030104050070-01	HUC02030104050070	Robinsons Br Rahway R (above Lake Ave)	ARSENIC	01395500	2016	Public Water Supply		Low
7	02030104050070-01	HUC02030104050070	Robinsons Br Rahway R (above Lake Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0196, FIBI515	2016	Aquatic Life General		Low
7	02030104050070-01	HUC02030104050070	Robinsons Br Rahway R (above Lake Ave)	PHOSPHORUS, TOTAL	01395500	2008	Aquatic Life General		Medium
7	02030104050080-01	HUC02030104050080	Robinsons Br Rahway R (below Lake Ave)	ARSENIC	01396003	2004	Public Water Supply		Low
7	02030104050080-01	HUC02030104050080	Robinsons Br Rahway R (below Lake Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0197, AN0198, AN0199, FIBI084	2016	Aquatic Life General		Low
7	02030104050080-01	HUC02030104050080	Robinsons Br Rahway R (below Lake Ave)	PHOSPHORUS, TOTAL	01395200, 01395500, 01396003	2002	Aquatic Life General		Medium
10	02030105110070-01	HUC02030105110070	Rock Brook (below Camp Meeting Ave)	ARSENIC	01401595	2012	Public Water Supply		Low
8	02030105050080-01	HUC02030105050080	Rockaway Ck (above McCrea Mills)	ARSENIC	01399565, 01399570	2012	Public Water Supply		Low
8	02030105050080-01	HUC02030105050080	Rockaway Ck (above McCrea Mills)	TEMPERATURE	01399565	2014	Aquatic Life Trout		Medium
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	ARSENIC	01399570	2012	Public Water Supply		Low
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	PH	NBRC1	2010	Aquatic Life General		Medium
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	ESCHERICHIA COLI (E. COLI)	BFBM000016	2012	Recreation		Low
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	BIOLOGICAL-CAUSE UNKNOWN	AN0367, AN0368, RC14	2016	Aquatic Life General, Aquatic Life Trout		Medium
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	TEMPERATURE	01399650	2012	Aquatic Life Trout		Medium
6	02030103030030-01	HUC02030103030030	Rockaway R (above Longwood Lake outlet)	BIOLOGICAL-CAUSE UNKNOWN	AN0240	2016	Aquatic Life General		Low
6	02030103030030-01	HUC02030103030030	Rockaway R (above Longwood Lake outlet)	PH	NJW04459-083	2012	Aquatic Life General		Medium
6	02030103030150-01	HUC02030103030150	Rockaway R (Boonton dam to Stony Brook)	ARSENIC	01380450	1998	Public Water Supply		Low
6	02030103030150-01	HUC02030103030150	Rockaway R (Boonton dam to Stony Brook)	CHLORDANE IN FISH TISSUE	Rockaway River,Boonton Reservoir	2008	Fish Consumption	L	Low
6	02030103030150-01	HUC02030103030150	Rockaway R (Boonton dam to Stony Brook)	DDT IN FISH TISSUE	Rockaway River,Boonton Reservoir	2008	Fish Consumption	L	Low
6	02030103030150-01	HUC02030103030150	Rockaway R (Boonton dam to Stony Brook)	PCBS IN FISH TISSUE	Rockaway River,Boonton Reservoir	2008	Fish Consumption	L	Low

6	02030103030150-01	HUC02030103030150	Rockaway R (Boonton dam to Stony Brook)	TETRACHLOROETHYLENE	01380450	1998	Public Water Supply		Low
6	02030103030170-01	HUC02030103030170	Rockaway R (Passaic R to Boonton dam)	DISSOLVED OXYGEN	RO2	2010	Aquatic Life General		Low
6	02030103030170-01	HUC02030103030170	Rockaway R (Passaic R to Boonton dam)	BIOLOGICAL-CAUSE UNKNOWN	FIBI021	2016	Aquatic Life General		Medium
6	02030103030170-01	HUC02030103030170	Rockaway R (Passaic R to Boonton dam)	TETRACHLOROETHYLENE	01381200	1998	Public Water Supply		Low
6	02030103030040-01	HUC02030103030040	Rockaway R (Stephens Bk to Longwood Lk)	BIOLOGICAL-CAUSE UNKNOWN	AN0240, AN0241	2006	Aquatic Life General		Low
6	02030103030140-01	HUC02030103030140	Rockaway R (Stony Brook to BM 534 brdg)	ARSENIC	01380450	2006	Public Water Supply		Low
6	02030103030140-01	HUC02030103030140	Rockaway R (Stony Brook to BM 534 brdg)	BIOLOGICAL-CAUSE UNKNOWN	AN0248	2006	Aquatic Life General		Low
6	02030103030140-01	HUC02030103030140	Rockaway R (Stony Brook to BM 534 brdg)	TETRACHLOROETHYLENE	01380450	1998	Public Water Supply		Low
10	02030105100040-01	HUC02030105100040	Rocky Brook (above Monmouth Co line)	ARSENIC	01400585	1998	Public Water Supply		Low
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	ARSENIC	01400599, 01400598	2004	Public Water Supply		Low
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	CHLORDANE IN FISH TISSUE	Peddie Lake	2012	Fish Consumption	L	Low
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	DDT IN FISH TISSUE	Peddie Lake	2012	Fish Consumption	L	Low
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	DISSOLVED OXYGEN	RB4	2010	Aquatic Life General		Medium
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	MERCURY IN FISH TISSUE	Peddie Lake	2012	Fish Consumption		High
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	PCBS IN FISH TISSUE	Peddie Lake	2012	Fish Consumption	L	Low
10	02030105110150-01	HUC02030105110150	Royce Brook (above Branch Royce Brook)	ESCHERICHIA COLI (E. COLI)	BFBM000028	2014	Recreation		Low
10	02030105110150-01	HUC02030105110150	Royce Brook (above Branch Royce Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0411	2008	Aquatic Life General		Medium
10	02030105110160-01	HUC02030105110160	Royce Brook (below/incl Branch Royce Bk)	ESCHERICHIA COLI (E. COLI)	01402730	2012	Recreation		Low
10	02030105110160-01	HUC02030105110160	Royce Brook (below/incl Branch Royce Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0412, AN0413	2006	Aquatic Life General		Medium
10	02030105110160-01	HUC02030105110160	Royce Brook (below/incl Branch Royce Bk)	PHOSPHORUS, TOTAL	01402730	2016	Aquatic Life General		Medium
6	02030103030010-01	HUC02030103030010	Russia Brook (above Milton)	TEMPERATURE	01379615	2014	Aquatic Life Trout		Medium
6	02030103030020-01	HUC02030103030020	Russia Brook (below Milton)	TEMPERATURE	BFBM000181	2016	Aquatic Life Trout		Medium
4	02030103140040-01	HUC02030103140040	Saddle River (above Ridgewood gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0281	2016	Aquatic Life General, Aquatic Life Trout		Low
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	ARSENIC	01391200	1998	Public Water Supply		Low
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	DIOXIN IN FISH TISSUE	Passaic River-Tidal	2006	Fish Consumption		Low
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0291	2016	Aquatic Life General		Low
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	PCBS IN FISH TISSUE	Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	PHOSPHORUS, TOTAL	01391500, 01391540, NJHDG-6	2006	Aquatic Life General		High
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	TOTAL DISSOLVED SOLIDS (TDS)	01391500	2004	Public Water Supply		Medium
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood gage)	ARSENIC	01390518	2010	Public Water Supply		Low
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0282	2016	Aquatic Life General		Low
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood gage)	PH	01390518	2014	Aquatic Life General		Medium
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood gage)	PHOSPHORUS, TOTAL	SR001	2010	Aquatic Life General		High
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	ARSENIC	01391200	1998	Public Water Supply		Low
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	BIOLOGICAL-CAUSE UNKNOWN	AN0290	2016	Aquatic Life General		Low
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	PHOSPHORUS, TOTAL	01391500	2006	Aquatic Life General		High
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	TOTAL DISSOLVED SOLIDS (TDS)	01391500	2004	Public Water Supply		Medium
4	02030103140050-01	HUC02030103140050	Saddle River (Rt 4 to Hohokus)	ARSENIC	01391200	1998	Public Water Supply		Low
4	02030103140050-01	HUC02030103140050	Saddle River (Rt 4 to Hohokus)	BIOLOGICAL-CAUSE UNKNOWN	AN0289, NJS11-119	2016	Aquatic Life General		Low
4	02030103140050-01	HUC02030103140050	Saddle River (Rt 4 to Hohokus)	PH	01391200	2014	Aquatic Life General		Medium
4	02030103140050-01	HUC02030103140050	Saddle River (Rt 4 to Hohokus)	PHOSPHORUS, TOTAL	01391110	2006	Aquatic Life General		High
17	02040206030080-01	HUC02040206030080	Salem Canal	DISSOLVED OXYGEN	01482580, BFBM000064	2010	Aquatic Life General		Medium
17	02040206030080-01	HUC02040206030080	Salem Canal	PHOSPHORUS, TOTAL	01482580	2010	Aquatic Life General		Medium
17	02040206030080-01	HUC02040206030080	Salem Canal	TEMPERATURE	01482580	2014	Aquatic Life General		Medium
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg)/Canal	DISSOLVED OXYGEN	01482537	2014	Aquatic Life General		Medium
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg)/Canal	MERCURY IN FISH TISSUE	Salem River near Carneys Point	2014	Fish Consumption		High
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg)/Canal	PCBS IN FISH TISSUE	Salem River near Carneys Point	2014	Fish Consumption	L	Low
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg)/Canal	PH	01482537	2012	Aquatic Life General		Medium
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg)/Canal	PHOSPHORUS, TOTAL	01482537	2006	Aquatic Life General		Medium
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg)/Canal	TOTAL SUSPENDED SOLIDS (TSS)	01482537	2012	Aquatic Life General		Medium

17	02040206030010-01	HUC02040206030010	Salem R (above Woodstown gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0690	2016	Aquatic Life General		Low
17	02040206030010-01	HUC02040206030010	Salem R (above Woodstown gage)	PH	01482500, S2, S3, S8, S9, S10	2006	Aquatic Life General		Medium
17	02040206030010-01	HUC02040206030010	Salem R (above Woodstown gage)	TOTAL SUSPENDED SOLIDS (TSS)	S8, S9, S10	2010	Aquatic Life General	R	Medium
17	02040206030010-01	HUC02040206030010	Salem R (above Woodstown gage)	TURBIDITY	01482500	2016	Aquatic Life General		Medium
17	02040206040040-01	HUC02040206040040	Salem R (below Fenwick Creek)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206030030-01	HUC02040206030030	Salem R (CountyHomeRd to Woodstown gage)	ARSENIC	01482520	2016	Public Water Supply		Low
17	02040206030030-01	HUC02040206030030	Salem R (CountyHomeRd to Woodstown gage)	DISSOLVED OXYGEN	01482505	2010	Aquatic Life General		Medium
17	02040206030030-01	HUC02040206030030	Salem R (CountyHomeRd to Woodstown gage)	PH	01482500	2006	Aquatic Life General		Medium
17	02040206030030-01	HUC02040206030030	Salem R (CountyHomeRd to Woodstown gage)	PHOSPHORUS, TOTAL	01482500, 01482503, 01482505, 01482508, 01482520,	2006	Aquatic Life General		Medium
17	02040206030030-01	HUC02040206030030	Salem R (CountyHomeRd to Woodstown gage)	TOTAL SUSPENDED SOLIDS (TSS)	S10	2016	Aquatic Life General		Medium
17	02040206030030-01	HUC02040206030030	Salem R (CountyHomeRd to Woodstown gage)	TURBIDITY	01482500	2016	Aquatic Life General		Medium
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	ARSENIC	01482520, 01482530	2008	Public Water Supply		Low
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	DISSOLVED OXYGEN	01482530, 01482537	2008	Aquatic Life General		Low
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	BIOLOGICAL-CAUSE UNKNOWN	AN0693, AN0694	2016	Aquatic Life General		Medium
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	PH	01482537	2008	Aquatic Life General		Medium
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	PHOSPHORUS, TOTAL	01482519, 01482520, 01482530, 01482537	2006	Aquatic Life General		Medium
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	TOTAL SUSPENDED SOLIDS (TSS)	01482530, 01482537	2006	Aquatic Life General		Medium
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	TURBIDITY	01482530	2012	Aquatic Life General		Medium
17	02040206040030-01	HUC02040206040030	Salem R (Fenwick Ck to 39d40m14s dam)	ENTEROCOCCUS	Salem River at Route 49	2016	Recreation		Medium
17	02040206040030-01	HUC02040206040030	Salem R (Fenwick Ck to 39d40m14s dam)	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	BENZO[A]PYRENE (PAHS)	Raritan Bay-1 thru 7	2008	Fish Consumption		Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	CHLORDANE IN FISH TISSUE	Raritan Bay at Lower Bay,Raritan Bay at Keansburg, Raritan Bay-1 thru 7	2006	Fish Consumption	L	Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	DDT IN FISH TISSUE	Raritan Bay at Lower Bay,Raritan Bay at Keansburg, Raritan Bay-1 thru 7	2008	Fish Consumption	L	Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	DIELDRIN	Raritan Bay-1 thru 7	2008	Fish Consumption	L	Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	DIOXIN IN FISH TISSUE	Raritan Bay at Lower Bay,Raritan Bay at Keansburg, Raritan Bay-1 thru 7	2006	Fish Consumption		Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	BIOLOGICAL-CAUSE UNKNOWN	RB001, RB002	2014	Aquatic Life General		Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	PCBS IN FISH TISSUE	Raritan Bay at Lower Bay,Raritan Bay at Keansburg, Raritan Bay-1 thru 7	2008	Fish Consumption	L	Low
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	TOTAL COLIFORM	Shellfish Network	2008	Shellfish		Medium
16	02040206210050-01	HUC02040206210050	Savages Run (above East Creek Pond)	BIOLOGICAL-CAUSE UNKNOWN	AN0766	2014	Aquatic Life General		Low
17	02040206130020-01	HUC02040206130020	Scotland Run (Delsea Drive to FriesMill)	TEMPERATURE	BFBM000059	2016	Aquatic Life General		Medium
4	02030103150020-01	HUC02030103150020	Second River	ESCHERICHIA COLI (E. COLI)	NJHDG-9	2004	Recreation		Low
4	02030103150020-01	HUC02030103150020	Second River	BIOLOGICAL-CAUSE UNKNOWN	FIBI085a	2016	Aquatic Life General		Medium
4	02030103150020-01	HUC02030103150020	Second River	PH	01392520, NJHDG-9	2006	Aquatic Life General		Medium
4	02030103150020-01	HUC02030103150020	Second River	PHOSPHORUS, TOTAL	01392520, NJHDG-9	2006	Aquatic Life General		Medium
11	02040105240010-01	HUC02040105240010	Shabakunk Creek	ARSENIC	01463810	2012	Public Water Supply		Low
11	02040105240010-01	HUC02040105240010	Shabakunk Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0114, AN0502, FIBI041	2016	Aquatic Life General		Low
11	02040105240010-01	HUC02040105240010	Shabakunk Creek	MERCURY IN FISH TISSUE	Assunpink Creek	2006	Fish Consumption		Low
11	02040105240010-01	HUC02040105240010	Shabakunk Creek	PHOSPHORUS, TOTAL	NJW04459-102	2010	Aquatic Life General		Medium
11	02040105240020-01	HUC02040105240020	Shabakunk Creek WB	ARSENIC	01463810	2014	Public Water Supply		Low
11	02040105240020-01	HUC02040105240020	Shabakunk Creek WB	BIOLOGICAL-CAUSE UNKNOWN	AN0535	2014	Aquatic Life General		Low
11	02040105240020-01	HUC02040105240020	Shabakunk Creek WB	MERCURY IN FISH TISSUE	Assunpink Creek	2014	Fish Consumption		High
20	02040201070030-01	HUC02040201070030	Shady Brook/Spring Lake/Rowan Lake	MERCURY IN FISH TISSUE	Delaware River Tribs to Head of Tide,Spring Lake-12	2006	Fish Consumption		Low
20	02040201070030-01	HUC02040201070030	Shady Brook/Spring Lake/Rowan Lake	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide,Spring Lake-12	2006	Fish Consumption	L	Low
13	02040301070010-01	HUC02040301070010	Shannae Brook	PH	01408480	2002	Aquatic Life General		Medium
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	ARSENIC	01407670	2012	Public Water Supply		Low
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	CHLORDANE IN FISH TISSUE	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	DDT IN FISH TISSUE	Shark River at Belmar	2006	Fish Consumption	L	Low

12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	BIOLOGICAL-CAUSE UNKNOWN	AN0481, AN0482	2016	Aquatic Life General, Aquatic Life Trout		Low
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	PCBS IN FISH TISSUE	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	CHLORDANE IN FISH TISSUE	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	DDT IN FISH TISSUE	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	DISSOLVED OXYGEN	1217A	2006	Aquatic Life General		Medium
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	MERCURY IN FISH TISSUE	Shark River at Belmar	2006	Fish Consumption		Low
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	PCBS IN FISH TISSUE	Shark River at Belmar	2006	Fish Consumption	L	Low
1	02040104090030-01	HUC02040104090030	Shimers Brook	ARSENIC	01438399	2012	Public Water Supply		Low
1	02040104090030-01	HUC02040104090030	Shimers Brook	TEMPERATURE	01438399, BFBM000211	2008	Aquatic Life Trout		Medium
11	02040105230060-01	HUC02040105230060	Shipetaukin Creek	DISSOLVED OXYGEN	01463661	2010	Aquatic Life General		Low
11	02040105230060-01	HUC02040105230060	Shipetaukin Creek	ESCHERICHIA COLI (E. COLI)	01463661	2008	Recreation		Medium
11	02040105230060-01	HUC02040105230060	Shipetaukin Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0111, AN0141	2016	Aquatic Life General		Medium
12	02030104080040-01	HUC02030104080040	Shrewsbury River (above Navesink River)	DDT IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080040-01	HUC02030104080040	Shrewsbury River (above Navesink River)	MERCURY IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption		Low
12	02030104080040-01	HUC02030104080040	Shrewsbury River (above Navesink River)	PCBS IN FISH TISSUE	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
10	02030105110120-01	HUC02030105110120	Sixmile Run (above Middlebush Rd)	ESCHERICHIA COLI (E. COLI)	BFBM000017	2012	Recreation		Low
10	02030105110120-01	HUC02030105110120	Sixmile Run (above Middlebush Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0408	2016	Aquatic Life General		Medium
10	02030105110120-01	HUC02030105110120	Sixmile Run (above Middlebush Rd)	PHOSPHORUS, TOTAL	SMR1	2006	Aquatic Life General		Medium
10	02030105110130-01	HUC02030105110130	Sixmile Run (below Middlebush Rd)	ARSENIC	01401900	2016	Public Water Supply		Low
10	02030105110130-01	HUC02030105110130	Sixmile Run (below Middlebush Rd)	ESCHERICHIA COLI (E. COLI)	BFBM000017	2016	Recreation		Medium
10	02030105110130-01	HUC02030105110130	Sixmile Run (below Middlebush Rd)	PHOSPHORUS, TOTAL	01401900, SMR1	2010	Aquatic Life General		Medium
14	02040301150020-01	HUC02040301150020	Skit Branch (Batsto River)	ARSENIC	01409437	2014	Public Water Supply		Low
14	02040301150020-01	HUC02040301150020	Skit Branch (Batsto River)	LEAD	01409437	2014	Public Water Supply		Low
14	02040301160170-01	HUC02040301160170	Sleeper Branch	DDT IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301160170-01	HUC02040301160170	Sleeper Branch	MERCURY IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301160170-01	HUC02040301160170	Sleeper Branch	PCBS IN FISH TISSUE	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301160060-01	HUC02040301160060	Sleeper Branch (Rt 206 to Tremont Ave)	ARSENIC	0140940200	2012	Public Water Supply	A	Low
14	02040301160060-01	HUC02040301160060	Sleeper Branch (Rt 206 to Tremont Ave)	PH	0140940370, MCOIMPNT, MSLEPARK, MWIBURNT	2002	Aquatic Life General		Medium
6	02030103010190-01	HUC02030103010190	Slough Brook	ARSENIC	01379525	2014	Public Water Supply		Low
6	02030103010190-01	HUC02030103010190	Slough Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0231C	2002	Aquatic Life General		Low
6	02030103010190-01	HUC02030103010190	Slough Brook	PHOSPHORUS, TOTAL	01379525	2016	Aquatic Life General		Medium
6	02030103010190-01	HUC02030103010190	Slough Brook	TOTAL DISSOLVED SOLIDS (TDS)	01379525	2010	Public Water Supply		Medium
16	02040206220020-01	HUC02040206220020	Sluice Creek	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
9	02030105120080-01	HUC02030105120080	South Fork of Bound Brook	ARSENIC	01403385	2016	Public Water Supply		Low
9	02030105120080-01	HUC02030105120080	South Fork of Bound Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0424B	2016	Aquatic Life General		Low
9	02030105120080-01	HUC02030105120080	South Fork of Bound Brook	PCBS IN FISH TISSUE	Bound Brook,New Market Pond	2006	Fish Consumption	L	Low
9	02030105120080-01	HUC02030105120080	South Fork of Bound Brook	PHOSPHORUS, TOTAL	01403385	2002	Aquatic Life General		Medium
15	02040302050030-01	HUC02040302050030	South River (above 39d26m15s)	ARSENIC	01411220	2014	Public Water Supply		Low
15	02040302050030-01	HUC02040302050030	South River (above 39d26m15s)	DISSOLVED OXYGEN	01411220	2014	Aquatic Life General		Medium
15	02040302050030-01	HUC02040302050030	South River (above 39d26m15s)	PH	01411220, LSOESTEL, LSOUT552	2006	Aquatic Life General		Medium
15	02040302050040-01	HUC02040302050040	South River (below 39d26m15s)	ARSENIC	01411220, 01411221	2012	Public Water Supply	A	Low
15	02040302050040-01	HUC02040302050040	South River (below 39d26m15s)	PH	01411220, 01411221	2002	Aquatic Life General		Medium
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	ARSENIC	South River	1998	Public Water Supply		Low
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	BENZO[A]PYRENE (PAHS)	South River	2016	Fish Consumption		Low
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	CADMIUM	Berry's Creek Reach 02030103-034Berry's Creek Reach 02030103-034, South RiverSouth River	1998	Aquatic Life General, Public Water Supply		Low
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	CHROMIUM	Adjacent to Berry's Creek Reach 02030103-034-0.11NA, South RiverSouth River	1998	Public Water Supply		Low
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	COPPER	South River	1998	Aquatic Life General		Low
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	DIOXIN IN FISH TISSUE	South River at Sayreville,South River at Old Bridge	2006	Fish Consumption		Low

9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	LEAD	South River	1998	Aquatic Life General		Low
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	MERCURY IN WATER COLUMN	South River	1998	Aquatic Life General, Public Water Supply		Low
9	02030105160070-01	HUC02030105160070	South River (below Duhernal Lake)	PCBS IN FISH TISSUE	South River at Sayreville,South River at Old Bridge	2006	Fish Consumption	L	Low
20	02040201040020-01	HUC02040201040020	South Run (above 74d35m) (Ft Dix)	PH	NJW04459-253	2010	Aquatic Life General		Medium
20	02040201040030-01	HUC02040201040030	South Run (Jumping Brook to 74d35m)	ARSENIC	01464280	2012	Public Water Supply		Low
20	02040201040030-01	HUC02040201040030	South Run (Jumping Brook to 74d35m)	ESCHERICHIA COLI (E. COLI)	01464280	2006	Recreation		Low
20	02040201040030-01	HUC02040201040030	South Run (Jumping Brook to 74d35m)	BIOLOGICAL-CAUSE UNKNOWN	AN0119A	2016	Aquatic Life General		Medium
20	02040201040030-01	HUC02040201040030	South Run (Jumping Brook to 74d35m)	PH	01464280, BFBM000197	2006	Aquatic Life General		Medium
20	02040201040050-01	HUC02040201040050	South Run (North Run to Jumping Brook)	MERCURY IN FISH TISSUE	Crosswicks Creek	2006	Fish Consumption		Low
20	02040201040050-01	HUC02040201040050	South Run (North Run to Jumping Brook)	PH	01464290	2016	Aquatic Life General		Medium
20	02040201040050-01	HUC02040201040050	South Run (North Run to Jumping Brook)	PHOSPHORUS, TOTAL	01464300	2006	Aquatic Life General		Medium
5	02030101170020-01	HUC02030101170020	Sparkill Brook	ARSENIC	01376273	2012	Public Water Supply		Low
5	02030101170020-01	HUC02030101170020	Sparkill Brook	ESCHERICHIA COLI (E. COLI)	01376273	2012	Recreation		Medium
5	02030101170020-01	HUC02030101170020	Sparkill Brook	PHOSPHORUS, TOTAL	01376223	2008	Aquatic Life General		Medium
1	02040105040050-01	HUC02040105040050	Sparta Junction tribs	DISSOLVED OXYGEN	01443278	2016	Aquatic Life General, Aquatic Life Trout		Medium
1	02040105040050-01	HUC02040105040050	Sparta Junction tribs	PHOSPHORUS, TOTAL	01443278	2016	Aquatic Life General		Medium
1	02040105040050-01	HUC02040105040050	Sparta Junction tribs	TEMPERATURE	01443276, BFBM000176	2012	Aquatic Life Trout		Medium
9	02030105120090-01	HUC02030105120090	Spring Lake Fork of Bound Brook	ARSENIC	01403385	2016	Public Water Supply		Low
9	02030105120090-01	HUC02030105120090	Spring Lake Fork of Bound Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0424C	2016	Aquatic Life General		Low
9	02030105120090-01	HUC02030105120090	Spring Lake Fork of Bound Brook	PCBS IN FISH TISSUE	Spring Lake (NMP)	2006	Fish Consumption	L	Low
9	02030105120090-01	HUC02030105120090	Spring Lake Fork of Bound Brook	PHOSPHORUS, TOTAL	01403385	2002	Aquatic Life General		Medium
14	02040301150040-01	HUC02040301150040	Springers Brook / Deep Run	ARSENIC	01409455	2012	Public Water Supply		Low
14	02040301150040-01	HUC02040301150040	Springers Brook / Deep Run	BIOLOGICAL-CAUSE UNKNOWN	AN0584, AN0585	2016	Aquatic Life General		Low
14	02040301150040-01	HUC02040301150040	Springers Brook / Deep Run	PH	01409455, 01409500, BSPRDIKE	2002	Aquatic Life General		Medium
8	02030105020010-01	HUC02030105020010	Spruce Run (above Glen Gardner)	TEMPERATURE	01396550	2002	Aquatic Life Trout		Medium
8	02030105020020-01	HUC02030105020020	Spruce Run (Reservior to Glen Gardner)	ARSENIC	01396588	2016	Public Water Supply		Low
8	02030105020020-01	HUC02030105020020	Spruce Run (Reservior to Glen Gardner)	TEMPERATURE	01396588	2008	Aquatic Life Trout		Medium
8	02030105020040-01	HUC02030105020040	Spruce Run Reservior / Willoughby Brook	PH	01396800, NJW04459-113	2002	Aquatic Life General		Medium
8	02030105020040-01	HUC02030105020040	Spruce Run Reservior / Willoughby Brook	TEMPERATURE	01396790, 01396800	2002	Aquatic Life Trout		Medium
15	02040302030050-01	HUC02040302030050	Squankum Branch (GEHR)	ARSENIC	01410890	2014	Public Water Supply	A	Low
15	02040302030050-01	HUC02040302030050	Squankum Branch (GEHR)	BIOLOGICAL-CAUSE UNKNOWN	AN0624	2016	Aquatic Life General		Low
15	02040302030050-01	HUC02040302030050	Squankum Branch (GEHR)	MERCURY IN WATER COLUMN	01410865, 01410890	2006	Public Water Supply		Low
15	02040302030050-01	HUC02040302030050	Squankum Branch (GEHR)	PH	01410865, 01410890	2006	Aquatic Life General		Medium
15	02040302050080-01	HUC02040302050080	Stephen Creek (GEHR)	ARSENIC	01411230	2012	Public Water Supply	A	Low
15	02040302050080-01	HUC02040302050080	Stephen Creek (GEHR)	PCBS IN FISH TISSUE	Maple Lake	2010	Fish Consumption	L	Low
15	02040302050080-01	HUC02040302050080	Stephen Creek (GEHR)	PH	01411230, LSTMAPLE	2006	Aquatic Life General		Medium
17	02040206120050-01	HUC02040206120050	Still Run (WillowGroveLk - SilverLakeRd)	BIOLOGICAL-CAUSE UNKNOWN	AN0730, AN0732	2008	Aquatic Life General		Low
18	02040202140020-01	HUC02040202140020	Still Run/London Br(above Tomlin Sta Rd)	ARSENIC	01476600	2012	Public Water Supply		Low
18	02040202140020-01	HUC02040202140020	Still Run/London Br(above Tomlin Sta Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0675	2016	Aquatic Life General		Low
18	02040202140020-01	HUC02040202140020	Still Run/London Br(above Tomlin Sta Rd)	PHOSPHORUS, TOTAL	01476600	2012	Aquatic Life General		Medium
3	02030103050070-01	HUC02030103050070	Stone House Brook	TEMPERATURE	Pqkakebk	2010	Aquatic Life Trout		Medium
10	02030105090020-01	HUC02030105090020	Stony Bk (74d 48m 10s to 74d 49m 15s)	ARSENIC	01400860, 01400870	2012	Public Water Supply		Low
10	02030105090020-01	HUC02030105090020	Stony Bk (74d 48m 10s to 74d 49m 15s)	DISSOLVED OXYGEN	01400860	2012	Aquatic Life General		Low
10	02030105090020-01	HUC02030105090020	Stony Bk (74d 48m 10s to 74d 49m 15s)	ESCHERICHIA COLI (E. COLI)	01400860, 01400870	2008	Recreation	R	Medium
10	02030105090020-01	HUC02030105090020	Stony Bk (74d 48m 10s to 74d 49m 15s)	BIOLOGICAL-CAUSE UNKNOWN	FIBI541	2016	Aquatic Life General		Medium
10	02030105090040-01	HUC02030105090040	Stony Bk (74d46m dam to/incl Baldwins Ck)	ESCHERICHIA COLI (E. COLI)	BFBM000018	2012	Recreation		Medium
10	02030105090010-01	HUC02030105090010	Stony Bk (above 74d 49m 15s)	ESCHERICHIA COLI (E. COLI)	BFBM000010	2012	Recreation	R	Low
10	02030105090010-01	HUC02030105090010	Stony Bk (above 74d 49m 15s)	BIOLOGICAL-CAUSE UNKNOWN	AN0390A	2016	Aquatic Life General		Medium
10	02030105090010-01	HUC02030105090010	Stony Bk (above 74d 49m 15s)	PHOSPHORUS, TOTAL	01400842, NJW04459-184	2016	Aquatic Life General		Medium

10	02030105090030-01	HUC02030105090030	Stony Bk (Baldwins Ck to 74d 48m 10s)	ARSENIC	01400913	2016	Public Water Supply		Low
10	02030105090030-01	HUC02030105090030	Stony Bk (Baldwins Ck to 74d 48m 10s)	ESCHERICHIA COLI (E. COLI)	01400913	2012	Recreation		Medium
10	02030105090070-01	HUC02030105090070	Stony Bk (Harrison St to Rt 206)	ARSENIC	01401000	2006	Public Water Supply		Low
10	02030105090070-01	HUC02030105090070	Stony Bk (Harrison St to Rt 206)	BIOLOGICAL-CAUSE UNKNOWN	AN0394A, FIBI070	2016	Aquatic Life General		Low
10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	ARSENIC	01401000	2006	Public Water Supply		Low
10	02030105090060-01	HUC02030105090060	Stony Bk (Rt 206 to Province Line Rd)	ARSENIC	01401000	1998	Public Water Supply		Low
10	02030105090090-01	HUC02030105090090	Stony Bk- Princeton drainage	ARSENIC	01401000	2010	Public Water Supply		Low
10	02030105090090-01	HUC02030105090090	Stony Bk- Princeton drainage	ESCHERICHIA COLI (E. COLI)	01401000	2016	Recreation		Low
10	02030105090090-01	HUC02030105090090	Stony Bk- Princeton drainage	BIOLOGICAL-CAUSE UNKNOWN	FIBI070	2016	Aquatic Life General		Medium
6	02030103030130-01	HUC02030103030130	Stony Brook (Boonton)	ARSENIC	01380270, 01380320	2012	Public Water Supply		Low
6	02030103030130-01	HUC02030103030130	Stony Brook (Boonton)	DISSOLVED OXYGEN	01380270	2010	Aquatic Life General		Low
6	02030103030130-01	HUC02030103030130	Stony Brook (Boonton)	BIOLOGICAL-CAUSE UNKNOWN	AN0249	2016	Aquatic Life General		Medium
6	02030103030130-01	HUC02030103030130	Stony Brook (Boonton)	MERCURY IN WATER COLUMN	01380270	2012	Public Water Supply		Low
9	02030105120030-01	HUC02030105120030	Stony Brook (North Plainfield)	ARSENIC	01403575	2012	Public Water Supply		Low
9	02030105120030-01	HUC02030105120030	Stony Brook (North Plainfield)	BIOLOGICAL-CAUSE UNKNOWN	AN0422	2006	Aquatic Life General		Low
17	02040206070050-01	HUC02040206070050	Stow Creek (above Jericho Road)	BIOLOGICAL-CAUSE UNKNOWN	AN0705	2014	Aquatic Life General		Low
17	02040206070080-01	HUC02040206070080	Stow Creek (below Canton Rd)	DISSOLVED OXYGEN	R53, R54	2006	Aquatic Life General		Medium
17	02040206070080-01	HUC02040206070080	Stow Creek (below Canton Rd)	PCBS IN FISH TISSUE	Stow Creek Canton	2006	Fish Consumption	L	Low
17	02040206070060-01	HUC02040206070060	Stow Creek (Canton Road to Jericho Road)	DISSOLVED OXYGEN	R54	2012	Aquatic Life General		Medium
17	02040206070060-01	HUC02040206070060	Stow Creek (Canton Road to Jericho Road)	PCBS IN FISH TISSUE	Stow Creek Canton	2006	Fish Consumption	L	Low
11	02040105210030-01	HUC02040105210030	Swan Creek (Moore Ck to Alexauken Ck)	ESCHERICHIA COLI (E. COLI)	BFBM000012	2012	Recreation		Medium
1	02040105030020-01	HUC02040105030020	Swartswood Lake and tribs	ARSENIC	01443466, 01443470	2012	Public Water Supply		Low
1	02040105030020-01	HUC02040105030020	Swartswood Lake and tribs	PCBS IN FISH TISSUE	Swartswood Lake	2012	Fish Consumption	L	Low
1	02040105030020-01	HUC02040105030020	Swartswood Lake and tribs	TEMPERATURE	01443466	2014	Aquatic Life Trout		Medium
1	02040105030010-01	HUC02040105030010	Swartswood trib(41-06-06 thru Lk Owassa)	PH	NJW04459-059	2010	Aquatic Life General		Medium
18	02040202090010-01	HUC02040202090010	Swede Run	ARSENIC	01467027	2008	Public Water Supply		Low
18	02040202090010-01	HUC02040202090010	Swede Run	DISSOLVED OXYGEN	01467027	2008	Aquatic Life General		Low
18	02040202090010-01	HUC02040202090010	Swede Run	ESCHERICHIA COLI (E. COLI)	BFBM000051	2012	Recreation		Medium
18	02040202090010-01	HUC02040202090010	Swede Run	BIOLOGICAL-CAUSE UNKNOWN	AN0176	2016	Aquatic Life General		Medium
18	02040202090010-01	HUC02040202090010	Swede Run	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	CHLORDANE IN FISH TISSUE	Swimming River Reservoir,Marlu Lake (Thompson Park)	2010	Fish Consumption	L	Low
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	DDT IN FISH TISSUE	Swimming River Reservoir,Marlu Lake (Thompson Park)	2010	Fish Consumption	L	Low
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	PCBS IN FISH TISSUE	Swimming River Reservoir,Marlu Lake (Thompson Park)	2010	Fish Consumption	L	Low
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	PHOSPHORUS, TOTAL	01407330 (MCHD-56)	2002	Aquatic Life General		Medium
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	TOTAL SUSPENDED SOLIDS (TSS)	01407330	2006	Aquatic Life General		Medium
15	02040302070050-01	HUC02040302070050	Tarkiln Brook (Tuckahoe River)	PH	TTAR548S	2012	Aquatic Life General		Medium
5	02030103170040-01	HUC02030103170040	Tenakill Brook	ARSENIC	01378387	2004	Public Water Supply		Low
5	02030103170040-01	HUC02030103170040	Tenakill Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0209, NJS11-121	2016	Aquatic Life General		Low
5	02030103170040-01	HUC02030103170040	Tenakill Brook	PH	TB2, TB3, TB4	2014	Aquatic Life General		Medium
5	02030103170040-01	HUC02030103170040	Tenakill Brook	PHOSPHORUS, TOTAL	DB1, TB1, TB2, TB3, TB4	2010	Aquatic Life General	R	Medium
5	02030103170040-01	HUC02030103170040	Tenakill Brook	TOTAL SUSPENDED SOLIDS (TSS)	DB1, TB3	2010	Aquatic Life General	R	Medium
8	02030105030040-01	HUC02030105030040	Third Neshanic River	DISSOLVED OXYGEN	01397950	2006	Aquatic Life General		Low
8	02030105030040-01	HUC02030105030040	Third Neshanic River	BIOLOGICAL-CAUSE UNKNOWN	NR03	2016	Aquatic Life General		Medium
4	02030103150010-01	HUC02030103150010	Third River	CHLORDANE IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2014	Fish Consumption	L	Low
4	02030103150010-01	HUC02030103150010	Third River	DDT IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2014	Fish Consumption	L	Low
4	02030103150010-01	HUC02030103150010	Third River	DIOXIN IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2006	Fish Consumption		Low
4	02030103150010-01	HUC02030103150010	Third River	BIOLOGICAL-CAUSE UNKNOWN	AN0292, AN0292A, FIBI043	2016	Aquatic Life General		Low
4	02030103150010-01	HUC02030103150010	Third River	MERCURY IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2014	Fish Consumption		Low
4	02030103150010-01	HUC02030103150010	Third River	PCBS IN FISH TISSUE	Passaic River at Lyndhurst,Passaic River-Tidal	2006	Fish Consumption	L	Low
4	02030103150010-01	HUC02030103150010	Third River	PHOSPHORUS, TOTAL	NJW04459-147	2010	Aquatic Life General		Medium
15	02040302040060-01	HUC02040302040060	Three Pond Branch (Hospitality Branch)	ARSENIC	01411073	2014	Public Water Supply		Low

13	BarnegatBay04	HUCBarnegatBay04	Toms R Estuary	CHLORDANE IN FISH TISSUE	Barnegat Bay at Toms River	2012	Fish Consumption	L	Low
13	BarnegatBay04	HUCBarnegatBay04	Toms R Estuary	DDT IN FISH TISSUE	Barnegat Bay at Toms River	2012	Fish Consumption	L	Low
13	BarnegatBay04	HUCBarnegatBay04	Toms R Estuary	DISSOLVED OXYGEN	BB04a	2014	Aquatic Life General		Low
13	BarnegatBay04	HUCBarnegatBay04	Toms R Estuary	BIOLOGICAL-CAUSE UNKNOWN		2016	Aquatic Life General		Low
13	BarnegatBay04	HUCBarnegatBay04	Toms R Estuary	MERCURY IN FISH TISSUE	Barnegat Bay at Toms River	2012	Fish Consumption		Low
13	BarnegatBay04	HUCBarnegatBay04	Toms R Estuary	PCBS IN FISH TISSUE	Barnegat Bay at Toms River	2012	Fish Consumption	L	Low
13	02040301060020-01	HUC02040301060020	Toms River (74-22-30 rd to FrancisMills)	ARSENIC	01408253, 01408260	2012	Public Water Supply		Low
13	02040301060010-01	HUC02040301060010	Toms River (above Francis Mills)	DISSOLVED OXYGEN	MCHD-7	2014	Aquatic Life General		Low
13	02040301060010-01	HUC02040301060010	Toms River (above Francis Mills)	BIOLOGICAL-CAUSE UNKNOWN	AN0517, AN0518, AN0519A	2016	Aquatic Life General		Medium
13	02040301060010-01	HUC02040301060010	Toms River (above Francis Mills)	PHOSPHORUS, TOTAL	MCHD-7	2002	Aquatic Life General		Medium
13	02040301060030-01	HUC02040301060030	Toms River (Bowman Rd to 74-22-30 road)	ARSENIC	01408260	2014	Public Water Supply		Low
13	02040301060030-01	HUC02040301060030	Toms River (Bowman Rd to 74-22-30 road)	TEMPERATURE	AN0520	2014	Aquatic Life Trout		Medium
13	02040301060080-01	HUC02040301060080	Toms River (Oak Ridge Parkway to Rt 70)	BIOLOGICAL-CAUSE UNKNOWN	AN0535	2014	Aquatic Life General, Aquatic Life Trout		Low
13	02040301060070-01	HUC02040301060070	Toms River (Rt 70 to Hope Chapel Road)	ESCHERICHIA COLI (E. COLI)	BA24	2016	Recreation		Medium
13	02040301080060-01	HUC02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	CHLORDANE IN FISH TISSUE	Toms River at Ridgeway Branch, Barnegat Bay at Toms	2006	Fish Consumption	L	Low
13	02040301080060-01	HUC02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	DDT IN FISH TISSUE	Toms River at Ridgeway Branch, Barnegat Bay at Toms	2006	Fish Consumption	L	Low
13	02040301080060-01	HUC02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	BIOLOGICAL-CAUSE UNKNOWN	AN0535	2012	Aquatic Life General		Low
13	02040301080060-01	HUC02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	PCBS IN FISH TISSUE	Toms River at Ridgeway Branch, Barnegat Bay at Toms	2006	Fish Consumption	L	Low
1	02040105070050-01	HUC02040105070050	Trout Brook / Lake Tranquility	MERCURY IN FISH TISSUE	Allamuchy Pond	2014	Fish Consumption		High
1	02040105070050-01	HUC02040105070050	Trout Brook / Lake Tranquility	PCBS IN FISH TISSUE	Allamuchy Pond	2014	Fish Consumption	L	Low
1	02040105070050-01	HUC02040105070050	Trout Brook / Lake Tranquility	PH	NJW04459-165, NJW04459-255	2012	Aquatic Life General		Medium
6	02030103020080-01	HUC02030103020080	Troy Brook (above Reynolds Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0236	2008	Aquatic Life General		Low
6	02030103020090-01	HUC02030103020090	Troy Brook (below Reynolds Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0237	2014	Aquatic Life General		Low
15	02040302070020-01	HUC02040302070020	Tuckahoe River (39d19m52s to Cumberland Ave)	PH	01411290	2004	Aquatic Life General		Medium
15	02040302070010-01	HUC02040302070010	Tuckahoe River (above Cumberland Ave)	PH	01411290	2006	Aquatic Life General		Medium
15	02040302070110-01	HUC02040302070110	Tuckahoe River (below Rt 49)	DISSOLVED OXYGEN	R37	2016	Aquatic Life General		Medium
15	02040302070040-01	HUC02040302070040	Tuckahoe River (Rt 49 to 39d19m52s)	ARSENIC	01411295	2012	Public Water Supply	A	Low
15	02040302070040-01	HUC02040302070040	Tuckahoe River (Rt 49 to 39d19m52s)	PH	01411295	2006	Aquatic Life General		Medium
14	02040301190060-01	HUC02040301190060	Tulpehocken Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0599	2014	Aquatic Life General		Low
1	02040104110010-01	HUC02040104110010	UDRV tribs (Dingmans Ferry to 206 bridg)	ARSENIC	01438500	2016	Public Water Supply		Low
1	02040104110010-01	HUC02040104110010	UDRV tribs (Dingmans Ferry to 206 bridg)	TEMPERATURE	01438517	2014	Aquatic Life Trout		Medium
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	ARSENIC	01408380, 01408495	2012	Public Water Supply	A	Low
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	CHLORDANE IN FISH TISSUE	Horicon Lake	2010	Fish Consumption	L	Low
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	DDT IN FISH TISSUE	Horicon Lake	2010	Fish Consumption	L	Low
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	BIOLOGICAL-CAUSE UNKNOWN	AN0530	2014	Aquatic Life General		Low
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	PCBS IN FISH TISSUE	Horicon Lake	2010	Fish Consumption	L	Low
1	02040105100010-01	HUC02040105100010	Union Church trib	ESCHERICHIA COLI (E. COLI)	BFBM000120	2014	Recreation		Medium
1	02040105100010-01	HUC02040105100010	Union Church trib	PHOSPHORUS, TOTAL	NJW04459-175	2014	Aquatic Life General		Medium
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	BENZO[A]PYRENE (PAHS)	Kill Van Kull	2008	Fish Consumption		Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	CHLORDANE IN FISH TISSUE	Upper NY Bay @ Caven Point, Kill Van Kull	2006	Fish Consumption	L	Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	DDT IN FISH TISSUE	Upper NY Bay @ Caven Point, Kill Van Kull	2008	Fish Consumption	L	Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	DIELDRIN	Kill Van Kull, Upper New York Harbor	2008	Fish Consumption	L	Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	DIOXIN IN FISH TISSUE	Upper NY Bay @ Caven Point, Kill Van Kull	2006	Fish Consumption		Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	HEPTACHLOR EPOXIDE	Kill Van Kull	2008	Fish Consumption	L	Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	HEXACHLOROBENZENE	Kill Van Kull, Upper New York Harbor	2008	Fish Consumption		Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	BIOLOGICAL-CAUSE UNKNOWN	NB207, NB218, NB228, UH019, UH022	2006	Aquatic Life General		Low
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	PCBS IN FISH TISSUE	Upper NY Bay @ Caven Point, Kill Van Kull	2006	Fish Consumption	L	Low
1	02040104240010-01	HUC02040104240010	Van Campens Brook	MERCURY IN FISH TISSUE	Blue Mountain Lakes	2012	Fish Consumption		High
12	02030104060050-01	HUC02030104060050	Waackaack Creek	ARSENIC	01407065	2008	Public Water Supply	A	Low
12	02030104060050-01	HUC02030104060050	Waackaack Creek	CHLORDANE IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low

12	02030104060050-01	HUC02030104060050	Waackaack Creek	DDT IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104060050-01	HUC02030104060050	Waackaack Creek	DISSOLVED OXYGEN	R65	2006	Aquatic Life General		Low
12	02030104060050-01	HUC02030104060050	Waackaack Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0460	2016	Aquatic Life General		Medium
12	02030104060050-01	HUC02030104060050	Waackaack Creek	MERCURY IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption		Low
12	02030104060050-01	HUC02030104060050	Waackaack Creek	PCBS IN FISH TISSUE	Raritan Bay Lower at Union Beach	2006	Fish Consumption	L	Low
14	02040301200030-01	HUC02040301200030	Wading River (below Rt 542)	MERCURY IN FISH TISSUE	Wading River	2010	Fish Consumption		Low
14	02040301200020-01	HUC02040301200020	Wading River (Rt 542 to Oswego River)	MERCURY IN FISH TISSUE	Wading River	2006	Fish Consumption		Low
14	02040301190050-01	HUC02040301190050	Wading River WB (Jenkins Rd to Rt 563)	ARSENIC	01409790	2012	Public Water Supply		Low
14	02040301190050-01	HUC02040301190050	Wading River WB (Jenkins Rd to Rt 563)	DISSOLVED OXYGEN	01409790	2008	Aquatic Life General		Low
14	02040301190050-01	HUC02040301190050	Wading River WB (Jenkins Rd to Rt 563)	BIOLOGICAL-CAUSE UNKNOWN	AN0601	2016	Aquatic Life General		Medium
14	02040301190050-01	HUC02040301190050	Wading River WB (Jenkins Rd to Rt 563)	PHOSPHORUS, TOTAL	01409790	2012	Aquatic Life General		Medium
14	02040301190070-01	HUC02040301190070	Wading River WB (Oswego R to Jenkins Rd)	ARSENIC	01409812	2014	Public Water Supply		Low
14	02040301190070-01	HUC02040301190070	Wading River WB (Oswego R to Jenkins Rd)	BIOLOGICAL-CAUSE UNKNOWN	AN0602	2016	Aquatic Life General		Low
14	02040301190070-01	HUC02040301190070	Wading River WB (Oswego R to Jenkins Rd)	MERCURY IN FISH TISSUE	Wading River	2006	Fish Consumption		Low
14	02040301190070-01	HUC02040301190070	Wading River WB (Oswego R to Jenkins Rd)	PHOSPHORUS, TOTAL	01409812, 01409815	2012	Aquatic Life General		Medium
2	02020007030010-01	HUC02020007030010	Wallkill R (41d13m30s to Martins Road)	BIOLOGICAL-CAUSE UNKNOWN	AN0302	2016	Aquatic Life General		Low
2	02020007010080-01	HUC02020007010080	Wallkill R (Franklin Pond to Ogdensburg)	BIOLOGICAL-CAUSE UNKNOWN	AN0298	2008	Aquatic Life General, Aquatic Life Trout		Low
3	02030103070070-01	HUC02030103070070	Wanaque R/Posts Bk (below reservior)	BIOLOGICAL-CAUSE UNKNOWN	AN0256	2016	Aquatic Life General, Aquatic Life Trout		Low
3	02030103070070-01	HUC02030103070070	Wanaque R/Posts Bk (below reservior)	TEMPERATURE	BKBCH, BLWR	2012	Aquatic Life Trout		Medium
13	02040301120010-01	HUC02040301120010	Waretown Creek / Lochiel Creek	ARSENIC	01409108	2014	Public Water Supply	A	Low
13	02040301120010-01	HUC02040301120010	Waretown Creek / Lochiel Creek	MERCURY IN WATER COLUMN	01409108	2014	Public Water Supply		Low
2	02020007040050-01	HUC02020007040050	Wawayanda Creek & tribs	ARSENIC	01368820	2012	Public Water Supply		Low
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	ARSENIC	01405185	2012	Public Water Supply		Low
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	DISSOLVED OXYGEN	WC2-WL	2010	Aquatic Life General		Low
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0441, AN0442, AN0443	2016	Aquatic Life General		Medium
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	PHOSPHORUS, TOTAL	MCHD-69, MCHD-9, Weamaconk_Lake-09	2002	Aquatic Life General		High
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	TOTAL SUSPENDED SOLIDS (TSS)	01405185, MCHD-69	2006	Aquatic Life General		High
13	02040301090010-01	HUC02040301090010	Webbs Mill Branch	DISSOLVED OXYGEN	01408800	2014	Aquatic Life General		Medium
1	02040105150010-01	HUC02040105150010	Weldon Brook/Beaver Brook	TEMPERATURE	01455350	2014	Aquatic Life Trout		Medium
3	02030103070040-01	HUC02030103070040	West Brook/Burnt Meadow Brook	DISSOLVED OXYGEN	01386000, WB1	2008	Aquatic Life Trout		Medium
3	02030103070040-01	HUC02030103070040	West Brook/Burnt Meadow Brook	TEMPERATURE	BMBK, WB1, WB3, WB5, WBABBM, WBABPDS, WBBLPDS, WBLWWB, WBQTB, WBUNTBBLPD, WBWBRD	2004	Aquatic Life Trout		Medium
16	02040206210020-01	HUC02040206210020	West Ck (above Rt 550)	DISSOLVED OXYGEN	01411444	2014	Aquatic Life General		Medium
16	02040206210040-01	HUC02040206210040	West Ck (below PaperMillRd) to MooresBch	PCBS IN FISH TISSUE	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206210030-01	HUC02040206210030	West Ck (Paper Mill Rd to Rt 550)	DISSOLVED OXYGEN	01411444	2014	Aquatic Life General		Medium
12	02030104090010-01	HUC02030104090010	Whale Pond Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0477	2008	Aquatic Life General		Low
6	02030103020010-01	HUC02030103020010	Whippany R (above road at 74d 33m)	ARSENIC	01381235, 01381260, 01381330	2012	Public Water Supply		Low
6	02030103020010-01	HUC02030103020010	Whippany R (above road at 74d 33m)	TEMPERATURE	01381260	2012	Aquatic Life Trout		Medium
6	02030103020050-01	HUC02030103020050	Whippany R (Malapardis to Lk Pocahontas)	ARSENIC	01381515	2012	Public Water Supply		Low
6	02030103020050-01	HUC02030103020050	Whippany R (Malapardis to Lk Pocahontas)	BIOLOGICAL-CAUSE UNKNOWN	AN0234, AN0235, FIBI009	2016	Aquatic Life General		Low
6	02030103020100-01	HUC02030103020100	Whippany R (Rockaway R to Malapardis Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0238, NJS11-164	2016	Aquatic Life General		Low
6	02030103020100-01	HUC02030103020100	Whippany R (Rockaway R to Malapardis Bk)	LEAD	01381800	1998	Public Water Supply		Low
6	02030103020020-01	HUC02030103020020	Whippany R (Wash. Valley Rd to 74d 33m)	ARSENIC	01381330	2012	Public Water Supply		Low
17	02040206170020-01	HUC02040206170020	White Marsh Run (Millville)	ARSENIC	01411907	2014	Public Water Supply		Low
11	02040105200040-01	HUC02040105200040	Wickecheoke Creek (above Locktown)	ARSENIC	01461250	2012	Public Water Supply		Low
11	02040105200040-01	HUC02040105200040	Wickecheoke Creek (above Locktown)	BIOLOGICAL-CAUSE UNKNOWN	AN0090	2016	Aquatic Life General		Low
11	02040105200040-01	HUC02040105200040	Wickecheoke Creek (above Locktown)	PH	01461250, W9b	2010	Aquatic Life General		Medium
11	02040105200040-01	HUC02040105200040	Wickecheoke Creek (above Locktown)	TOTAL SUSPENDED SOLIDS (TSS)	W8	2010	Aquatic Life General		Medium
11	02040105200060-01	HUC02040105200060	Wickecheoke Creek (below Locktown)	PH	W1, W2, W3	2014	Aquatic Life General		Medium

11	02040105200060-01	HUC02040105200060	Wickecheoke Creek (below Locktown)	TEMPERATURE	01461300	2002	Aquatic Life Trout		Medium
12	02030104070020-01	HUC02030104070020	Willow Brook	ARSENIC	01407253	2016	Public Water Supply		Low
12	02030104070020-01	HUC02030104070020	Willow Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0467, AN0468	2016	Aquatic Life General		Low
14	02040301160040-01	HUC02040301160040	Wisickaman Creek	BIOLOGICAL-CAUSE UNKNOWN	AN0563	2006	Aquatic Life General		Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	BENZO[A]PYRENE (PAHS)	NY Harbor Tributaries	2014	Fish Consumption		Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	CHLORDANE IN FISH TISSUE	New York Harbor Tribs	2014	Fish Consumption	L	Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	DDT IN FISH TISSUE	New York Harbor Tribs	2014	Fish Consumption	L	Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	DIELDRIN	NY Harbor Tributaries	2014	Fish Consumption	L	Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	DIOXIN IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption		Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	HEPTACHLOR EPOXIDE	NY Harbor Tributaries	2014	Fish Consumption	L	Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	HEXACHLOROBENZENE	NY Harbor Tributaries	2014	Fish Consumption		Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	MERCURY IN FISH TISSUE	New York Harbor Tribs	2014	Fish Consumption		Low
7	02030104050110-01	HUC02030104050110	Woodbridge Creek	PCBS IN FISH TISSUE	New York Harbor Tribs	2006	Fish Consumption	L	Low
18	02040202120100-01	HUC02040202120100	Woodbury Creek (above Rt 45)	CHLORDANE IN FISH TISSUE	Stewart Lake at Woodbury Creek	2008	Fish Consumption	L	Low
18	02040202120100-01	HUC02040202120100	Woodbury Creek (above Rt 45)	DDT IN FISH TISSUE	Stewart Lake at Woodbury Creek	2010	Fish Consumption	L	Low
18	02040202120100-01	HUC02040202120100	Woodbury Creek (above Rt 45)	PCBS IN FISH TISSUE	Stewart Lake at Woodbury Creek	2008	Fish Consumption	L	Low
18	02040202120100-01	HUC02040202120100	Woodbury Creek (above Rt 45)	PH	01474730	2006	Aquatic Life General		Medium
18	02040202120110-01	HUC02040202120110	Woodbury Creek (below Rt 45)/LDRV to B T Ck	PCBS IN FISH TISSUE	Delaware River Tribs to Head of Tide, Woodbury Ck	2006	Fish Consumption	L	Low
18	02040202120110-01	HUC02040202120110	Woodbury Creek (below Rt 45)/LDRV to B T Ck	PH	01474730	2004	Aquatic Life General		Medium
13	02040301080050-01	HUC02040301080050	Wrangel Brook (below Michaels Branch)	ARSENIC	01408598	2012	Public Water Supply	A	Low
13	02040301080050-01	HUC02040301080050	Wrangel Brook (below Michaels Branch)	DISSOLVED OXYGEN	01408598	2010	Aquatic Life General		Medium
13	02040301080050-01	HUC02040301080050	Wrangel Brook (below Michaels Branch)	MERCURY IN WATER COLUMN	01408598	2012	Public Water Supply		Low
12	02030104090070-01	HUC02030104090070	Wreck Pond Brook (above Rt 35)	PHOSPHORUS, TOTAL	MCHD-14	2010	Aquatic Life General	R	Medium
12	02030104090080-01	HUC02030104090080	Wreck Pond Brook (below Rt 35)	ARSENIC	01407806	2012	Public Water Supply	A	Low
12	02030104090080-01	HUC02030104090080	Wreck Pond Brook (below Rt 35)	PHOSPHORUS, TOTAL	NJW04459-292, Como_Lake-12	2008	Aquatic Life General	R	Medium
12	02030104090080-01	HUC02030104090080	Wreck Pond Brook (below Rt 35)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish		Medium
1	02040105050040-01	HUC02040105050040	Yards Creek	DISSOLVED OXYGEN	01443890	2010	Aquatic Life Trout		Medium
1	02040105050040-01	HUC02040105050040	Yards Creek	PH	01443890	2014	Aquatic Life General		Medium
12	02030104070040-01	HUC02030104070040	Yellow Brook (above Bucks Mill)	BIOLOGICAL-CAUSE UNKNOWN	AN0471	2008	Aquatic Life General		Low
12	02030104070060-01	HUC02030104070060	Yellow Brook (below Bucks Mill)	BIOLOGICAL-CAUSE UNKNOWN	AN0472	2006	Aquatic Life General		Low
14	02040301180010-01	HUC02040301180010	Yellow Dam Branch	ARSENIC	01409880	2012	Public Water Supply		Low
14	02040301180010-01	HUC02040301180010	Yellow Dam Branch	DISSOLVED OXYGEN	01409880	2008	Aquatic Life General		Medium
14	02040301180010-01	HUC02040301180010	Yellow Dam Branch	TOTAL SUSPENDED SOLIDS (TSS)	01409880	2012	Aquatic Life General		Medium

WMA	Assessment Unit Number	HUC	Assessment Unit Name	Parameter
11	02040105230050-01	HUC02040105230050	Assunpink Ck (Shipetaukin to Trento	MERCURY IN FISH TISSUE
1	02040105090050-01	HUC02040105090050	Furnace Brook	MERCURY IN FISH TISSUE
4	02030103140010-01	HUC02030103140010	Hohokus Bk (above Godwin Ave)	PHOSPHORUS, TOTAL
4	02030103140030-01	HUC02030103140030	Hohokus Bk (below Pennington Ave)	PHOSPHORUS, TOTAL
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Bro	PHOSPHORUS, TOTAL
9	02030105150030-01	HUC02030105150030	McGellairds Brook (below Taylors M	PHOSPHORUS, TOTAL
17	02040206160040-01	HUC02040206160040	Mill Creek (lower)	MERCURY IN FISH TISSUE
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopa	MERCURY IN FISH TISSUE
1	02040105070020-01	HUC02040105070020	New Wawayanda Lake/Andover Pon	MERCURY IN FISH TISSUE
1	02040105050050-01	HUC02040105050050	Paulins Kill (below Blairstown gage)	MERCURY IN FISH TISSUE
1	02040105050010-01	HUC02040105050010	Paulins Kill (Blairstown to Stillwater)	MERCURY IN FISH TISSUE
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co l	MERCURY IN FISH TISSUE
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	PHOSPHORUS, TOTAL
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood	PHOSPHORUS, TOTAL
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	PHOSPHORUS, TOTAL
4	02030103140050-01	HUC02030103140050	Saddle River (Rt 4 to Hohokus)	PHOSPHORUS, TOTAL
17	02040206030060-01	HUC02040206030060	Salem R (39-40-14 dam-CoursesLndg	MERCURY IN FISH TISSUE
11	02040105240020-01	HUC02040105240020	Shabakunk Creek WB	MERCURY IN FISH TISSUE
1	02040105070050-01	HUC02040105070050	Trout Brook / Lake Tranquility	MERCURY IN FISH TISSUE
1	02040104240010-01	HUC02040104240010	Van Campens Brook	MERCURY IN FISH TISSUE
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	PHOSPHORUS, TOTAL
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	TOTAL SUSPENDED SOLIDS (TSS)

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Parameter	Station	TMDL Number	TMDL Date	Cycle 1st Listed	Designated Use
15	02040302020040-01	HUC02040302020040	Absecon Creek (below gage)	TOTAL COLIFORM	Shellfish Network	31407	2006	2016	Shellfish Harvest
18	02040202120060-01	HUC02040202120060	Almonesson Creek	MERCURY IN FISH TISSUE	Delaware River Tribs to Head of Tide	37909	2009	2006	Fish Consumption
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	MERCURY IN WATER COLUMN	HEP	11085	1996	2004	Fish Consumption
20	02040201100010-01	HUC02040201100010	Assiscunk Ck (above Rt 206)	ESCHERICHIA COLI (E. COLI)	01464578	10533	2003	2006	Recreation
20	02040201100010-01	HUC02040201100010	Assiscunk Ck (above Rt 206)	PHOSPHORUS, TOTAL	01464577, 01464578	33757	2006	2006	Aquatic Life General
11	02040105240060-01	HUC02040105240060	Assunpink Ck (below Shipetaukin Ck)	ESCHERICHIA COLI (E. COLI)	01464020	9889	2003	2010	Recreation
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	MERCURY IN FISH TISSUE	Assunpink Creek,Assunpink Lake	40821	2011	2008	Fish Consumption
11	02040105230040-01	HUC02040105230040	Assunpink Ck (TrentonRd to NewSharonBr)	MERCURY IN FISH TISSUE	Assunpink Creek,Mercer Co. Park Lake,Assunpink Lake	40821	2011	2006	Fish Consumption
15	02040302050020-01	HUC02040302050020	Babcock Creek (GEHR)	ESCHERICHIA COLI (E. COLI)	01411196	31408	2006	2012	Recreation
14	02040301200070-01	HUC02040301200070	Ballanger Creek	TOTAL COLIFORM	Shellfish Network	31404	2006	2014	Shellfish Harvest
20	02040201100020-01	HUC02040201100020	Barkers Brook (above 40d02m30s)	ESCHERICHIA COLI (E. COLI)	01464583	10524	2003	2006	Recreation
20	02040201100020-01	HUC02040201100020	Barkers Brook (above 40d02m30s)	PHOSPHORUS, TOTAL	01464583	33757	2008	2006	Aquatic Life General
17	02040206090010-01	HUC02040206090010	Barrett Run (above West Ave)	PHOSPHORUS, TOTAL	01413013, Mary_Elmer_Lake-17	10577	2003	2006	Aquatic Life General
14	02040301200060-01	HUC02040301200060	Bass River (below WB / EB)	TOTAL COLIFORM	Shellfish Network	31402	2006	2006	Shellfish Harvest
14	02040301200050-01	HUC02040301200050	Bass River EB	MERCURY IN FISH TISSUE	Lake Absegami	37909	2009	2010	Fish Consumption
14	02040301200050-01	HUC02040301200050	Bass River EB	PHOSPHORUS, TOTAL	Absegami_Lake-14	10567	2003	2008	Aquatic Life General
14	02040301150080-01	HUC02040301150080	Batsto River (Batsto gage to Quaker Bridge)	MERCURY IN FISH TISSUE	Batsto Lake	37909	2009	2008	Fish Consumption
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	MERCURY IN FISH TISSUE	Grovers Mill Pond	37909	2009	2008	Fish Consumption
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	PHOSPHORUS, TOTAL	01400808, BBB1-GMPi	65982	2016	2016	Aquatic Life General
14	02040301200010-01	HUC02040301200010	Beaver Branch (Wading River)	MERCURY IN FISH TISSUE	Wading River	37909	2009	2006	Fish Consumption
8	02030105020050-01	HUC02030105020050	Beaver Brook (Clinton)	PHOSPHORUS, TOTAL	01396812, BvB1	65982	2016	2016	Aquatic Life General
6	02030103030110-01	HUC02030103030110	Beaver Brook (Morris County)	ESCHERICHIA COLI (E. COLI)	01380098, 01380100	11008	2003	2006	Recreation
6	02030103030110-01	HUC02030103030110	Beaver Brook (Morris County)	MERCURY IN FISH TISSUE	Split Rock Reservoir	37909	2009	2006	Fish Consumption
13	02040301040010-01	HUC02040301040010	Beaverdam Creek	TOTAL COLIFORM	Shellfish Network	31398	2006	2006	Shellfish Harvest
10	02030105110050-01	HUC02030105110050	Beden Brook (below Province Line Rd)	ESCHERICHIA COLI (E. COLI)	01401520, 01401600	9949	2003	2006	Recreation

10	02030105110050-01	HUC02030105110050	Beden Brook (below Province Line Rd)	PHOSPHORUS, TOTAL	01401600, 01401703, 01401705	65982	2016	2016	Aquatic Life General
16	02040206230010-01	HUC02040206230010	Bidwell Creek (above Rt 47)	TOTAL COLIFORM	Shellfish Network	31523	2006	2006	Shellfish Harvest
16	02040206230020-01	HUC02040206230020	Bidwell Creek (below Rt 47)-Dias to GoshenCk	TOTAL COLIFORM	Shellfish Network	31523	2006	2006	Shellfish Harvest
12	02030104070030-01	HUC02030104070030	Big Brook	ESCHERICHIA COLI (E. COLI)	01407280, 01407320, MCHD-57	10618/11003	2003/2003	2006	Recreation
18	02040202120010-01	HUC02040202120010	Big Timber Creek NB (above Laurel Rd)	ESCHERICHIA COLI (E. COLI)	01467359	10542	2003	2006	Recreation
18	02040202120010-01	HUC02040202120010	Big Timber Creek NB (above Laurel Rd)	MERCURY IN FISH TISSUE	Clementon Lake,Big Timber Creek (at Brooklawn)	37909	2009	2006	Fish Consumption
18	02040202120020-01	HUC02040202120020	Big Timber Creek NB (below Laurel Rd)	ESCHERICHIA COLI (E. COLI)	01467359	10542	2003	2008	Recreation
18	02040202120020-01	HUC02040202120020	Big Timber Creek NB (below Laurel Rd)	MERCURY IN FISH TISSUE	Big Timber Creek (at Brooklawn)	37909	2009	2006	Fish Consumption
18	02040202120030-01	HUC02040202120030	Big Timber Creek SB (above Lakeland Rd)	ESCHERICHIA COLI (E. COLI)	01467327	10543	2003	2006	Recreation
18	02040202120030-01	HUC02040202120030	Big Timber Creek SB (above Lakeland Rd)	MERCURY IN FISH TISSUE	Big Timber Creek	37909	2009	2006	Fish Consumption
18	02040202120030-01	HUC02040202120030	Big Timber Creek SB (above Lakeland Rd)	PHOSPHORUS, TOTAL	Grenlock_Lake-18	12344	2005	2008	Aquatic Life General
18	02040202120050-01	HUC02040202120050	Big Timber Creek SB (below Bull Run)	MERCURY IN FISH TISSUE	Big Timber Creek,Delaware River Tribs to Head of Tide	37909	2009	2006	Fish Consumption
18	02040202120040-01	HUC02040202120040	Big Timber Creek SB (incl Bull Run to LakelandRd	ESCHERICHIA COLI (E. COLI)	01467329	9907	2003	2006	Recreation
18	02040202120040-01	HUC02040202120040	Big Timber Creek SB (incl Bull Run to LakelandRd	MERCURY IN FISH TISSUE	Big Timber Creek	37909	2009	2006	Fish Consumption
18	02040202120040-01	HUC02040202120040	Big Timber Creek SB (incl Bull Run to LakelandRd	PHOSPHORUS, TOTAL	01467329, Blackwood_Lake-18	12344	2005	2006	Aquatic Life General
6	02030103010060-01	HUC02030103010060	Black Brook (Great Swamp NWR)	ESCHERICHIA COLI (E. COLI)	01378855	10617	2003	2006	Recreation
6	02030103010060-01	HUC02030103010060	Black Brook (Great Swamp NWR)	PHOSPHORUS, TOTAL	01378855, 01378895	35044	2008	2006	Aquatic Life General
2	02020007040010-01	HUC02020007040010	Black Creek (above/incl G.Gorge Resort trib)	ESCHERICHIA COLI (E. COLI)	BFBM000130	9890	2003	2006	Recreation
2	02020007040010-01	HUC02020007040010	Black Creek (above/incl G.Gorge Resort trib)	PHOSPHORUS, TOTAL	Wallkill_F	12362	2005	2016	Aquatic Life General
2	02020007040020-01	HUC02020007040020	Black Creek (below G. Gorge Resort trib)	ESCHERICHIA COLI (E. COLI)	01368950	9890	2003	2006	Recreation
13	02040301070050-01	HUC02040301070050	Blacks Branch (above 74d22m05s)	ESCHERICHIA COLI (E. COLI)	AN0529	31400	2006	2016	Recreation
20	02040201080010-01	HUC02040201080010	Blacks Creek (above 40d06m10s)	PHOSPHORUS, TOTAL	01464527	12362	2005	2006	Aquatic Life General
20	02040201080020-01	HUC02040201080020	Blacks Creek (Bacons Run to 40d06m10s)	ESCHERICHIA COLI (E. COLI)	01464529	10535	2003	2006	Recreation
20	02040201080020-01	HUC02040201080020	Blacks Creek (Bacons Run to 40d06m10s)	PHOSPHORUS, TOTAL	01464527, 01464529	12346	2005	2006	Aquatic Life General
17	02040206140040-01	HUC02040206140040	Blackwater Branch (above/incl Pine Br)	ESCHERICHIA COLI (E. COLI)	01411495	31524	2006	2008	Recreation
17	02040206140050-01	HUC02040206140050	Blackwater Branch (below Pine Branch)	ESCHERICHIA COLI (E. COLI)	01411495	31524	2006	2008	Recreation

9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	ESCHERICHIA COLI (E. COLI)	01403385	10597	2003	2006	Recreation
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	MERCURY IN FISH TISSUE	Bound Brook,New Market Pond	37909	2009	2010	Fish Consumption
12	02030104080030-01	HUC02030104080030	Branchport Creek	ENTEROCOCCUS	MCHD-45, MCHD-46, MCHD-47, MCHD-48, MCHD-62	31394	2006	2008	Recreation
12	02030104080030-01	HUC02030104080030	Branchport Creek	ESCHERICHIA COLI (E. COLI)	MCHD-46, MCHD-62	31394	2006	2008	Recreation
12	02030104080030-01	HUC02030104080030	Branchport Creek	PHOSPHORUS, TOTAL	Franklin_Lake-12	9919	2003	2006	Aquatic Life General
12	02030104080030-01	HUC02030104080030	Branchport Creek	TOTAL COLIFORM	Shellfish Network	31394	2006	2006	Shellfish Harvest
19	02040202030050-01	HUC02040202030050	Bucks Cove Run / Cranberry Branch	MERCURY IN FISH TISSUE	Whitesbog Pond	37909	2009	2008	Fish Consumption
17	02040206170040-01	HUC02040206170040	Buckshutem Creek (above Rt 555)	ESCHERICHIA COLI (E. COLI)	01411950	31524	2006	2006	Recreation
17	02040206170050-01	HUC02040206170050	Buckshutem Creek (below Rt 555)	TOTAL COLIFORM	Shellfish Network	31524	2006	2014	Shellfish Harvest
6	02030103010140-01	HUC02030103010140	Canoe Brook	ESCHERICHIA COLI (E. COLI)	01379530	11007	2003	2006	Recreation
6	02030103010140-01	HUC02030103010140	Canoe Brook	PHOSPHORUS, TOTAL	01379525, NJW04459-037	35044	2008	2010	Aquatic Life General
17	02040206070030-01	HUC02040206070030	Canton Drain (above Maskell Mill)	MERCURY IN FISH TISSUE	Maskells Mills Lake	37909	2009	2008	Fish Consumption
16	02040302080070-01	HUC02040302080070	Cape May Bays (Rt 47 to Reubens Wharf)	TOTAL COLIFORM	Shellfish Network	31412	2006	2006	Shellfish Harvest
16	02040302080050-01	HUC02040302080050	Cape May Courthouse tribs	TOTAL COLIFORM	Shellfish Network	31412	2006	2014	Shellfish Harvest
16	02040302080090-01	HUC02040302080090	Cape May Harbor & Bays (below Rt 47)	TOTAL COLIFORM	Shellfish Network	31412	2006	2006	Shellfish Harvest
13	02040301090060-01	HUC02040301090060	Cedar Creek (below GS Parkway)	TOTAL COLIFORM	Shellfish Network	31512	2006	2006	Shellfish Harvest
17	02040206100050-01	HUC02040206100050	Cedar Creek (below Rt 553)	TOTAL COLIFORM	Shellfish Network	31421	2006	2006	Shellfish Harvest
13	02040301090050-01	HUC02040301090050	Cedar Creek (GS Parkway to 74d16m38s)	MERCURY IN FISH TISSUE	Double Trouble Lake	37909	2009	2008	Fish Consumption
13	02040301130040-01	HUC02040301130040	Cedar Run	TOTAL COLIFORM	Shellfish Network	31514	2006	2006	Shellfish Harvest
15	02040302070090-01	HUC02040302070090	Cedar Swamp Ck (below Rt 50)	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
15	02040302070080-01	HUC02040302070080	Cedar Swamp Ck/Cedar Swamp (above Rt 50)	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
8	02030105070020-01	HUC02030105070020	Chambers Brook	ESCHERICHIA COLI (E. COLI)	01399900	10551	2003	2006	Recreation
12	02030104060010-01	HUC02030104060010	Cheesequake Creek / Whale Creek	PHOSPHORUS, TOTAL	Hooks_Creek_Lake-12	10565	2003	2006	Aquatic Life General
18	02040202130030-01	HUC02040202130030	Chestnut Branch (above Sewell)	MERCURY IN FISH TISSUE	Alcyon Lake	37909	2009	2008	Fish Consumption
3	02030103050040-01	HUC02030103050040	Clinton Reservior/Mossmans Brook	MERCURY IN FISH TISSUE	Clinton Reservoir	37909	2009	2008	Fish Consumption
1	02040104090020-01	HUC02040104090020	Clove Brook (Delaware R)	MERCURY IN FISH TISSUE	Steenykill Lake,Montague Lake	37909	2009	2008	Fish Consumption

2	02020007020060-01	HUC02020007020060	Clove Brook (Papakating Ck)	PHOSPHORUS, TOTAL	Wallkill_I, Wallkill_J, Clove_Acres_Lake-02	11092	2004	2006	Aquatic Life General
17	02040206090060-01	HUC02040206090060	Cohansey R (75d15m to/incl Rocaps Run)	TOTAL COLIFORM	Shellfish Network	31422	2006	2014	Shellfish Harvest
17	02040206090070-01	HUC02040206090070	Cohansey R (75d17m50s to 75d15m)	TOTAL COLIFORM	Shellfish Network	31422	2006	2014	Shellfish Harvest
17	02040206080010-01	HUC02040206080010	Cohansey R (above Beals Mill)	PHOSPHORUS, TOTAL	01412800	12343	2005	2006	Aquatic Life General
17	02040206090100-01	HUC02040206090100	Cohansey R (below Greenwich)	TOTAL COLIFORM	Shellfish Network	31422	2006	2006	Shellfish Harvest
17	02040206090080-01	HUC02040206090080	Cohansey R (Greenwich to 75d17m50s)	TOTAL COLIFORM	Shellfish Network	31422	2006	2014	Shellfish Harvest
17	02040206080040-01	HUC02040206080040	Cohansey R (incl Beebe Run to HandsPond)	PHOSPHORUS, TOTAL	01412800	12343	2005	2006	Aquatic Life General
17	02040206080050-01	HUC02040206080050	Cohansey R (incl CornwellRun - BeebeRun)	MERCURY IN FISH TISSUE	Sunset Lake	37909	2009	2008	Fish Consumption
17	02040206080050-01	HUC02040206080050	Cohansey R (incl CornwellRun - BeebeRun)	PHOSPHORUS, TOTAL	01412800, NJW04459-120	10568	2003	2006	Aquatic Life General
17	02040206080020-01	HUC02040206080020	Cohansey R (incl HandsPond - Beals Mill)	PHOSPHORUS, TOTAL	01412800	12343	2005	2006	Aquatic Life General
17	02040206090030-01	HUC02040206090030	Cohansey R (Rocaps Run to Cornwell Run)	MERCURY IN FISH TISSUE	Delaware Bay Tribs	37909	2009	2008	Fish Consumption
17	02040206090030-01	HUC02040206090030	Cohansey R (Rocaps Run to Cornwell Run)	TOTAL COLIFORM	Shellfish Network	31422	2006	2014	Shellfish Harvest
5	02030103180010-01	HUC02030103180010	Coles Brook / Van Saun Mill Brook	ESCHERICHIA COLI (E. COLI)	01378560	10612	2003	2006	Recreation
5	02030103180010-01	HUC02030103180010	Coles Brook / Van Saun Mill Brook	PHOSPHORUS, TOTAL	01378560	12353	2005	2006	Aquatic Life General
15	02040302040050-01	HUC02040302040050	Collings Lakes trib (Hospitality Branch)	MERCURY IN FISH TISSUE	Cedar Lake	37909	2009	2008	Fish Consumption
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	ESCHERICHIA COLI (E. COLI)	01467120, 01467150	9906	2003	2006	Recreation
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	MERCURY IN FISH TISSUE	Linden Lake,Kirkwood Lake	37909	2009	2008	Fish Consumption
18	02040202110030-01	HUC02040202110030	Cooper River (above Evesham Road)	PHOSPHORUS, TOTAL	01467120, 01467150, NJW04459-002	10571	2003	2006	Aquatic Life General
18	02040202110050-01	HUC02040202110050	Cooper River (Rt 130 to Wallworth gage)	PHOSPHORUS, TOTAL	01467150, 01467191, NJW04459-047	11104	2004	2006	Aquatic Life General
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	ESCHERICHIA COLI (E. COLI)	01467150	9908	2003	2006	Recreation
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	MERCURY IN FISH TISSUE	Evans Pond,Cooper River at mouth of Evans Pond	37909	2009	2010	Fish Consumption
18	02040202110040-01	HUC02040202110040	Cooper River (Wallworth gage to Evesham Rd)	PHOSPHORUS, TOTAL	01467150, Evans_Pond-18	11104	2004	2006	Aquatic Life General
18	02040202110010-01	HUC02040202110010	Cooper River NB (above Springdale Road)	ESCHERICHIA COLI (E. COLI)	01467155	10544	2003	2006	Recreation
18	02040202110020-01	HUC02040202110020	Cooper River NB (below Springdale Road)	ESCHERICHIA COLI (E. COLI)	01467155	10544	2003	2006	Recreation
18	02040202110020-01	HUC02040202110020	Cooper River NB (below Springdale Road)	PHOSPHORUS, TOTAL	01467181	11104	2004	2008	Aquatic Life General
1	02040105150060-01	HUC02040105150060	Cranberry Lake / Jefferson Lake & tribs	MERCURY IN FISH TISSUE	Cranberry Lake	37909	2009	2008	Fish Consumption

1	02040105150060-01	HUC02040105150060	Cranberry Lake / Jefferson Lake & tribs	PHOSPHORUS, TOTAL	Cranberry_Lake-01	9910	2003	2016	Aquatic Life General
10	02030105100070-01	HUC02030105100070	Cranbury Brook (above NJ Turnpike)	ESCHERICHIA COLI (E. COLI)	01400690	10593	2003	2006	Recreation
10	02030105100090-01	HUC02030105100090	Cranbury Brook (below NJ Turnpike)	ESCHERICHIA COLI (E. COLI)	01400690	10593	2003	2006	Recreation
10	02030105100090-01	HUC02030105100090	Cranbury Brook (below NJ Turnpike)	PHOSPHORUS, TOTAL	CB1PPi	65982	2016	2016	Aquatic Life General
16	02040302080010-01	HUC02040302080010	Crook Horn Creek (above Devils Island)	TOTAL COLIFORM	Shellfish Network	31411	2006	2008	Shellfish Harvest
20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	ESCHERICHIA COLI (E. COLI)	01464504	10536	2003	2006	Recreation
20	02040201050050-01	HUC02040201050050	Crosswicks Ck (Ellisdale trib - Walnford)	ESCHERICHIA COLI (E. COLI)	01464500, MCHD-2	10536	2003	2006	Recreation
20	02040201050050-01	HUC02040201050050	Crosswicks Ck (Ellisdale trib - Walnford)	MERCURY IN FISH TISSUE	Crosswicks Creek	40821	2011	2006	Fish Consumption
20	02040201050030-01	HUC02040201050030	Crosswicks Ck (Lahaway Ck to New Egypt)	MERCURY IN FISH TISSUE	Crosswicks Creek	40821	2011	2006	Fish Consumption
20	02040201040070-01	HUC02040201040070	Crosswicks Ck (NewEgypt to/incl NorthRun)	MERCURY IN FISH TISSUE	Crosswicks Creek	40821	2011	2006	Fish Consumption
20	02040201050040-01	HUC02040201050040	Crosswicks Ck (Walnford to Lahaway Ck)	ESCHERICHIA COLI (E. COLI)	01464460, MCHD-2	10536	2003	2006	Recreation
20	02040201050040-01	HUC02040201050040	Crosswicks Ck (Walnford to Lahaway Ck)	MERCURY IN FISH TISSUE	Crosswicks Creek	40821	2011	2006	Fish Consumption
3	02030103100060-01	HUC02030103100060	Crystal Lake/Pond Brook	MERCURY IN FISH TISSUE	Crystal Lake	40821	2011	2008	Fish Consumption
3	02030103100060-01	HUC02030103100060	Crystal Lake/Pond Brook	PHOSPHORUS, TOTAL	NJW04459-001, NJW04459-159	35046	2008	2016	Aquatic Life General
13	02040301080030-01	HUC02040301080030	Davenport Branch (above Pinewald Road)	MERCURY IN FISH TISSUE		37909	2009	2008	Fish Consumption
13	02040301080040-01	HUC02040301080040	Davenport Branch (below Pinewald Road)	ESCHERICHIA COLI (E. COLI)	AN0541	31400	2006	2016	Recreation
6	02030103010100-01	HUC02030103010100	Dead River (below Harrisons Brook)	ESCHERICHIA COLI (E. COLI)	01379200, BA141A	11004	2003	2006	Recreation
12	02030104090030-01	HUC02030104090030	Deal Lake	ESCHERICHIA COLI (E. COLI)	MCHD-10, MCHD-93	11010	2003	2008	Recreation
12	02030104090030-01	HUC02030104090030	Deal Lake	MERCURY IN FISH TISSUE	Deal Lake	37909	2009	2010	Fish Consumption
12	02030104090030-01	HUC02030104090030	Deal Lake	PHOSPHORUS, TOTAL	Deal_Lake-12	9920	2003	2006	Aquatic Life General
4	02030103120060-01	HUC02030103120060	Deepavaal Brook	ESCHERICHIA COLI (E. COLI)	01389138	10611	2003	2006	Recreation
17	Delaware River 6	Delaware River 6	Delaware Bay Zone 6 (New Jersey portion)	PCBS IN FISH TISSUE	Delaware Bay	32047	2006	2010	Fish Consumption
17	Delaware River 6	Delaware River 6	Delaware Bay Zone 6 (New Jersey portion)	TOTAL COLIFORM	Shellfish Network	31524	2006	2010	Shellfish Harvest
20	Delaware River 15	Delaware River 15	Delaware River 2	PCBS IN FISH TISSUE	Delaware River	11110	2003	2008	Fish Consumption
18	Delaware River 16	Delaware River 16	Delaware River 3	PCBS IN FISH TISSUE	Delaware River	11111	2003	2008	Fish Consumption
18	Delaware River 17	Delaware River 17	Delaware River 4	PCBS IN FISH TISSUE	Delaware River	11112	2003	2008	Fish Consumption

17	Delaware River 18	Delaware River 18	Delaware River 5	PCBS IN FISH TISSUE	Delaware River	11113	2003	2008	Fish Consumption
10	02030105100110-01	HUC02030105100110	Devils Brook	PHOSPHORUS, TOTAL	DB3-GPo	65982	2016	2016	Aquatic Life General
13	02040301130070-01	HUC02040301130070	Dinner Point Creek & tribs	TOTAL COLIFORM	Shellfish Network	31521	2006	2006	Shellfish Harvest
20	02040201060020-01	HUC02040201060020	Doctors Creek (Allentown to 74d28m40s)	ESCHERICHIA COLI (E. COLI)	MCHD-3	9903	2003	2008	Recreation
20	02040201060020-01	HUC02040201060020	Doctors Creek (Allentown to 74d28m40s)	PHOSPHORUS, TOTAL	MCHD-3, NJW04459-231, Imlaystown_Lake-20	10569/33757	2003/2006	2006	Aquatic Life General
20	02040201060030-01	HUC02040201060030	Doctors Creek (below Allentown)	PHOSPHORUS, TOTAL	01464515	33757	2006	2006	Aquatic Life General
13	02040301060050-01	HUC02040301060050	Dove Mill Branch (Toms River)	ESCHERICHIA COLI (E. COLI)	01408290	9900	2003	2008	Recreation
13	02040301060050-01	HUC02040301060050	Dove Mill Branch (Toms River)	MERCURY IN FISH TISSUE	Butterfly Bogs	37909	2009	2008	Fish Consumption
10	02030105090080-01	HUC02030105090080	Duck Pond Run	ESCHERICHIA COLI (E. COLI)	01401200	10592	2003	2006	Recreation
9	02030105160030-01	HUC02030105160030	Duhernal Lake / Iresick Brook	MERCURY IN FISH TISSUE	Duhernal Lake	37909	2009	2010	Fish Consumption
16	02040206210060-01	HUC02040206210060	East Creek	MERCURY IN FISH TISSUE	East Creek Lake,Delaware Bay Tribs	37909	2009	2008	Fish Consumption
18	02040202130050-01	HUC02040202130050	Edwards Run	ESCHERICHIA COLI (E. COLI)	01475090	12377/12378	2005	2006	Recreation
7	02030104020010-01	HUC02030104020010	Elizabeth R (above I-78)	ESCHERICHIA COLI (E. COLI)	01393450	10515	2003	2008	Recreation
7	02030104020030-01	HUC02030104020030	Elizabeth R (below Elizabeth CORP BDY)	ESCHERICHIA COLI (E. COLI)	01462400	9888	2003	2006	Recreation
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	ESCHERICHIA COLI (E. COLI)	01393350, 01393450	10515	2003	2006	Recreation
20	02040201050060-01	HUC02040201050060	Ellisdale trib (Crosswicks Creek)	MERCURY IN FISH TISSUE	Crosswicks Creek	40821	2011	2006	Fish Consumption
15	02040302050090-01	HUC02040302050090	English Ck / Flat Ck / Cranberry Ck	TOTAL COLIFORM	Shellfish Network	31408	2006	2006	Shellfish Harvest
13	02040301110030-01	HUC02040301110030	Forked River (below NB incl Mid/South Br)	ESCHERICHIA COLI (E. COLI)	BT09	31396	2006	2016	Recreation
13	02040301110030-01	HUC02040301110030	Forked River (below NB incl Mid/South Br)	TOTAL COLIFORM	Shellfish Network	31396	2006	2006	Shellfish Harvest
13	02040301110010-01	HUC02040301110010	Forked River NB (above old RR grade)	ESCHERICHIA COLI (E. COLI)	01409030	31396	2006	2008	Recreation
17	02040206110020-01	HUC02040206110020	Fortesque Ck / Fishing Ck / Straight Ck	TOTAL COLIFORM	Shellfish Network	31424	2006	2014	Shellfish Harvest
19	02040202050050-01	HUC02040202050050	Friendship Creek (below/incl Burrs Mill Bk)	MERCURY IN FISH TISSUE	Rancocas Tributary between Vincetown/Buddtown	37909	2009	2010	Fish Consumption
17	02040206030050-01	HUC02040206030050	Game Creek (above Rt 48)	ESCHERICHIA COLI (E. COLI)	01482560	10532	2003	2006	Recreation
15	02040302060040-01	HUC02040302060040	GEH Bay/Lakes Bay/Skull Bay/Peck Bay	TOTAL COLIFORM	Shellfish Network	31408	2006	2008	Shellfish Harvest
15	02040302030020-01	HUC02040302030020	GEHR (AC Expressway to New Freedom Rd)	MERCURY IN FISH TISSUE	New Brooklyn Lake	37909	2009	2008	Fish Consumption
15	02040302030020-01	HUC02040302030020	GEHR (AC Expressway to New Freedom Rd)	PHOSPHORUS, TOTAL	New_Brooklyn_Lake-15	10576	2003	2006	Aquatic Life General

15	02040302050140-01	HUC02040302050140	GEHR (GEH Bay to Gibson Ck)	TOTAL COLIFORM	Shellfish Network	31408	2006	2010	Shellfish Harvest
15	02040302050130-01	HUC02040302050130	GEHR (GEH Bay to Miry Run)	TOTAL COLIFORM	Shellfish Network	31408	2006	2006	Shellfish Harvest
15	02040302040130-01	HUC02040302040130	GEHR (Lake Lenape to Mare Run)	MERCURY IN FISH TISSUE	Lake Lenape	37909	2009	2008	Fish Consumption
15	02040302050060-01	HUC02040302050060	GEHR (Miry Run to Lake Lenape)	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
15	02040302050100-01	HUC02040302050100	Gibson Creek / Jackson Creek	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
4	02030103120050-01	HUC02030103120050	Goffle Brook	ESCHERICHIA COLI (E. COLI)	01389850	10600	2003	2006	Recreation
6	02030103010050-01	HUC02030103010050	Great Brook (below Green Village Rd)	PHOSPHORUS, TOTAL	01378770, GSWA_GB1	35044	2008	2010	Aquatic Life General
14	02040301160130-01	HUC02040301160130	Great Swamp Branch (below Rt 206)	ESCHERICHIA COLI (E. COLI)	0140941075	31404	2006	2008	Recreation
9	02030105120010-01	HUC02030105120010	Green Bk (above/incl Blue Brook)	ESCHERICHIA COLI (E. COLI)	01403465	10596	2003	2006	Recreation
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	ESCHERICHIA COLI (E. COLI)	01403900	10596	2003	2006	Recreation
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	TOTAL SUSPENDED SOLIDS (TSS)	01403900, NJHDG-25	65982	2016	2016	Aquatic Life General
9	02030105120040-01	HUC02030105120040	Green Bk (Bound Bk to N Plainfield gage)	ESCHERICHIA COLI (E. COLI)	01403465	10596	2003	2006	Recreation
9	02030105120020-01	HUC02030105120020	Green Bk (N Plainfield gage to Blue Bk)	ESCHERICHIA COLI (E. COLI)	01403465	10596	2003	2006	Recreation
5	02030103170030-01	HUC02030103170030	Hackensack R (above Old Tappan gage)	ESCHERICHIA COLI (E. COLI)	01377000	9962	2003	2006	Recreation
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
7	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	NICKEL	Hackensack R - TidalHackensack R - Tidal	509	2000	2014	Aquatic Life General, Fish Consun
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
7	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	NICKEL	Hackensack R - TidalHackensack R - Tidal	509	2000	2014	Aquatic Life General, Fish Consun
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	PHOSPHORUS, TOTAL	Lincoln_Park_Lake-05	10583	2003	2006	Aquatic Life General
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	ESCHERICHIA COLI (E. COLI)	01377000, 01378475	9962	2003	2014	Recreation
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
11	02040105170020-01	HUC02040105170020	Hakihokake Creek	ESCHERICHIA COLI (E. COLI)	01458050	12388	2005	2006	Recreation
15	02040302070070-01	HUC02040302070070	Halfway Creek	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	ESCHERICHIA COLI (E. COLI)	01409416	9899	2003	2006	Recreation

14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	PHOSPHORUS, TOTAL	01409414, 01409415, 0140941580, 01409416, HC2, HC3, Hammonton_L	10566	2003	2016	Aquatic Life General
14	02040301170020-01	HUC02040301170020	Hammonton Creek (Columbia Rd to 74d43m)	ESCHERICHIA COLI (E. COLI)	01409416	9899	2003	2006	Recreation
13	02040301020030-01	HUC02040301020030	Haystack Brook	ESCHERICHIA COLI (E. COLI)	01408110, HS-1	10529	2003	2006	Recreation
8	02030105030030-01	HUC02030105030030	Headquarters trib (Third Neshanic River)	ESCHERICHIA COLI (E. COLI)	01397950	9944	2003	2006	Recreation
10	02030105110010-01	HUC02030105110010	Heathcote Brook	ESCHERICHIA COLI (E. COLI)	01401400	10591	2003	2006	Recreation
2	02020007040040-01	HUC02020007040040	Highland Lake/Wawayanda Lake	MERCURY IN FISH TISSUE	Wawayanda Lake	37909	2009	2008	Fish Consumption
4	02030103140010-01	HUC02030103140010	Hohokus Bk (above Godwin Ave)	ESCHERICHIA COLI (E. COLI)	01390610	10606	2003	2008	Recreation
4	02030103140030-01	HUC02030103140030	Hohokus Bk (below Pennington Ave)	ESCHERICHIA COLI (E. COLI)	01391100	10601	2003	2006	Recreation
4	02030103140020-01	HUC02030103140020	Hohokus Bk (Pennington Ave to Godwin Ave)	ESCHERICHIA COLI (E. COLI)	01390800, 01390900	10606	2003	2006	Recreation
8	02030105040030-01	HUC02030105040030	Holland Brook	PHOSPHORUS, TOTAL	HB1	65982	2016	2016	Aquatic Life General
1	02040105100020-01	HUC02040105100020	Honey Run	ESCHERICHIA COLI (E. COLI)	01445900	12383	2005	2006	Recreation
12	02030104070010-01	HUC02030104070010	Hop Brook	ESCHERICHIA COLI (E. COLI)	01407210	10990	2003	2006	Recreation
15	02040302040010-01	HUC02040302040010	Hospitality Br (above Whitehouse Rd)	ESCHERICHIA COLI (E. COLI)	01411035	10528	2003	2006	Recreation
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
17	02040206130030-01	HUC02040206130030	Indian Branch (Scotland Run)	ESCHERICHIA COLI (E. COLI)	01411466	10526	2003	2008	Recreation
11	02040105210060-01	HUC02040105210060	Jacobs Creek (above Woolsey Brook)	ESCHERICHIA COLI (E. COLI)	01462730	10520	2003	2006	Recreation
11	02040105210070-01	HUC02040105210070	Jacobs Creek (below/incl Woolsey Brook)	ESCHERICHIA COLI (E. COLI)	01462800	12389	2005	2006	Recreation
13	02040301080070-01	HUC02040301080070	Jakes Branch (Lower Toms River)	ESCHERICHIA COLI (E. COLI)	BT05	31400	2006	2016	Recreation
12	02030104090050-01	HUC02030104090050	Jumping Brook (Monmouth Co)	ESCHERICHIA COLI (E. COLI)	01407720, 01407760	11097	2004	2006	Recreation
13	02040301050020-01	HUC02040301050020	Kettle Creek (below Lake Riviera outlet)	TOTAL COLIFORM	Shellfish Network	31396	2006	2006	Shellfish Harvest
5	02030104010020-01	HUC02030104010020	Kill Van Kull West	MERCURY IN WATER COLUMN	HEP	11086	1996	2004	Fish Consumption
11	02040105170060-01	HUC02040105170060	Kingwood Twp(Warford-Little Nishisakawk)	ESCHERICHIA COLI (E. COLI)	01458710	10523	2003	2006	Recreation
1	02040105150020-01	HUC02040105150020	Lake Hopatcong	MERCURY IN FISH TISSUE	Lake Hopatcong	37909	2009	2008	Fish Consumption
1	02040105150020-01	HUC02040105150020	Lake Hopatcong	PHOSPHORUS, TOTAL	NPS-1, ST-2, ST-3, Lake_Hopatcong-01	9929	2003	2016	Aquatic Life General
15	02040302050110-01	HUC02040302050110	Lakes Creek (GEHR)	TOTAL COLIFORM	Shellfish Network	31408	2006	2006	Shellfish Harvest

8	02030105050030-01	HUC02030105050030	Lamington R (Furnace Rd to Hillside Rd)	ESCHERICHIA COLI (E. COLI)	01399295	9941	2003	2008	Recreation
8	02030105050070-01	HUC02030105050070	Lamington R (HallsBrRd-HerzogBrk)	ESCHERICHIA COLI (E. COLI)	01399545, 01399780	9939	2003	2006	Recreation
8	02030105050070-01	HUC02030105050070	Lamington R (HallsBrRd-HerzogBrk)	PH	01399780, LR4, LR5	65982	2016	2016	Aquatic Life General
8	02030105050130-01	HUC02030105050130	Lamington R (Hertzog Brk to Pottersville gage)	ESCHERICHIA COLI (E. COLI)	01399500	9941	2003	2010	Recreation
8	02030105050020-01	HUC02030105050020	Lamington R (Hillside Rd to Rt 10)	ESCHERICHIA COLI (E. COLI)	01399200	9937	2003	2006	Recreation
8	02030105050020-01	HUC02030105050020	Lamington R (Hillside Rd to Rt 10)	PHOSPHORUS, TOTAL	LR2	65982	2016	2016	Aquatic Life General
8	02030105050040-01	HUC02030105050040	Lamington R (Pottersville gage-FurnaceRd)	ESCHERICHIA COLI (E. COLI)	01399500	9941	2003	2006	Recreation
14	02040301170120-01	HUC02040301170120	Landing Creek (below Indian Cabin Ck)	TOTAL COLIFORM	Shellfish Network	31404	2006	2014	Shellfish Harvest
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	MERCURY IN FISH TISSUE	Davidsons Mill Pond,Farrington Lake	37909	2009	2010	Fish Consumption
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	PHOSPHORUS, TOTAL	NJW04459-060, Davidsons_Mill_Pond-09	10561	2003	2016	Aquatic Life General
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	MERCURY IN FISH TISSUE	Farrington Lake	37909	2009	2010	Fish Consumption
20	02040201090030-01	HUC02040201090030	LDRV tribs (Assiscunk Ck to Blacks Ck)	MERCURY IN FISH TISSUE	Crosswicks Creek, Crystal Lake,Delaware River Tribs to Head of Tide	37909	2009	2010	Fish Consumption
20	02040201110010-01	HUC02040201110010	LDRV tribs (Beverly to Assiscunk Ck)	PHOSPHORUS, TOTAL	NJW04459-181	1173	2002	2008	Aquatic Life General
3	02030103110010-01	HUC02030103110010	Lincoln Park tribs (Pompton River)	ESCHERICHIA COLI (E. COLI)	01388720	12380	2005	2006	Recreation
17	02040206120020-01	HUC02040206120020	Little Ease Run (below Academy Rd)	ESCHERICHIA COLI (E. COLI)	01411457	10527/10568	2003/2003	2006	Recreation
1	02040104130010-01	HUC02040104130010	Little Flat Brook (Beerskill and above)	MERCURY IN FISH TISSUE	Hainsville Pond	37909	2009	2010	Fish Consumption
11	02040105240050-01	HUC02040105240050	Little Shabakunk Creek	ESCHERICHIA COLI (E. COLI)	01464020	9889	2003	2006	Recreation
12	02030104080010-01	HUC02030104080010	Little Silver Creek / Town Neck Creek	ENTEROCOCCUS	MCHD-39, MCHD-44	31394	2006	2016	Recreation
12	02030104080010-01	HUC02030104080010	Little Silver Creek / Town Neck Creek	TOTAL COLIFORM	Shellfish Network	31394	2006	2006	Shellfish Harvest
6	02030103010040-01	HUC02030103010040	Loantaka Brook	PHOSPHORUS, TOTAL	01378760, GSWA_LB2, GSWA_LB4, GSWA_LB6	35044	2008	2008	Aquatic Life General
11	02040105200010-01	HUC02040105200010	Lockatong Ck (above Rt 12)	PHOSPHORUS, TOTAL	L8a, L9, L9a	12369	2005	2006	Aquatic Life General
11	02040105200020-01	HUC02040105200020	Lockatong Ck (Milltown to Rt 12)	PHOSPHORUS, TOTAL	L4	12369	2005	2006	Aquatic Life General
1	02040105120010-01	HUC02040105120010	Lopatcong Creek (above Rt 57)	ESCHERICHIA COLI (E. COLI)	01455099	12384	2005	2008	Recreation
1	02040105120020-01	HUC02040105120020	Lopatcong Creek (below Rt 57) incl UDRV	ESCHERICHIA COLI (E. COLI)	01455099	12384	2005	2006	Recreation
9	02030105140010-01	HUC02030105140010	Manalapan Brook (above 40d 16m 15s)	ESCHERICHIA COLI (E. COLI)	01405340, BFBM000218	9954	2003	2006	Recreation
9	02030105140030-01	HUC02030105140030	Manalapan Brook (below Lake Manalapan)	ESCHERICHIA COLI (E. COLI)	01405440	9952	2003	2006	Recreation

9	02030105140030-01	HUC02030105140030	Manalapan Brook (below Lake Manalapan)	MERCURY IN FISH TISSUE	De Voe Lake	37909	2009	2008	Fish Consumption
9	02030105140020-01	HUC02030105140020	Manalapan Brook (incl LkManlpn to 40d16m15s	ESCHERICHIA COLI (E. COLI)	01405340	9954	2003	2006	Recreation
9	02030105140020-01	HUC02030105140020	Manalapan Brook (incl LkManlpn to 40d16m15s	PHOSPHORUS, TOTAL	01405340, Manalapan_Lake-09	10559	2003	2006	Aquatic Life General
12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	ESCHERICHIA COLI (E. COLI)	MCHD-16	11012	2003	2006	Recreation
12	02030104100010-01	HUC02030104100010	Manasquan R (above 74d17m50s road)	PHOSPHORUS, TOTAL	01407820, NJW04459-291	12327	2005	2006	Aquatic Life General
12	02030104100100-01	HUC02030104100100	Manasquan R (below Rt 70 bridge)	ENTEROCOCCUS	MCHD-84, MCHD-87	31391	2006	2008	Recreation
12	02030104100100-01	HUC02030104100100	Manasquan R (below Rt 70 bridge)	TOTAL COLIFORM	Shellfish Network	31391	2006	2006	Shellfish Harvest
12	02030104100050-01	HUC02030104100050	Manasquan R (gage to West Farms Rd)	ESCHERICHIA COLI (E. COLI)	01407900, 01408000	9959	2003	2006	Recreation
12	02030104100050-01	HUC02030104100050	Manasquan R (gage to West Farms Rd)	PHOSPHORUS, TOTAL	01408000	12327	2005	2006	Aquatic Life General
12	02030104100090-01	HUC02030104100090	Manasquan R (Rt 70 br to 74d07m30s)	ENTEROCOCCUS	MCHD-79	31391	2006	2012	Recreation
12	02030104100090-01	HUC02030104100090	Manasquan R (Rt 70 br to 74d07m30s)	ESCHERICHIA COLI (E. COLI)	MCHD-78	31391	2006	2006	Recreation
12	02030104100090-01	HUC02030104100090	Manasquan R (Rt 70 br to 74d07m30s)	TOTAL COLIFORM	Shellfish Network	31391	2006	2006	Shellfish Harvest
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	ESCHERICHIA COLI (E. COLI)	01407868	10998	2003	2006	Recreation
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	PHOSPHORUS, TOTAL	01407846, 01407862, 01407868, MCHD-25	12326	2005	2006	Aquatic Life General
12	02030104100030-01	HUC02030104100030	Manasquan R (West Farms Rd to Rt 9)	ESCHERICHIA COLI (E. COLI)	01407892, 01407900, 01408000, MCHD-73	9959	2003	2006	Recreation
12	02030104100030-01	HUC02030104100030	Manasquan R (West Farms Rd to Rt 9)	PHOSPHORUS, TOTAL	01407892, 01408000, MCHD-73	12327	2005	2006	Aquatic Life General
18	02040202130020-01	HUC02040202130020	Mantua Creek (road to Sewell to Rt 47)	PHOSPHORUS, TOTAL	Bethel_Lake-18	10573	2003	2008	Aquatic Life General
17	02040206190030-01	HUC02040206190030	Manumuskin River (below Rt 49)	TOTAL COLIFORM	Shellfish Network	31524	2006	2014	Shellfish Harvest
13	02040301060040-01	HUC02040301060040	Maple Root Branch (Toms River)	ESCHERICHIA COLI (E. COLI)	01408285	31400	2006	2016	Recreation
12	02030104100040-01	HUC02030104100040	Marsh Bog Brook	ESCHERICHIA COLI (E. COLI)	01407997	9964	2003	2006	Recreation
12	02030104060020-01	HUC02030104060020	Matawan Creek (above Ravine Drive)	MERCURY IN FISH TISSUE	Lefferts Lake	37909	2009	2010	Fish Consumption
9	02030105150040-01	HUC02030105150040	Matchaponix Brook (above/incl Pine Bk)	ESCHERICHIA COLI (E. COLI)	01405195	10594	2003	2006	Recreation
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	ESCHERICHIA COLI (E. COLI)	01405195	10594	2003	2016	Recreation
14	02040301200110-01	HUC02040301200110	Mattix Run (Nacote Creek)	TOTAL COLIFORM	Shellfish Network	31405	2006	2014	Shellfish Harvest
17	02040206200050-01	HUC02040206200050	Maurice River (below Leesburg) to EastPt	ENTEROCOCCUS	3848B, 3848C, 3900A, 3900D, 3900G, 3900H, 3900J, 3900L, 3900M	31524	2006	2008	Recreation
17	02040206200050-01	HUC02040206200050	Maurice River (below Leesburg) to EastPt	TOTAL COLIFORM	Shellfish Network	31524	2006	2006	Shellfish Harvest

17	02040206140010-01	HUC02040206140010	Maurice River (BlkwtrBr to/incl WillowGroveLk)	MERCURY IN FISH TISSUE	Willow Grove Lake	37909	2009	2008	Fish Consumption
17	02040206200040-01	HUC02040206200040	Maurice River (Leesburg to Rt 548)	TOTAL COLIFORM	Shellfish Network	31524	2006	2008	Shellfish Harvest
17	02040206170030-01	HUC02040206170030	Maurice River (Menantico Ck to UnionLake)	ESCHERICHIA COLI (E. COLI)	01411907	31524	2006	2012	Recreation
17	02040206170030-01	HUC02040206170030	Maurice River (Menantico Ck to UnionLake)	TOTAL COLIFORM	Shellfish Network	31524	2006	2012	Shellfish Harvest
17	02040206200030-01	HUC02040206200030	Maurice River (Rt 548 to Menantico Ck)	TOTAL COLIFORM	Shellfish Network	31524	2006	2014	Shellfish Harvest
17	02040206140060-01	HUC02040206140060	Maurice River (Sherman Ave to Blackwater Br)	ESCHERICHIA COLI (E. COLI)	01411800	9896	2003	2006	Recreation
17	02040206160030-01	HUC02040206160030	Maurice River (Union Lake to Sherman Ave)	ESCHERICHIA COLI (E. COLI)	01411800	9895	2003	2010	Recreation
9	02030105150020-01	HUC02030105150020	McGellairds Brook (above Taylors Mills)	PHOSPHORUS, TOTAL	MCHD-61, Topanemus_Lake-09	10558	2003	2006	Aquatic Life General
9	02030105150030-01	HUC02030105150030	McGellairds Brook (below Taylors Mills)	ESCHERICHIA COLI (E. COLI)	01405180, MCHD-22	10587	2003	2006	Recreation
17	02040206180030-01	HUC02040206180030	Menantico Creek (above Rt 552)	MERCURY IN FISH TISSUE	Menantico Sands Pond	40821	2011	2010	Fish Consumption
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	ESCHERICHIA COLI (E. COLI)	01412005	31524	2006	2008	Recreation
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	MERCURY IN FISH TISSUE	Menantico Sand Ponds	37909	2009	2010	Fish Consumption
17	02040206180050-01	HUC02040206180050	Menantico Creek (below Rt 552)	TOTAL COLIFORM	Shellfish Network	31524	2006	2014	Shellfish Harvest
1	02040105140040-01	HUC02040105140040	Merrill Creek	ESCHERICHIA COLI (E. COLI)	01455200, 01455240	9880	2003	2008	Recreation
1	02040105140040-01	HUC02040105140040	Merrill Creek	MERCURY IN FISH TISSUE	Merrill Creek Reservoir	37909	2009	2016	Fish Consumption
13	BarnegatBay03	BarnegatBay03	Metedeconk and Lower Tribs - Bay	TOTAL COLIFORM	Shellfish Network	31396	2006	2006	Shellfish Harvest
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	ESCHERICHIA COLI (E. COLI)	INTAKE	31399	2006	2006	Recreation
13	BarnegatBay02	BarnegatBay02	Metedeconk R Estuary	ENTEROCOCCUS	OC0103	31399	2006	2008	Recreation
13	BarnegatBay02	BarnegatBay02	Metedeconk R Estuary	TOTAL COLIFORM	Shellfish Network	31399	2006	2006	Shellfish Harvest
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	ESCHERICHIA COLI (E. COLI)	MCHD-6, NK, NM	10531	2003	2006	Recreation
13	02040301020010-01	HUC02040301020010	Metedeconk R NB (above I-195)	PHOSPHORUS, TOTAL	MCHD-6, NK, NM, NP	12334	2005	2006	Aquatic Life General
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	ESCHERICHIA COLI (E. COLI)	01408100, BTNA, MCHD-23, NA, NB, ND, NF	10531	2003	2006	Recreation
13	02040301020020-01	HUC02040301020020	Metedeconk R NB (Rt 9 to I-195)	ESCHERICHIA COLI (E. COLI)	01408100, MCHD-19, NF, NG, NI	10531	2003	2006	Recreation
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	ESCHERICHIA COLI (E. COLI)	BT02, SA, SC	10530	2003	2006	Recreation
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	ESCHERICHIA COLI (E. COLI)	SF, SG, SI	10530	2003	2008	Recreation
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	MERCURY IN FISH TISSUE	Lake Carasaljo	37909	2009	2016	Fish Consumption

9	02030105120180-01	HUC02030105120180	Middle Brook	MERCURY IN FISH TISSUE	Bound Brook,Delaware -Raritan Canal @ South Bound Brook	37909	2009	2010	Fish Consumption
9	02030105120060-01	HUC02030105120060	Middle Brook WB	ESCHERICHIA COLI (E. COLI)	01403150, 01403171	12396	2005	2006	Recreation
17	02040206100010-01	HUC02040206100010	Middle Marsh Ck (DrumboCk to Sea Breeze)	TOTAL COLIFORM	Shellfish Network	31525	2006	2006	Shellfish Harvest
15	02040302050120-01	HUC02040302050120	Middle River / Peters Creek	MERCURY IN FISH TISSUE	Corbin City Impoundment #3	37909	2009	2010	Fish Consumption
15	02040302050120-01	HUC02040302050120	Middle River / Peters Creek	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	ESCHERICHIA COLI (E. COLI)	01409305	31522	2006	2016	Recreation
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	MERCURY IN FISH TISSUE	Pohatcong Pond	37909	2009	2010	Fish Consumption
6	02030103030080-01	HUC02030103030080	Mill Brook (Morris Co)	ESCHERICHIA COLI (E. COLI)	01379870	11009	2003	2008	Recreation
13	02040301130030-01	HUC02040301130030	Mill Ck (below GS Parkway)/Manahawkin Ck	ESCHERICHIA COLI (E. COLI)	BT11	31521	2006	2016	Recreation
13	02040301130030-01	HUC02040301130030	Mill Ck (below GS Parkway)/Manahawkin Ck	MERCURY IN FISH TISSUE	Lake Manahawkin	37909	2009	2010	Fish Consumption
17	02040206090050-01	HUC02040206090050	Mill Creek (below Maple House Bk)	TOTAL COLIFORM	Shellfish Network	31422	2006	2014	Shellfish Harvest
15	02040302070060-01	HUC02040302070060	Mill Creek / Back Run (Tuckahoe River)	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
16	02040302080080-01	HUC02040302080080	Mill Creek / Jones Creek / Taylor Creek	TOTAL COLIFORM	Shellfish Network	31412	2006	2008	Shellfish Harvest
16	02040302080030-01	HUC02040302080030	Mill Creek / Sunks Ck / Big Elder Creek	TOTAL COLIFORM	Shellfish Network	31411	2006	2008	Shellfish Harvest
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	ESCHERICHIA COLI (E. COLI)	01400540	9948	2003	2006	Recreation
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	PHOSPHORUS, TOTAL	01400540	65982	2016	2016	Aquatic Life General
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	TOTAL SUSPENDED SOLIDS (TSS)	01400540	65982	2016	2016	Aquatic Life General
10	02030105110140-01	HUC02030105110140	Millstone R (AmwellRd to BlackwellsMills)	MERCURY IN FISH TISSUE	Delaware and Raritan Canal	37909	2009	2010	Fish Consumption
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	ESCHERICHIA COLI (E. COLI)	01400540, 01400560	9948	2003	2006	Recreation
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	PHOSPHORUS, TOTAL	01400540, 01400560	65982	2016	2016	Aquatic Life General
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	TOTAL SUSPENDED SOLIDS (TSS)	01400540	65982	2016	2016	Aquatic Life General
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	ESCHERICHIA COLI (E. COLI)	01402540	9934	2003	2006	Recreation
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	MERCURY IN FISH TISSUE	Millstone River @Manville	37909	2009	2010	Fish Consumption
10	02030105110110-01	HUC02030105110110	Millstone R (BlackwellsMills to BedenBk)	MERCURY IN FISH TISSUE	Delaware -Raritan Canal @ Griggstown	37909	2009	2010	Fish Consumption
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	DISSOLVED OXYGEN	UMR3	65982	2016	2016	Aquatic Life General
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	PHOSPHORUS, TOTAL	01400650, UMR2, UMR3	65982	2016	2016	Aquatic Life General

10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	MERCURY IN FISH TISSUE	Carnegie Lake	37909	2009	2008	Fish Consumption
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	PHOSPHORUS, TOTAL	01401440	65982	2016	2016	Aquatic Life General
10	02030105100030-01	HUC02030105100030	Millstone R (RockyBk to Applegarth road)	ESCHERICHIA COLI (E. COLI)	01400560	9948	2003	2008	Recreation
10	02030105100030-01	HUC02030105100030	Millstone R (RockyBk to Applegarth road)	PHOSPHORUS, TOTAL	01400560	65982	2016	2016	Aquatic Life General
10	02030105100140-01	HUC02030105100140	Millstone R (Rt 1 to Cranbury Bk)	PHOSPHORUS, TOTAL	UMR3	65982	2016	2016	Aquatic Life General
12	02030104070050-01	HUC02030104070050	Mine Brook (Monmouth Co)	ESCHERICHIA COLI (E. COLI)	01407450, MCHD-58	31392	2006	2012	Recreation
12	02030104100060-01	HUC02030104100060	Mingamahone Brook (above Asbury Rd)	ESCHERICHIA COLI (E. COLI)	01408009	10999	2003	2006	Recreation
12	02030104100070-01	HUC02030104100070	Mingamahone Brook (below Asbury Rd)	ESCHERICHIA COLI (E. COLI)	BFBM000164	10999	2003	2016	Recreation
11	02040105240030-01	HUC02040105240030	Miry Run (Assunpink Cr)	ESCHERICHIA COLI (E. COLI)	01463850	10519	2003	2006	Recreation
11	02040105240030-01	HUC02040105240030	Miry Run (Assunpink Cr)	PHOSPHORUS, TOTAL	01463850	33756	2007	2008	Aquatic Life General
16	02040302080060-01	HUC02040302080060	Mommy Teal Ck / Cresse Ck / Gravelly Run	TOTAL COLIFORM	Shellfish Network	31412	2006	2014	Shellfish Harvest
14	02040301210020-01	HUC02040301210020	Mott Creek (Oysterbed Pt to Oyster Ck)	TOTAL COLIFORM	Shellfish Network	31403	2006	2014	Shellfish Harvest
1	02040105090040-01	HUC02040105090040	Mountain Lake Brook	MERCURY IN FISH TISSUE	Mountain Lake	37909	2009	2008	Fish Consumption
13	02040301020040-01	HUC02040301020040	Muddy Ford Brook	ESCHERICHIA COLI (E. COLI)	MCHD-17, MF-1	10548	2003	2006	Recreation
17	02040206150050-01	HUC02040206150050	Muddy Run (incl ParvinLk to Palatine Lk)	MERCURY IN FISH TISSUE	Parvin Lake	37909	2009	2010	Fish Consumption
8	02030105020030-01	HUC02030105020030	Mulhockaway Creek	ESCHERICHIA COLI (E. COLI)	01396660	9947	2003	2008	Recreation
14	02040301170140-01	HUC02040301170140	Mullica River (BatstoR to Nescochague Lake)	TOTAL COLIFORM	Shellfish Network	31404	2006	2014	Shellfish Harvest
14	02040301160140-01	HUC02040301160140	Mullica River (39d40m30s to Rt 206)	MERCURY IN FISH TISSUE	Mullica River from Atsion to Pleasantville	37909	2009	2006	Fish Consumption
14	02040301170040-01	HUC02040301170040	Mullica River (BatstoR to PleasantMills)	TOTAL COLIFORM	Shellfish Network	31404	2006	2014	Shellfish Harvest
14	02040301210010-01	HUC02040301210010	Mullica River (below GSP bridge)	TOTAL COLIFORM	Shellfish Network	31404	2006	2006	Shellfish Harvest
14	02040301200080-01	HUC02040301200080	Mullica River (GSP bridge to Turtle Ck)	TOTAL COLIFORM	Shellfish Network	31404	2006	2006	Shellfish Harvest
14	02040301170080-01	HUC02040301170080	Mullica River (Lower Bank Rd to Rt 563)	TOTAL COLIFORM	Shellfish Network	31404	2006	2006	Shellfish Harvest
14	02040301160150-01	HUC02040301160150	Mullica River (Pleasant Mills to 39d40m30s)	MERCURY IN FISH TISSUE	Atsion Lake	37909	2009	2006	Fish Consumption
14	02040301160030-01	HUC02040301160030	Mullica River (Rt 206 to Jackson Road)	MERCURY IN FISH TISSUE	Atsion Lake	37909	2009	2006	Fish Consumption
14	02040301170060-01	HUC02040301170060	Mullica River (Rt 563 to Batsto River)	TOTAL COLIFORM	Shellfish Network	31404	2006	2006	Shellfish Harvest
14	02040301170130-01	HUC02040301170130	Mullica River (Turtle Ck to Lower BankRd)	TOTAL COLIFORM	Shellfish Network	31404	2006	2006	Shellfish Harvest

1	02040105160040-01	HUC02040105160040	Musconetcong R (75d 00m to Rt 31)	ESCHERICHIA COLI (E. COLI)	01457000	9875	2003	2006	Recreation
1	02040105160070-01	HUC02040105160070	Musconetcong R (below Warren Glen)	ESCHERICHIA COLI (E. COLI)	01457400	10506	2003	2006	Recreation
1	02040105160020-01	HUC02040105160020	Musconetcong R (Changewater to HancesBk)	ESCHERICHIA COLI (E. COLI)	01456200	10507	2003	2006	Recreation
1	02040105160010-01	HUC02040105160010	Musconetcong R (Hances Bk thru Trout Bk)	ESCHERICHIA COLI (E. COLI)	01456200	10507	2003	2006	Recreation
1	02040105160050-01	HUC02040105160050	Musconetcong R (I-78 to 75d 00m)	ESCHERICHIA COLI (E. COLI)	01457000	9875	2003	2006	Recreation
1	02040105150080-01	HUC02040105150080	Musconetcong R (SaxtonFalls to Waterloo)	ESCHERICHIA COLI (E. COLI)	01456200	10507	2003	2008	Recreation
1	02040105150100-01	HUC02040105150100	Musconetcong R (Trout Bk to SaxtonFalls)	ESCHERICHIA COLI (E. COLI)	01456200	10507	2003	2008	Recreation
1	02040105160060-01	HUC02040105160060	Musconetcong R (Warren Glen to I-78)	ESCHERICHIA COLI (E. COLI)	01457000, 01457120	9875	2003	2006	Recreation
1	02040105150110-01	HUC02040105150110	Musconetcong R (Waterloo area)	ESCHERICHIA COLI (E. COLI)	01455801	12385	2005	2010	Recreation
1	02040105150070-01	HUC02040105150070	Musconetcong R (Waterloo to/incl WillsBk)	ESCHERICHIA COLI (E. COLI)	01455700	12385	2005	2006	Recreation
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	PHOSPHORUS, TOTAL	Lake_Musconetcong-01	9923	2003	2006	Aquatic Life General
17	02040206200020-01	HUC02040206200020	Muskee Creek	TOTAL COLIFORM	Shellfish Network	31524	2006	2014	Shellfish Harvest
14	02040301200120-01	HUC02040301200120	Nacote Creek (below/incl Mill Pond)	TOTAL COLIFORM	Shellfish Network	31405	2006	2006	Shellfish Harvest
17	02040206100060-01	HUC02040206100060	Nantuxent Creek (above Newport Landing)	MERCURY IN FISH TISSUE	Cedarville Ponds,Delaware Bay Tribs	37909	2009	2010	Fish Consumption
17	02040206100060-01	HUC02040206100060	Nantuxent Creek (above Newport Landing)	TOTAL COLIFORM	Shellfish Network	31423	2006	2006	Shellfish Harvest
17	02040206100070-01	HUC02040206100070	Nantuxent Creek (below Newport Landing)	TOTAL COLIFORM	Shellfish Network	31423	2006	2006	Shellfish Harvest
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	ENTEROCOCCUS	MCHD-37, MCHD-42, MCHD-88	31394	2006	2016	Recreation
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	ESCHERICHIA COLI (E. COLI)	01407538	31392	2004	2006	Recreation
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	TOTAL COLIFORM	Shellfish Network	31392	2006	2006	Shellfish Harvest
12	02030104070120-01	HUC02030104070120	Navesink R mouth	TOTAL COLIFORM	Shellfish Network	31392	2006	2006	Shellfish Harvest
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	PHOSPHORUS, TOTAL	01398000, NR2	65982	2016	2016	Aquatic Life General
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	ESCHERICHIA COLI (E. COLI)	01398000	9944	2003	2006	Recreation
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	PHOSPHORUS, TOTAL	01398000, BFBM000198, NR1	65982	2016	2016	Aquatic Life General
11	02040105230030-01	HUC02040105230030	New Sharon Branch (Assunpink Creek)	MERCURY IN FISH TISSUE	Assunpink Creek	40821	2011	2006	Fish Consumption
17	02040206110010-01	HUC02040206110010	Newport Neck (Nantuxent to Beadons Ck)	TOTAL COLIFORM	Shellfish Network	31423	2006	2014	Shellfish Harvest
12	02030104070090-01	HUC02030104070090	Nut Swamp Brook	ESCHERICHIA COLI (E. COLI)	MCHD-89	31392	2006	2016	Recreation

13	02040301070060-01	HUC02040301070060	Old Hurricane Brook (above 74d22m30s)	ESCHERICHIA COLI (E. COLI)	AN0531	31400	2006	2016	Recreation
18	02040202160010-01	HUC02040202160010	Oldmans Creek (above Commissioners Rd)	ESCHERICHIA COLI (E. COLI)	01477440	10534	2003	2006	Recreation
18	02040202160050-01	HUC02040202160050	Oldmans Creek (Center Sq Rd to KingsHwy)	ESCHERICHIA COLI (E. COLI)	01477510	9904	2003	2006	Recreation
18	02040202160050-01	HUC02040202160050	Oldmans Creek (Center Sq Rd to KingsHwy)	PHOSPHORUS, TOTAL	01477510	12345	2005	2006	Aquatic Life General
18	02040202160030-01	HUC02040202160030	Oldmans Creek (Kings Hwy to Rt 45)	ESCHERICHIA COLI (E. COLI)	01477510	9904	2003	2006	Recreation
18	02040202160030-01	HUC02040202160030	Oldmans Creek (Kings Hwy to Rt 45)	PHOSPHORUS, TOTAL	01477510	12345	2005	2006	Aquatic Life General
19	02040202020020-01	HUC02040202020020	Ong Run / Jacks Run	ESCHERICHIA COLI (E. COLI)	01465965	33755	2007	2008	Recreation
17	02040206110030-01	HUC02040206110030	Oranoaken Creek	TOTAL COLIFORM	Shellfish Network	31424	2006	2014	Shellfish Harvest
14	02040301180060-01	HUC02040301180060	Oswego River (Andrews Rd to Sim Place Resv)	MERCURY IN FISH TISSUE	Lake Oswego	37909	2009	2010	Fish Consumption
14	02040301180070-01	HUC02040301180070	Oswego River (below Andrews Road)	MERCURY IN FISH TISSUE	Harrisville Pond	37909	2009	2008	Fish Consumption
5	02030103180040-01	HUC02030103180040	Overpeck Creek	PHOSPHORUS, TOTAL	0137859950, 01378600, 01378602, 01378604, 01378606, 01378608, NJ	10564	2003	2012	Aquatic Life General
13	02040301110050-01	HUC02040301110050	Oyster Creek (below Rt 532)	ESCHERICHIA COLI (E. COLI)	BT10	31396	2006	2016	Recreation
13	02040301110050-01	HUC02040301110050	Oyster Creek (below Rt 532)	TOTAL COLIFORM	Shellfish Network	31396	2006	2014	Shellfish Harvest
3	02030103050020-01	HUC02030103050020	Pacock Brook	MERCURY IN FISH TISSUE	Canistear Reservoir	37909	2009	2008	Fish Consumption
2	02020007020010-01	HUC02020007020010	Papakating Ck (above Frankford Plains)	ESCHERICHIA COLI (E. COLI)	01367780	10505	2003	2006	Recreation
2	02020007020070-01	HUC02020007020070	Papakating Ck (below Pellettown)	ESCHERICHIA COLI (E. COLI)	01367800, 01367860, 01367910	9884/10509	2003	2006	Recreation
2	02020007020070-01	HUC02020007020070	Papakating Ck (below Pellettown)	PHOSPHORUS, TOTAL	01367860, 01367910	11093	2004	2004	Aquatic Life General
2	02020007020030-01	HUC02020007020030	Papakating Ck (Pellettown-Frankford Plns)	ESCHERICHIA COLI (E. COLI)	01367800	10504	2003	2006	Recreation
2	02020007020040-01	HUC02020007020040	Papakating Ck WB(abv 74d39m30s side rd)	ESCHERICHIA COLI (E. COLI)	01367850	10513	2003	2006	Recreation
2	02020007020050-01	HUC02020007020050	Papakating Ck WB(blw 74d39m30s side rd)	ESCHERICHIA COLI (E. COLI)	01367850	10513	2003	2008	Recreation
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	ENTEROCOCCUS	R04	31394	2006	2006	Recreation
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	ESCHERICHIA COLI (E. COLI)	MCHD-32, MCHD-33	10995/1100	2003	2006	Recreation
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	TOTAL COLIFORM	Shellfish Network	31394	2006	2006	Shellfish Harvest
17	02040206080030-01	HUC02040206080030	Parsonage Run / Foster Run	PHOSPHORUS, TOTAL	01412710	12343	2005	2006	Aquatic Life General
5	02030103170010-01	HUC02030103170010	Pascack Brook (above Westwood gage)	ESCHERICHIA COLI (E. COLI)	01377500	10609	2003	2008	Recreation
5	02030103170010-01	HUC02030103170010	Pascack Brook (above Westwood gage)	PHOSPHORUS, TOTAL	01377358	10609	2005	2012	Aquatic Life General

5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	ESCHERICHIA COLI (E. COLI)	01377499, 01377500	10608	2003	2006	Recreation
5	02030103170020-01	HUC02030103170020	Pascack Brook (below Westwood gage)	PHOSPHORUS, TOTAL	01377499, MB001, MB002, MB004, MB005, MB006	12359	2005	2006	Aquatic Life General
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
4	02030103120080-01	HUC02030103120080	Passaic R Lwr (Dundee Dam to F.L. Ave)	PHOSPHORUS, TOTAL	NJHDG-4, PRTMDL-PA10	35044	2008	2008	Aquatic Life General
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	ESCHERICHIA COLI (E. COLI)	01389860	10602	2003	2008	Recreation
4	02030103120070-01	HUC02030103120070	Passaic R Lwr (Fair Lawn Ave to Goffle)	PHOSPHORUS, TOTAL	NJHDG-3	35044	2008	2008	Aquatic Life General
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	ESCHERICHIA COLI (E. COLI)	01389500	10610	2003	2010	Recreation
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goeffle Bk to Pump stn)	PHOSPHORUS, TOTAL	01389500, NJHDG-1, NJHDG-2	35044	2008	2008	Aquatic Life General
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	ESCHERICHIA COLI (E. COLI)	01389130	9967	2003	2006	Recreation
4	02030103120100-01	HUC02030103120100	Passaic R Lwr (Goffle Bk to Pompton R)	PHOSPHORUS, TOTAL	Passaic5	35044	2008	2008	Aquatic Life General
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
6	02030103010130-01	HUC02030103010130	Passaic R Upr (40d 45m to Snyder Ave)	ESCHERICHIA COLI (E. COLI)	01379500	9966	2003	2006	Recreation
6	02030103010130-01	HUC02030103010130	Passaic R Upr (40d 45m to Snyder Ave)	PHOSPHORUS, TOTAL	01379500, 01379504, BFBM000203, Passaic3	35044	2008	2008	Aquatic Life General
6	02030103010010-01	HUC02030103010010	Passaic R Upr (above Osborn Mills)	ESCHERICHIA COLI (E. COLI)	01378660	12381	2003	2006	Recreation
6	02030103010010-01	HUC02030103010010	Passaic R Upr (above Osborn Mills)	PHOSPHORUS, TOTAL	NJW04459-223	35044	2008	2008	Aquatic Life General
6	02030103010150-01	HUC02030103010150	Passaic R Upr (Columbia Rd to 40d 45m)	ESCHERICHIA COLI (E. COLI)	01379500	9967	2003	2006	Recreation
6	02030103010150-01	HUC02030103010150	Passaic R Upr (Columbia Rd to 40d 45m)	PHOSPHORUS, TOTAL	01379500, 01379504	35044	2008	2008	Aquatic Life General
6	02030103010070-01	HUC02030103010070	Passaic R Upr (Dead R to Osborn Mills)	ESCHERICHIA COLI (E. COLI)	01379000	9963	2003	2006	Recreation
6	02030103010160-01	HUC02030103010160	Passaic R Upr (HanoverRR to ColumbiaRd)	ESCHERICHIA COLI (E. COLI)	01379580	9967	2003	2008	Recreation
6	02030103010160-01	HUC02030103010160	Passaic R Upr (HanoverRR to ColumbiaRd)	PHOSPHORUS, TOTAL	01379580	35044	2008	2008	Aquatic Life General
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	ESCHERICHIA COLI (E. COLI)	01382000	9967	2003	2006	Recreation
6	02030103010180-01	HUC02030103010180	Passaic R Upr (Pine Bk br to Rockaway)	PHOSPHORUS, TOTAL	01382000, PRTMDL-PA5	35044	2008	2008	Aquatic Life General
6	02030103010110-01	HUC02030103010110	Passaic R Upr (Plainfield Rd to Dead R)	ESCHERICHIA COLI (E. COLI)	01379500	9966	2003	2006	Recreation
6	02030103010110-01	HUC02030103010110	Passaic R Upr (Plainfield Rd to Dead R)	PHOSPHORUS, TOTAL	01379500	35044	2008	2008	Aquatic Life General

6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	ESCHERICHIA COLI (E. COLI)	01382000	9967	2003	2006	Recreation
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	PHOSPHORUS, TOTAL	01382000, Passaic2, Passaic4, PRTMDL-PA7	35044	2008	2008	Aquatic Life General
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	ESCHERICHIA COLI (E. COLI)	01379580	9967	2003	2014	Recreation
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	MERCURY IN FISH TISSUE	Passaic River at Hatfield Swamp	37909	2009	2006	Fish Consumption
6	02030103010170-01	HUC02030103010170	Passaic R Upr (Rockaway to Hanover RR)	PHOSPHORUS, TOTAL	01379580, PRTMDL-PA5	35044	2008	2008	Aquatic Life General
6	02030103010120-01	HUC02030103010120	Passaic R Upr (Snyder to Plainfield Rd)	ESCHERICHIA COLI (E. COLI)	01379500	9966	2003	2006	Recreation
6	02030103010120-01	HUC02030103010120	Passaic R Upr (Snyder to Plainfield Rd)	PHOSPHORUS, TOTAL	01379310X, 01379500	35044	2008	2008	Aquatic Life General
15	02040302060030-01	HUC02040302060030	Patcong Creek (Somers Ave to Zion Rd)	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
1	02040105040060-01	HUC02040105040060	Paulins Kill (above Rt 15)	ESCHERICHIA COLI (E. COLI)	01443250, BA163, BA54	12386	2005	2006	Recreation
1	02040105040070-01	HUC02040105040070	Paulins Kill (Dry Brook to Rt 15)	ESCHERICHIA COLI (E. COLI)	BA55A	9891	2003	2006	Recreation
1	02040105040080-01	HUC02040105040080	Paulins Kill (PK Lk outlet to Dry Brook)	ESCHERICHIA COLI (E. COLI)	01443440	9891	2003	2006	Recreation
1	02040105040090-01	HUC02040105040090	Paulins Kill (Stillwater Vil to PK Lake)	ESCHERICHIA COLI (E. COLI)	01443440	9891	2003	2006	Recreation
4	02030103120010-01	HUC02030103120010	Peckman River (above CG Res trib)	ESCHERICHIA COLI (E. COLI)	01389600	10610	2003	2006	Recreation
4	02030103120010-01	HUC02030103120010	Peckman River (above CG Res trib)	PHOSPHORUS, TOTAL	Verona_Park_Lake-04	10563	2003	2008	Aquatic Life General
4	02030103120020-01	HUC02030103120020	Peckman River (below CG Res trib)	ESCHERICHIA COLI (E. COLI)	01389600	10610	2003	2006	Recreation
4	02030103120020-01	HUC02030103120020	Peckman River (below CG Res trib)	PHOSPHORUS, TOTAL	Passaic6	35044	2008	2008	Aquatic Life General
18	02040202100010-01	HUC02040202100010	Pennsauken Ck NB (above NJTPK)	ESCHERICHIA COLI (E. COLI)	01467066, 01467069	9902	2003	2008	Recreation
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	ESCHERICHIA COLI (E. COLI)	01467069	9902	2003	2006	Recreation
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	MERCURY IN FISH TISSUE	Strawbridge Lake at Moorestown	37909	2009	2008	Fish Consumption
18	02040202100020-01	HUC02040202100020	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	PHOSPHORUS, TOTAL	01467069, Strawbridge_Lake-18	9968	2002	2006	Aquatic Life General
18	02040202100040-01	HUC02040202100040	Pennsauken Ck SB (above Rt 41)	ESCHERICHIA COLI (E. COLI)	01467080	9901	2003	2006	Recreation
18	02040202100050-01	HUC02040202100050	Pennsauken Ck SB (below Rt 41)	ESCHERICHIA COLI (E. COLI)	01467080, 01467081, 0146708130	9901	2003	2006	Recreation
3	02030103050030-01	HUC02030103050030	Pequannock R (above OakRidge Res outlet)	MERCURY IN FISH TISSUE	Oak Ridge Reservoir	37909	2009	2008	Fish Consumption
3	02030103050030-01	HUC02030103050030	Pequannock R (above OakRidge Res outlet)	TEMPERATURE	01382170, 01382210, ABPKBK, BLPKBK	11105	2005	2006	Aquatic Life Trout
3	02030103050010-01	HUC02030103050010	Pequannock R (above Stockholm/Vernon Rd)	TEMPERATURE	ABPKBK	11105	2005	2006	Aquatic Life Trout
3	02030103050080-01	HUC02030103050080	Pequannock R (below Macopin gage)	MERCURY IN FISH TISSUE	Pompton R at Pequannock R, Also called Ramapo R at Pompton Plains	37909	2009	2006	Fish Consumption

3	02030103050080-01	HUC02030103050080	Pequannock R (below Macopin gage)	TEMPERATURE	01382500, 01382800, BTLR, MLTB, PQ15, RVDL, VSLTB	11105	2005	2016	Aquatic Life Trout
3	02030103050050-01	HUC02030103050050	Pequannock R (Charlotteburg to OakRidge)	TEMPERATURE	01382310, ABCLBK, ABCR, AN0262, BLCLBK, BLOR, CLBKLW, CLINTONB, I	11105	2005	2006	Aquatic Life Trout
3	02030103050060-01	HUC02030103050060	Pequannock R (Macopin gage to Charl'brg)	MERCURY IN FISH TISSUE	Echo Lake	37909	2009	2008	Fish Consumption
3	02030103050060-01	HUC02030103050060	Pequannock R (Macopin gage to Charl'brg)	TEMPERATURE	01382410, 01382450, 01382500, BLCR, MCRV, PQ7	11105	2005	2006	Aquatic Life Trout
1	02040105070030-01	HUC02040105070030	Pequest R (above Brighton)	ESCHERICHIA COLI (E. COLI)	01444970	10511	2005	2006	Recreation
1	02040105070060-01	HUC02040105070060	Pequest R (below Bear Swamp to Trout Bk)	ESCHERICHIA COLI (E. COLI)	01445100	9881	2003	2008	Recreation
1	02040105090060-01	HUC02040105090060	Pequest R (below Furnace Brook)	ESCHERICHIA COLI (E. COLI)	01445500, 01446400	10510	2003	2006	Recreation
1	02040105090020-01	HUC02040105090020	Pequest R (Cemetary Road to Drag Strip)	ESCHERICHIA COLI (E. COLI)	01445100, 01445500	9881	2003	2008	Recreation
1	02040105090010-01	HUC02040105090010	Pequest R (Drag Strip--below Bear Swamp)	ESCHERICHIA COLI (E. COLI)	01445100, 01445500	9881	2003	2008	Recreation
1	02040105090010-01	HUC02040105090010	Pequest R (Drag Strip--below Bear Swamp)	PHOSPHORUS, TOTAL	Ghost_Lake-01	39254/10556	2010/2003	2012	Aquatic Life General
1	02040105090030-01	HUC02040105090030	Pequest R (Furnace Bk to Cemetary Road)	ESCHERICHIA COLI (E. COLI)	01445500	9881	2003	2006	Recreation
9	02030105080010-01	HUC02030105080010	Peters Brook	ESCHERICHIA COLI (E. COLI)	01400395	10588	2003	2006	Recreation
12	02030104060060-01	HUC02030104060060	Pews Creek to Shrewsbury River	ESCHERICHIA COLI (E. COLI)	01407090	10994	2003	2006	Recreation
17	02040206070090-01	HUC02040206070090	Phillips Creek / Jacobs Creek	TOTAL COLIFORM	Shellfish Network	31422	2006	2014	Shellfish Harvest
10	02030105110100-01	HUC02030105110100	Pike Run (below Cruser Brook)	ESCHERICHIA COLI (E. COLI)	01401675, 01401700	10590	2003	2006	Recreation
10	02030105110100-01		Pike Run (below Cruser Brook)	PHOSPHORUS, TOTAL	01401700	65982	2016	2016	Aquatic Life General
12	02030104070080-01	HUC02030104070080	Pine Brook / Hockhockson Brook	ESCHERICHIA COLI (E. COLI)	01407520, MCHD-34, MCHD-75	10619	2003	2006	Recreation
12	02030104070080-01	HUC02030104070080	Pine Brook / Hockhockson Brook	TOTAL COLIFORM	Shellfish Network	31392	2006	2014	Shellfish Harvest
17	02040206090090-01	HUC02040206090090	Pine Mount Creek	TOTAL COLIFORM	Shellfish Network	31422	2006	2014	Shellfish Harvest
11	02040105200050-01	HUC02040105200050	Plum Creek	ESCHERICHIA COLI (E. COLI)	01461262	10521	2003	2006	Recreation
11	02040105200050-01	HUC02040105200050	Plum Creek	PHOSPHORUS, TOTAL	W4	12370	2005	2006	Aquatic Life General
2	02020007040030-01	HUC02020007040030	Pochuck Ck/Glenwood Lk & northern trib	ESCHERICHIA COLI (E. COLI)	01368950	9890	2003	2008	Recreation
1	02040105140010-01	HUC02040105140010	Pohatcong Ck (above Rt 31)	ESCHERICHIA COLI (E. COLI)	01455120	12387	2005	2008	Recreation
1	02040105140070-01	HUC02040105140070	Pohatcong Ck (below Springtown) incl UDRV	ESCHERICHIA COLI (E. COLI)	DRBCNJ0027	9880	2003	2006	Recreation
1	02040105140020-01	HUC02040105140020	Pohatcong Ck (Brass Castle Ck to Rt 31)	ESCHERICHIA COLI (E. COLI)	01455200	12387	2005	2006	Recreation
1	02040105140030-01	HUC02040105140030	Pohatcong Ck (Edison Rd-Brass Castle Ck)	ESCHERICHIA COLI (E. COLI)	01455200	9880	2003	2006	Recreation

1	02040105140050-01	HUC02040105140050	Pohatcong Ck (Merrill Ck to Edison Rd)	ESCHERICHIA COLI (E. COLI)	01455200	9880	2003	2006	Recreation
1	02040105140060-01	HUC02040105140060	Pohatcong Ck (Springtown to Merrill Ck)	ESCHERICHIA COLI (E. COLI)	01455240	9880	2003	2006	Recreation
1	02040105140060-01	HUC02040105140060	Pohatcong Ck (Springtown to Merrill Ck)	MERCURY IN FISH TISSUE		37909	2009	2010	Fish Consumption
13	BarnegatBay01	BarnegatBay01	Point Pleasant Canal and Bay Head Harbor	TOTAL COLIFORM	Shellfish Network	31399	2006	2006	Shellfish Harvest
3	02030103110020-01	HUC02030103110020	Pompton River	MERCURY IN FISH TISSUE	Passaic River at Pompton	37909	2009	2006	Fish Consumption
3	02030103110020-01	HUC02030103110020	Pompton River	PHOSPHORUS, TOTAL	01388500, 01388910, PRTMDL-PO3	35044	2008	2006	Aquatic Life General
16	02040206230070-01	HUC02040206230070	Pond Creek / Cape May Canal West	PHOSPHORUS, TOTAL	Lily_Lake-16	10581	2003	2004	Aquatic Life General
16	02040206230070-01	HUC02040206230070	Pond Creek / Cape May Canal West	TOTAL COLIFORM	Shellfish Network	31412	2006	2014	Shellfish Harvest
12	02030104090020-01	HUC02030104090020	Poplar Brook	ESCHERICHIA COLI (E. COLI)	01407630	10997	2003	2006	Recreation
12	02030104070100-01	HUC02030104070100	Poricy Bk/Swimming R(below SwimmingR Rd)	ENTEROCOCCUS	MCHD-41	31392	2006	2012	Recreation
12	02030104070100-01	HUC02030104070100	Poricy Bk/Swimming R(below SwimmingR Rd)	ESCHERICHIA COLI (E. COLI)	BFBM000162	31392	2006	2006	Recreation
12	02030104070100-01	HUC02030104070100	Poricy Bk/Swimming R(below SwimmingR Rd)	TOTAL COLIFORM	Shellfish Network	31392	2006	2006	Shellfish Harvest
8	02030105050050-01	HUC02030105050050	Pottersville trib (Lamington River)	ESCHERICHIA COLI (E. COLI)	01399520	9941	2003	2008	Recreation
4	02030103120030-01	HUC02030103120030	Preakness Brook / Naachtpunkt Brook	ESCHERICHIA COLI (E. COLI)	01389080	10613	2003	2006	Recreation
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	MERCURY IN FISH TISSUE	Round Valley Reservoir	37909	2009	2008	Fish Consumption
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	PHOSPHORUS, TOTAL	Round_Valley_Reservoir_Recreation_Area-08	10555	2003	2008	Aquatic Life General
18	02040202150020-01	HUC02040202150020	Raccoon Ck (Rt 45 to/incl Clems Run)	MERCURY IN FISH TISSUE		37909	2009	2010	Fish Consumption
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	MERCURY IN FISH TISSUE	Raccoon Creek at Swedesboro	37909	2009	2006	Fish Consumption
7	02030104050040-01	HUC02030104050040	Rahway River (Kenilworth Blvd to EB / WB)	ESCHERICHIA COLI (E. COLI)	01394200, 01394500	9886	2003	2006	Recreation
7	02030104050060-01	HUC02030104050060	Rahway River (Robinsons Br to KenilworthBlvd)	ESCHERICHIA COLI (E. COLI)	01395000	9885	2003	2006	Recreation
7	02030104050020-01	HUC02030104050020	Rahway River EB	ESCHERICHIA COLI (E. COLI)	01394200	9886	2003	2006	Recreation
7	02030104050090-01	HUC02030104050090	Rahway River SB	ESCHERICHIA COLI (E. COLI)	01396030	12395	2005	2006	Recreation
7	02030104050010-01	HUC02030104050010	Rahway River WB	ESCHERICHIA COLI (E. COLI)	01393960	9887	2003	2006	Recreation
3	02030103100010-01	HUC02030103100010	Ramapo R (above 74d 11m 00s)	ESCHERICHIA COLI (E. COLI)	01387500	9960	2003	2006	Recreation
3	02030103100010-01	HUC02030103100010	Ramapo R (above 74d 11m 00s)	PHOSPHORUS, TOTAL	01387500	35046	2008	2008	Aquatic Life General
3	02030103100030-01	HUC02030103100030	Ramapo R (above Fyke Bk to 74d 11m 00s)	ESCHERICHIA COLI (E. COLI)	01387500	9960	2003	2008	Recreation

3	02030103100030-01	HUC02030103100030	Ramapo R (above Fyke Bk to 74d 11m 00s)	PHOSPHORUS, TOTAL	01387500	35046	2008	2008	Aquatic Life General
3	02030103100040-01	HUC02030103100040	Ramapo R (Bear Swamp Bk thru Fyke Bk)	ESCHERICHIA COLI (E. COLI)	01387500, 01387811	9960	2003	2008	Recreation
3	02030103100040-01	HUC02030103100040	Ramapo R (Bear Swamp Bk thru Fyke Bk)	PHOSPHORUS, TOTAL	01387500	35046	2008	2008	Aquatic Life General
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	ESCHERICHIA COLI (E. COLI)	01387811	9960	2003	2012	Recreation
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	PHOSPHORUS, TOTAL	01387811, Pompton_Lake-03	35046	2008	2008	Aquatic Life General
3	02030103100050-01	HUC02030103100050	Ramapo R (Crystal Lk br to BearSwamp Bk)	ESCHERICHIA COLI (E. COLI)	01387811	9960	2003	2008	Recreation
3	02030103100050-01	HUC02030103100050	Ramapo R (Crystal Lk br to BearSwamp Bk)	PHOSPHORUS, TOTAL	01387811	35046	2008	2008	Aquatic Life General
19	02040202040050-01	HUC02040202040050	Rancocas Ck NB (below Smithville)	ESCHERICHIA COLI (E. COLI)	01467005	10538	2003	2006	Recreation
19	02040202050060-01	HUC02040202050060	Rancocas Ck SB (above Friendship Ck)	MERCURY IN FISH TISSUE	Rancocas Tributary between Vincetown/Buddtown	37909	2009	2010	Fish Consumption
19	02040202050090-01	HUC02040202050090	Rancocas Ck SB (BobbysRun to Vincentown)	MERCURY IN FISH TISSUE	Rancocas Tributary between Vincetown/Buddtown	37909	2009	2010	Fish Consumption
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	MERCURY IN FISH TISSUE	Rancocas Tributary between Vincetown/Buddtown	37909	2009	2010	Fish Consumption
19	02040202060080-01	HUC02040202060080	Rancocas Ck SW Branch (above Medford br)	ESCHERICHIA COLI (E. COLI)	01465857	33755	2007	2006	Recreation
19	02040202060100-01	HUC02040202060100	Rancocas Ck SW Branch (below Medford br)	ESCHERICHIA COLI (E. COLI)	01465884	10539	2003	2006	Recreation
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	MERCURY IN WATER COLUMN	HEP	11081	1996	2016	Fish Consumption
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	ESCHERICHIA COLI (E. COLI)	01403300	9955	2003	2006	Recreation
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	MERCURY IN FISH TISSUE	Bound Brook,Delaware -Raritan Canal @ South Bound Brook	37909	2009	2006	Fish Consumption
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	TOTAL SUSPENDED SOLIDS (TSS)	01403300	65982	2016	2016	Aquatic Life General
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	ESCHERICHIA COLI (E. COLI)	01403300	9955	2003	2006	Recreation
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	ESCHERICHIA COLI (E. COLI)	01400500	9953	2003	2006	Recreation
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	MERCURY IN FISH TISSUE	Raritan River at Millstone Creek	37909	2009	2010	Fish Consumption
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	PHOSPHORUS, TOTAL	RR1	65982	2016	2016	Aquatic Life General
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	TOTAL SUSPENDED SOLIDS (TSS)	RR1	65982	2016	2016	Aquatic Life General
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	ESCHERICHIA COLI (E. COLI)	01400500	9953	2003	2006	Recreation
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	MERCURY IN FISH TISSUE	Raritan River at Millstone Creek	37909	2009	2010	Fish Consumption
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	PHOSPHORUS, TOTAL	NJW04459-105, NJW04459-242	65982	2016	2016	Aquatic Life General
8	02030105060010-01	HUC02030105060010	Raritan R NB (above/incl India Bk)	ESCHERICHIA COLI (E. COLI)	01398195	9943	2003	2006	Recreation

8	02030105070030-01	HUC02030105070030	Raritan R NB (below Rt 28)	ESCHERICHIA COLI (E. COLI)	01400000	9938	2003	2006	Recreation
8	02030105060030-01	HUC02030105060030	Raritan R NB (incl McVickers to India Bk)	ESCHERICHIA COLI (E. COLI)	01398260	9943	2003	2006	Recreation
8	02030105060090-01	HUC02030105060090	Raritan R NB (Lamington R to Mine Bk)	ESCHERICHIA COLI (E. COLI)	01399120	9942	2003	2006	Recreation
8	02030105060040-01	HUC02030105060040	Raritan R NB (Peapack Bk to McVickers Bk)	PHOSPHORUS, TOTAL	NBRR4-RLo	65982	2016	2016	Aquatic Life General
8	02030105060040-01	HUC02030105060040	Raritan R NB (Peapack Bk to McVickers Bk)	TOTAL SUSPENDED SOLIDS (TSS)	NBRR4-RLo	65982	2016	2016	Aquatic Life General
8	02030105070010-01	HUC02030105070010	Raritan R NB (Rt 28 to Lamington R)	ESCHERICHIA COLI (E. COLI)	01399820	9938	2003	2006	Recreation
8	02030105010040-01	HUC02030105010040	Raritan R SB (74d 44m 15s to Rt 46)	MERCURY IN FISH TISSUE	Raritan River South Branch @ Long Valley/Clairemont	37909	2009	2010	Fish Consumption
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	ESCHERICHIA COLI (E. COLI)	01396280	9892	2003	2006	Recreation
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	MERCURY IN FISH TISSUE	Raritan River South Branch, Clairemont Stretch	37909	2009	2010	Fish Consumption
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	PH	SBR4	65982	2016	2016	Aquatic Life General
8	02030105010050-01	HUC02030105010050	Raritan R SB (LongValley br to 74d44m15s)	ESCHERICHIA COLI (E. COLI)	01396219, 01396280	9892	2003	2006	Recreation
8	02030105010050-01	HUC02030105010050	Raritan R SB (LongValley br to 74d44m15s)	MERCURY IN FISH TISSUE	Raritan River South Branch @ Long Valley/Clairemont	37909	2009	2010	Fish Consumption
8	02030105040040-01	HUC02030105040040	Raritan R SB (NB to Pleasant Run)	MERCURY IN FISH TISSUE	Raritan River at Neshanic Station	37909	2009	2010	Fish Consumption
8	02030105040040-01	HUC02030105040040	Raritan R SB (NB to Pleasant Run)	PHOSPHORUS, TOTAL	01398102, SBRR10	65982	2016	2016	Aquatic Life General
8	02030105040010-01	HUC02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	ESCHERICHIA COLI (E. COLI)	01397400	9945	2003	2006	Recreation
8	02030105040010-01	HUC02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	MERCURY IN FISH TISSUE	Raritan River at Neshanic Station	37909	2009	2010	Fish Consumption
8	02030105040010-01	HUC02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	PHOSPHORUS, TOTAL	01397415, SBRR9	65982	2016	2016	Aquatic Life General
8	02030105020080-01	HUC02030105020080	Raritan R SB (Prescott Bk to River Rd)	ESCHERICHIA COLI (E. COLI)	01397000	9946	2003	2006	Recreation
8	02030105020070-01	HUC02030105020070	Raritan R SB (River Rd to Spruce Run)	PHOSPHORUS, TOTAL	SBRR6, SBRR7	65982	2016	2016	Aquatic Life General
8	02030105020070-01	HUC02030105020070	Raritan R SB (River Rd to Spruce Run)	TOTAL SUSPENDED SOLIDS (TSS)	SBRR6, SBRR7	65982	2016	2016	Aquatic Life General
8	02030105010080-01	HUC02030105010080	Raritan R SB (Spruce Run-StoneMill gage)	ESCHERICHIA COLI (E. COLI)	01396535	9909	2003	2006	Recreation
8	02030105010070-01	HUC02030105010070	Raritan R SB (StoneMill gage to Califon)	ESCHERICHIA COLI (E. COLI)	01396280	9909	2003	2006	Recreation
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	ESCHERICHIA COLI (E. COLI)	01397000, 01397400	9945	2003	2006	Recreation
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	MERCURY IN FISH TISSUE	Raritan River South Branch @ Flemington	37909	2009	2010	Fish Consumption
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	PHOSPHORUS, TOTAL	SBRR9	65982	2016	2016	Aquatic Life General
8	02030105040040-01	HUC02030105040040	Raritan River SB (NB to Pleasant Run)	PH	SBRR10	65982	2016	2016	Aquatic Life General

15	02040302010010-01	HUC02040302010010	Reeds Bay / Absecon Bay & tribs	TOTAL COLIFORM	Shellfish Network	31410	2006	2016	Shellfish Harvest
13	02040301070040-01	HUC02040301070040	Ridgeway Br (below Hope Chapel Rd)	ESCHERICHIA COLI (E. COLI)	01408492	31400	2006	2016	Recreation
13	02040301070040-01	HUC02040301070040	Ridgeway Br (below Hope Chapel Rd)	MERCURY IN FISH TISSUE	Success Lake	37909	2009	2006	Fish Consumption
13	02040301070030-01	HUC02040301070030	Ridgeway Br (Hope Chapel Rd to HarrisBr)	MERCURY IN FISH TISSUE	Success Lake	37909	2009	2006	Fish Consumption
16	02040206210010-01	HUC02040206210010	Riggins Ditch (Moores Beach to East Pt)	TOTAL COLIFORM	Shellfish Network	31524	2006	2008	Shellfish Harvest
3	02030103070080-01	HUC02030103070080	Ringwood Creek	MERCURY IN FISH TISSUE		37909	2009	2008	Fish Consumption
7	02030104050070-01	HUC02030104050070	Robinsons Br Rahway R (above Lake Ave)	ESCHERICHIA COLI (E. COLI)	01395500	10517	2003	2008	Recreation
7	02030104050080-01	HUC02030104050080	Robinsons Br Rahway R (below Lake Ave)	ESCHERICHIA COLI (E. COLI)	01395200, 01395500, 01395700, 01396003	10517	2003	2006	Recreation
10	02030105110060-01	HUC02030105110060	Rock Brook (above Camp Meeting Ave)	ESCHERICHIA COLI (E. COLI)	01401560	12398	2005	2006	Recreation
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	ESCHERICHIA COLI (E. COLI)	01399700, BFBM000044	9940	2003	2016	Recreation
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	PHOSPHORUS, TOTAL	01399700, 01399720	65982	2016	2016	Aquatic Life General
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	PHOSPHORUS, TOTAL	01399650, SBRC1-CLi	65982	2016	2016	Aquatic Life General
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	TOTAL SUSPENDED SOLIDS (TSS)	SBRC3-Clo	65982	2016	2016	Aquatic Life General
6	02030103030070-01	HUC02030103030070	Rockaway R (74d 33m 30s to Stephens Bk)	ESCHERICHIA COLI (E. COLI)	01379853	11009	2003	2006	Recreation
6	02030103030070-01	HUC02030103030070	Rockaway R (74d 33m 30s to Stephens Bk)	MERCURY IN FISH TISSUE	Rockaway River	37909	2009	2006	Fish Consumption
6	02030103030030-01	HUC02030103030030	Rockaway R (above Longwood Lake outlet)	ESCHERICHIA COLI (E. COLI)	01379680	11006	2003	2006	Recreation
6	02030103030030-01	HUC02030103030030	Rockaway R (above Longwood Lake outlet)	MERCURY IN FISH TISSUE	Rockaway River	37909	2009	2006	Fish Consumption
6	02030103030090-01	HUC02030103030090	Rockaway R (BM 534 brdg to 74d 33m 30s)	ESCHERICHIA COLI (E. COLI)	01379853	11009	2003	2006	Recreation
6	02030103030090-01	HUC02030103030090	Rockaway R (BM 534 brdg to 74d 33m 30s)	MERCURY IN FISH TISSUE	Rockaway River	37909	2009	2006	Fish Consumption
6	02030103030150-01	HUC02030103030150	Rockaway R (Boonton dam to Stony Brook)	MERCURY IN FISH TISSUE	Rockaway River,Boonton Reservoir	37909	2009	2006	Fish Consumption
6	02030103030170-01	HUC02030103030170	Rockaway R (Passaic R to Boonton dam)	ESCHERICHIA COLI (E. COLI)	01381200	9965	2003	2006	Recreation
6	02030103030170-01	HUC02030103030170	Rockaway R (Passaic R to Boonton dam)	MERCURY IN FISH TISSUE	Rockaway/Whippany Rivers	37909	2009	2006	Fish Consumption
6	02030103030170-01	HUC02030103030170	Rockaway R (Passaic R to Boonton dam)	PHOSPHORUS, TOTAL	01381200	35044	2008	2008	Aquatic Life General
6	02030103030040-01	HUC02030103030040	Rockaway R (Stephens Bk to Longwood Lk)	ESCHERICHIA COLI (E. COLI)	01379680	11006	2003	2006	Recreation
6	02030103030040-01	HUC02030103030040	Rockaway R (Stephens Bk to Longwood Lk)	MERCURY IN FISH TISSUE	Rockaway River	37909	2009	2006	Fish Consumption
6	02030103030140-01	HUC02030103030140	Rockaway R (Stony Brook to BM 534 brdg)	MERCURY IN FISH TISSUE	Rockaway River	37909	2009	2006	Fish Consumption

10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	PHOSPHORUS, TOTAL	NJW04459-024, RB4, Etra_Lake-10	65982	2016	2016	Aquatic Life General
4	02030103140040-01	HUC02030103140040	Saddle River (above Ridgewood gage)	ESCHERICHIA COLI (E. COLI)	01390400, 01390445, 01390500	10605	2003	2006	Recreation
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	ESCHERICHIA COLI (E. COLI)	01391500, 01391550	9958	2003	2006	Recreation
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood gage)	ESCHERICHIA COLI (E. COLI)	01390500	10604	2003	2010	Recreation
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	ESCHERICHIA COLI (E. COLI)	01391500	9958	2003	2006	Recreation
4	02030103140050-01	HUC02030103140050	Saddle River (Rt 4 to Hohokus)	ESCHERICHIA COLI (E. COLI)	01391500	9956	2003	2006	Recreation
17	02040206030010-01	HUC02040206030010	Salem R (above Woodstown gage)	MERCURY IN FISH TISSUE	Woodstown Memorial lake	37909	2009	2008	Fish Consumption
17	02040206030010-01	HUC02040206030010	Salem R (above Woodstown gage)	PHOSPHORUS, TOTAL	01482500, NJW04459-229, S1, S2, S3, S4, S8, S9	10575	2003	2006	Aquatic Life General
17	02040206030040-01	HUC02040206030040	Salem R (CoursesLanding to CountyHomeRd)	ESCHERICHIA COLI (E. COLI)	01482520, 01482530	9898/12377/12376/12378	2003/2005/2005/2005	2006	Recreation
16	02040206210050-01	HUC02040206210050	Savages Run (above East Creek Pond)	MERCURY IN FISH TISSUE	Lake Nummy	37909	2009	2008	Fish Consumption
17	02040206130010-01	HUC02040206130010	Scotland Run (above Fries Mill)	MERCURY IN FISH TISSUE	Wilson Lake	37909	2009	2008	Fish Consumption
17	02040206130040-01	HUC02040206130040	Scotland Run (below Delsea Drive)	MERCURY IN FISH TISSUE	Malaga Lake	37909	2009	2008	Fish Consumption
11	02040105240010-01	HUC02040105240010	Shabakunk Creek	ESCHERICHIA COLI (E. COLI)	01463810	9889	2003	2008	Recreation
11	02040105240020-01	HUC02040105240020	Shabakunk Creek WB	ESCHERICHIA COLI (E. COLI)	01463810	9889	2003	2008	Recreation
20	02040201070030-01	HUC02040201070030	Shady Brook/Spring Lake/Rowan Lake	PHOSPHORUS, TOTAL	Spring_Lake-20	10599	2003	2008	Aquatic Life General
13	02040301070010-01	HUC02040301070010	Shannae Brook	MERCURY IN FISH TISSUE	Turn Mill Pond,Success Lake	37909	2009	2008	Fish Consumption
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	ESCHERICHIA COLI (E. COLI)	01407670, MCHD-70	11096	2004	2006	Recreation
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	MERCURY IN FISH TISSUE	Shark River at Belmar	40821	2011	2006	Fish Consumption
12	02030104090040-01	HUC02030104090040	Shark River (above Remsen Mill gage)	PHOSPHORUS, TOTAL	01407670, MCHD-70	12330	2005	2008	Aquatic Life General
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	ENTEROCOCCUS	MCHD-94	31393	2006	2010	Recreation
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	ESCHERICHIA COLI (E. COLI)	01463500, MCHD-11	11095/11097	2004	2006	Recreation
12	02030104090060-01	HUC02030104090060	Shark River (below Remsen Mill gage)	TOTAL COLIFORM	Shellfish Network	31393	2006	2006	Shellfish Harvest
12	02030104080040-01	HUC02030104080040	Shrewsbury River (above Navesink River)	ENTEROCOCCUS	MCHD-39, MCHD-44	31394	2006	2016	Recreation
12	02030104080040-01	HUC02030104080040	Shrewsbury River (above Navesink River)	TOTAL COLIFORM	Shellfish Network	31394	2006	2006	Shellfish Harvest
6	02030103010190-01	HUC02030103010190	Slough Brook	ESCHERICHIA COLI (E. COLI)	01379530	11007	2003	2010	Recreation
9	02030105120080-01	HUC02030105120080	South Fork of Bound Brook	ESCHERICHIA COLI (E. COLI)	01403385	10595	2003	2006	Recreation

9	02030105120080-01	HUC02030105120080	South Fork of Bound Brook	MERCURY IN FISH TISSUE	Bound Brook,New Market Pond	37909	2009	2010	Fish Consumption
15	02040302050030-01	HUC02040302050030	South River (above 39d26m15s)	ESCHERICHIA COLI (E. COLI)	01411220	31408	2006	2014	Recreation
15	02040302050040-01	HUC02040302050040	South River (below 39d26m15s)	ESCHERICHIA COLI (E. COLI)	01411220	31408	2006	2012	Recreation
15	02040302050040-01	HUC02040302050040	South River (below 39d26m15s)	TOTAL COLIFORM	Shellfish Network	31408	2006	2012	Shellfish Harvest
9	02030105120090-01	HUC02030105120090	Spring Lake Fork of Bound Brook	ESCHERICHIA COLI (E. COLI)	01403385	10595	2003	2006	Recreation
8	02030105020010-01	HUC02030105020010	Spruce Run (above Glen Gardner)	ESCHERICHIA COLI (E. COLI)	01396550	10547	2003	2008	Recreation
8	02030105020020-01	HUC02030105020020	Spruce Run (Reservior to Glen Gardner)	ESCHERICHIA COLI (E. COLI)	01396588	9936	2003	2006	Recreation
8	02030105020040-01	HUC02030105020040	Spruce Run Reservior / Willoughby Brook	MERCURY IN FISH TISSUE	Spruce Run Reservoir	37909	2009	2008	Fish Consumption
15	02040302030050-01	HUC02040302030050	Squankum Branch (GEHR)	ESCHERICHIA COLI (E. COLI)	01410865	31408	2006	2008	Recreation
15	02040302050080-01	HUC02040302050080	Stephen Creek (GEHR)	MERCURY IN FISH TISSUE	Maple Lake	40821	2011	2010	Fish Consumption
15	02040302050080-01	HUC02040302050080	Stephen Creek (GEHR)	TOTAL COLIFORM	Shellfish Network	31408	2006	2006	Shellfish Harvest
18	02040202140020-01	HUC02040202140020	Still Run/London Br(above Tomlin Sta Rd)	ESCHERICHIA COLI (E. COLI)	01476600	10541	2003	2006	Recreation
10	02030105090070-01	HUC02030105090070	Stony Bk (Harrison St to Rt 206)	ESCHERICHIA COLI (E. COLI)	01401000	9950	2003	2006	Recreation
10	02030105090070-01	HUC02030105090070	Stony Bk (Harrison St to Rt 206)	PHOSPHORUS, TOTAL	01401000	65982	2016	2016	Aquatic Life General
10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	ESCHERICHIA COLI (E. COLI)	01401000	9950	2003	2006	Recreation
10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	PHOSPHORUS, TOTAL	01401000	65982	2016	2016	Aquatic Life General
10	02030105090060-01	HUC02030105090060	Stony Bk (Rt 206 to Province Line Rd)	ESCHERICHIA COLI (E. COLI)	01401000	9950	2003	2006	Recreation
10	02030105090060-01	HUC02030105090060	Stony Bk (Rt 206 to Province Line Rd)	PHOSPHORUS, TOTAL	01401000	65982	2016	2016	Aquatic Life General
10	02030105090090-01	HUC02030105090090	Stony Bk- Princeton drainage	PHOSPHORUS, TOTAL	01401000	65982	2016	2016	Aquatic Life General
6	02030103030130-01	HUC02030103030130	Stony Brook (Boonton)	ESCHERICHIA COLI (E. COLI)	01380320	11005	2003	2006	Recreation
9	02030105120030-01	HUC02030105120030	Stony Brook (North Plainfield)	ESCHERICHIA COLI (E. COLI)	01403575	10596	2004	2008	Recreation
1	02040105030020-01	HUC02040105030020	Swartswood Lake and tribs	MERCURY IN FISH TISSUE	Swartswood Lake	37909	2009	2008	Fish Consumption
1	02040105030020-01	HUC02040105030020	Swartswood Lake and tribs	PHOSPHORUS, TOTAL	Swartswood_Lake-01	12411	2005	2006	Aquatic Life General
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	ESCHERICHIA COLI (E. COLI)	01407330, MCHD-54, MCHD-55	10991/10993	2003	2006	Recreation
5	02030103170040-01	HUC02030103170040	Tenakill Brook	ESCHERICHIA COLI (E. COLI)	01378387, BFBM000150	10616	2003	2006	Recreation
8	02030105030040-01	HUC02030105030040	Third Neshanic River	ESCHERICHIA COLI (E. COLI)	01397950	9944	2003	2006	Recreation

13	BarnegatBay04	BarnegatBay04	Toms R Estuary	ENTEROCOCCUS	OC0116, OC0118	31400	2006	2008	Recreation
13	BarnegatBay04	BarnegatBay04	Toms R Estuary	TOTAL COLIFORM	Shellfish Network	31400	2006	2006	Shellfish Harvest
13	02040301060020-01	HUC02040301060020	Toms River (74-22-30 rd to FrancisMills)	ESCHERICHIA COLI (E. COLI)	01408260	31400	2006	2012	Recreation
13	02040301060010-01	HUC02040301060010	Toms River (above Francis Mills)	ESCHERICHIA COLI (E. COLI)	AN0519A, MCHD-7	10503	2003	2006	Recreation
13	02040301060030-01	HUC02040301060030	Toms River (Bowman Rd to 74-22-30 road)	ESCHERICHIA COLI (E. COLI)	01408260, BA22	9900	2003	2008	Recreation
13	02040301060060-01	HUC02040301060060	Toms River (Hope Chapel Rd to Bowman Rd)	ESCHERICHIA COLI (E. COLI)	01408260, BA22	9900	2003	2008	Recreation
13	02040301060080-01	HUC02040301060080	Toms River (Oak Ridge Parkway to Rt 70)	ESCHERICHIA COLI (E. COLI)	01408500, BA24, BA25	9900	2003	2008	Recreation
13	02040301080060-01	HUC02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	ESCHERICHIA COLI (E. COLI)	01408500, BT03	9900	2003	2006	Recreation
13	02040301080060-01	HUC02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	MERCURY IN FISH TISSUE	Toms River at Ridgeway Branch, Barnegat Bay at Toms River	40821	2011	2006	Fish Consumption
1	02040105030030-01	HUC02040105030030	Trout Brook	MERCURY IN FISH TISSUE	Crater Lake	37909	2009	2008	Fish Consumption
6	02030103020080-01	HUC02030103020080	Troy Brook (above Reynolds Ave)	MERCURY IN FISH TISSUE	Mountain Lake	37909	2009	2008	Fish Consumption
6	02030103020080-01	HUC02030103020080	Troy Brook (above Reynolds Ave)	PHOSPHORUS, TOTAL	NJW04459-164	35044	2008	2006	Aquatic Life General
15	02040302070110-01	HUC02040302070110	Tuckahoe River (below Rt 49)	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
15	02040302070120-01	HUC02040302070120	Tuckahoe River (lower)	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
13	02040301140030-01	HUC02040301140030	Tuckerton Creek (below Mill Branch)	MERCURY IN FISH TISSUE	Pohatcong Lake	37909	2009	2010	Fish Consumption
13	02040301140030-01	HUC02040301140030	Tuckerton Creek (below Mill Branch)	PHOSPHORUS, TOTAL	Pohatcong_Lake-13	9933	2003	2008	Aquatic Life General
13	02040301140030-01	HUC02040301140030	Tuckerton Creek (below Mill Branch)	TOTAL COLIFORM	Shellfish Network	31522	2006	2006	Shellfish Harvest
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	ESCHERICHIA COLI (E. COLI)	01408495	31400	2006	2012	Recreation
13	02040301070090-01	HUC02040301070090	Union Branch (below Blacks Br 74d22m05s)	MERCURY IN FISH TISSUE	Horicon Lake	37909	2009	2006	Fish Consumption
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	MERCURY IN WATER COLUMN	HEP	11086	1996	2016	Fish Consumption
12	02030104060050-01	HUC02030104060050	Waackaack Creek	ENTEROCOCCUS	R65	31395	2006	2010	Recreation
12	02030104060050-01	HUC02030104060050	Waackaack Creek	TOTAL COLIFORM	Shellfish Network	31395	2006	2006	Shellfish Harvest
14	02040301200030-01	HUC02040301200030	Wading River (below Rt 542)	TOTAL COLIFORM	Shellfish Network	31406	2006	2014	Shellfish Harvest
14	02040301200020-01	HUC02040301200020	Wading River (Rt 542 to Oswego River)	TOTAL COLIFORM	Shellfish Network	31406	2006	2014	Shellfish Harvest
14	02040301190050-01	HUC02040301190050	Wading River WB (Jenkins Rd to Rt 563)	MERCURY IN FISH TISSUE	Wading River	37909	2009	2006	Fish Consumption
2	02020007030010-01	HUC02020007030010	Wallkill R (41d13m30s to Martins Road)	ARSENIC	01367770	11101	2006	2006	Public Water Supply

2	02020007030010-01	HUC02020007030010	Wallkill R (41d13m30s to Martins Road)	ESCHERICHIA COLI (E. COLI)	01367770	9883	2003	2008	Recreation
2	02020007010080-01	HUC02020007010080	Wallkill R (Franklin Pond to Ogdensburg)	ARSENIC	01367700	11101/11100	2006	2010	Public Water Supply
2	02020007010080-01	HUC02020007010080	Wallkill R (Franklin Pond to Ogdensburg)	ESCHERICHIA COLI (E. COLI)	01367700	9876	2003	2010	Recreation
2	02020007010040-01	HUC02020007010040	Wallkill R (Hamburg SW Bdy to Frkln Pnd)	ARSENIC	01367700, 01367715	11101/11100	2006	2006	Public Water Supply
2	02020007010040-01	HUC02020007010040	Wallkill R (Hamburg SW Bdy to Frkln Pnd)	ESCHERICHIA COLI (E. COLI)	01367700, 01367715	10508	2003	2006	Recreation
2	02020007010070-01	HUC02020007010070	Wallkill R (Martins Rd to Hamburg SW Bdy)	ARSENIC	01367715, 01367729, 01367770	11101/11100	2006	2006	Public Water Supply
2	02020007010070-01	HUC02020007010070	Wallkill R (Martins Rd to Hamburg SW Bdy)	ESCHERICHIA COLI (E. COLI)	01367715, 01367770	9876/9877	2003	2006	Recreation
2	02020007010020-01	HUC02020007010020	Wallkill R (Ogdensburg to SpartaStation)	ARSENIC	01367625	11098	2004	2014	Public Water Supply
2	02020007010020-01	HUC02020007010020	Wallkill R (Ogdensburg to SpartaStation)	ESCHERICHIA COLI (E. COLI)	01367625	10508	2003	2006	Recreation
2	02020007010010-01	HUC02020007010010	Wallkill R / Lake Mohawk(above Sparta Sta)	ARSENIC	01367625	11098	2004	2014	Public Water Supply
2	02020007010010-01	HUC02020007010010	Wallkill R / Lake Mohawk(above Sparta Sta)	ESCHERICHIA COLI (E. COLI)	01367625	10508	2003	2006	Recreation
2	02020007030030-01	HUC02020007030030	Wallkill River (Owens gage to 41d13m30s)	ARSENIC	01368000	11102	2006	2006	Public Water Supply
2	02020007030030-01	HUC02020007030030	Wallkill River (Owens gage to 41d13m30s)	ESCHERICHIA COLI (E. COLI)	01368000	9883	2003	2006	Recreation
2	02020007030040-01	HUC02020007030040	Wallkill River (stateline to Owens gage)	ARSENIC	01368000	11102	2006	2006	Public Water Supply
2	02020007030040-01	HUC02020007030040	Wallkill River (stateline to Owens gage)	ESCHERICHIA COLI (E. COLI)	01368000	9883	2003	2006	Recreation
3	02030103070030-01	HUC02030103070030	Wanaque R/Greenwood Lk(aboveMonks gage)	MERCURY IN FISH TISSUE	Monksville Reservoir,Greenwood Lake,Green Turtle Lake	37909	2009	2008	Fish Consumption
3	02030103070070-01	HUC02030103070070	Wanaque R/Posts Bk (below reservior)	ESCHERICHIA COLI (E. COLI)	01387000, 01387014	10615	2003	2006	Recreation
3	02030103070050-01	HUC02030103070050	Wanaque Reservior (below Monks gage)	ESCHERICHIA COLI (E. COLI)	01387000	10615	2003	2014	Recreation
3	02030103070050-01	HUC02030103070050	Wanaque Reservior (below Monks gage)	MERCURY IN FISH TISSUE	Wanaque Reservoir,Sheppard Lake	37909	2009	2008	Fish Consumption
2	02020007040050-01	HUC02020007040050	Wawayanda Creek & tribs	PHOSPHORUS, TOTAL	01368900	12366	2005	2016	Aquatic Life General
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	ESCHERICHIA COLI (E. COLI)	01405185, MCHD-69, MCHD-9	10550	2003	2006	Recreation
13	02040301130050-01	HUC02040301130050	Westecunk Creek (above GS Parkway)	MERCURY IN FISH TISSUE	Stafford Forge Main Lake	37909	2009	2008	Fish Consumption
13	02040301130060-01	HUC02040301130060	Westecunk Creek (below GS Parkway)	ESCHERICHIA COLI (E. COLI)	BT12	31401	2006	2016	Recreation
13	02040301130060-01	HUC02040301130060	Westecunk Creek (below GS Parkway)	TOTAL COLIFORM	Shellfish Network	31401	2006	2008	Shellfish Harvest
12	02030104090010-01	HUC02030104090010	Whale Pond Brook	ESCHERICHIA COLI (E. COLI)	MCHD-50	11002	2003	2006	Recreation
6	02030103020040-01	HUC02030103020040	Whippany R (Lk Pocahontas to Wash Val Rd)	ESCHERICHIA COLI (E. COLI)	01381498, 01381500	1321	2002	2006	Recreation

6	02030103020040-01	HUC02030103020040	Whippany R (Lk Pocahontas to Wash Val Rd)	MERCURY IN FISH TISSUE	Speedwell Lake	37909	2009	2008	Fish Consumption
6	02030103020040-01	HUC02030103020040	Whippany R (Lk Pocahontas to Wash Val Rd)	PHOSPHORUS, TOTAL	01381498	35044	2008	2008	Aquatic Life General
6	02030103020050-01	HUC02030103020050	Whippany R (Malapardis to Lk Pocahontas)	ESCHERICHIA COLI (E. COLI)	01381498, 01381500, 01381515	1321	2002	2006	Recreation
6	02030103020050-01	HUC02030103020050	Whippany R (Malapardis to Lk Pocahontas)	PHOSPHORUS, TOTAL	01381498, 01381515, NJW04459-129	35044	2008	2008	Aquatic Life General
6	02030103020100-01	HUC02030103020100	Whippany R (Rockaway R to Malapardis Bk)	ESCHERICHIA COLI (E. COLI)	01381800	1321	2002	2006	Recreation
6	02030103020100-01	HUC02030103020100	Whippany R (Rockaway R to Malapardis Bk)	PHOSPHORUS, TOTAL	01381800	35044	2008	2008	Aquatic Life General
6	02030103020020-01	HUC02030103020020	Whippany R (Wash. Valley Rd to 74d 33m)	ESCHERICHIA COLI (E. COLI)	01381330, BFBM000090	33755	2007	2010	Recreation
11	02040105200040-01	HUC02040105200040	Wickecheoke Creek (above Locktown)	ESCHERICHIA COLI (E. COLI)	01461220, 01461250, W8, W9a	12390	2005	2006	Recreation
11	02040105200040-01	HUC02040105200040	Wickecheoke Creek (above Locktown)	PHOSPHORUS, TOTAL	W10, W6, W8	12370	2005	2006	Aquatic Life General
11	02040105200060-01	HUC02040105200060	Wickecheoke Creek (below Locktown)	ESCHERICHIA COLI (E. COLI)	01461300, W3a	12392	2005	2006	Recreation
11	02040105200060-01	HUC02040105200060	Wickecheoke Creek (below Locktown)	PHOSPHORUS, TOTAL	01461300, W2a, W5	12370	2005	2006	Aquatic Life General
15	02040302070100-01	HUC02040302070100	Willis Thorofare / Hughes Creek	TOTAL COLIFORM	Shellfish Network	31408	2006	2014	Shellfish Harvest
12	02030104070020-01	HUC02030104070020	Willow Brook	ESCHERICHIA COLI (E. COLI)	01407253	11001	2003	2006	Recreation
18	02040202120100-01	HUC02040202120100	Woodbury Creek (above Rt 45)	MERCURY IN FISH TISSUE	Stewart Lake at Woodbury Creek	37909	2009	2008	Fish Consumption
18	02040202120100-01	HUC02040202120100	Woodbury Creek (above Rt 45)	PHOSPHORUS, TOTAL	Woodbury_Lake-18	10570	2003	2006	Aquatic Life General
13	02040301080050-01	HUC02040301080050	Wrangel Brook (below Michaels Branch)	ESCHERICHIA COLI (E. COLI)	BT04	31400	2006	2016	Recreation
12	02030104090070-01	HUC02030104090070	Wreck Pond Brook (above Rt 35)	ESCHERICHIA COLI (E. COLI)	MCHD-14	11011	2003	2006	Recreation
12	02030104090080-01	HUC02030104090080	Wreck Pond Brook (below Rt 35)	ESCHERICHIA COLI (E. COLI)	01407806	11011/12371	2003/2005	2006	Recreation
12	02030104090080-01	HUC02030104090080	Wreck Pond Brook (below Rt 35)	MERCURY IN FISH TISSUE	Spring Lake	37909	2009	2008	Fish Consumption
1	02040105050040-01	HUC02040105050040	Yards Creek	MERCURY IN FISH TISSUE	Catfish Pond	37909	2009	2010	Fish Consumption
12	02030104070040-01	HUC02030104070040	Yellow Brook (above Bucks Mill)	ESCHERICHIA COLI (E. COLI)	01407360	10996	2003	2006	Recreation
12	02030104070060-01	HUC02030104070060	Yellow Brook (below Bucks Mill)	ESCHERICHIA COLI (E. COLI)	MCHD-72	10996	2003	2012	Recreation

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Parameter	Station Number	Cycle 1st I	Designated Use	Delisting Reason	Delisting Comment
15	02040302020040-01	HUC02040302020040	Absecon Creek (below gage)	TOTAL COLIFORM	Shellfish Network	2014	Shellfish	DELISTING_4A	31407
10	02030105100130-01	HUC02030105100130	Bear Brook (below Trenton Road)	PHOSPHORUS, TOTAL	01400808, BBB1-GMPi	2012	Aquatic Life General	DELISTING_4A	65982
8	02030105020050-01	HUC02030105020050	Beaver Brook (Clinton)	PHOSPHORUS, TOTAL	01396812, BvB1	2006	Aquatic Life Trout	DELISTING_4A	65982
10	02030105110050-01	HUC02030105110050	Beden Brook (below Province Line Rd)	PHOSPHORUS, TOTAL	01401600	2002	Aquatic Life General	DELISTING_4A	65982
5	02030103180060-01	HUC02030103180060	Berrys Creek (above Paterson Ave)	MERCURY IN FISH TISSUE	HEP	1998	Fish Consumption	REFINEMENT	Exceedance was for water column not fish tissue
5	02030103180070-01	HUC02030103180070	Berrys Creek (below Paterson Ave)	MERCURY IN FISH TISSUE	HEP	1998	Fish Consumption	REFINEMENT	Exceedance was for water column not fish tissue
12	02030104070030-01	HUC02030104070030	Big Brook	MERCURY IN WATER COLUMN	01407320	2014	Public Water Supply	WQS_RECOVERY_UNSPECIFIED	Only 1 exceeded, 1 estimated. 10 samples meet criteria since 2005, 01407280 upstream all 4 samples meet, stations in adjacent HUCs full support. Preponderance of evidence shows that this station no longer impaired.
2	02020007040010-01	HUC02020007040010	Black Creek (above/incl G.Gorge Resort trib)	PHOSPHORUS, TOTAL	Wallkill F	2014	Aquatic Life Trout	DELISTING_4A	12362
13	02040301070050-01	HUC02040301070050	Blacks Branch (above 74d22m05s)	ESCHERICHIA COLI (E. COLI)	AN0529	2014	Recreation	DELISTING_4A	31400
17	02040206170050-01	HUC02040206170050	Buckshutem Creek (below Rt 555)	PHOSPHORUS, TOTAL	Laurel Lake	2014	Aquatic Life General	DELISTING_ORIG_INCORRECT	01411950, 01411955 full attain, NJW04459-161 mistakenly associated with this HUC
8	02030105070020-01	HUC02030105070020	Chambers Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0372, AN0373	2006	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Indices full support at AN0372, AN0373
14	02040301160090-01	HUC02040301160090	Clark Branch (above/incl Price Branch)	DISSOLVED OXYGEN	0140940480	2014	Aquatic Life General	WQS_LISTING_INCORRECT	Data at 0140940480 in 2000-2001 never showed any exceedances. Should have never been listed as impaired.
1	02040104090020-01	HUC02040104090020	Clove Brook (Delaware R)	BIOLOGICAL-CAUSE UNKNOWN	AN0002	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Index full support at AN0002
17	02040206090060-01	HUC02040206090060	Cohansey R (75d15m to/incl Rocaps Run)	DISSOLVED OXYGEN	R47	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	only 1 of 28 samples exceed criteria at R47
17	02040206090030-01	HUC02040206090030	Cohansey R (Rocaps Run to Cornwell Run)	DISSOLVED OXYGEN	R47	2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	only 1 of 28 samples exceed criteria at R47
10	02030105100090-01	HUC02030105100090	Cranbury Brook (below NJ Turnpike)	PHOSPHORUS, TOTAL	CB1PPi	2014	Aquatic Life General	DELISTING_4A	65982
13	02040301080040-01	HUC02040301080040	Davenport Branch (below Pinewald Road)	ESCHERICHIA COLI (E. COLI)	AN0541	2014	Recreation	DELISTING_4A	31400
12	02030104090030-01	HUC02030104090030	Deal Lake	DDT IN FISH TISSUE	Deal Lake	2010	Fish Consumption	WQS_RECOVERY_UNSPECIFIED	Fish tissue data meet criteria at Deal Lake
9	02030105160010-01	HUC02030105160010	Deep Run (above Monmouth Co line)	DISSOLVED OXYGEN	01406040	2008	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	For this HUC, used 01405960 that is located in HUC and fully supporting. 01406040 which is still impaired is located downstream in other HUC.
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	COPPER	DRBC	2014	Aquatic Life General	WQS_LISTING_INCORRECT	Assessment is complicated by factors such as field sampling and analytical issues with contamination and should have only used marine criteria not the freshwater criteria
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	DISSOLVED OXYGEN	3826A, 3888, 3827, 3895E	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Data over last ten years at 3826A, 3888, 3827, 3895E is full support
17	Delaware River 6	HUCDelaware River 6	Delaware Bay Zone 6 (New Jersey portion)	PH	091023, 091015, 091028, 091017, 91	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	091023, 091015, 091028, 091017, 91026, 091030 are all fully supporting
1	Delaware River 2	HUCDelaware River 2	Delaware River 1C	PH	01438500	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Older data from 1999 to 2003 at 01438500 never showed exceedances. Should have never been listed.
1	Delaware River 8	HUCDelaware River 8	Delaware River 1D	PH	01443000, 01444800, 2115_ICP	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01443000, 01444800, 2115_ICP fully supporting
11	Delaware River 14	HUCDelaware River 14	Delaware River 1E	TURBIDITY	DRBC	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01457500, 01461000, 01462400, 01463500 fully supporting. 9/7/2011 not used since rain event was 8".

20	Delaware River 15	HUCDelaware River 15	Delaware River 2	ESCHERICHIA COLI (E. COLI)	332064, 332068	2014	Recreation	WQS_RECOVERY_UNSPECIFIED	332064, 332068 full support
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	DISSOLVED OXYGEN	332064, 332068, 892077, 892080	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	332064, 332068, 892077, 892080 fully supporting
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	PH	332064, 332068, 892077, 892080	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	332064, 332068, 892077, 892080 fully supporting
20	Delaware River 15	HUCDelaware River 15	Delaware River 2	TURBIDITY	DRBC	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	014670261, 332064, 332068, 892077, 892080 fully supporting
18	Delaware River 16	HUCDelaware River 16	Delaware River 3	TURBIDITY	DRBC	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01467200, 892070, 892071 fully supporting
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	COPPER	DRBC	2014	Aquatic Life General	WQS_LISTING_INCORRECT	Chronic freshwater criterion did not exceed more than once in three years when site specific hardness are used. Assessment is complicated by factors such as field sampling and analytical issues with contamination and should have only used marine criteria not the freshwater criteria.
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	DISSOLVED OXYGEN	01482800, 332046, 91002, 91005, 91	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01482800, 332046, 91002, 91005, 91008, 91011, 091015 fully supporting
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	TEMPERATURE	01482800, 332046, 91002, 91005, 91	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01482800, 332046, 91002, 91005, 91008, 91011, 091015 fully supporting
17	Delaware River 18	HUCDelaware River 18	Delaware River 5	TURBIDITY	DRBC	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	014670261, 332064, 332068, 892077, 892080 fully supporting
10	02030105100110-01	HUC02030105100110	Devils Brook	PHOSPHORUS, TOTAL	DB3-Gpo	2014	Aquatic Life General	DELISTING_4A	65982
13	02040301110030-01	HUC02040301110030	Forked River (below NB incl Mid/South Br)	ESCHERICHIA COLI (E. COLI)	BT09	2014	Recreation	DELISTING_4A	31396
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	DISSOLVED OXYGEN	NJHDG-25	2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	3 samples at NJHDG-25 exceed during summer of 2010, last 35 samples full support, 01403900 upstream full support also.
9	02030105120130-01	HUC02030105120130	Green Bk (below Bound Brook)	TOTAL SUSPENDED SOLIDS (TSS)	01403900, NJHDG-25	2006	Aquatic Life General	DELISTING_4A	65982
5	02030103180050-01	HUC02030103180050	Hackensack R (Bellmans Ck to Ft Lee Rd)	MERCURY IN FISH TISSUE	HEP	2007	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	MERCURY IN FISH TISSUE	HEP	2006	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	ENTEROCOCCUS	H161	2008	Recreation	DELISTING_ORIG_INCORRECT	H161 previously listed based on FC, should have been enterococcus since it is SE1 water, but no data available
5	02030103180030-01	HUC02030103180030	Hackensack R (Ft Lee Rd to Oradell gage)	MERCURY IN FISH TISSUE	HEP	2006	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
5	02030103180080-01	HUC02030103180080	Hackensack R (Rt 3 to Bellmans Ck)	MERCURY IN FISH TISSUE	HEP	2006	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
14	02040301170010-01	HUC02040301170010	Hammonton Creek (above 74d43m)	PHOSPHORUS, TOTAL	01409414, 01409415, 01409416, 014	2002	Aquatic Life General	DELISTING_4A	10566
2	02020007010050-01	HUC02020007010050	Hardistonville tribs	TEMPERATURE	01367726	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	2011 Diurnal Data at 01367726 fully supporting (NT stream), all 24 discrete samples meet over 5 yrs
8	02030105040030-01	HUC02030105040030	Holland Brook	PHOSPHORUS, TOTAL	HB1	2014	Aquatic Life General	DELISTING_4A	65982
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	MERCURY IN FISH TISSUE	HEP	2010	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	MERCURY IN FISH TISSUE	HEP	2010	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
5	02030101170010-01	HUC02030101170010	Hudson River (upper)	PHOSPHORUS, TOTAL	North Hudson Park Lake	2014	Aquatic Life General	DELISTING_ORIG_INCORRECT	North Hudson Park Lake-05 mistakenly associated with this HUC
13	02040301080070-01	HUC02040301080070	Jakes Branch (Lower Toms River)	ESCHERICHIA COLI (E. COLI)	BT05	2014	Recreation	DELISTING_4A	31400

8	02030105050070-01	HUC02030105050070	Lamington R (HallsBrRd-HerzogBrk)	PH	LR4, LR5	2014	Aquatic Life General	DELISTING_4A	65982
8	02030105050070-01	HUC02030105050070	Lamington R (HallsBrRd-HerzogBrk)	PHOSPHORUS, TOTAL	LR5	2006	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01399780 with newer data (42 of 43 samples support), trumps this site with data from 2004
8	02030105050020-01	HUC02030105050020	Lamington R (Hillside Rd to Rt 10)	PHOSPHORUS, TOTAL	LR2	2010	Aquatic Life General	DELISTING_4A	65982
14	02040301170100-01	HUC02040301170100	Landing Creek (above Rt 563)	PH	01409571	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Very low exceedance rate in last 10 yrs at 01409571, 01409570 with only 2 of 38 samples exceeding, both occurred during heavy rainfalls of 2" and 1"
9	02030105140030-01	HUC02030105140030	Manalapan Brook (below Lake Manalapan)	BIOLOGICAL-CAUSE UNKNOWN	AN0440	2008	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Index full support at AN0440
17	02040206190010-01	HUC02040206190010	Manumuskin River (above/incl BigNealBr)	DISSOLVED OXYGEN	01412080	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	All samples meet criteria at 01412080
13	02040301060040-01	HUC02040301060040	Maple Root Branch (Toms River)	ESCHERICHIA COLI (E. COLI)	01408285	2014	Recreation	DELISTING_4A	31400
1	02040105140040-01	HUC02040105140040	Merrill Creek	MERCURY IN FISH TISSUE	Merrill Creek Reservoir	2014	Fish Consumption	DELISTING_4A	37909
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	LEAD	BTMUA Intake	2014	Public Water Supply	WQS_RECOVERY_UNSPECIFIED	Station BTMUA Intake 20 samples over last 5 yrs all meet criteria
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	LEAD	SL	2012	Public Water Supply	WQS_RECOVERY_UNSPECIFIED	Station SL 21 samples over last 5 yrs all meet criteria
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	ESCHERICHIA COLI (E. COLI)	01409305	2014	Recreation	DELISTING_4A	31522
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	DISSOLVED OXYGEN	01409305	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	21 of 21 samples meet criteria at 01409305, Downstream stations R20/BT13 also fully support
13	02040301130030-01	HUC02040301130030	Mill Ck (below GS Parkway)/Manahawkin Ck	ESCHERICHIA COLI (E. COLI)	BT11	2014	Recreation	DELISTING_4A	31521
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	PHOSPHORUS, TOTAL	01400540, MCHD-5	2002	Aquatic Life General	DELISTING_4A	65982
10	02030105100010-01	HUC02030105100010	Millstone R (above Rt 33)	TOTAL SUSPENDED SOLIDS (TSS)	01400540, 01400530, MCHD-5	2006	Aquatic Life General	DELISTING_4A	65982
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	PHOSPHORUS, TOTAL	01400540, MCHD-5	2006	Aquatic Life General	DELISTING_4A	65982
10	02030105100020-01	HUC02030105100020	Millstone R (Applegarth road to Rt 33)	TOTAL SUSPENDED SOLIDS (TSS)	01400540	2006	Aquatic Life General	DELISTING_4A	65982
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	TEMPERATURE	01401440	2002	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Diurnal Data at station M2 full support, trumps older data at 01401440
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	PHOSPHORUS, TOTAL	01400640, BA117A, UMR2	2002	Aquatic Life General	DELISTING_4A	65982
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	TOTAL SUSPENDED SOLIDS (TSS)	01400640, BA117A	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01400650, UMR2, UMR3 all fully support, BA117A no data
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	DISSOLVED OXYGEN	UMR3	2014	Aquatic Life General	DELISTING_4A	65982
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	PHOSPHORUS, TOTAL	01401440	2014	Aquatic Life General	DELISTING_4A	65982
10	02030105110020-01	HUC02030105110020	Millstone R (HeathcoteBk to Harrison St)	TEMPERATURE	01401440	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Diurnal Data at station M2 full support, trumps older data at 01401440
10	02030105100030-01	HUC02030105100030	Millstone R (RockyBk to Applegarth road)	PHOSPHORUS, TOTAL	01400560	2008	Aquatic Life General	DELISTING_4A	65982
10	02030105100140-01	HUC02030105100140	Millstone R (Rt 1 to Cranbury Bk)	PHOSPHORUS, TOTAL	UMR3	2010	Aquatic Life General	DELISTING_4A	65982
12	02030104100070-01	HUC02030104100070	Mingamahone Brook (below Asbury Rd)	ESCHERICHIA COLI (E. COLI)	23	2012	Recreation	DELISTING_4A	10999
12	02030104100070-01	HUC02030104100070	Mingamahone Brook (below Asbury Rd)	TURBIDITY	MCHD-23	2014	Aquatic Life Trout	DELISTING_ORIG_INCORRECT	MCHD-23 wrongly assigned to HUC, no data

1	02040105090040-01	HUC02040105090040	Mountain Lake Brook	TEMPERATURE	01445520	2014	Aquatic Life Trout	WQS_LISTING_INCORRECT	Diurnal Data at 01445520 full attain in 2009, mistake in 2014 assessment. Station is FW2-NT
8	02030105020030-01	HUC02030105020030	Mulhockaway Creek	DISSOLVED OXYGEN	01396660	2014	Aquatic Life Trout	WQS_RECOVERY_UNSPECIFIED	25 of 25 samples at 01396660 fully support
1	02040105160070-01	HUC02040105160070	Musconetcong R (below Warren Glen)	DISSOLVED OXYGEN	MR3	2014	Aquatic Life Trout	WQS_LISTING_INCORRECT	01457400, 1746_BCP have all 44 samples meet criteria, MR3 mistakenly associated with this HUC
12	02030104070110-01	HUC02030104070110	Navesink R (below Rt 35)/LowerShrewsbury	DISSOLVED OXYGEN	MCHD-37	2006	Aquatic Life General	WQS_LISTING_INCORRECT	1006B, 1012B, 1014, 1016A, MCHD-88 are all fully supporting, MCHD-37 located in man-made cove is deminimus
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	DISSOLVED OXYGEN	01398065	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	2014 Diurnal Data at 01398065 full support
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	PHOSPHORUS, TOTAL	NR2	2010	Aquatic Life General	DELISTING_4A	65982
8	02030105030070-01	HUC02030105030070	Neshanic River (below Black Brk)	PH	NR2	2010	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01398000 in upstream huc, trumped by diurnal at 01398065, NR2 insufficient data
8	02030105030060-01	HUC02030105030060	Neshanic River (below FNR / SNR confl)	PHOSPHORUS, TOTAL	01398000, NR1	2002	Aquatic Life General	DELISTING_4A	65982
12	02030104070090-01	HUC02030104070090	Nut Swamp Brook	ESCHERICHIA COLI (E. COLI)	MCHD-89	2014	Recreation	DELISTING_4A	31392
9	02030105130030-01	HUC02030105130030	Oakeys Brook	BIOLOGICAL-CAUSE UNKNOWN	AN0432	2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Index full support at AN0432
13	02040301070060-01	HUC02040301070060	Old Hurricane Brook (above 74d22m30s)	ESCHERICHIA COLI (E. COLI)	AN0531	2014	Recreation	DELISTING_4A	31400
13	02040301110050-01	HUC02040301110050	Oyster Creek (below Rt 532)	ESCHERICHIA COLI (E. COLI)	Overpeck Creek Lake, Overpeck Cree	2014	Recreation	DELISTING_4A	31396
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	DISSOLVED OXYGEN	NJHDG-11	2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	3 of 281 samples exceed at NJHDG-11, extremely low exceedance rate. NJHDG-10 in HUC full support
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	MERCURY IN FISH TISSUE	HEP	2006	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
4	02030103150050-01	HUC02030103150050	Passaic R Lwr (Nwk Bay to 4th St brdg)	MERCURY IN FISH TISSUE	HEP	2006	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
4	02030103120090-01	HUC02030103120090	Passaic R Lwr (Saddle R to Dundee Dam)	MERCURY IN FISH TISSUE	Passaic River at Lyndhurst	2006	Fish Consumption	DELISTING_4A	11086
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	DISSOLVED OXYGEN	NJHDG-8	2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	4 of 141 samples exceed at NJHDG-8, exteremely low exceedance rate
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	TOTAL SUSPENDED SOLIDS (TSS)	01382000	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Last 5 yrs all 22 samples full support at 01382000
18	02040202100040-01	HUC02040202100040	Pennsauken Ck SB (above Rt 41)	TOTAL SUSPENDED SOLIDS (TSS)	01467081	2006	Aquatic Life General	DELISTING_ORIG_INCORRECT	01467080 full attain, 01407081 mistakenly associated with this HUC
3	02030103050080-01	HUC02030103050080	Pequannock R (below Macopin gage)	TEMPERATURE	01382800, PQ10/15/14, Pqblmr, Pqn	2002	Aquatic Life Trout	DELISTING_4A	11105
10	02030105110100-01	HUC02030105110100	Pike Run (below Cruser Brook)	PHOSPHORUS, TOTAL	01401700	2008	Aquatic Life General	DELISTING_4A	65982
3	02030103100070-01	HUC02030103100070	Ramapo R (below Crystal Lake bridge)	TEMPERATURE	01388000	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Diurnal Data at station 01388000 full support
19	02040202050060-01	HUC02040202050060	Rancocas Ck SB (above Friendship Ck)	PH	01465835	2008	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Mistake in prior assessment, 01465835 should have never been listed
19	02040202050080-01	HUC02040202050080	Rancocas Ck SB (Vincentown-FriendshipCk)	PH	01465835	2008	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Mistake in prior assessment, 01465835 should have never been listed
12	02030104910030-01	HUC02030104910030	Raritan Bay (deep water)	MERCURY IN FISH TISSUE	Raritan Bay @ Keansburg, Sandy Hoo	2008	Fish Consumption	DELISTING_4A	11081
12	02030104910010-01	HUC02030104910010	Raritan Bay (west of Thorns Ck)	PH	Passaic-25	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	1 of 202 samples exceed at NJHDG-28, extremely low exceedance rate. NJHDG-29 in HUC full support
9	02030105120140-01	HUC02030105120140	Raritan R Lwr (I-287 Piscatway-Millstone)	TOTAL SUSPENDED SOLIDS (TSS)	01403300	2006	Aquatic Life General	DELISTING_4A	65982
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	DDT IN FISH TISSUE	Raritan River @ Route 1 Bridge, Rari	2012	Fish Consumption	WQS_RECOVERY_UNSPECIFIED	Fish tissue data meet criteria at NJDEP_BFBM-FTM009

9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	PHOSPHORUS, TOTAL	RR1	2014	Aquatic Life General	DELISTING_4A	65982
9	02030105080030-01	HUC02030105080030	Raritan R Lwr (Millstone to Rt 206)	TOTAL SUSPENDED SOLIDS (TSS)	RR1	2014	Aquatic Life General	DELISTING_4A	65982
9	02030105080020-01	HUC02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	PHOSPHORUS, TOTAL	Japanese Garden A, Lake 31A	2010	Aquatic Life General	DELISTING_4A	65982
8	02030105060090-01	HUC02030105060090	Raritan R NB (Lamington R to Mine Bk)	DISSOLVED OXYGEN		2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01399120 diurnal trumped NBRR6
8	02030105060040-01	HUC02030105060040	Raritan R NB (Peapack Bk to McVickers Bk)	TOTAL SUSPENDED SOLIDS (TSS)	NBRR4-Rlo	2014	Aquatic Life General	DELISTING_4A	65982
8	02030105070010-01	HUC02030105070010	Raritan R NB (Rt 28 to Lamington R)	BIOLOGICAL-CAUSE UNKNOWN	AN0371	2008	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Index full support at AN0371
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	PH	SBR4	2014	Aquatic Life Trout	DELISTING_4A	65982
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	DISSOLVED OXYGEN	SBR4	2010	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Diurnal at BFBM000219, 01396280, 01396350, SBR4
8	02030105040040-01	HUC02030105040040	Raritan R SB (NB to Pleasant Run)	PH	SBRR10, 01398102	2010	Aquatic Life General	DELISTING_4A	65982
8	02030105040040-01	HUC02030105040040	Raritan R SB (NB to Pleasant Run)	PHOSPHORUS, TOTAL	01398102, SBRR10	2006	Aquatic Life General	DELISTING_4A	65982
8	02030105040010-01	HUC02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	PHOSPHORUS, TOTAL	SBRR9, 01397415	2006	Aquatic Life General	DELISTING_4A	65982
8	02030105020080-01	HUC02030105020080	Raritan R SB (Prescott Bk to River Rd)	PH	01397000	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	All 31 samples meet criteria in last 5 years at 01397000, upstream/downstream stations also full support
8	02030105020070-01	HUC02030105020070	Raritan R SB (River Rd to Spruce Run)	PHOSPHORUS, TOTAL	SBRR6, SBRR7	2010	Aquatic Life Trout	DELISTING_4A	65982
8	02030105020070-01	HUC02030105020070	Raritan R SB (River Rd to Spruce Run)	TOTAL SUSPENDED SOLIDS (TSS)	SBRR6, SBRR7	2010	Aquatic Life Trout	DELISTING_4A	65982
8	02030105010070-01	HUC02030105010070	Raritan R SB (StoneMill gage to Califon)	BIOLOGICAL-CAUSE UNKNOWN	AN0316	2014	Aquatic Life Trout	WQS_RECOVERY_UNSPECIFIED	Biological Index full support at AN0316
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	PH	01397000	2014	Aquatic Life Trout	WQS_RECOVERY_UNSPECIFIED	All 31 samples meet criteria in last 5 years at 01397000, upstream/downstream stations also full support
8	02030105020100-01	HUC02030105020100	Raritan R SB (Three Bridges-Prescott Bk)	PHOSPHORUS, TOTAL	SBRR9	2010	Aquatic Life General	DELISTING_4A	65982
13	02040301070040-01	HUC02040301070040	Ridgeway Br (below Hope Chapel Rd)	ESCHERICHIA COLI (E. COLI)	01408492	2014	Recreation	DELISTING_4A	31400
10	02030105110070-01	HUC02030105110070	Rock Brook (below Camp Meeting Ave)	BIOLOGICAL-CAUSE UNKNOWN	AN0400	2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Index full support at AN0400
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	ESCHERICHIA COLI (E. COLI)	BFBM000044	2012	Recreation	DELISTING_4A	9940
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	PHOSPHORUS, TOTAL	01399700	2010	Aquatic Life General	DELISTING_4A	65982
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	PHOSPHORUS, TOTAL	01399650, SBRC1-Cli, SBRC3-Clo	2006	Aquatic Life General	DELISTING_4A	65982
8	02030105050100-01	HUC02030105050100	Rockaway Ck SB	TOTAL SUSPENDED SOLIDS (TSS)	SBRC3-Clo	2014	Aquatic Life General	DELISTING_4A	65982
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	PHOSPHORUS, TOTAL	RB4, Peddie Lake	2006	Aquatic Life General	DELISTING_4A	65982
4	02030103140040-01	HUC02030103140040	Saddle River (above Ridgewood gage)	PH	01390500	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01390510 wrongly associated with 01390518 located further downstram that showed diurnal data was non support in 2008. 01390510 shows all 42 samples full support. 01390465 also shows all 16 samples full support

4	02030103140040-01	HUC02030103140040	Saddle River (above Ridgewood gage)	TOTAL SUSPENDED SOLIDS (TSS)	01390500	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	01391500 wrongly associated with 01390518 located further downstream that showed diurnal data was non support in 2008. 01390510 shows all 42 samples full support
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	TOTAL SUSPENDED SOLIDS (TSS)	01391500, NJHDG-6	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	NJHDG-6 had 3 of 70 samples exceeded, very low exceedance rate, 01391500 had all 21 samples in the last 5 years meet criteria
4	02030103140080-01	HUC02030103140080	Saddle River (Hohokus to Ridgewood gage)	TOTAL SUSPENDED SOLIDS (TSS)	01390500	2014	Aquatic Life General	DELISTING_ORIG_INCORRECT	01390510 had all 32 samples meet criteria, 01390500 mistakenly associated with HUC
4	02030103140060-01	HUC02030103140060	Saddle River (Lodi gage to Rt 4)	TOTAL SUSPENDED SOLIDS (TSS)	01391500	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Last 5 years all 21 samples full support at 01391500
8	02030105030020-01	HUC02030105030020	Second Neshanic River	BIOLOGICAL-CAUSE UNKNOWN	AN0331	2012	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Index full support at AN0331
10	02030105100100-01	HUC02030105100100	Shallow Brook (Devils Brook)	BIOLOGICAL-CAUSE UNKNOWN	AN0388	2008	Aquatic Life General	DELISTING_ORIG_INCORRECT	AN0388 blw lake/wetland, index not applicable
1	02040104090030-01	HUC02040104090030	Shimers Brook	PHOSPHORUS, TOTAL	Clove Lake	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Clove Lake has older data, trumped by stream data at 01438399, 01438400, 2466_BCP that all show full support
8	02030105020040-01	HUC02030105020040	Spruce Run Reservior / Willoughby Brook	PHOSPHORUS, TOTAL	01396800	2002	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Last 10 samples in 5 years all supporting at 01396800, concentration very low
10	02030105090070-01	HUC02030105090070	Stony Bk (Harrison St to Rt 206)	PHOSPHORUS, TOTAL	01401000	2002	Aquatic Life General	DELISTING_4A	65982
10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	PHOSPHORUS, TOTAL	01401000	2002	Aquatic Life General	DELISTING_4A	65982
10	02030105090060-01	HUC02030105090060	Stony Bk (Rt 206 to Province Line Rd)	PHOSPHORUS, TOTAL	01401000	2002	Aquatic Life General	DELISTING_4A	65982
10	02030105090090-01	HUC02030105090090	Stony Bk- Princeton drainage	PHOSPHORUS, TOTAL	01401000	2010	Aquatic Life General	DELISTING_4A	65982
15	02040302070040-01	HUC02040302070040	Tuckahoe River (Rt 49 to 39d19m52s)	DISSOLVED OXYGEN	01411300	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Data since 2000 show no exceedances at 01411300, administrative error, should have never been listed
5	02030104010030-01	HUC02030104010030	Upper NY Bay / Kill Van Kull (74d07m30s)	MERCURY IN FISH TISSUE	HEP	2006	Fish Consumption	DELISTING_4A	11086, Exceedance was for water column not fish tissue
2	02020007030010-01	HUC02020007030010	Wallkill R (41d13m30s to Martins Road)	TOTAL SUSPENDED SOLIDS (TSS)	01367770	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Last 5 yrs all 22 samples full support at 01367770
2	02020007010070-01	HUC02020007010070	Wallkill R (Martins Rd to Hamburg SW Bdy)	BIOLOGICAL-CAUSE UNKNOWN	AN0300, AN0302	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Biological Indices full support at AN0300, AN0302
2	02020007030030-01	HUC02020007030030	Wallkill River (Owens gage to 41d13m30s)	TOTAL SUSPENDED SOLIDS (TSS)	01368000	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Last 5 yrs all 22 samples full support at 01368000
2	02020007030040-01	HUC02020007030040	Wallkill River (stateline to Owens gage)	TOTAL SUSPENDED SOLIDS (TSS)	01368000	2014	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	Last 5 yrs all 22 samples full support at 01368000
3	02030103070050-01	HUC02030103070050	Wanaque Reservior (below Monks gage)	TEMPERATURE	Erskine Lake	2006	Aquatic Life Trout	DELISTING_ORIG_INCORRECT	NJW04459-137 delisted, originally assessed as TM lake but it is NT
2	02020007040050-01	HUC02020007040050	Wawayanda Creek & tribs	PHOSPHORUS, TOTAL	01368900	2004	Aquatic Life General	DELISTING_4A	12366
13	02040301130060-01	HUC02040301130060	Westecunk Creek (below GS Parkway)	ESCHERICHIA COLI (E. COLI)	BT12	2014	Recreation	DELISTING_4A	31401
12	02030104070020-01	HUC02030104070020	Willow Brook	PHOSPHORUS, TOTAL	MCHD-52	2002	Aquatic Life General	DELISTING_ORIG_INCORRECT	01407253 full attain, MCHD-52 mistakenly associated with HUC
12	02030104070020-01	HUC02030104070020	Willow Brook	TOTAL SUSPENDED SOLIDS (TSS)	MCHD-52	2006	Aquatic Life General	DELISTING_ORIG_INCORRECT	MCHD-52 mistakenly associated with HUC
13	02040301080050-01	HUC02040301080050	Wrangel Brook (below Michaels Branch)	ESCHERICHIA COLI (E. COLI)	BT04	2014	Recreation	DELISTING_4A	31400

WMA	Assessment Unit Number	HUC14	Assessment Unit Name	Parameter	TMDL Number	Cycle 1st Listed	Designated Use	Delisting Reason	Delisting Comment
18	02040202110060-01	HUC02040202110060	Cooper River (below Rt 130)	PHOSPHORUS, TOTAL	11104	2006	Aquatic Life General	DELISTING_ORIG_INCORRECT	Cooper River at Cuthbert Blvd, Cooper River near mouth are in tidal freshwater
15	02040302030040-01	HUC02040302030040	GEHR (Broad Lane road to AC Expressway)	ESCHERICHIA COLI (E. COLI)	31408	2008	Recreation	WQS_RECOVERY_UNSPECIFIED	01410820 is full support and upstream station 01410784 is full support
9	02030105140020-01	HUC02030105140020	Manalapan Brook (incl LkManlpn to 40d16m15s)	MERCURY IN FISH TISSUE	37909	2010	Fish Consumption	WQS_RECOVERY_UNSPECIFIED	Manalapan Lake fish tissue data is full support
12	02030104100050-01	HUC02030104100050	Manasquan R (gage to West Farms Rd)	MERCURY IN FISH TISSUE	37909	2008	Fish Consumption	WQS_RECOVERY_UNSPECIFIED	Manasquan Reservoir fish tissue data is full support
1	02040105150030-01	HUC02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	FECAL COLIFORM	12385	2006	Recreation	DELISTING_ORIG_INCORRECT	Not under a TMDL
12	02030104070090-01	HUC02030104070090	Nut Swamp Brook	MERCURY IN FISH TISSUE	37909	2008	Fish Consumption	WQS_RECOVERY_UNSPECIFIED	Shadow Lake fish tissue data is full support
17	02040206040030-01	HUC02040206040030	Salem R (Fenwick Ck to 39d40m14s dam)	ESCHERICHIA COLI (E. COLI)	9893	2012	Recreation	DELISTING_ORIG_INCORRECT	SE1 waters only, need to use Enterococcus, also not covered by TMDL
10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	MERCURY IN FISH TISSUE	37909	2010	Fish Consumption	WQS_RECOVERY_UNSPECIFIED	Rosedale Lake fish tissue data is full support
12	02030104070070-01	HUC02030104070070	Swimming River Reservior / Slope Bk	MERCURY IN FISH TISSUE	37909	2010	Fish Consumption	WQS_RECOVERY_UNSPECIFIED	Swimming River Reservoir fish tissue data is full support
18	02040202120110-01	HUC02040202120110	Woodbury Creek (below Rt 45)/LDRV to B T Ck	PHOSPHORUS, TOTAL	10574	2006	Aquatic Life General	WQS_RECOVERY_UNSPECIFIED	All samples full support at 01474730

WMA	Assessment Number	HUC14	Assessment Unit Name	Parameter	newlocid	Number of Samples	Number of Exceedances	History Notes
7	02030104050090-01	HUC02030104050090	Rahway R SB	ARSENIC	01396023	**8**	**6**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
8	02030105010010-01	HUC02030105010010	Drakes Brook (above Eyland Ave)	ARSENIC	01396137	**7**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
8	02030105010020-01	HUC02030105010020	Drakes Brook (below Eyland Ave)	ARSENIC	01396162	**8**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
8	02030105050070-01	HUC02030105050070	Lamington R(HallsBrRd-Herzog Brk)	ARSENIC	01399528	**8**	**4**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
10	02030105090010-01	HUC02030105090010	Stony Bk (above 74d 49m 15s)	ARSENIC	01400842	**7**	**7**	6 of 7 exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
10	02030105110050-01	HUC02030105110050	Beden Brook (below Province Line Rd)	ARSENIC	01401533	**7**	**5**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
10	02030105110160-01	HUC02030105110160	Royce Brook (below/incl Branch Royce Bk)	ARSENIC	01402730	**5**	**4**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
10	02030105110160-01	HUC02030105110160	Royce Brook (below/incl Branch Royce Bk)	ARSENIC	01402730	**5**	**4**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	ARSENIC	01405302	**5**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105150060-01	HUC02030105150060	Matchaponix Brook (below Pine Brook)	ARSENIC	01405302	**5**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105120120-01	HUC02030105120120	Ambrose Brook (below Lake Nelson)	ARSENIC	AN0425A	**5**	**4**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105160050-01	HUC02030105160050	Tennent Brook (below 74d 19m 05s)	ARSENIC	BFBM000231	**4**	**3**	2 of 3 exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	ARSENIC	SBR4	**5**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
8	02030105010040-01	HUC02030105010040	Raritan R SB(74d 44m 15s to Rt 46)	BIOLOGICAL-CAUSE UNKNOWN	AN0310	**4**	**4**	Close to lake outlet, index not applicable
10	02030105100040-01	HUC02030105100040	Rocky Brook (above Monmouth Co line)	BIOLOGICAL-CAUSE UNKNOWN	AN0380	**4**	**4**	Immediately downstream of lake, index not applicable
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	BIOLOGICAL-CAUSE UNKNOWN	AN0381	**4**	**4**	Immediately downstream of lake, index not applicable
10	02030105100090-01	HUC02030105100090	Cranbury Brook (below Turnpike)	BIOLOGICAL-CAUSE UNKNOWN	AN0386	**4**	**4**	Immediately downstream of lake, index not applicable
10	02030105110030-01	HUC02030105110030	Millstone R (Beden Bk to Heathcote Bk)	BIOLOGICAL-CAUSE UNKNOWN	AN0397	**4**	**4**	Immediately downstream of lake, index not applicable
9	02030105120060-01	HUC02030105120060	Middle Brook WB	BIOLOGICAL-CAUSE UNKNOWN	AN0417	**4**	**4**	Immediately downstream of lake, index not applicable

9	02030105160050-01	HUC02030105160050	Tennent Brook (below 74d 19m 05s)	BIOLOGICAL-CAUSE UNKNOWN	AN0455	**4**	**4**	Tidal Site, Station was removed
8	02030105060040-01	HUC02030105060040	Raritan R NB (Peapack Bk to McVickers Bk)	BIOLOGICAL-CAUSE UNKNOWN	NB06	**4**	**4**	Immediately downstream of lake, index not applicable
8	02030105020100-01	HUC02030105020100	Raritan R SB(Three Bridges-Prescott Bk)	BIOLOGICAL-CAUSE UNKNOWN	SB06	**6**	**1**	5 of 6 yrs full support
8	02030105040010-01	HUC02030105040010	Raritan R SB(Pleasant Run-Three Bridges)	BIOLOGICAL-CAUSE UNKNOWN	SB07	**6**	**1**	5 of 6 yrs full support
8	02030105010060-01	HUC02030105010060	Raritan R SB (Califon br to Long Valley)	BIOLOGICAL-CAUSE UNKNOWN	SB13	**6**	**1**	5 of 6 yrs full support
8	02030105020100-01	HUC02030105020100	Raritan R SB(Three Bridges-Prescott Bk)	BIOLOGICAL-CAUSE UNKNOWN	SB14	**6**	**1**	5 of 6 yrs full support
6	02030103020100-01	HUC02030103020100	Whippany R (Rockaway R to Malapardis Bk)	CHLORIDE	01381800	**22**	**5**	5 of 22 samples exceed, 2/14/15, 2/12/14, 2/7/13 winter storms, borderline, did not change in 2016
6	02030103040010-01	HUC02030103040010	Passaic R Upr (Pompton R to Pine Bk)	CHLORIDE	01382000	**22**	**2**	2 of 22 samples exceed, borderline, did not change in 2016
3	02030103110010-01	HUC02030103110010	Lincoln Park tribs (Pompton River)	CHLORIDE	01388720	**22**	**2**	2 of 22 samples exceed, 2/12/13 winter storm
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goffle Bk to pump stn)	CHLORIDE	01389500	**22**	**2**	2 of 22 samples exceed, 2/24/10 winter storm
4	02030103140060-01	HUC02030103140060	Saddle R (Lodi gage to Rt 4)	CHLORIDE	01391500	**54**	**3**	3 of 54 samples over 10 yrs exceed, 2/11/14, 3/10/05 winter storm, did
7	02030104050040-01	HUC02030104050040	Rahway R (Kenilworth Blvd to EB / WB)	CHLORIDE	01394500	**19**	**5**	5 of 19 samples exceed, 2/23/10, 2/23/11, 2/4/15 winter storms, borderline, do not list, all exceedances occur only in winter
7	02030104050060-01	HUC02030104050060	Rahway R(Robinsons Br to KenilworthBlvd)	CHLORIDE	01395000	**38**	**6**	6 of 38 samples exceed in 10 yrs, Winter storms 2/3/09, 2/6/14, 2/12/15, borderline, did not list in 2016
8	02030105030060-01	HUC02030105030060	Neshanic River(Black Brk to FN/SN confl)	CHLORIDE	01398000	**43**	**3**	3 of 43 samples exceed, winter storms 2/4/14, 2/16/10, 2-27/07
10	02030105110010-01	HUC02030105110010	Heathcote Brook	CHLORIDE	01401400	**33**	**4**	4 of 33 samples exceed, winter storms 2/5/09, 2/8/10, 2/4/14, 2/11/15
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	CHLORIDE	01403385	**39**	**4**	4 of 39 samples exceed, winter storms 2/7/07, 2/11/13, 2/19/14, 2/12/15
12	02030104090050-01	HUC02030104090050	Jumping Brook (Ocean Co)	CHLORIDE	01407760	**41**	**4**	4 of 41 samples exceed, winter storms 2/14/07, 2/22/10, 2/25/15
3	02030103050050-01	HUC02030103050050	Pequannock R (Charlotteburg to OakRidge)	DISSOLVED OXYGEN	01382310	**29**	**4**	4 of 29 exceed over 10 yrs
7	02030104020020-01	HUC02030104020020	Elizabeth R (Elizabeth CORP BDY to I-78)	DISSOLVED OXYGEN	01393450	**28**	**2**	Last exceedance in 2005
7	02030104050060-01	HUC02030104050060	Rahway R(Robinsons Br to KenilworthBlvd)	DISSOLVED OXYGEN	01395000	**54**	**2**	Very low exceedance rate, 2 of 54 samples exceed
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	DISSOLVED OXYGEN	01405003	**39**	**2**	Diurnal Data in 2009 shows full attainment
9	02030105160070-01	HUC02030105160070	South R (below Duhernal Lake)	DISSOLVED OXYGEN	01406580	**27**	**1**	2 exceedances on 8/11/14 & 8/14/14 counted as 1 event
10	02030105110110-01	HUC02030105110110	Millstone R (BlackwellsMills to BedenBk)	DISSOLVED OXYGEN	01460530	**32**	**2**	No exceedances last 5 years
19	02040202030070-01	HUC02040202030070	McDonalds Branch	DISSOLVED OXYGEN	01466500	**79**	**38**	Location in State Park with no anthropogenic sources. Water here is spring-fed resulting in naturally low DO
13	02040301020020-01	HUC02040301020020	Metedeconk R NB (confluence to Rt 9)	DISSOLVED OXYGEN	NF	**336**	**4**	Extremely low exceedance rate, 4 of 336 samples exceed
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	DISSOLVED OXYGEN	NJHDG-11	**281**	**3**	Extremely low exceedance rate, 3 of 281 samples exceed
9	02030105120130-01	HUC02030105120130	Green Brook (below Bound Brook)	DISSOLVED OXYGEN	NJHDG-25	**192**	**4**	3 exceed during summer of 2010, last 35 samples full attain, 01403900 upstream full attain
9	02030105120170-01	HUC02030105120170	Raritan R Lwr (Lawrence Bk to Mile Run)	DISSOLVED OXYGEN	NJHDG-26	**130**	**2**	Very low exceedance rate, 2 of 130 samples exceed
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	DISSOLVED OXYGEN	NJHDG-27	**65**	**2**	2 exceedances of 65 samples, near wetlands, upstream and downstream
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	DISSOLVED OXYGEN	NJHDG-31	**70**	**2**	Low exceedance rate, 2 of 70 samples exceed

5	02030101170030-01	HUC02030101170030	Hudson River (lower)	DISSOLVED OXYGEN	NJHDG-32	**391**	**6**	Low exceedance rate, 4 of 391 samples exceed, two exceedances on same
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	DISSOLVED OXYGEN	NJHDG-33	**396**	**3**	Extremely low exceedance rate, 3 of 396 samples exceed
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	DISSOLVED OXYGEN	NJHDG-8	**274**	**5**	Extremely low exceedance rate, 5 of 274 samples exceed
2	02020007040010-01	HUC02020007040010	Black Ck(above/incl G.Gorge Resort trib)	DISSOLVED OXYGEN	NJW04459-023	**3**	**3**	Surface samples full attain, only bottom samples show exceedances
10	02030105100050-01	HUC02030105100050	Rocky Brook (below Monmouth Co line)	DISSOLVED OXYGEN	NJW04459-024	**12**	**3**	Surface samples full attain, only bottom samples show exceedances
8	02030105070010-01	HUC02030105070010	Raritan R NB (Rt 28 to Lamington R)	DISSOLVED OXYGEN	NJW04459-040	**10**	**3**	Surface samples full attain, only bottom samples show exceedances
9	02030105130050-01	HUC02030105130050	Lawrence Bk (Church Lane to Deans Pond)	DISSOLVED OXYGEN	NJW04459-060	**16**	**2**	Surface samples full attain, only bottom samples show exceedances
3	02030103050060-01	HUC02030103050060	Pequannock R(Macopin gage to Charl'brg)	DISSOLVED OXYGEN	NJW04459-072	**3**	**3**	Surface samples full attain, only bottom samples show exceedances
9	02030105130070-01	HUC02030105130070	Lawrence Bk (below Milltown/Herberts br)	DISSOLVED OXYGEN	NJW04459-138	**16**	**4**	Surface samples full attain, only bottom samples show exceedances
10	02030105110170-01	HUC02030105110170	Millstone R (below Amwell Rd)	DISSOLVED OXYGEN	NJW04459-257	**13**	**3**	Surface samples full attain, only bottom samples show exceedances
13	02040301020010-01	HUC02040301020010	Metedeconk R NB(above I-195)	DISSOLVED OXYGEN	NM	**193**	**4**	Extremely low exceedance rate, 4 of 193 samples exceed
13	02040301020010-01	HUC02040301020010	Metedeconk R NB(above I-195)	DISSOLVED OXYGEN	NN	**39**	**2**	Last 5 yrs all samples are fully supporting
13	02040301020010-01	HUC02040301020010	Metedeconk R NB(above I-195)	DISSOLVED OXYGEN	NP	**48**	**3**	Low exceedance rate, Station NK should not have trumped this site because this site has newer data
12	02030104080020-01	HUC02030104080020	Parkers Creek / Oceanport Creek	DISSOLVED OXYGEN	R04	**54**	**6**	In a cove, DO upstream/downstream full attain, deminimus
14	02040301200060-01	HUC02040301200060	Bass R (below WB / EB)	DISSOLVED OXYGEN	R24	**21**	**2**	Downstream R25 (1 of 25 exceeds), upstream Absegami Lake and Pilgrim Lake full attain, need diurnal data, next to marina
17	02040206090100-01	HUC02040206090100	Cohansey R (below Greenwich)	DISSOLVED OXYGEN	R48	**21**	**2**	One exceedance within analytical precision out of 2 exceedances
13	02040301030030-01	HUC02040301030030	Metedeconk R SB(BennettsPd to 74d19m15s)	DISSOLVED OXYGEN	SI	**344**	**6**	Extremely low exceedance rate, 6 of 344 samples exceed
1	02040105150020-01	HUC02040105150020	Musconetcong River (above Trout Brook)	DISSOLVED OXYGEN	ST-3	**56**	**3**	Surface samples full attain, exceedances occurring with bottom samples. Located in an enclosed cove
4	02030103150010-01	HUC02030103150010	Third River	ENTEROCOCCUS	FBP-01 Thru FBP-10	**138**	**1 (geomean)**	Enterococcus geomean exceeds at all 10 stations, however, this is an SE2 stream and fecal coliform for secondary recreation is the indicator.
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	ENTEROCOCCUS	NPS_SH-1	**63**	**3**	Very localized in enclosed cove, no apparent sources in park, deminimus, source trackdown candidate
12	02030104910020-01	HUC02030104910020	Sandy Hook Bay (east of Thorns Ck)	ENTEROCOCCUS	NPS_SH-2	**63**	**2**	Very localized in enclosed cove, no apparent sources in park, deminimus, source trackdown candidate
5	02030101170020-01	HUC02030101170020	Sparkill Brook	ENTEROCOCCUS	SPC-10, SPC-11	**30**	**1 (geomean)**	Enterococcus geomean exceeds at both stations, however, this is an FW2 stream and e.coli is the pathogen indicator for primary recreational use.
10	02030105110070-01	HUC02030105110070	Rock Brook (below Camp Meeting Ave)	ESCHERICHIA COLI (E. COLI)	01401595	**10**	**1 (geomean)**	1 year geomean exceeds, need more data
12	02030104100010-01	HUC02030104100010	Manasquan R (above 74d17m50s road)	ESCHERICHIA COLI (E. COLI)	01407821	**15**	**1 (geomean)**	2014 showed 1st geomean exceed, need more data, colocated with MCHD-92 that is full attain
12	02030104060030-01	HUC02030104060030	Matawan Creek (below Ravine Drive)	ESCHERICHIA COLI (E. COLI)	MCHD-20	**10**	**1 (geomean)**	1 year geomean exceeds, need more data
13	02040301020030-01	HUC02040301020030	Haystack Brook	ESCHERICHIA COLI (E. COLI)	MCHD-67	**21**	**1 (geomean)**	1 year geomean exceeds, need more data
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	ESCHERICHIA COLI (E. COLI)	SB1	**225**	**1 (geomean)**	Seasonal geomean full attain
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	ESCHERICHIA COLI (E. COLI)	SE	**256**	**1 (geomean)**	Only 1 of last 5 yrs geomean exceeds
13	02040301030020-01	HUC02040301030020	Metedeconk R SB (74d19m15s to I-195 X21)	ESCHERICHIA COLI (E. COLI)	SK	**222**	**1 (geomean)**	Seasonal geomean full attain
2	02020007010030-01	HUC02020007010030	Franklin Pond Creek	MERCURY IN WATER COLUMN	01367693	**8**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
8	02030105050040-01	HUC02030105050040	Lamington R(Pottersville gage-FurnaceRd)	MERCURY IN WATER COLUMN	01399320	**13**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.

10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	MERCURY IN WATER COLUMN	01401000	**15**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105120050-01	HUC02030105120050	Middle Brook EB	MERCURY IN WATER COLUMN	01403075	**14**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	MERCURY IN WATER COLUMN	01404170	**13**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105130060-01	HUC02030105130060	Lawrence Bk (Milltown to Church Lane)	MERCURY IN WATER COLUMN	01405003	**18**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.
9	02030105160030-01	HUC02030105160030	Duhernal Lake / Iresick Brook	MERCURY IN WATER COLUMN	01405470	**10**	**2**	All exceedances 'estimated',do not list since there is less than 2 confirmed exceedances of the criteria.
12	02030104070030-01	HUC02030104070030	Big Brook	MERCURY IN WATER COLUMN	01407320	**13**	**2**	1 exceed, 1 estimated, 10 samples meet criteria since 2005, 01407280 upstream all 4 samples meet, stations in adjacent HUCs full attain
12	02030104090040-01	HUC02030104090040	Shark R (above Remsen Mill gage)	MERCURY IN WATER COLUMN	01407670	**14**	**3**	2 of 3 exceedances 'estimated'; do not list since there is less than 2 confirmed exceedances of the criteria.
12	02030104100020-01	HUC02030104100020	Manasquan R (Rt 9 to 74d17m50s road)	MERCURY IN WATER COLUMN	01407862	**10**	**3**	2 of 3 exceedances 'estimated'; do not list since there is less than 2 confirmed exceedances of the criteria.
12	02030104100080-01	HUC02030104100080	Manasquan R (74d07m30s to Squankum gage)	MERCURY IN WATER COLUMN	0140802850	**14**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	MERCURY IN WATER COLUMN	01408136	**19**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301050020-01	HUC02040301050020	Kettle Creek (below Lake Riviera outlet)	MERCURY IN WATER COLUMN	01408175	**18**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301060020-01	HUC02040301060020	Toms R (74-22-30 rd to FrancisMills)	MERCURY IN WATER COLUMN	01408260	**18**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301070040-01	HUC02040301070040	Ridgeway Br (below Hope Chapel Rd)	MERCURY IN WATER COLUMN	01408492	**18**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301090010-01	HUC02040301090010	Webbs Mill Branch	MERCURY IN WATER COLUMN	01408800	**10**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	MERCURY IN WATER COLUMN	01409305	**18**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
14	02040301160140-01	HUC02040301160140	Mullica R (39d40m30s to Rt 206)	MERCURY IN WATER COLUMN	0140940050	**13**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
14	02040301150040-01	HUC02040301150040	Springers Brook / Deep Run	MERCURY IN WATER COLUMN	01409455	**14**	**4**	2 exceed, 2 estimated. Almost completely forested, cranberry bogs. Need more data
14	02040301190050-01	HUC02040301190050	Wading R WB (Jenkins Rd to Rt 563)	MERCURY IN WATER COLUMN	01409790	**14**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
14	02040301180010-01	HUC02040301180010	Oswego R (Sim Place Resv to Rt 539)	MERCURY IN WATER COLUMN	01409880	**18**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
14	02040301200110-01	HUC02040301200110	Mattix Run (Nacote Creek)	MERCURY IN WATER COLUMN	01410230	**13**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.

15	02040302030060-01	HUC02040302030060	GEHR (Piney Hollow Rd to Broad Lane rd)	MERCURY IN WATER COLUMN	01410820	**22**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
15	02040302050080-01	HUC02040302050080	Stephen Creek (GEHR)	MERCURY IN WATER COLUMN	01411230	**14**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
10	02030105110110-01	HUC02030105110110	Millstone R (BlackwellsMills to BedenBk)	MERCURY IN WATER COLUMN	01460530	**14**	**4**	3 of 4 exceedances 'estimated'; do not list since there is less than 2 confirmed exceedances of the criteria.
20	02040201100020-01	HUC02040201100020	Barkers Brook (above 40d02m30s)	MERCURY IN WATER COLUMN	01464583	**18**	**2**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	MERCURY IN WATER COLUMN	01477125	**8**	**2**	1 exceed, 1 estimated; do not list since there is less than 2 confirmed exceedances of the criteria.
17	02040206060040-01	HUC02040206060040	Deep Run (Alloway)	MERCURY IN WATER COLUMN	01483010	**18**	**2**	2 exceed in 2007, 12 samples since then very low levels
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	MERCURY IN WATER COLUMN	BT01	**11**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	MERCURY IN WATER COLUMN	BTNA	**478**	**2**	only 2 of 478 samples exceed, all others non detect
13	02040301020040-01	HUC02040301020040	Muddy Ford Brook	MERCURY IN WATER COLUMN	MF-1	**21**	**21**	Used wrong units previously picograms instead of micrograms
13	02040301050010-01	HUC02040301050010	Kettle Creek (below Lake Riviera outlet)	MERCURY IN WATER COLUMN	R09	**8**	**3**	All exceedances 'estimated', do not list since there is less than 2 confirmed exceedances of the criteria.
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	MERCURY IN WATER COLUMN	SA	**482**	**2**	HH lower than MDL, Only 1 exceedance, all other sample non detect
9	02030105120160-01	HUC02030105120160	Raritan R Lwr(I-287 Piscatway-Millstone)	NITRATE	01403300	**385**	**52**	Mistake, used Nitrogen as NO3 instead of N. No exceedances
9	02030105120130-01	HUC02030105120130	Green Brook (below Bound Brook)	NITRATE	NJHDG-25	**206**	**3**	Very low exceedance rate, 3 of 206 exceed
10	02030105100060-01	HUC02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	PH	01400650	**74**	**7**	6 of 7 exceedances are within precision of instrument. UMR3 downstream has diurnal data showing full support
10	02030105090050-01	HUC02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	PH	01401000	**26**	**2**	Nearby station full attain upstream, do not list
10	02030105110010-01	HUC02030105110010	Heathcote Brook	PH	01401400	**61**	**8**	Last 5 years show 20 of 21 samples meet criteria
10	02030105110130-01	HUC02030105110130	Sixmile Run (below Middlebush Rd)	PH	01401900	**21**	**2**	Exceedances show one exceeding the high criteria and one exceeding the
9	02030105140020-01	HUC02030105140020	Manalapan Bk(incl LkManlpn to 40d16m15s)	PH	01405340	**73**	**3**	Low exceedance rate, 3 of 73 samples exceed
9	02030105160070-01	HUC02030105160070	South R (below Duhernal Lake)	PH	01406580	**15**	**2**	Only 1 of 10 samples exceed over 5 yrs, upstream no exceedances
12	02030104100030-01	HUC02030104100030	Manasquan R (West Farms Rd to Rt 9)	PH	01408000	**42**	**2**	Low exceedance rate, 2 of 42 exceed
13	02040301090030-01	HUC02040301090030	Cedar Creek (74-16-38 to Chamberlain Br)	PH	01408830	**65**	**2**	Low exceedance rate in last 10 years, 2 of 65 samples exceed
13	02040301120010-01	HUC02040301120010	Waretown Creek / Lochiel Creek	PH	01409108	**19**	**19**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301130040-01	HUC02040301130040	Cedar Run	PH	01409255	**38**	**37**	Impacted by Pinelands, pH low (see Appendix D)
13	02040301140020-01	HUC02040301140020	Mill Branch (below GS Parkway)	PH	01409305	**19**	**6**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
14	02040301160030-01	HUC02040301160030	Mullica River (Rt 206 to Jackson Road)	PH	01409387	**104**	**6**	Only 1 of 27 samples exceed in last 5 yrs
14	02040301200110-01	HUC02040301200110	Mattix Run (Nacote Creek)	PH	01410230	**15**	**7**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
15	02040302050050-01	HUC02040302050050	Gravelly Run (above Gravelly Run road)	PH	01411208	**31**	**20**	Impacted by Pinelands, pH low (see Appendix D)
15	02040302070040-01	HUC02040302070040	Tuckahoe R (Rt 49 to 39d19m52s)	PH	01411300	**33**	**6**	HUC this is associated with is SJ criteria and Pinelands influenced

17	02040206130030-01	HUC02040206130030	Indian Branch (Scotland Run)	PH	01411466	**36**	**4**	Influenced by Pinelands, pH low (see Appendix D from 2014 IR)
17	02040206170050-01	HUC02040206170050	Buckshutem Creek (below Rt 555)	PH	01411955	**35**	**2**	Low exceedance rate, 2 of 35 samples exceed
1	02040104240020-01	HUC02040104240020	Dunnfield Creek (incl UDRV)	PH	01442760	**77**	**23**	Natural. Limestone Geology, do not list
11	02040105230020-01	HUC02040105230020	Assunpink Ck (NewSharonBr to/incl Lake)	PH	01463568	**46**	**3**	Diurnal data fully support
20	02040201050070-01	HUC02040201050070	Crosswicks Ck (Doctors Ck-Ellisdale trib)	PH	01464504	**90**	**13**	Tidal influenced, pH not applicable
20	02040201080020-01	HUC02040201080020	Blacks Creek (Bacons Run to 40d06m10s)	PH	01464527	**39**	**2**	Low exceedance rate, 2 of 39 samples exceed
19	02040202030070-01	HUC02040202030070	McDonalds Branch	PH	01466500	**247**	**10**	Location in State Park with no sources. Water here is spring-fed resulting in naturally low DO, Non-impacted site. Natural
18	02040202150040-01	HUC02040202150040	Raccoon Ck (Russell Mill Rd to Rt 45)	PH	01477120	**68**	**3**	3 of 26 samples exceed SJ criteria, 2 within precision, Diurnal data also full attain 2009-2010
13	BarnegatBay08-01	BarnegatBay08	Manahawkan Bay and Upper Little Egg Harbor	PH	BB11a	**140**	**2**	Extremely low exceedance rate, 2 of 140 samples exceed
13	BarnegatBay09-01	BarnegatBay09	Lower Little Egg Harbor Bay	PH	BB13	**208**	**2**	Extremely low exceedance rate, 4 of 208 samples exceed
13	BarnegatBay09-01	BarnegatBay09	Lower Little Egg Harbor Bay	PH	BB14	**296**	**2**	Extremely low exceedance rate, 4 of 296 samples exceed
13	02040301080050-01	HUC02040301080050	Wrangel Brook (below Michaels Branch)	PH	BT04	**57**	**15**	Impacted by Pinelands, pH low (see Appendix D)
13	02040301090060-01	HUC02040301090060	Cedar Creek (below GS Parkway)	PH	BT06	**19**	**18**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301090060-01	HUC02040301090060	Cedar Creek (below GS Parkway)	PH	BT06a	**79**	**75**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301110020-01	HUC02040301110020	Forked River NB (below old RR grade)	PH	BT07	**97**	**38**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301110030-01	HUC02040301110030	Forked River (below NB incl Mid/South Br)	PH	BT08	**40**	**37**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301110030-01	HUC02040301110030	Forked River (below NB incl Mid/South Br)	PH	BT09	**53**	**49**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301110050-01	HUC02040301110050	Oyster Creek (below Rt 532)	PH	BT10	**53**	**49**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301130060-01	HUC02040301130060	Westecunk Creek (below GS Parkway)	PH	BT12	**101**	**38**	Impacted by Pinelands, pH low (see Appendix D from 2014 IR)
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	PH	BTNA	**1857**	**12**	Extremely low exceedance rate, 12 of 1857 samples exceed
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	PH	INTAKE	**1867**	**69**	Low exceedance rate, 69 of 1867 samples exceed
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	PH	NB	**107**	**3**	Low exceedance rate, 3 of 107 samples exceed
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	PH	ND	**384**	**4**	Very low exceedance rate, 4 of 384 samples exceed
4	02030103120110-01	HUC02030103120110	Passaic R Lwr (Goffle Bk to pump stn)	PH	NJHDG-1	**68**	**2**	Low exceedance rate, 2 of 68 samples exceed, both within precision
4	02030103150040-01	HUC02030103150040	Passaic R Lwr (4th St br to Second R)	PH	NJHDG-11	**148**	**4**	Very low exceedance rate, 4 of 148 samples exceed
5	02030103170060-01	HUC02030103170060	Hackensack R (Oradell to OldTappan gage)	PH	NJHDG-13	**84**	**2**	Very low exceedance rate, 2 of 84 samples exceed
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	PH	NJHDG-14	**412**	**8**	All samples over last 4 yrs meet
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	PH	NJHDG-15	**240**	**2**	Very low exceedance rate, 2 of 240 samples exceed
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	PH	NJHDG-16	**240**	**3**	Very low exceedance rate, 3 of 240 samples exceed
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	PH	NJHDG-22	**178**	**6**	Low Exceedance rate, exceedance greater than the high criteria are within
7	02030104050100-01	HUC02030104050100	Rahway River (below Robinsons Branch)	PH	NJHDG-23	**240**	**2**	Very low exceecance rate, 2 of 240 samples exceed
7	02030104050120-01	HUC02030104050120	Arthur Kill waterfront (below Grasselli)	PH	NJHDG-24	**385**	**5**	All 136 samples over last 5 yrs meet
9	02030105160100-01	HUC02030105160100	Raritan R Lwr (below Lawrence Bk)	PH	NJHDG-27	**364**	**4**	Very low exceedance rate, 4 of 364 exceed criteria
12	02030104910010-01	HUC02030104910010	Raritan Bay (deepwater)	PH	NJHDG-29	**180**	**2**	Very low exceecance rate, 2 of 180 samples exceed
5	02030101170030-01	HUC02030101170030	Hudson River (lower)	PH	NJHDG-33	**222**	**3**	Very low exceedance rate, 3 of 222 samples exceed
4	02030103140070-01	HUC02030103140070	Saddle River (below Lodi gage)	PH	NJHDG-6	**250**	**7**	Low exceedance rate, 2 exceed low criteria during winter 2011, 3 exceed high criteria, nearby stations show full attain (no exceedances)
4	02030103150030-01	HUC02030103150030	Passaic R Lwr (Second R to Saddle R)	PH	NJHDG-8	**89**	**3**	Low exceedance rate, 3 of 89 samples exceed

13	02040301020010-01	HUC02040301020010	Metedeconk R NB(above I-195)	PH	NM	**193**	**19**	Impacted by Pinelands, pH low (see Appendix D)
14	02040301170060-01	HUC02040301170060	Mullica R (Lower Bank Rd to Rt 563)	PH	R27	**22**	**2**	Impacted by Pinelands, pH low (see Appendix D)
14	02040301170080-01	HUC02040301170080	Mullica River(Turtle Ck to Lower BankRd)	PH	R28	**22**	**6**	Impacted by Pinelands, pH low (see Appendix D)
15	02040302050060-01	HUC02040302050060	GEHR (Miry Run to Lake Lenape)	PH	R36	**22**	**14**	Impacted by Pinelands, pH low (see Appendix D)
15	02040302070110-01	HUC02040302070110	Tuckahoe R (below Rt 49)	PH	R37	**22**	**6**	Impacted by Pinelands, pH low (see Appendix D)
17	02040206190030-01	HUC02040206190030	Manumuskin R (below Rt 49)	PH	R42	**20**	**6**	Tidal, influenced by waters with South Jersey criteria, not changed in 2016, will look into further in 2018 in comprehensive assessment
17	02040206110030-01	HUC02040206110030	Oranoaken Creek	PH	R45	**21**	**2**	Tidal, influenced by waters with South Jersey criteria, not changed in 2016, will look into further in 2018 in comprehensive assessment
8	02030105020090-01	HUC02030105020090	Prescott Brook / Round Valley Reservior	PH	RV-3	**68**	**2**	Low exceedance rate, only 2 of 68 samples exceed over 10 yrs
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	PH	SA	**1851**	**13**	Extremely low exceedance rate, 13 of 1851 samples exceed
13	02040301030050-01	HUC02040301030050	Metedeconk R SB (confluence to Rt 9)	PH	SB1	**335**	**3**	Extremely low exceedance rate, 3 of 335 samples exceed
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	PH	SF	**126**	**2**	Very low exceedance rate, 2 of 126 samples exceed
13	02040301030020-01	HUC02040301030020	Metedeconk R SB (74d19m15s to I-195 X21)	PH	SK	**251**	**2**	Very low exceedance rate, 2 of 251 samples exceed
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	PH	SL	**343**	**29**	Impacted by Pinelands, pH low (see Appendix D)
1	02040105150020-01	HUC02040105150020	Musconetcong River (above Trout Brook)	PH	ST-2	**262**	**2**	Extremely low exceedance rate, 2 of 262 samples exceed
1	02040105150020-01	HUC02040105150020	Musconetcong River (above Trout Brook)	PH	ST-4	**73**	**2**	Low exceedance rate, 2 of 73 samples exceed
1	02040105150020-01	HUC02040105150020	Musconetcong River (above Trout Brook)	PH	ST-5	**74**	**3**	Very low exceedance rate, 3 of 74 samples exceed
1	02040105150020-01	HUC02040105150020	Musconetcong River (above Trout Brook)	PH	ST-9	**158**	**2**	Very low exceedance rate, 2 of 158 samples exceed
8	02030105010070-01	HUC02030105010070	Raritan R SB(StoneMill gage to Califon)	PHOSPHORUS, TOTAL	01396350	**24**	**2**	2 exceedances in 2009 only, exceedance questionable, magnitudes higher than other samples
8	02030105050040-01	HUC02030105050040	Lamington R(Pottersville gage-FurnaceRd)	PHOSPHORUS, TOTAL	01399320	**25**	**4**	One excursion during drought and 1 within analytical precision
8	02030105070030-01	HUC02030105070030	Raritan R NB (below Rt 28)	PHOSPHORUS, TOTAL	01400000	**43**	**2**	Low exceedance rate, 2 of 43 samples exceed
10	02030105110010-01	HUC02030105110010	Heathcote Brook	PHOSPHORUS, TOTAL	01401400	**33**	**2**	Low exceedance rate, 2 of 33 samples exceed
9	02030105120020-01	HUC02030105120020	Green Bk (N Plainfield gage to Blue Bk)	PHOSPHORUS, TOTAL	01403465	**27**	**2**	Low exceedance rate, 2 of 27 samples exceed
13	BarnegatBay01-01	BarnegatBay01	Point Pleasant Canal and Bay Head Harbor	TEMPERATURE	BB00	**104**	**2**	Extremely low exceedance rate, 2 of 104 samples exceed
13	BarnegatBay03-01	BarnegatBay03	Metedeconk and Lower Tribs - Bay	TEMPERATURE	BB01	**293**	**3**	Low exceedance rate, all other stations in HUC fully support
5	02030103180090-01	HUC02030103180090	Hackensack R (Amtrak bridge to Rt 3)	TEMPERATURE	NJHDG-14	**140**	**4**	Extremely low exceedance rate, 4 of 140 samples exceed
5	02030103180100-01	HUC02030103180100	Hackensack R (below Amtrak bridge)	TEMPERATURE	NJHDG-15	**142**	**3**	Extremely low exceedance rate, 3 of 142 samples exceed
13	02040301110050-01	HUC02040301110050	Oyster Creek (below Rt 532)	TEMPERATURE	R14A	**30**	**2**	2 exceedances, both within range of analytical error
6	02030103020100-01	HUC02030103020100	Whippany R (Rockaway R to Malapardis Bk)	TOTAL DISSOLVED SOLIDS (TDS)	01381800	**42**	**5**	5 of 42 samples exceed, 2/12/15, 2/12/14, 2/7/13 winter storms
3	02030103100010-01	HUC02030103100010	Ramapo R (above 74d 11m 00s)	TOTAL DISSOLVED SOLIDS (TDS)	01387500	**84**	**3**	Very low exceedance rate, 3 of 84 samples exceed
3	02030103110020-01	HUC02030103110020	Pompton River	TOTAL DISSOLVED SOLIDS (TDS)	01388500	**84**	**3**	Very low exceedance rate, 3 of 84 samples exceed
7	02030104030010-01	HUC02030104030010	Morses Creek / Piles Creek	TOTAL DISSOLVED SOLIDS (TDS)	01393690	**18**	**3**	3 of 18 samples exceed, winter storms on 2/11-12/06, 2/6-7/07
7	02030104050060-01	HUC02030104050060	Rahway R(Robinsons Br to KenilworthBlvd)	TOTAL DISSOLVED SOLIDS (TDS)	01395000	**39**	**5**	5 of 39 samples exceed (10 yrs), Winter storm events on: 2/3/09, 2/1/10, 2/6/14, 2/12/15, 2/13/13, 2/3-4/06

8	02030105030060-01	HUC02030105030060	Neshanic River(Black Brk to FN/SN confl)	TOTAL DISSOLVED SOLIDS (TDS)	01398000	**85**	**4**	4 of 85 samples exceed, all exceeds associated with winter storms 2/4/14, 2/15-16/10, 2-25-26/07
8	02030105070010-01	HUC02030105070010	Raritan R NB (Rt 28 to Lamington R)	TOTAL DISSOLVED SOLIDS (TDS)	01399820	**25**	**2**	Site was sampled twice per day, 9 total samples with 2 exceedances. Not enough data for assessment, downstream station is full support
10	02030105110010-01	HUC02030105110010	Heathcote Brook	TOTAL DISSOLVED SOLIDS (TDS)	01401400	**31**	**4**	4 of 31 samples exceed (10 yrs), Winter storms on 2/3-4/09, 2/6/10, 2/10/15
9	02030105120160-01	HUC02030105120160	Raritan R Lwr(I-287 Piscatway-Millstone)	TOTAL DISSOLVED SOLIDS (TDS)	01403300	**43**	**3**	No exceedances the last 5 years
9	02030105120100-01	HUC02030105120100	Bound Brook (below fork at 74d 25m 15s)	TOTAL DISSOLVED SOLIDS (TDS)	01403385	**154**	**4**	Low exceedance reate, last 5 yrs 3 of 17 exceed associated with winter storms 2/12/15, 2/19/14, 2/11/13
12	02030104090050-01	HUC02030104090050	Jumping Brook (Ocean Co)	TOTAL DISSOLVED SOLIDS (TDS)	01407760	**85**	**2**	Very low exceedance rate, 2 of 85 samples exceed
12	02030104100030-01	HUC02030104100030	Manasquan R (West Farms Rd to Rt 9)	TOTAL DISSOLVED SOLIDS (TDS)	01408000	**83**	**2**	Very low exceedance rate, 2 of 83 samples exceed
13	02040301020050-01	HUC02040301020050	Metedeconk R NB (confluence to Rt 9)	TOTAL DISSOLVED SOLIDS (TDS)	BTNA	**2806**	**16**	Extremely low exceedance percentage, 16 of 2806 samples exceed
13	02040301020030-01	HUC02040301020030	Haystack Brook	TOTAL DISSOLVED SOLIDS (TDS)	HS-1	**258**	**2**	Very low exceedance rate, 2 of 258 samples exceed
13	02040301040020-01	HUC02040301040020	Metedeconk R (Beaverdam Ck to confl)	TOTAL DISSOLVED SOLIDS (TDS)	INTAKE	**2813**	**19**	Extremely low exceedance percentage, 19 of 2813 samples exceed
13	02040301020020-01	HUC02040301020020	Metedeconk R NB (confluence to Rt 9)	TOTAL DISSOLVED SOLIDS (TDS)	NF	**332**	**7**	Extremely low exceedance percentage, 7 of 332 samples exceed
13	02040301030040-01	HUC02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	TOTAL DISSOLVED SOLIDS (TDS)	NF14	**43**	**3**	Low exceedance rate, 3 of 43 samples exceed, all during winter storms
13	02040301020020-01	HUC02040301020020	Metedeconk R NB(Rt 9 to I-195)	TOTAL DISSOLVED SOLIDS (TDS)	NG	**131**	**2**	Very low exceedance rate, 2 of 131 samples exceed
13	02040301030010-01	HUC02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	TOTAL DISSOLVED SOLIDS (TDS)	SL	**250**	**2**	Very low exceedance rate, 2 of 250 samples exceed
8	02030105040010-01	HUC02030105040010	Raritan R SB(Pleasant Run-Three Bridges)	TOTAL SUSPENDED SOLIDS (TSS)	01397415	**17**	**2**	Borderline, possible turbidity/TSS issues in the SB Raritan. Need more data for confirmation. Exceed in 2013 associated with winter storm (1.1" precip) and 2010 (2.9" precip)
8	02030105040010-01	HUC02030105040010	Raritan R SB(Pleasant Run-Three Bridges)	TURBIDITY	01397415	**21**	**2**	Borderline, possible turbidity/TSS issues in the SB Raritan. Need more data for confirmation. Exceed in 2013 associated with winter storm (1.1" precip) and 2010 (2.9" precip)
8	02030105050090-01	HUC02030105050090	Rockaway Ck (below McCrea Mills)	TURBIDITY	01399570	**20**	**1**	Over the last 10 years, 19 of 20 samples meet criteria
9	02030105120160-01	HUC02030105120160	Raritan R Lwr(I-287 Piscatway-Millstone)	TURBIDITY	01403300	**156**	**6**	Exceedances occur during intense rain storms. Don't list yet but get more
9	02030105120130-01	HUC02030105120130	Green Brook (below Bound Brook)	TURBIDITY	01403900	**47**	**2**	Low exceedance rate, only 1 exceedance over last 5 yrs
9	02030105120160-01	HUC02030105120160	Raritan R Lwr (MileRun to I-287 Pisctwy)	TURBIDITY	01404170	**26**	**2**	Low exceedance rate, 24 of 26 samples meet over 10 yrs
9	02030105150010-01	HUC02030105150010	Weamaconk Creek	TURBIDITY	01405185	**29**	**2**	Low exceedance rate, 27 of 29 samples meet criteria over 10 yrs

Organization	Organization Type	Data Used for 2016 List?	If not, why not?	Waterbody Name	Monitoring Dates	Parameters
AmeriCorps NJ Watershed Ambassadors Program	Volunteer Monitoring Organization	Yes	n/a	Statewide	2010-2014	macroinvertebrates, Temperature
Brick Township Utilities Authority	Municipal Authority	Yes, except for Thallium data	Thallium data was invalid due to sampling, analysis and/or data entry errors	Metedeconk River Watershed	2010-2015	conventional chemical/physical, toxics, metals
Brick Township Utilities Authority	Municipal Authority	Yes	n/a	Metedeconk River Watershed	2010-2015	pathogens
Delaware River Basin Commission (DRBC)	Interstate Agency	Yes	n/a	Delaware River Main Stem and Tidal Tributaries	2010-2014	conventional chemical/physical, pathogens, toxics, metals
Friends of the Bonsai Preserve	Volunteer Monitoring Organization	Yes	n/a	Third River	2014	pathogens, conventional chemical/physical
Great Swamp Watershed Association	Volunteer Monitoring Organization	Yes	n/a	Loantaka Brook; Great Brook; GS Natl Wildlife Refuge Tributaries	2010	conventional chemical/physical
Monmouth County Health Department	County Government	Yes	n/a	Monmouth County Streams/Beaches in Atlantic Coast, Raritan, Lower Delaware and Northwest water regions	2010-2014	conventional chemical/physical, pathogens
Musconetcong Watershed Association	Volunteer Monitoring Organization	Yes	n/a	Upper Musconetcong River	2014	conventional chemical/physical
National Park Service	Federal Government	Yes	n/a	Passaic River Basin	2010-2013	conventional chemical/physical
New Jersey Harbor Dischargers Group	Municipal Authority	Yes	n/a	New York/New Jersey Harbor and Tidal Tributaries	2010-2014	pathogens, conventional chemical/physical
NJDEP Bureau of Freshwater and Biological Monitoring	State Government	Yes	n/a	Statewide	2010-2015	metals/conventional chemical/physical/pathogens

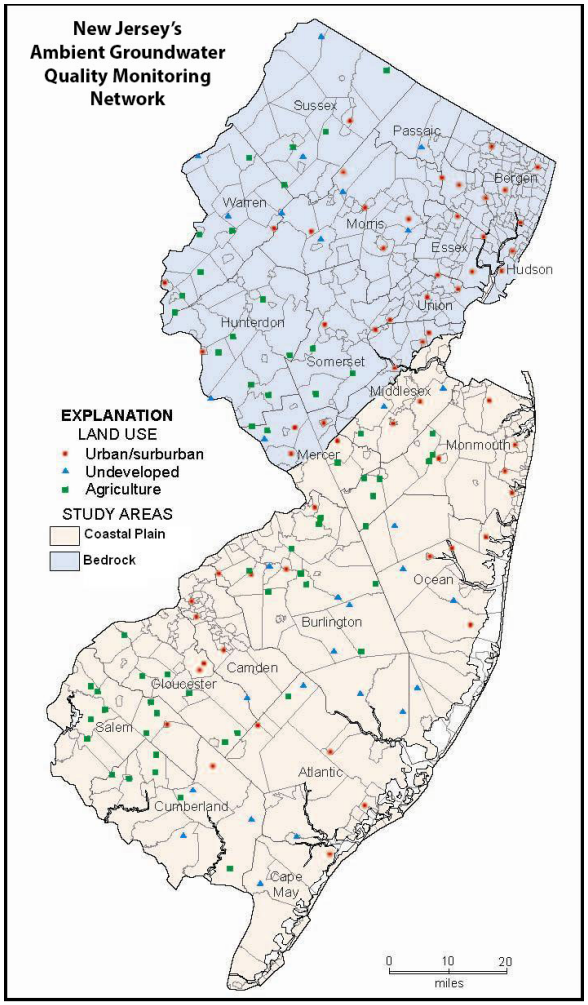
Organization	Organization Type	Data Used for 2016 List?	If not, why not?	Waterbody Name	Monitoring Dates	Parameters
NJDEP Bureau of Freshwater and Biological Monitoring	State Government	Yes	n/a	Statewide	2010-2015	diurnal DO, pH, and Temperature
NJDEP Bureau of Freshwater and Biological Monitoring	State Government	Yes	n/a	Statewide	2010-2015	macroinvertebrates
NJDEP Bureau of Freshwater and Biological Monitoring	State Government	Yes	n/a	Statewide	2010-2015	Fish
NJDEP Bureau of Marine Water Monitoring	State Government	Yes	n/a	NJ Ocean and Bay Bathing Beaches, Coastal Waters	2010-2015	pathogens
NJDEP Bureau of Marine Water Monitoring	State Government	Yes	n/a	Ocean Bathing Beaches	2010-2015	beach closing
NJDEP Bureau of Marine Water Monitoring	State Government	Yes	n/a	Coastal Waters	2010-2015	conventional chemical/physical
NJDEP Bureau of Marine Water Monitoring	State Government	Yes	n/a	Barnegat Bay/tributaries	2010-2015	diurnal DO and Temperature, Conventional chemical/physical
NJDEP Office of Science	State Government	Yes	n/a	Statewide	2010-2014	fish tissue
NJDEP Office of Science	State Government	Yes	n/a	Barnegat Bay/tributaries	2011-2014	conventional chemical/physical
NY/NJ Baykepper	Volunteer Monitoring Organization	Yes	n/a	South River, Matawan Creek	2014	pathogens
Pinelands Commission	Regional Agency	Yes	n/a	Pinelands Waters	2010	pH, Temperature, Specific Conductance
Rutgers Cooperative Extension Water Resource Program	Academic Organization	Yes	n/a	Musconetcong River	2010	phosphorus
Sparkill Creek Watershed Alliance	Volunteer Monitoring Organization	Yes	n/a	Third River	2014	pathogens, conventional chemical/physical
Stony Brook-Millstone Watershed Association	Volunteer Monitoring Organization	No	no approved QAPP for this data set	Stony Bk, Millstone R watershed: Duck Pond Run and Heathcote Brook	2010-2015	conventional chemical/physical, macroinvertebrates

Organization	Organization Type	Data Used for 2016 List?	If not, why not?	Waterbody Name	Monitoring Dates	Parameters
Raritan Headwaters Association	Volunteer Monitoring Organization	Yes	n/a	South Branch and North Branch Raritan and tributaries	2010-2015	macroinvertebrates
US Geological Survey (USGS)	federal government	Yes	n/a	Statewide	2010-2015	conventional chemical/physical, diurnal, toxics, metals

Appendix F: Ground Water Quality Monitoring Results

As a companion to its surface water monitoring program, New Jersey has developed and now maintains a cooperative ambient ground-water quality monitoring network with the United States Geological Survey (USGS), consisting of 150 wells screened at the water table. Thirty wells were sampled annually creating a five-year monitoring cycle. To date, two full sampling cycles have been completed (and will be referred to as sampling cycle 1 and sampling cycle 2 in this report). The third sampling cycle has been completed, and the samples have been partially analyzed and summarized. After performing a gap analysis of the network, in 2014 the network began the process of increasing the sampling frequency and moving from a 5-year monitoring cycle to a 3-year cycle. The primary goals of the ambient ground water quality monitoring network (AGWQMN) are to characterize shallow ground-water quality as a function of land use and to assess shallow ground-water quality trends.

Figure F1: Location and Land Uses Associated With Ambient Network Wells



The water table is the first and most significantly impacted part of the ground-water system. Network wells are screened or open just below the water table and therefore samples from them

are generally expected to represent relatively young ground water. This is the ground water that interacts with and impacts surface water quality. Wells sites were located using a stratified-random site selection process as outlined by Scott (1990). The final distribution of wells as a function of land use is 60 in agricultural areas, 60 in urban/suburban areas, and 30 in undeveloped land use areas (see Figure F1).

Land use designations were determined using 1986 and 1995 land use coverage's, 1995 aerial photographs and site visits. Well sites were selected using land use designations and estimations of ground-water flow directions based on the local geologic framework and site-specific topographic relationships. The 1986 and updated 1995 digital land use data categories were interpreted from 1986 and 1995 color infrared aerial photography. Parameters measured include conventional pollutants (pH, turbidity, temperature, DO), nutrients, metals, minerals, VOCs, radioactivity, and pesticides.

Geology:

The state of New Jersey can be separated in 4 geologically unique regions or Physiographic Provinces each with unique rock types, landforms and hydrogeological settings (see Figure 1). These geological variables affect natural ground water quality. From north to south the regions are:

1) The Valley and Ridge: mostly of a thick sequence of Paleozoic sedimentary rocks ranging in age from approximately 390 to 540 million years. Sedimentary rock types include dolomite, limestone, sandstone, shale (often metamorphosed to slate) and siltstone.

2) The New England Province (Highlands): ridges of more resistant Middle Proterozoic (~ 940 to 1600 Ma) metamorphosed igneous and sedimentary rocks. These rocks are in fault and unconformable contact with lenses and elongate belts of generally less resistant Paleozoic sedimentary rocks (like 1 above) comprise the valley floors.

3) The Piedmont: intersects and it mostly underlain by the Newark Basin, which is mainly comprised of lower Mesozoic aged (~230 to 190 Ma) red, gray and black (organic rich) shale and sandstone that are inter-layered with basic igneous intrusions.

4) The Coastal Plain (Southern New Jersey): a southeasterly dipping and thickening wedge of stratified unconsolidated sand, silt, clay and gravel sediments that vary in age from Cretaceous ~ 144-66 million years ago (Ma) to Tertiary (~ 1.6 Ma). Three glaciations have occurred within the last 2 million years. North of the maximum extent of the last glaciation (~ 20,000 years ago), the landscape is draped by unstratified and stratified unconsolidated glacial materials of various thicknesses.

The Valley and Ridge, Highlands, and Piedmont Physiographic Provinces for this report will be referred to as the bedrock provinces.

Ground Water Quality:

Ground water is mainly recharged by precipitation that percolates downward through the unsaturated zone into the zone of saturation. Ground-water quality is a reflection of: 1) the starting composition of precipitation; 2) the solubility and composition of the materials that the precipitation comes in contact with on the land surface, in the unsaturated zone and in the saturated zone; and 3) the duration of that contact. Natural geologic materials impart a geochemical character to the water contacting it that is unique to those materials. Anthropogenic contaminants or pollutants in the form of dissolved gases, chemical constituents and possibly colloids and other particles can impact ground-water quality.

Sources of ground-water pollution can be separated into two general types: 1) point source pollution and 2) nonpoint source pollution. Point sources of pollution can be traced back to a single identifiable source, such as a chemical spill, leaking underground storage tank or an infiltration lagoon. In the AGWQMN, efforts were made to select wells that are not impacted by pollutants from known point sources.

Nonpoint source pollution is from diffuse sources that do not have a single identifiable point of origin. This type of pollution can adversely affect the quality of water in the hydrologic cycle over large areas. For example, the release of emissions to the atmosphere from the burning of fossil fuels, such as sulfur that produces acid rain, can alter the quality of precipitation that can in turn have a regional impact on surface and ground water quality. In addition, once precipitation contacts the land surface it can be further altered by dissolving nonpoint source pollutants associated with agricultural and urban land use activities; thereby impacting water quality on a regional scale.

Data summaries of samples collected and analyzed from the 150 AGWQMN wells between 1999 and 2008 are presented and discussed below. Where available, data summaries from samples collected between 2009 and 2013 (sampling cycle 3) are also included. Samples from these wells were collected by the Department of Environmental Protection's (Department's) Bureau of Fresh Water and Biological Monitoring, New Jersey Geological and Water Survey (NJGWS) and USGS' New Jersey Water Science Center, and analyzed at the USGS National Water Quality Laboratories in Denver, Colorado. VOCs and pesticides were analyzed using USGS methods O-3127-94 (Rose and Schroeder, 1995) and O-4127-96 (Zaugg and others, 1995), respectively. Data for water years 1999 to 2013 are reported in their respective USGS Water Resources Data Reports for New Jersey (DeLuca and others, 2000 – 2009) and can be obtained through NJGWS.

AGWQMN wells in undeveloped areas yield ground water with a more natural quality than those in agricultural and urban areas and therefore provide a reference for water quality that is little affected by man's activities. Shallow ground-water chemistry in undeveloped areas in the Coastal Plain (southern New Jersey) is different from that in the northern portion of NJ that is underlain by bedrock (northern New Jersey). For example, the median pH and total dissolved concentration (TDS) is lower in the Coastal Plain than in the bedrock provinces (see Table 1). Minerals comprising the bedrock aquifers are generally more reactive than those in the Coastal Plain because they are more soluble. For example, many of the northern aquifers contain the soluble mineral calcite ($CaCO_3$) that imparts alkalinity to ground water upon dissolution. That reaction yields circum-neutral pH waters with Ca and bicarbonate as major ions. The quartz-rich less-reactive sands in the Coastal Plain are generally devoid of highly soluble minerals yielding little if any alkalinity and ground water is more dilute and acidic, similar to the rainwater that recharged it.

Because the natural shallow ground-water quality is clearly different in the Coastal Plain in southern New Jersey than in the bedrock Physiographic Provinces to the north, the data in this report are separated into Coastal Plain and bedrock.

Water Quality Parameters:

The water quality parameters or constituents such as temperature, dissolved oxygen, pH, and total dissolved solids (TDS) concentration values yield information about the general character of shallow ground water as a function of geology and land use (Table F1). Lower pH and TDS values in the Coastal Plain reflect the difference in geologic makeup. In addition, it is generally cooler in northern New Jersey, which is reflected in the cooler shallow ground-water temperatures relative to the Coastal Plain shallow ground-water temperature in the southern portion of the State. The lower dissolved oxygen concentration in urban areas in both the bedrock and Coastal Plain may result from the large percentage of heat absorbing impervious surface area and resulting in poorer exchange with atmospheric oxygen, and the higher surface temperature affects the density of air. A noticeable decrease in the median DO in the undeveloped land use monitoring wells in the Coastal Plain in sampling cycle 3 was observed. However, this decrease is not significant at the 95% confidence level when compared to the median DO concentrations in sampling cycle 1 and 2. Increased total dissolved solids concentrations in agricultural and urban areas are due to the road salt and agrochemical applications. Many wells in agricultural land use areas are also near roads and therefore their water quality can also be impacted by road salt.

Table F1: Ground-water Characteristics and Constituents

Characteristic or Constituent	Agricultural			Urban			Undeveloped		
	Min.	Med.	Max.	Min.	Med.	Max.	Min.	Med.	Max.
			Bedrock	**Cycle**	**One**				
Temp. °C	10.3	13.3	23	6.8	12.9	18.3	10	12	13.9
DO mg/L	0.2	4.3	11	0.2	2.9	6.9	0.6	4.2	6.7
pH	6.5	7.4	8.1	4.7	6.9	8.4	5.8	7	8.1
TDS mg/L	167	269	938	132	476	2200	22	119	387
			Bedrock	**Cycle**	**Two**				
Temp. °C	9.9	13	15.9	9.1	13.9	23.4	9.2	11.8	14.2
DO mg/L	0.2	3.6	10.7	0.0	2.9	6.7	0.9	6.0	8.0
pH	6.1	7.3	7.9	5.2	6.9	7.7	5.0	7.0	8.5
TDS mg/L	129	242	1270	149	480	3530	23	119	549
			Bedrock	**Cycle**	**Three**				
Temp. °C	11.3	13.2	18	9.9	13.7	29.9	9.5	11.0	14.0
DO mg/L	0.1	4.1	9.2	0.1	2.6	7.3	0.6	5.8	8.2
pH	6.0	7.4	8.0	5.1	7.0	12.3	5.5	6.5	8.4
TDS mg/L	74	250	770	126	593	2260	27	111	464
			Coastal	**Plain**	**Cycle**	**One**			
Temp. °C	12	15.5	22.5	13.8	17.5	29	12	14.5	18
DO mg/L	<0.3	5.4	10.5	<0.2	2.1	10.0	<0.2	4.6	9.3
pH	3.9	5.0	7.91	3.8	4.9	7.8	3.7	4.7	6.0
TDS mg/L	35	214	690	56	150	816	15	28	170

Characteristic or Constituent	Agricultural			Urban			Undeveloped		
	Min.	Med.	Max.	Min.	Med.	Max.	Min.	Med.	Max.
			Coastal	**Plain**	**Cycle**	**Two**			
Temp. °C	11.1	14.8	19.9	12.2	14.9	21.8	8.5	12.7	15.3
DO mg/L	0.2	3.5	11.2	0.1	3.1	9.6	0.2	5.1	9.1
pH	3.8	4.8	7.9	3.6	4.9	8.1	4.1	4.5	5.8
TDS mg/L	45	208	2040	40	221	2310	19	27	147
			Coastal	**Plain**	**Cycle**	**Three**			
Temp. °C	8.3	13.7	19.4	12.7	15.6	18.2	9	10.7	20.1
DO mg/L	0.2	5.0	12.6	0.3	2.7	8.6	0.3	2.4	9.6
pH	3.7	5.2	7.9	4.0	5.0	8.0	4.2	4.6	6.2
TDS mg/L	26	230	1860	40	237	1230	14	31	171

Trace elements

The trace elements (metals) shown consists of those that have at least one concentration that exceeded the New Jersey Ground Water Quality Standard. Arsenic detection and concentrations in the bedrock regions are natural in origin with the number of detections that exceed the NJ Ground Water Quality Standard dropping between sampling cycles, except for aluminum. The one well that exceed the arsenic standard in undeveloped land use during the second sampling cycle had a concentration of 3.4 µg/L, which is just above the NJ Ground Water Quality Standard of 3 µg/L. Iron and manganese detections and concentrations have a strong urban association and possibly a weak agricultural association. The reducing conditions found in the agricultural and urban land use areas, indicated by the lower dissolved oxygen concentrations found in these land use areas, are conducive to iron and manganese mobility. The decrease in the frequency of detection of manganese exceeding the ground-water standard in the undeveloped land use in the bedrock provinces can be attributed to the increase in dissolved oxygen concentrations observed in the undeveloped land use areas. In urban and agricultural land use the pH levels remained fairly consistent between sampling cycles, and cannot be used to explain the decrease in manganese concentrations. A decrease in the use of agrochemicals and/or lawn fertilizers could possibly explain the decrease in manganese concentrations that exceed the ground-water standard. Iron concentrations remained fairly consistent between the sampling cycles but are indicating a decreasing trend.

In the Coastal Plain of New Jersey (southern NJ), iron and aluminum are most likely natural in origin. As observed in the bedrock provinces monitoring wells manganese has an urban and agricultural land use association. Acidic and reducing ground-water conditions will mobilize the iron, aluminum, and manganese. In undeveloped land use, the fluctuations of the median concentrations for these compounds cannot be attributed to a change in pH values which have remained consistent. They could be attributed to the natural fluctuation of concentrations. The increase in aluminum detections above the standard in agricultural land use in the second sampling cycle could be attributed to a drop in dissolved oxygen concentrations observed in these areas. The increase of manganese detections in urban land use in sampling cycle 2 could possibly be explained by an increase in lawn chemicals that could mobilize the manganese. However, the frequency above the standards decreased in sampling cycle 3. One undeveloped well had an arsenic concentration that exceeded the Ground Water Quality Standard of 3µg/L in sampling cycle 1 and 2. Its concentration was 3.3 µg/L during both sampling events, which is just above the standard,

and may be attributed to a high degree of iron-oxide dissolution. During all sampling cycles, the same two urban wells were observed to have arsenic concentrations that exceeded the ground water standard. In the one monitoring well the arsenic concentration is decreasing from sampling cycle 1 to sampling cycle 3, 112µg/L, 108 µg/L and 63 µg/L respectively. Arsenic concentrations in the second monitoring well are fluctuation. The ultimate source of this arsenic is unknown. Mercury is detected at low levels, generally less than 1 µg/L. Fertilizers, agrochemicals, and lawn care products could be the source or mobilization agent for the beryllium, cadmium, lead, and nickel observed in the Coastal Plain.

Nutrients

Nutrient concentrations are dominated by nitrate and the frequency and concentration by land use in both the bedrock provinces (northern NJ) and the Coastal Plain (southern NJ) are agricultural > urban > undeveloped (Figure F2) in all three sampling cycles. The use of nitrogen-based fertilizers in agricultural and urban areas and possibly septic system and sewer system leakage in urban areas are considered the major sources. In the Coastal Plain, agricultural land use median concentration remained consistent, while in the bedrock provinces a decrease was observed in the median concentration between sampling cycles 1 and 2 only to increase again in sampling cycle 3. The number of wells that exceed the NJ Ground Water Quality Standard for nitrite plus nitrate has a decreasing trend in the Coastal Plain, whereas in the bedrock provinces it is fluctuating. In all sampling cycles, orthophosphate concentrations were all less than 1.0 mg/L.

VOCs (35 compounds analyzed)

The data collected and analyzed for in sampling cycles 2 and 3 confirms the observations from sampling cycle 1, that the frequency of VOC detection is a function of land use (Figure F3.). The number of individual volatile compounds, or variety of compounds, detected has decreased state-wide. It should be noted that 11 out 19 undeveloped wells in the Coastal Plain had detections for one compound, chloroform (trichloromethane). If you remove the chloroform data, the frequency of detection in undeveloped land use areas drops dramatically. The presence of chloroform in these undeveloped wells can be attributed to atmospheric deposition, septic systems, leaking sewers and chlorinated drinking water being used to water lawns, gardens and to fill up swimming pools. The summed total VOC concentrations between sampling cycle 1 and sampling 3 has decreased in both the Coastal Plain and bedrock provinces.

Methyl tertiary-butyl ether (MTBE), an additive in gasoline, showed a steep decline in the frequency of detection, especially in the bedrock provinces between sampling cycles 1 and 2. The frequency of detection remained steady between sampling cycle 2 and 3. During the first round of sampling 50% of the urban wells, 14% of agricultural wells, and 9% of the wells in undeveloped land use had detections for MTBE. In sampling cycle 2 and 3 there were no detections for MTBE in urban and undeveloped land use. While in agricultural land use the frequency of detection dropped from 3 wells to 1 well. In the Coastal Plain, the frequency of MTBE detection decreased consistently between sampling cycles. The decrease in detections of MTBE can be attributed to a ban on using MTBE in the State of New Jersey. The Coastal Plain has more detections of MTBE than the bedrock provinces and is most likely due to atmospheric deposition. The predominant wind patterns are from the north-west, and the heavily urbanized areas of New Jersey's bordering States to the west could be one reason for the observed higher detections of MTBE in the Coastal Plain than in the bedrock provinces.

Pesticides

The frequency and summed pesticide concentration of pesticides Statewide is land use driven with agricultural land use the primary source (see Figure F4). In the Coastal Plain, an initial decrease in the number of compounds detected was observed in sampling cycle 2. However, during sampling the bedrock provinces monitoring wells in cycle 2 there was a change in the pesticide parameter list. The new parameter list contains more metabolite compounds that were not previously analyzed for. This switch is why there is an observed increase in the type of pesticides detected between sampling cycles in the bedrock provinces and an increase between sampling cycle 2 and 3 in the Coastal Plain. The summed concentration of pesticides has decreased from sampling cycle 1 to sampling cycle 3 in both the Coastal Plain and bedrock provinces. However, the summed concentration in sampling cycle 2 in the Coastal Plain was greater than sampling cycle 1. Atrazine, Deethylatrazine, Metolachlor, Prometon, and Simazine were the most frequently detected compounds in both sampling cycles. They are all herbicides used to control grasses and broadleaf plants, except for Deethylatrazine which is the major metabolite of Atrazine.

Radionuclides

Gross alpha particle activity was analyzed within 48 hours after sample collection. This ensures that the radioactive decay of short-lived radium-224 (half-life of 3.64 days) is measured along with the other alpha emitters. The Federal and New Jersey drinking water standard of 15 pCi/L gross alpha particle activity still applies even though the shorter holding time results in increased activity if significant radium-224 is present. Generally, higher radium activity is found in the Coastal Plain Physiographic Province versus the bedrock provinces in all land use. This is most likely due to the greater abundance of radium-224 and the low pH of the ground water in the Coastal Plain. The low pH can increase radium's mobility. In both the combined bedrock and Coastal Plain provinces, and in both sampling cycles, the highest activity is associated with agricultural and urban land use areas. The application of agricultural and lawn chemical products can compete with naturally occurring radium for adsorption sites thereby mobilizing more into the ground-water system. In the Coastal Plain there was an increase in the frequency of gross alpha concentrations being above the standard, from 14% to 17%. In the bedrock provinces, only 1 monitoring well exceed the standard, and that was in sampling cycle 2.

Conclusion

In agricultural and urban land uses, total dissolved solids concentrations, as well as the concentration, frequency, and variety of major ions, trace elements, nutrients, volatile organic compounds, and pesticides, are found at higher levels than in wells located in undeveloped areas. While nitrite plus nitrate median concentrations fluctuated slightly in urban and agricultural land uses, the concentrations were still higher than those in undeveloped land use with the highest concentration and frequency of detection being in agricultural land use, and the frequency of wells that exceed the nitrite plus nitrate NJ Ground Water Quality Standard decreased statewide during this same time frame. A decrease in the variety and frequency of pesticides was detected in the Coastal Plain, only to increase in sampling cycle 3 with the addition of the metabolites. Pesticide metabolites are detected in the shallow groundwater of the bedrock provinces as well. Summed pesticide concentrations decreased between sampling cycles. Atrazine, deethylatrazine, metolachlor, prometon, and simazine were the most frequently detected pesticides in both the

bedrock provinces and the Coastal Plain and in all sampling cycles. The variety of VOCs detected, and the summed concentrations decreased between sampling cycles statewide. MTBE (methyl tertiary-butyl ether) showed the steepest decline in the frequency of detection. Agrochemicals and lawn care products could be promoting the mobilization of radium in both the Coastal Plain and bedrock provinces, along with the reducing conditions found in the Coastal Plain

Figure F2. Nitrite plus Nitrate Concentrations

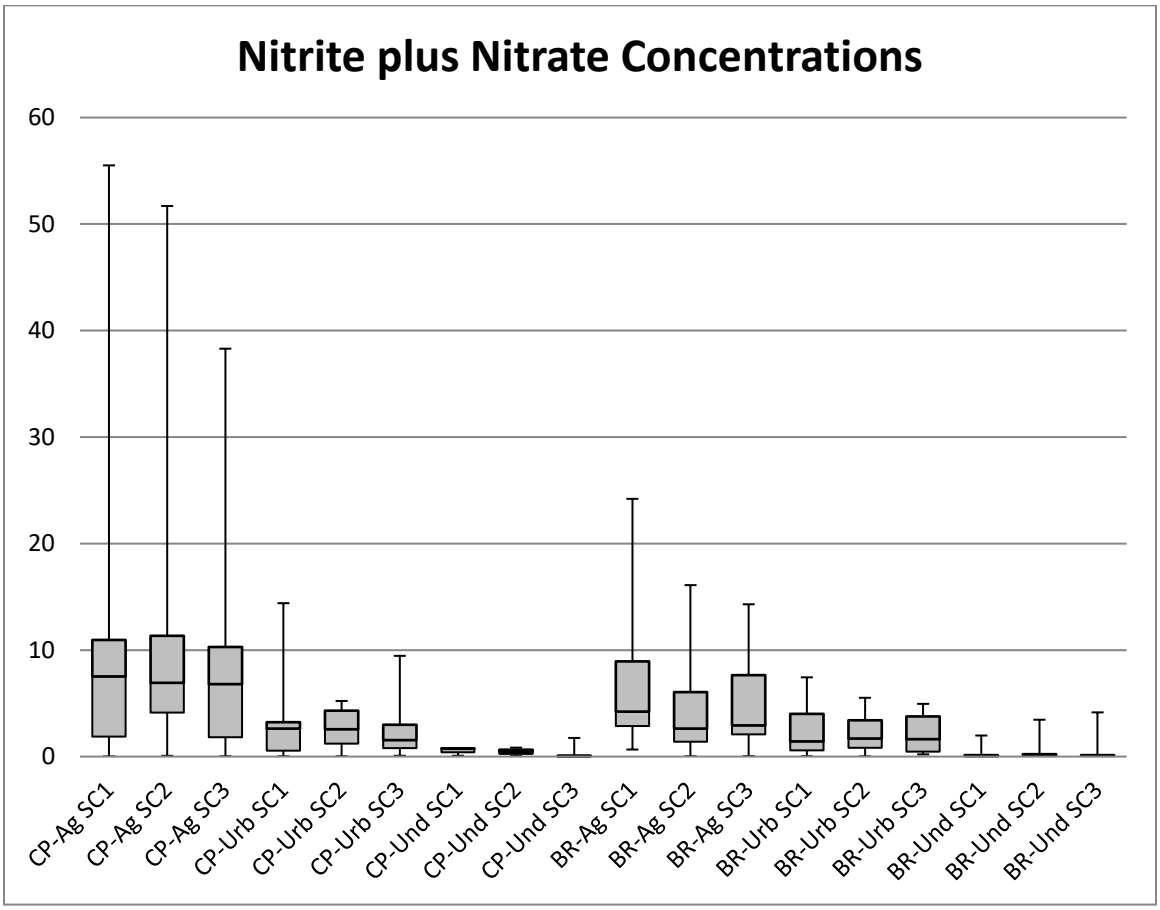


Figure F3. Number of Wells with a VOC Detection by Land Use and Sampling Cycle

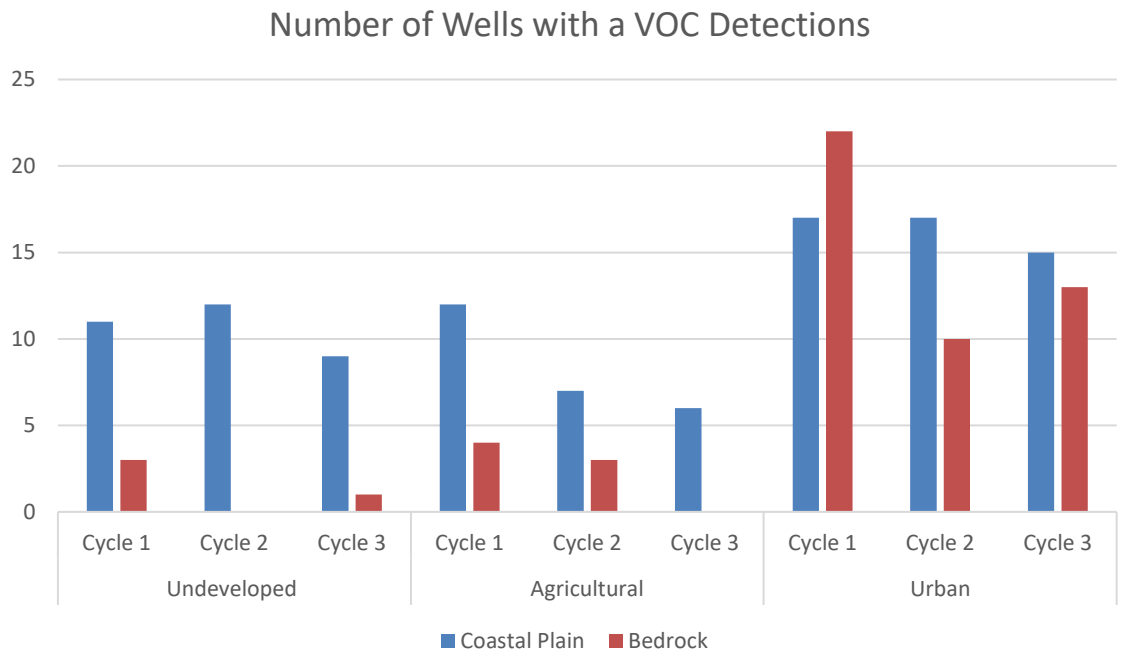
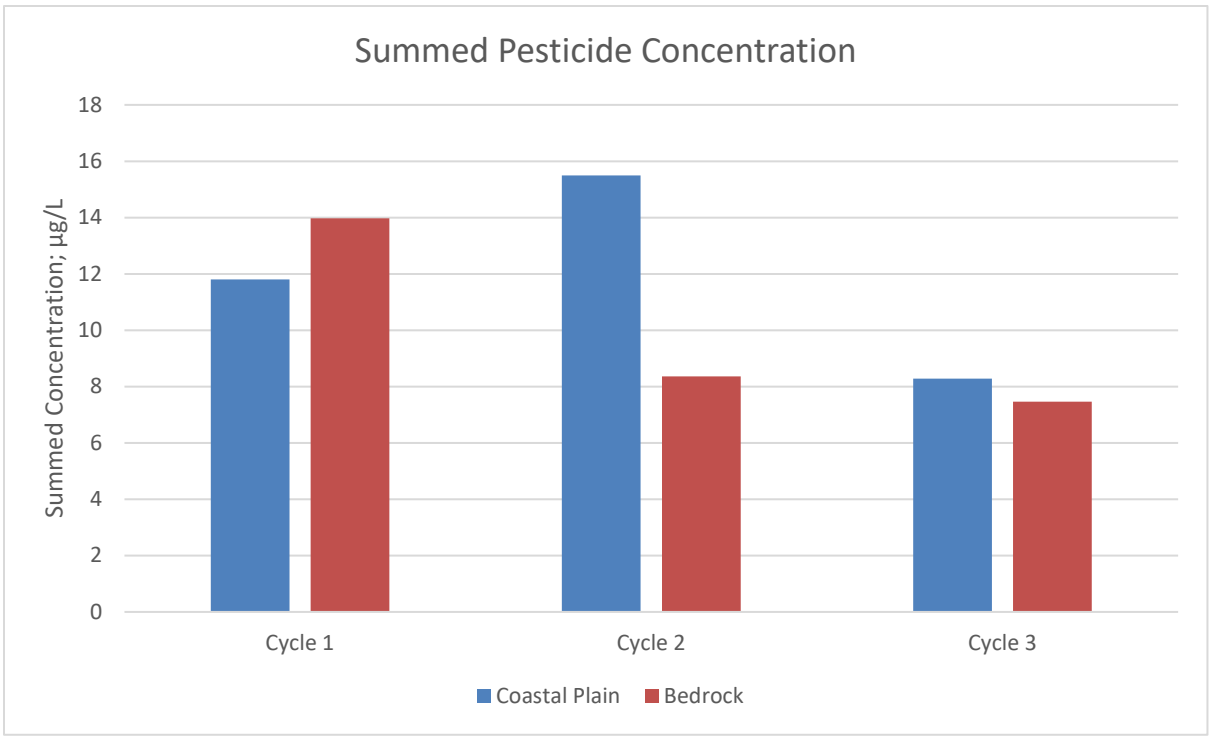


Figure F4. Summed pesticide concentration by sampling cycle.



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New Jersey Department of Environmental Protection

New Jersey's Vision Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act Section 303(d) Program

September 2019

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Table of Contents

New Jersey's Vision Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act Section 303(d) Program

Purpose

This document explains New Jersey's "vision approach" or strategy for managing the Clean Water Act (CWA) Section 303(d) Program in accordance with guidance issued by the U.S. Environmental Protection Agency (USEPA) in December 2013 entitled: "A Long-term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program" (Vision Document).[1] This is a "living document" that initially focuses on the engagement and prioritization goals articulated in the USEPA Vision Document that must be completed prior to the 2016 Integrated Reporting Cycle but will be expanded and refined through an iterative process as part of the biennial integrated water quality assessment and prioritization, to include new and updated information, public engagement, priorities, strategies and measures necessary to address subsequent USEPA program goals.

Introduction

The New Jersey Department of Environmental Protection (Department) is charged with formulating comprehensive policies for the conservation of the natural resources of the State, the promotion of environmental protection and the prevention of pollution of the environment. Water quality standards, monitoring, and assessment provide the scientific foundation for the protection of New Jersey's water resources and are implemented through the federal Clean Water Act (CWA), the New Jersey Water Quality Planning Act (WQPA) and the New Jersey Water Pollution Control Act (WPCA) through New Jersey's Continuing Planning Process for water quality management planning and implementation. The goal of this regulatory framework is to protect, restore and maintain the chemical, physical and biological integrity of New Jersey's waters.

Water quality standards, monitoring, and assessment programs provide the scientific foundation for restoration and protection of New Jersey's water resources and serve to direct and support the Department's water quality programs and activities designed to protect, maintain and enhance water quality for all waters of the State in accordance with federal and state statutes and regulations. These efforts include regulatory (e.g., permits), non-regulatory (e.g., environmental education, local stewardship), and funding activities. The Department has integrated these programs into a comprehensive monitoring, assessment, and restoration program implemented on through a rotating basin approach that will produce a comprehensive assessment of the entire State every ten years. This approach will support public engagement and prioritization of waters for the development of measures to restore, maintain, and enhance water quality and maximize effectiveness and efficiency in achieving positive environmental outcomes that are tailored to the needs of each water region. Communication and partnership with the public in all facets of these programs is critical to ensuring

[1] USEPA. *A Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program.* December 2013. https://www.epa.gov/sites/production/files/2015-07/documents/vision_303d_program_dec_2013.pdf.

that New Jersey's waters are safe for swimming and recreation, fish and shellfish harvested from our waters are safe for eating, water supply sources are safe for drinking, and aquatic life is healthy and sustainable.

Section 303(d) of the federal Clean Water Act or "CWA" (33 USC § 1251 et seq.) requires each state to identify those waters for which effluent limitations are not stringent enough to attain applicable water quality standards; establish a priority ranking for such waters based on extent of water quality impairment and designated use non-support; establish a total maximum daily load (TMDL) for each pollutant causing water quality impairment, based on their priority ranking, at a level necessary to attain applicable water quality standards; and submit a list to USEPA of all impaired waters and their pollutant causes (i.e., the 303(d) List), along with a schedule of TMDLs to be established within the next two years. USEPA allows states to combine their 303(d) List with the biennial water quality assessment reports submitted under CWA Section 305(b) and submit one "integrated" report that assesses water quality and designated uses support for all waters of the State along with the 303(d) List and Two-Year TMDL Schedule that is submitted to USEPA by April 1st of every even-numbered year. Thus, USEPA combined the functions of water quality assessment, 303(d) List development, and TMDL development under one national "303(d) Program".

USEPA's Vision Document establishes a new vision and national goals for administering the 303(d) Program. The Vision Document was prepared to provide relief to states struggling to restore impaired waters under USEPA's emphasis on TMDLs as the sole means to attain designated uses and water quality standards. The Vision Document provides additional flexibility under the 303(d) Program for states to identify and prioritize waterbodies for restoration and protection through whatever means are appropriate under existing programs regulatory frameworks, and achieve water quality objectives in accordance with the state's priorities, so long as national water quality goals are also met. USEPA's new approach is intended to improve collaboration between USEPA and states, efficiency in administering the 303(d) Program, and success in achieving water quality protection and restoration.

The USEPA Vision Document articulates a set of six goals, re-arranged below to reflect the sequential deadlines set by USEPA, to be implemented in collaboration with state CWA Section 303(d) Program managers and the public and evaluated in 2022:

1. "Engagement" By 2014, USEPA and the states should actively engage the public and other stakeholders to improve and protect water quality, as demonstrated by documented, inclusive, transparent, and consistent communication; requesting and sharing feedback on proposed approaches; and enhanced understanding of program objectives.

2. "Prioritization": For the 2016 Integrated Reporting Cycle and beyond, states should review, systematically prioritize, and report priority watersheds or waters for restoration and protection in their biennial Integrated Reports to facilitate state strategic planning for achieving water quality goals.

3. "Protection": For the 2016 Integrated Reporting Cycle and beyond, in addition to the traditional TMDL development priorities and schedules for waters in need of restoration, states should identify protection planning priorities and approaches along with schedules to help prevent impairments in healthy waters, in a manner consistent with each state's systematic prioritization.

4. "Integration": By 2016, USEPA and states should identify and coordinate implementation of key point source and nonpoint source control actions that foster effective integration across CWA programs, other statutory programs (e.g., CERCLA, RCRA, SDWA, CAA), and the water quality efforts of other federal departments and agencies (e.g., Agriculture, Interior, Commerce) to achieve the water quality goals of each state.

5. "Alternatives": By 2018, states should use alternative approaches, in addition to TMDLs, that incorporate adaptive management and are tailored to specific circumstances where such approaches are better suited to implement priority watershed or water actions that achieve the water quality goals of each state, including identifying and reducing nonpoint sources of pollution.

6. "Assessment": By 2020, States should identify the extent of healthy and impaired waters in each state's priority watersheds or waters through site-specific assessments.

Under this approach, USEPA has directed states to expand their statutory responsibilities, as established under CWA Section 303(d) to also include the following:

- Prioritize waters or watersheds for restoration and protection;
- Assess the quality of all priority waters or watersheds;
- Identify protection planning priorities and approaches;
- Use alternative approaches, in addition to TMDLs, to achieve water quality;
- Engage stakeholders and the public in water quality protection and restoration efforts;
- Foster integration across CWA programs, other programs, and other agencies; and
- Identify the TMDLs and alternative approaches, such as watershed based plans for water quality restoration (WBPs), that will be targeted for completion by 2022 and track progress under new USEPA water quality measure WQ-27 (see https://www.epa.gov/sites/production/files/2015-10/documents/fy_2016_nwpg_measure_definitions_water_quality_-_copy.pdf).

USEPA encouraged states to adopt the CWA 303(d) Program Vision and implement it at two levels: 1) working directly with USEPA to measure collective progress in achieving the overall vision and goals articulated in the Vision Document; and 2) identifying and employing strategies to achieve the overall program vision through state-specific goals that are defined in collaboration with the public. USEPA allows states to develop their own vision strategy that "outlines a comprehensive, integrated, and iterative approach to achieving and communicating water quality improvements" by developing state-specific strategies to achieve the national vision and goals and ultimately attain state water quality standards.

The New Jersey Department of Environmental Protection (Department) has a long history of coordinating and integrating its numerous water resource management programs through a strategic planning and results-oriented approach to comprehensive water resources management that engages stakeholders in the development, prioritization and implementation of strategies to protect, restore and maintain New Jersey's water resources on a local, regional and statewide basis. The Department's current approach mirrors USEPA's Vision for meeting national water quality goals and state water quality standards under CWA Section 303(d); however, New Jersey's "Vision Approach" also integrates programs implemented to satisfy other statutory mandates and regulatory requirements, including CWA Sections 104(a), 106(d), 201, 208, 303(d), 303(e), 305(b), 319(h) and 402(p); New Jersey Water Pollution Control Act (WPCA), N.J.S.A. 58:10A-1et seq.; New Jersey Water Quality Planning

Act (WQPA), N.J.S.A. 58:11A-1 et seq.; federal Water Quality Planning And Management regulations, 40 CFR 130; federal Water Quality Standards regulations, 40 CFR Part 131; New Jersey Surface Water Quality Standards rules, N.J.A.C. 7:9B; New Jersey Ground Water Quality Standards rules, N.J.A.C. 7:9C; New Jersey Water Quality Management Planning rules, N.J.A.C. 7:15; and New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A, among others.

New Jersey's Vision Approach is designed to accomplish both federal and State water quality goals through statewide ambient water quality monitoring (biological and chemical) of fresh and marine waters, developing water quality standards that protect and support designated uses of New Jersey's waters; assessment of water quality to determine support of designated uses and attainment of water quality standards; and development, implementation and funding of strategies to protect and restore water resources. This approach is consistent with USEPA's Vision Document and will continue to be refined and enhanced in subsequent assessment cycles to address federal, state and local water quality concerns and goals.

New Jersey's Vision Approach for Assessment, Restoration and Protection of Water Resources – Prioritization and Engagement

The first deadlines established under the USEPA Vision Document are for implementation of the Engagement and Prioritization Goals:

> *By 2014, USEPA and the states will actively engage the public and other stakeholders to improve and protect water quality, as demonstrated by documented, inclusive, transparent, and consistent communication; requesting and sharing feedback on proposed approaches; and enhanced understanding of program objectives*
>
> *By 2016, states will review, systematically prioritize, and report priority watersheds of water for restoration and protection in their biennial integrated report to facilitate state strategic planning for achieving water quality goals.*

New Jersey has a long history of public and stakeholder engagement in developing and implementing its water quality protection and water resource management programs, and in prioritizing such efforts to meet federal and state water quality goals. Since its creation in 1970, the Department has engaged stakeholders and the general public in the identification and prioritization of watersheds and waterbodies for restoration or other management actions in response to various concerns that ranged from local public health (e.g., potential release or resuspension of toxic pollutants from breached dams) to regional and statewide legislative initiatives (e.g., water quality restoration and flood control for the Passaic River Basin, statewide fertilizer law) to inter- and intra- state efforts directed by federal agencies (proposed dredging in the Delaware River, New York/New Jersey Harbor Estuary TMDL).

As these examples indicate, public engagement in water quality improvement and protection efforts occurs on statewide, regional and local watershed levels. Public input on statewide water quality issues is sought through the public comment period provided for the draft Integrated Water Quality Monitoring and Assessment Methods Document (Methods Document) as well as the draft Integrated List of Waters (Integrated List) and the draft 303(d) List of Impaired Waters (303(d) List) published as components of the draft Integrated Water Quality Assessment Report (Integrated Report) every

two years in accordance with CWA Sections 303(d) and 305(b) as well as N.J.A.C. 7:15. Additional input is sought from the New Jersey Water Monitoring Council[2] which serves as a statewide body to promote and facilitate the coordination, collaboration and communication of scientifically sound, ambient water quality and quantity data to support effective environmental management. The Council is well represented by the diverse water quality interests across New Jersey from government to academic, to nonprofit to municipal utilities authority.

Statewide Water Quality Management Program Plan 1985-2015

New Jersey first articulated a vision of a "comprehensive, integrated, and iterative approach to water quality protection" in the Statewide Water Quality Management Program Plan (December 1985)[3], which was designed to serve as the "foundation for unifying" programs implemented under CWA Sections 201, 208, and 303(e) and to satisfy State requirements for water quality planning and the continuing planning process pursuant to the New Jersey Water Quality Planning Act (WQPA), N.J.S.A. 58:11A-1 et seq. This vision was subsequently refined and enhanced "to respond to the changing issues, needs and priorities of the State" by 1987 Continuing Planning Process (CPP).[4, 5]

In accordance with CWA Section 303(e), states are required to have a continuing planning process (CPP) for water quality planning, management, and implementation that serves to maintain, improve, and protect water quality. Under federal regulations at 40 CFR 130, states are required to not only establish and maintain a CPP but also implement the programs and processes required under the CWA as part of the CPP. The CPP is intended to ensure the necessary programmatic infrastructure is in place at the state level to identify critical water bodies where water quality is impaired or threatened, develop and implement plans and actions to restore and maintain water quality, and identify and specify additional data collection, planning or control measures.

New Jersey Continuing Planning Process 1987-present

New Jersey's CPP is intended to "integrate and unify water quality management planning processes, assess water quality, establish water quality goals and standards, and develop a statewide implementation strategy to achieve the water quality standards and maintain, improve, and protect water quality throughout the State"[6] and to satisfy the requirements of both federal and state statutes, including assessing water quality and identifying priority water quality problems. The 1985 Statewide Plan, as amended by the 1987 CPP, articulated the Department's overall water quality strategy, objectives, priorities, policies and procedures[7]. The water quality priorities articulated in these

[2] See http://www.nj.gov/dep/wms/wmcchome.html.
[3] NJEP. New Jersey Statewide Water Quality Management Program Plan. December 2015.
[4] NJDEP. *The New Jersey Continuing Planning Process for Water Quality Management-Descriptions of Selected Management Processes.* March 1987.
[5] New Jersey's first CPP, submitted to USEPA on April 23, 1976, articulated the Department's strategy for preventing and controlling water pollution through implementation of the various programs subsequently integrated under the 1985 Statewide WQM Program Plan and the 1987 CPP.
[6] NJDEP. *New Jersey's Continuing Planning Process.* December 18, 2015. Executive Summary. http://www.nj.gov/dep/wrm/docs/cpp.pdf.
[7] The Statewide Plan and NJCPP were subsequently revised via amendments to the New Jersey Water Quality Management Planning (WQMP) rules, N.J.A.C. 7:15, which incorporated the Statewide Plan, the CPP and the WQMP rules by reference.[7]

documents focused on implementation of wastewater management planning, effluent limitations, and point source permitting. Specifically, the Statewide Plan states: "The main emphasis of the Plan is on water quality, and wastewater treatment and conveyance facilities."

Whippany River Watershed Project 1993-2004

In response to USEPA's "Watershed Approach" (1991)[8] and the Department's desire to reform the WQMP program to a more comprehensive and effective water resources management program, the Department initiated the Whippany River Watershed Project in 1993 as a pilot project for developing a comprehensive watershed management process that could be replicated throughout the State. The 70-square mile Whippany River Watershed[9] served as the focal point for stakeholders with varied interests and backgrounds who came together to develop a plan that would address the water resource issues and concerns of their watershed. Stakeholders included local and county government, watershed organizations, academics, business, industry, consultants, purveyors, dischargers, and interested citizens. By 1999, this watershed management pilot project succeeded in producing New Jersey's first stakeholder-engaged, watershed-based TMDL[10] (TMDLs adopted prior to 1999 were prepared by USEPA or consisted only of wasteload allocations), followed by a short-term implementation strategy[11], a nonpoint source pollution control guidance manual[12], and a comprehensive Watershed Management Plan for the Whippany River Watershed. The Watershed Management Plan continues to be implemented by the stakeholder-led Whippany River Watershed *Action* Committee[13] with a focused effort on stormwater management.

Whippany River Watershed TMDL Established 1999

Statewide Watershed Management Initiated 1997

The success of this pilot project allowed the Department to expand its watershed management approach throughout the State, including a collaborative process for identifying priority waters and priority projects on both a statewide and regional basis. Under this statewide framework[14], New Jersey partnered with USEPA and others in the private and public sectors to promote a watershed management approach as a means to restore and maintain the physical, chemical and biological integrity of our waters. Using sustainable management principles, the Department moved towards a more holistic, rather than site-specific approach to effectively manage and protect water resources. New Jersey's watershed management approach was based on three key components: 1) a geographic focus; 2) continuous improvement based on sound

[8] USEPA. *The Watershed Protection Approach – An Overview*. 1991. EPA 503/9-92-001. Office of Water. See also *Watershed Protection: A Statewide Approach*. August 1995. EPA 841-R-95-004/Office of Water (4503F) and *The Watershed Approach Framework*. June 1996. EPA 840-S-96-001/Office of Water (4501F). https://www.epa.gov/sites/production/files/2015-06/documents/watershed-approach-framework.pdf.

[9] Whippany River Watershed Action Committee website. http://www.wrwac.org/About-Us.html

[10] NJDEP. Report on the Establishment of a Total Maximum Daily Load for Fecal Coliform and an Interim Total Phosphorus Reduction Plan for the Whippany River Watershed. December 1999. http://www.nj.gov/dep/wms/bears/docs/whippany_tmdl.pdf.

[11] NJDEP. *Whippany River Watershed Action Now Strategy*. January 2000.

[12] NJDEP. *A Cleaner Whippany River Watershed – Nonpoint Source Pollution Control Guidance Manual for Municipal Officials, Engineers, and Departments of Public Works*. May 2000.

[13] http://www.wrwac.org/

[14] NJDEP. *Draft Statewide Watershed Management Framework Document for the State of New Jersey*. January 1997.

science; and 3) partnerships and stakeholder involvement. Under this approach, water resources management was conducted on a watershed basis by dividing New Jersey into a set of nested, hydrologically connected units that resulted in 20 watershed management areas within five water regions for the implementation of watershed management activities on a targeted, cyclical basis, including water quality and watershed management planning, water quality monitoring and assessment, TMDL development, water quality restoration, and watershed-based permitting. This approach allowed the Department to prioritize waters for restoration and protection on the appropriate scale necessary to address the causes and sources or impairment, from statewide stormwater management minimum requirements to basin-wide TMDL development to localized nonpoint source pollution control projects.

Statewide Nonpoint Source Management and 319(h) Grant Program
1997 - present

Around the same time as New Jersey's statewide watershed management program was emerging, USEPA was expanding its pollution control programs to include CWA Section 402(p) stormwater permitting requirements and CWA Section 319(h) nonpoint source (NPS) pollution assessment and management plan requirements and the establishment of a NPS pollution control grant program. The Department first received CWA Section 319(h) NPS grant funds in the mid-1990s to address localized NPS pollution problems and to initiate local education and outreach initiatives. The Department initially convened a stakeholder group to identify grant fund priorities and to vet and rank grant applications. Once the statewide watershed management program was underway, funding priorities were identified in consultation with public advisory committees and technical advisory committees formed in each of New Jersey's 20 watershed management areas based on local, regional and state water quality issues. Priorities at that time included implementing NPS best management practices (BMPs) and other strategies identified in stormwater management plans or watershed management plans, implementing load allocations or NPS strategies identified in established TMDLs, and implementing agricultural best management practices throughout the State.

USEPA requires states to have an updated NPS Pollution Management Program[15] in place to qualify for CWA Section 319(h) grant funds. New Jersey's NPS Program Plan is designed to satisfy these federal requirements and serves as a key component of New Jersey's CPP. Beginning in State Fiscal Year (SFY) 2006, the Department prioritized 319(h) grant funds for development of Watershed Restoration and Protection Plans, also referred to as Watershed Based Plans (WBPs), that focused on reducing NPS pollution. These grants were issued to fund planning and implementation of projects that would address water quality impairment through implementation of NPS pollution controls, including those specifically identified in approved total maximum daily load (TMDL) implementation plans, or necessary to address pollutants identified on an adopted 303(d) List of Water Quality Limited Waters. WBPs initiated after June 30, 2007 were required to include the nine minimum components of a watershed based plan set forth in the USEPA's *Handbook for Developing Watershed Plans to Restore and Protect Our Waters*[16] to be eligible for Section 319(h) grant funds. In 2013, USEPA issued updated guidelines describing key components to be included in an effective state NPS management program

[15] http://www.state.nj.us/dep/wms/bears/nps.htm.
[16] USEPA. *Handbook for Developing Watershed Plans to Restore and Protect Our Waters*. EPA 841-B-08-0022005. 2005, updated March 2008. https://www.epa.gov/nps/handbook-developing-watershed-plans-restore-and-protect-our-waters.

(see http://water.epa.gov/polwaste/nps/cwact.cfm). *New Jersey's NPS Program Plan*[17] was updated in 2015 to comply with the new USEPA guidance.

In 2017, the Department expanded the 319(h) Nonpoint Source Grant Program to make additional funds available through its annual Request for Proposals (see https://www.state.nj.us/dep/wms/bears/2017grants.htm) for prioritized watershed restoration activities that address nonpoint source pollution. Renamed *Water Quality Restoration Grants for Nonpoint Source Pollution* the RfP identified up to 10.4M dollars comprised of section 319(h) Clean Water Act pass through funds as well as Natural Resource Damages (NRD) recoveries and Corporate Business Tax (CBT) funding available to award grants to eligible recipients to carry out targeted water quality restoration initiatives including environmental education throughout the state. The RfP identified statewide priorities such as implementing green infrastructure in urban areas and implementation of WBPs in the Raritan and Lower Delaware Water Regions to support the rotating basin approach (as described on Page 10).

In the 2018 RfP (see https://www.state.nj.us/dep/wms/bears/2018grants.htm) the Department made approximately $10M in grants available for watershed restoration, enhancement, and protection strategies that address NPS pollution from both point source and nonpoint source discharges within the Barnegat Bay watershed. The funded projects are intended to implement the *Barnegat Bay Restoration, Protection, and Enhancement Strategy*[18].

TMDL MOA 1998-2008

National and state water quality priorities shifted back to point source controls in the late 1990's in response to lawsuits filed against USEPA and the failure of some states to establish TMDLs for impaired waters as required under CWA Section 303(d). While the Department was not a party to such litigation, USEPA Region 2 was and, in compliance with Region 2's Consent Order under the Widener Lawsuit, the Department executed a memorandum of agreement (MOA) with USEPA creating a nine-year schedule to establish TMDLs for all water quality-limited segments identified on New Jersey's 1998 303(d) List. This MOA and subsequent modifications established the TMDL priorities for New Jersey. The first TMDLs required to be completed, and thus afforded the highest priority, including metals in the New York/New Jersey Harbor Estuary, volatile organics in the Delaware Estuary, and the Whippany River Watershed TMDL, all of which were to be completed by December 1999.

The MOA was subsequently amended to give higher priority to TMDLs that could be established and implemented in a relatively short time while allotting more time to complete work on more complex and comprehensive TMDLs, including basin-wide TMDLs for the Passaic and Raritan Rivers. This resulted in over 200 TMDLs established between 2000 – 2004 that addressed mostly fecal coliform in streams and total phosphorous in lakes throughout the State, followed by an additional 160 TMDLs between 2005 – 2007 that focused primarily on pathogens in lakes, total phosphorus in streams, and total coliform in shellfish waters. During this time, stakeholder processes were initiated to engage the public in the development of regional, nutrient TMDLs for the Passaic and Raritan Rivers, which were

[17] NJDEP. *New Jersey Nonpoint Source Management Program Plan, 2015-2019.* October 2015. http://www.state.nj.us/dep/wms/bears/docs/nps_plan_2015.pdf.
[18] NJDEP. *Barnegat Bay Restoration, Protection, and Enhancement Strategy: Moving Science into Action.* October 2017. https://www.nj.gov/dep/barnegatbay/

prepared with assistance and direct input from stakeholders in Watershed Management Areas (WMAs) 3, 4, 5, and 6 for the Passaic TMDL and WMAs 8, 9 and 10 for the Raritan TMDL. The Department conducted 21 stakeholder meetings between 2004 and 2009 on the Raritan TMDL alone.

Passaic Basin TMDL Established 2008

In 2008, New Jersey adopted its first complex TMDL to address nutrients in the non-tidal waters of the Passaic River Basin, which set load allocations for 56 NJPDES permitted dischargers. This TMDL also required the adoption of a low phosphorus ordinance as an additional measure to the Municipal Separate Storm Sewer System Permit (MS4) for 72 municipalities in the basin. With the adoption of the Passaic River Nutrient TMDL[19], New Jersey completed its obligations and the established TMDL priorities under the TMDL MOA with USEPA. Since then, TMDL priorities are re-evaluated during each listing cycle in accordance with the corresponding Integrated Water Quality Assessment Methods (Methods Document)[19]. Public involvement is provided for both the process used to rank and prioritize TMDLs, through the public comment period for the draft Methods Document published prior to development of each cycle's 303(d) List, and the outcome of the ranking process, through public comment on the draft 303(d) List and the draft Two-Year TMDL Schedule as components of the biennial Integrated Report. Priority concerns factored into TMDL ranking have included key water quality issues identified in the Integrated Water Quality Assessment Report (Integrated Report), such as human health concerns regarding mercury in fish tissue and coastal pathogens, schedules for renewing NJPDES discharge permits on a regional basis, and stakeholder concerns regarding the impact of temperature on trout aquatic life.

Barnegat Bay Watershed 1990's - present

Identified by the Department as a watershed priority area in the early 1990s, the Barnegat Bay was designated to the National Estuary program in 1995 in recognition of the importance of the Bay as an estuary of national concern. In 2010, the Department developed a Comprehensive Action Plan to address the ecological health of the larger 660-square-mile Barnegat Bay watershed. A series of public meetings were held to engage stakeholders in the collaborative development of the December 2010 Barnegat Bay Ten-Point Action Plan[20].

Through the Ten-Point Plan (Phase One), the Department launched both long-term efforts, such as closing the Oyster Creek Nuclear Generating Station, funding comprehensive research and water quality model development, and the development of post-construction soil restoration standards, and short-term actions such as municipal compliance assistance, reducing nutrient pollution from fertilizer through increased education and enforcement, and acquiring land in the Barnegat Bay watershed. Much of Phase One focused on research and the collection of sufficient hydrodynamic (flow and current), water chemistry, biological, and sediment flux data needed for model development, and to systematically assess the current condition of the bay and its watershed.

[19] See the Department's website at http://www.state.nj.us/dep/wms/bears/generalinfo.htm.
[20] See the Department's website at http://www.nj.gov/dep/barnegatbay December 9, 2010

The Barnegat Bay Watershed remains a priority for the Department and through the *Barnegat Bay Restoration, Enhancement, and Protection Strategy* (BB REP Strategy) [21], the Department is moving science into action in the watershed. The October 2017 BB REP is based upon the data, modeling results, and research generated by the Barnegat Bay Ten-Point Plan (Phase One) announced in 2010. The Department is building upon the accomplishments of Phase One by identifying restoration, enhancement, and protection actions as part of Phase Two (BB REP Strategy) with the continued goal of improving the ecological health of Barnegat Bay and its watershed. The BB REP Strategy provides four major components; restoration, enhancement, protection and assessment; that include short-term, mid-term, and long-term objectives and actions. This strategic plan identifies objectives and actions aimed at restoring areas of concern, enhancing areas wherever possible, and protecting healthy areas of the Barnegat Bay and its watershed. During Phase Two, partners and stakeholders will continue to be instrumental in accomplishing the objectives and actions alongside the department; this BB REP Strategy will undergo constant re-evaluation to gauge the effectiveness of the four major components and modifications will be made as needed.

A key finding of the BB REP Strategy is that while the northern third of the bay is ecologically impaired, and other areas are showing signs of stress, many parts of the bay and its resources are healthy. These findings informed the BB REP Strategy to implement appropriate measures which will help restore those impaired areas, enhance "on the edge" areas, and protect healthy areas. As described previously, Barnegat Bay was the focus of 2018 RfP to support implementation of projects that will improve the water quality and ecological health of the bay. To help maintain water quality of nonimpaired waters in Barnegat Bay the Department is preparing the forthcoming *Metedeconk River Watershed Protection Plan*.

New Jersey's Comprehensive Regional Assessment Using a Rotating Basin Approach Initiated 2014

New Jersey's Comprehensive Regional Assessment Using a Rotating Basin Approach was initiated for the 2014 Integrated Report and was modeled after the intensive, collaborative data collection conducted for the Barnegat Bay Action Plan combined with the comprehensive assessment methods developed for the 2012 Integrated Report. These enhanced methods were used to generate a comprehensive assessment of the Atlantic Coastal Water Region that was based on multiple lines of evidence to confirm water quality conditions, including water quality monitoring data and other factors including hydrology, geology, land use, biological habitat conditions, meteorology, restoration activities, point and nonpoint sources, use designation, stream classification, and other environmental considerations relevant to determining overall water quality, resulting in a high degree of confidence in the assessment decisions. This new comprehensive assessment method is explained in more detail in the 2014 Methods Document[22] and carried forth in the 2016 Methods Document[23]. The results of

[21] See the Department's website at http://www.nj.gov/dep/barnegatbay

[22] NJDEP. *2014 Integrated Water Quality Monitoring and Assessment Methods.* February 2015. http://www.nj.gov/dep/wms/bears/docs/2014_final_methods_document_and_response_to_comments.pdf.

[23] NJDEP. *2016 Integrated Water Quality Monitoring and Assessment Methods.* June 2017 https://www.state.nj.us/dep/wms/bears/docs/2016_final_methods_document.pdf

the comprehensive assessment of the Atlantic Coastal Region were presented in the 2014 Integrated Report[24] along with an overall assessment of statewide water quality conditions, as required under CWA Section 305(b). A comprehensive assessment of the Raritan Water Region is presented in the draft 2016 Integrated Report[25].

Under the rotating basin approach to comprehensive regional water quality assessment, the Department is conducting a streamlined assessment of statewide water quality along with a more comprehensive, detailed assessment of water quality in one of New Jersey's five water regions, Atlantic Coastal, Raritan, Lower Delaware, Upper Delaware and Northeast (see Figure 1) each assessment cycle (see Figure 2), beginning with the Atlantic Coastal Region for the 2014 Integrated Report.

[24] NJDEP. *2014 New Jersey Integrated Water Quality Assessment Report*. May 2017. https://www.state.nj.us/dep/wms/bears/docs/2014_final_integrated_report.pdf

[25] NJDEP. *2016 New Jersey Integrated Water Quality Assessment Report*. Draft September 2019. https://www.state.nj.us/dep/wms/bears/assessment.htm

Figure 1: New Jersey Water Regions

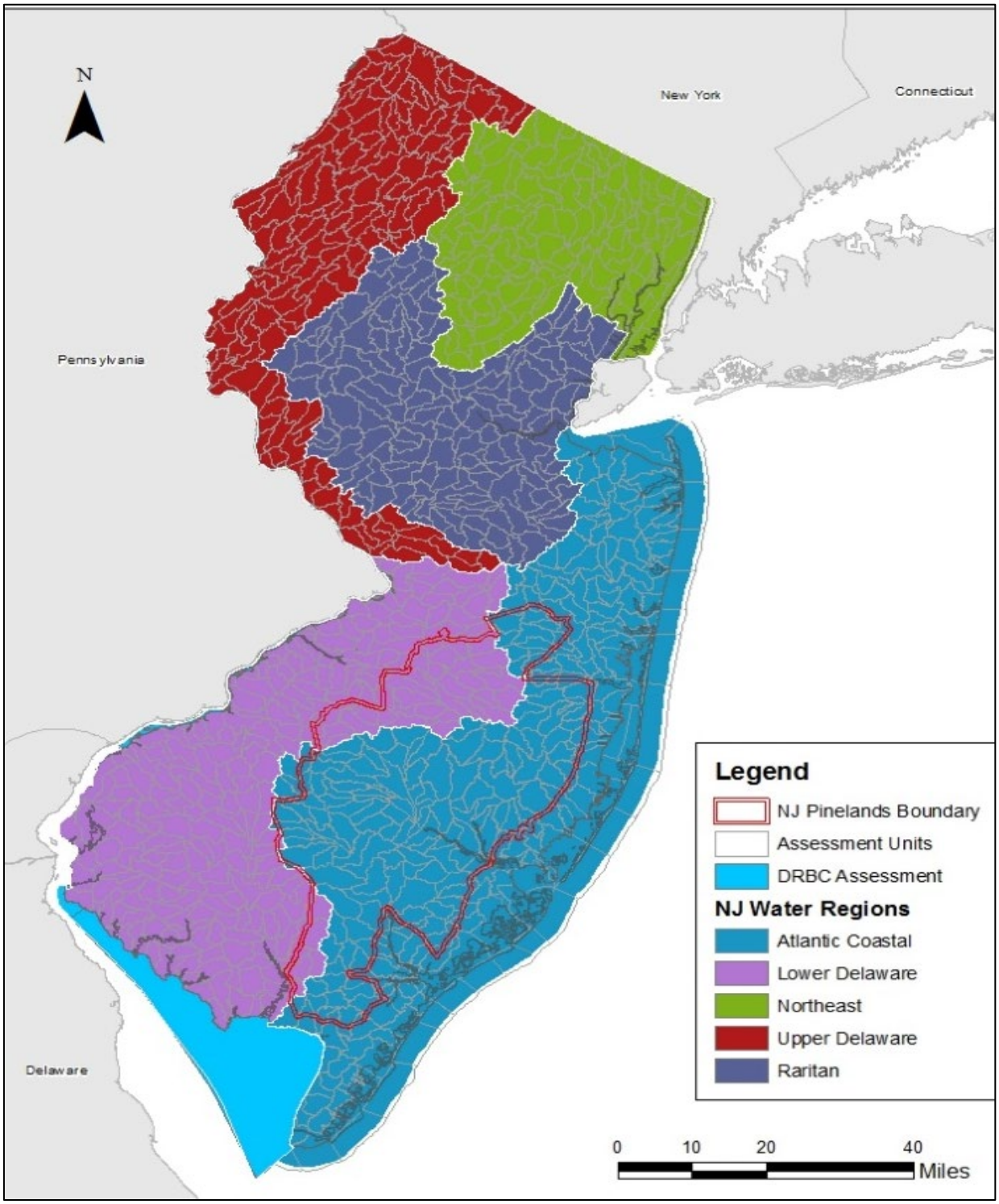
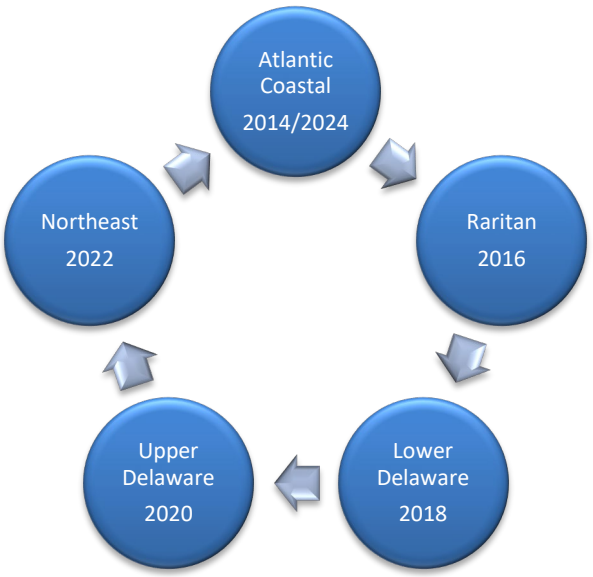


Figure 2: Rotating Basin Assessment Cycle



Priority Water Region	Assessment Cycle
Atlantic Coastal	**2014/2024**
Raritan	**2016**
Lower Delaware	**2018**
Upper Delaware	**2020**
Northeast	**2022**

The rotating basin approach produces a comprehensive assessment of the entire state every ten years and supports the development of measures to restore, maintain, and enhance water quality tailored to the unique circumstances of each region. Rotating basin monitoring designs provide a "focused approach in smaller geographic areas allowing for a more robust characterization and more collaboration with other water resource programs and local entities, as well as cross program integration;"[26] therefore, this approach has been integrated into the Department's forthcoming Long Term Monitoring and Assessment Strategy (see Appendix 2).

The rotating basin approach will generate:

- Evaluation of the effectiveness of control measures implemented to address water quality problems identified in the previously assessed water region;

- Identification of new and ongoing water quality problems, causes and sources in the current water region, improvements in water quality conditions that may have resulted from prior restoration activities, actions needed to fill data gaps, and additional control measures needed to address water quality problems and meet water quality goals in that region; and

- Collection of data to support assessment in the subsequent region, along with long-term, statewide monitoring and trend analysis to inform development or refinement of water quality goals and standards.

[26] National Water Monitoring Council. *Water Quality Monitoring: A Guide for Informed Decision Making Rotating Basin Monitoring Designs*. Fact Sheet Last Updated April 20, 2017. https://acwi.gov/monitoring/pubs/WIS_2017_fs/Rotating%20Basin%20Factsheet%20NWQMC.pdf.

Initial public input regarding the prioritization of the State's five Water Regions for comprehensive assessment through the rotating basin approach was provided through public review and comment on the draft 2014 Integrated Report when it was published in February 2016.[27]

TMDL Prioritization Through Sublist 5
Initiated 2014

As with USEPA's Vision Document, USEPA's updated Integrated Report guidance, *Information Concerning 2016 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions,*[28] provides states with more flexibility in structuring their Integrated Lists, allowing "…creation of a subcategory in Category 5 (i.e., 5-alternative) to report alternative restoration approaches for CWA 303(d) listed waters". Based on this guidance, the Department's revised New Jersey's Integrated List for the 2014 Integrated Report to include subparts of Sublist 5 to reflect a new TMDL prioritization process. Category 5 of the Integrated List identifies waters where "Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is required."[29] New Jersey uses the term "Sublists" instead of "Categories" to avoid confusion between waters placed on Sublist 1 and waters assigned the antidegradation designation of "Category One" under the New Jersey Surface Water Quality Standards, N.J.A.C. 7:9B-1.5(d) and 1.15(c) – (i).

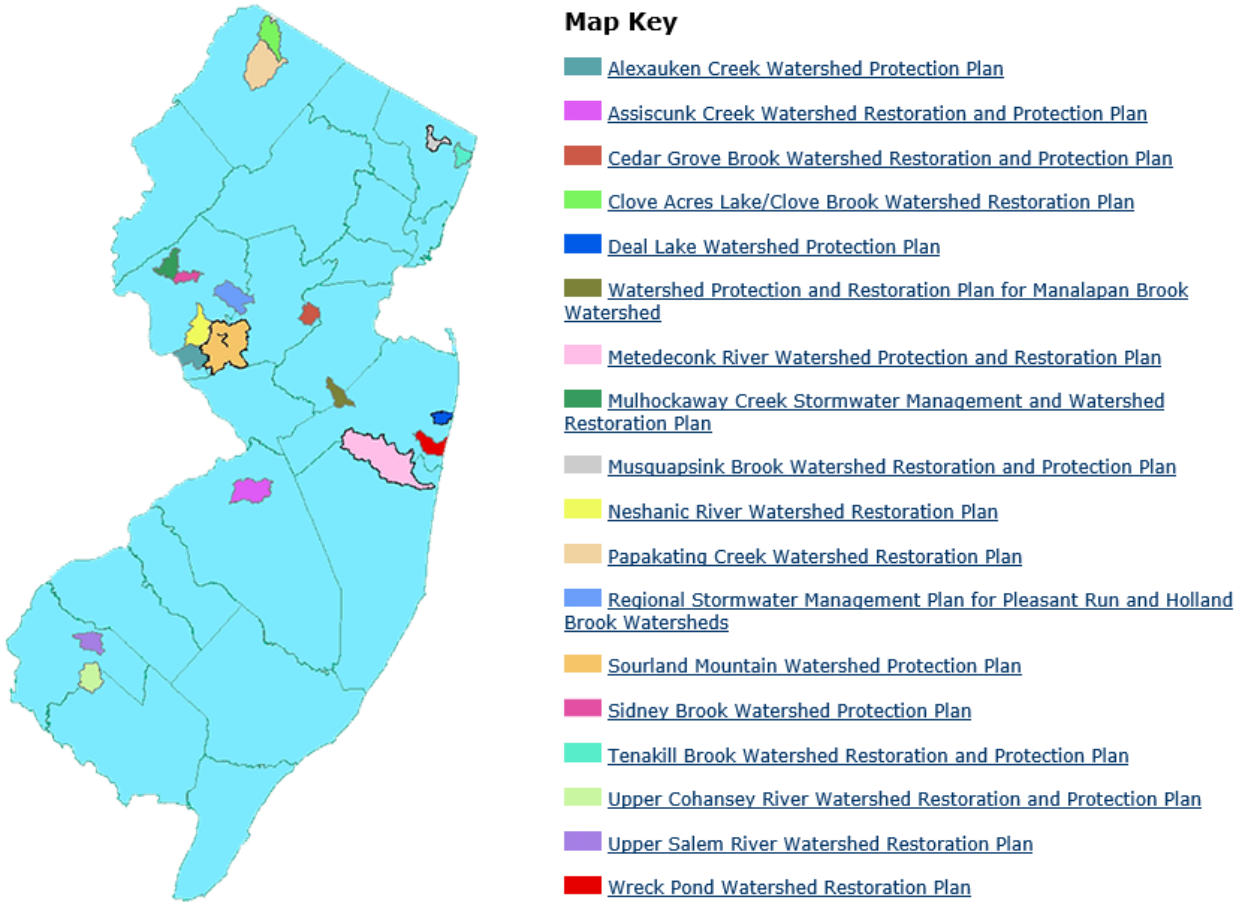
Beginning with the 2014 Integrated Report, the impaired waters list was parsed into three subparts under Sublist 5: Sublist 5A (Arsenic Naturally Occurring) identifies assessment units (AUs) where arsenic does not attain applicable surface water quality standards but concentrations are below those demonstrated to be from naturally occurring conditions; Sublist 5L (Legacy pollutants) identifies AUs where designated use impairment is caused by a "legacy" pollutant that is no longer actively discharged by a point source; and Sublist 5R (watershed restoration) identifies AUs for which water quality impairment is not effectively addressed by a TMDL, such as nonpoint source pollution that will be controlled under an approved watershed restoration plan or 319(h)-funded Watershed Based Plan (WBP). All three subparts to Sublist 5 reflect waters determined to be a very low priority for TMDL development because active point sources are not the primary cause of impairment. While the Department is working with USEPA and other states to develop effective responses to water quality impairment caused by naturally occurring arsenic or legacy pollutants, the Department is actively engaged in employing alternative restoration strategies for waters placed on Sublist 5R.

Sublist 5R was created to identify AUs that are impaired primarily by nonpoint sources of pollution that are not subject to regulation under the federal CWA, or regulated stormwater, which is most effectively addressed through source control. Watershed restoration plans, including 319(h) funded WBPs, can be an effective alternative to a TMDL to characterize pollutant sources, the reductions

[27] See http://www.state.nj.us/dep/wms/bears/docs/2014_draft_303dlist_public_notice_for_posting.pdf.
[28] USEPA. *Information Concerning 2016 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions.* August 13, 2015. https://www.epa.gov/sites/production/files/2015-10/documents/2016-ir-memo-and-cover-memo-8_13_2015.pdf.
[29] USEPA. *Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act*. July 29, 2005.

needed to attain standards, and the means to achieve the reductions. Approved WBPs (see Figure 3) are the basis for the development of Sublist 5R list.

Figure 3. Approved 9-Element Watershed-based Plans



Twenty-three AU/pollutant combinations were placed on Sublist 5R of the draft 2016 Integrated List based on the following considerations:

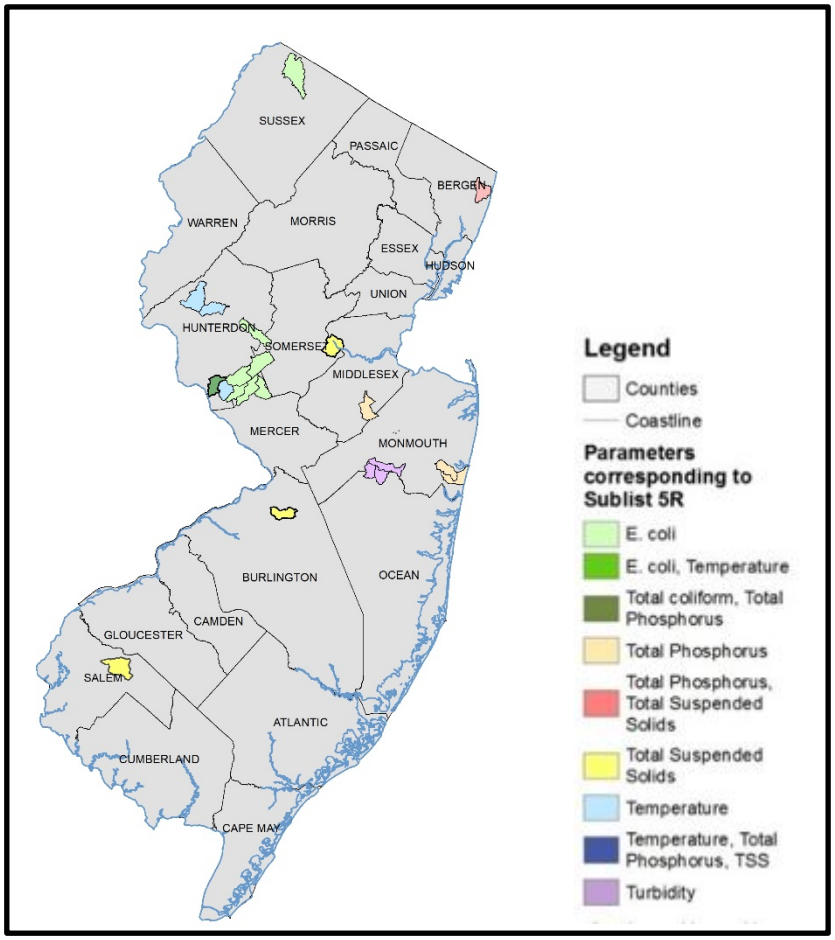
- Previous or new pollutants causing use impairment;
- Covered by USEPA-approved Watershed Based Plan[30] containing the nine minimum elements;
- Not covered by a USEPA-approved TMDL; and
- No major industrial or municipal discharger (> 1 MGD) in AUs impaired by TP, DO, or pH.

Causes of water quality impairment to be addressed under these approved WBPs include nutrients (TP, DO, and pH), temperature, pathogens, and total suspended solids. The spatial extent of these pollutant causes identified on Sublist 5R is shown in see Figure 4.

[30] A list of and links to these approved WBPs is available on the Department's website at http://www.state.nj.us/dep/wms/bears/wbplans.htm.

While TMDLs are still required for impaired waters on Sublist 5R, such TMDLs are considered a very low priority since implementation of the approved WBPs would be a more effective means to restore water quality and the prioritized funding for implementation of WBPs makes it more likely that restoration strategies will be implemented before a TMDL is developed, resulting in the delisting of the impaired parameter and to restore water quality. This is consistent with the alternative restoration approach articulated in USEPA's Listing guidance, which allows alternative approaches to TMDL development where it is "expected to be more immediately beneficial or practicable in achieving WQS than pursuing a TMDL approach in the near-term".

Figure 4: Spatial Extent of the 2016 Sublist 5R



A more detailed explanation of the structure of the 2016 Integrated List and the rationale for placing impaired waters on each subpart is provided in the final 2014 Methods Document[31] and reiterated in the 2016 Methods Document.[32] The process for statewide prioritization of impaired waters for TMDL development or other alternative measures in each subsequent listing cycle will be explained in each corresponding Methods Document under "Integrated List Guidance". Public input into this prioritization process will occur in each cycle when the Department publishes the draft Methods Document for public review and comment. The results of this prioritization process will be reflected in the placement of impaired waters on Sublist 5 and its subparts, as part of the Integrated List that is included in each biennial Integrated Report. An opportunity for public review and comment on the draft Integrated List will be provided when the draft Integrated Report is published each listing cycle.

2016 Integrated Report: Raritan Water Region

As explained earlier under the Rotating Basin Approach, the Raritan Water Region is the focus area for comprehensive water quality assessment in the 2016 Integrated Report. A stakeholder process was launched at the beginning of the 2016 integrated reporting cycle to provide more public engagement in accordance with the new USEPA Vision Document. Stakeholders including federal, state and local

[31] See http://www.state.nj.us/dep/wms/bears/docs/2014_final_methods_document_and_response_to_comments.pdf.
[32] See https://www.state.nj.us/dep/wms/bears/docs/2016_final_methods_document.pdf

government agencies, watershed associations, academia, and engaged citizens were invited to participate in this process to share information and provide input that will inform water quality assessment and prioritization decisions for the Raritan Water Region.

An informal Raritan Water Region Stakeholder meeting was held on June 30, 2016 to share data and information, identify water quality concerns and causes, inventory restoration actions already underway, and seek recommendations on goals, strategies, and priorities for water quality restoration. Stakeholder recommendations included capturing stormwater runoff from existing development, reducing impervious cover, and adding/increasing vegetated buffers along streambanks. Stakeholder priorities for restoration actions included control of agricultural nonpoint source pollution from farms, reduction in road salting/de-icing operations, and removal of dam removal. Meeting participants also identified successful restoration strategies already being implemented in the Raritan Water Region, including "River Friendly" education programs[33], Rutgers University Impervious Cover Reduction/Replacement projects, various rain gardens and/other green infrastructure projects, and wetlands reserve programs. Additional strategies were also recommended, including reductions in pesticide use and better protection of existing buffers. Stakeholders concurred with the Department that priority consideration should be given to implementation of the of TMDLs developed or under development for the non-tidal Raritan River Basin[34], Upper Saddle River, Hohokus River, and Duhernal Lake, which were identified as high priorities for TMDL development on the 2012 and 2014 303(d) Lists[35].

Subsequent stakeholder meetings were held on November 9, 2016 and February 23, 2017 in partnership with the Sustainable Raritan Collaborative[36] and the Rutgers University Sustainable Raritan River Initiative[37] to discuss preliminary results from the Department's comprehensive water quality assessment for the Raritan Water Region.[38] The Department presented data and results, including potential new 303(d) Listings for impaired waters in the Raritan Water Region and waters with declining water quality that are not yet impaired. The Department worked closely with these stakeholders to identify water quality impairments in the Raritan Water Region for which restoration best management practices would have a high likelihood for success based on consideration of available stakeholder data/information, local priorities, source verification, additional monitoring needed, cost and available funding, expected cooperation and other social, economic, environmental factors. These "candidate waterbodies" were used to identify priority waterbodies for restoration through grant funding under the SFY 2017 Water Quality Restoration Grants. Generally, grants are focused on restoration of water quality impaired predominantly by NPS pollution for waters located in a priority waterbody or region where the grant will help implement an approved TMDL or WBPs. The Department published a request for proposals (RFP) on March 10, 2017[39] soliciting applications

[33] A partnership between the Stony Brook-Millstone Watershed Association, New Jersey Water Supply Authority and Raritan Headwaters Association formed to implement a suite of "River-Friendly" programs for businesses, golf courses, schools and residents in New Jersey. See http://www.njriverfriendly.org.
[34] NJDEP. *Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments.* Established: June 2, 2015; approved May 9, 2016; and adopted May 24, 2016. http://www.nj.gov/dep/wms/bears/docs/raritan_tmdl_adopted.pdf.
[35] See http://www.state.nj.us/dep/wms/bears/assessment.htm.
[36] See http://raritan.rutgers.edu/about/background/.
[37] See http://raritan.rutgers.edu/
[38] Additional information about this collaboration and proceedings from the stakeholder meetings are available on the Rutgers University website at http://raritan.rutgers.edu/raritan-integrated-report/.
[39] See http://www.state.nj.us/dep/wms/bears/docs/nps_grant_rfp_2017.pdf.

for eligible NPS pollution control projects to be considered for funding under its Water Quality Restoration Grant Program.[40] Funding priorities for the SFY 2017 NPS grants include implementation of approved WBPs and TMDLs within the Raritan and Lower Delaware Water Regions, to coincide with the focus areas for the 2016 and 2018 Integrated Report, and "candidate waterbodies" identified through the Raritan Water Region stakeholder process. Other funding priorities include those identified through the stakeholder-driven Barnegat Bay 10-Point Action Plan, creation of "living shorelines", coastal lake restoration, and green infrastructure projects to manage Combined Sewer Overflows (CSOs) for the 25 NJPDES-permitted CSOs that are concentrated in the northeast part of the State. The complete list of funded projects and their descriptions may be viewed at: https://www.state.nj.us/dep/wms/bears/2017grants.htm.

PROTECTION GOAL

Raritan Protection Plan

As the first state in the nation to develop and receive EPA acknowledgement for a watershed protection plan, the *Non-tidal Raritan River Watershed Protection Plan (WPP)* brings together the many ongoing and latest water quality restoration actions being implemented in the Raritan to protect unimpaired waters while restoring impaired waters in this watershed. The WPP is based on the data and modeling results generated for the *Total Maximum Daily Load Report for the Non-Tidal Raritan River Basin*. Assessment units covered by this protection plan include those that attain the SWQS for total phosphorus and/or total suspended solids on the 2014 Integrated List and are within the area covered by the non-tidal Raritan River TMDL study. A total of 90 separate AU/parameter combinations in 66 separate AUs are identified for protection through the WPP with 36 AUs protected for TSS; six for TP and 24 for both TSS and TP. Both reports may be viewed under the Raritan tab at https://www.state.nj.us/dep/wms/bears/assessment.htm.

The WPP reflects a watershed approach that is based on the implementation of the Raritan TMDL which will provide a benefit to unimpaired HUCs within the watershed. Furthermore, a full complement of regulations, funding, and stewardship partnerships implemented through regulatory and nonregulatory approaches are key to protect and restore water quality. In order to ensure future water quality protection and restoration, the continuation of nonpoint source restoration projects, water quality monitoring, and stakeholder involvement are essential for the success of the plan. Restoration efforts to date have helped improve water quality in the region resulting in delisting five AU/parameter combinations that were previously on the 303(d) list of impaired waterbodies. The WPP aims to expand upon these positive results and achieve the Department's goal of restoration, maintenance and preservation of water quality in the Raritan River watershed.

[40] See http://www.state.nj.us/dep/wms/bears/npsrestgrants.html.

Figure 3.23A: Area Eligible for Total Phosphorus Protection Plan

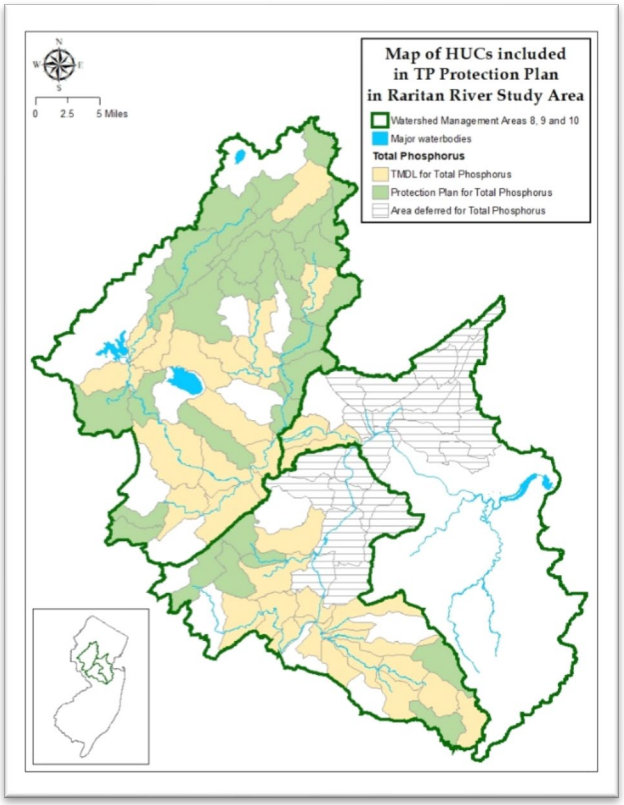
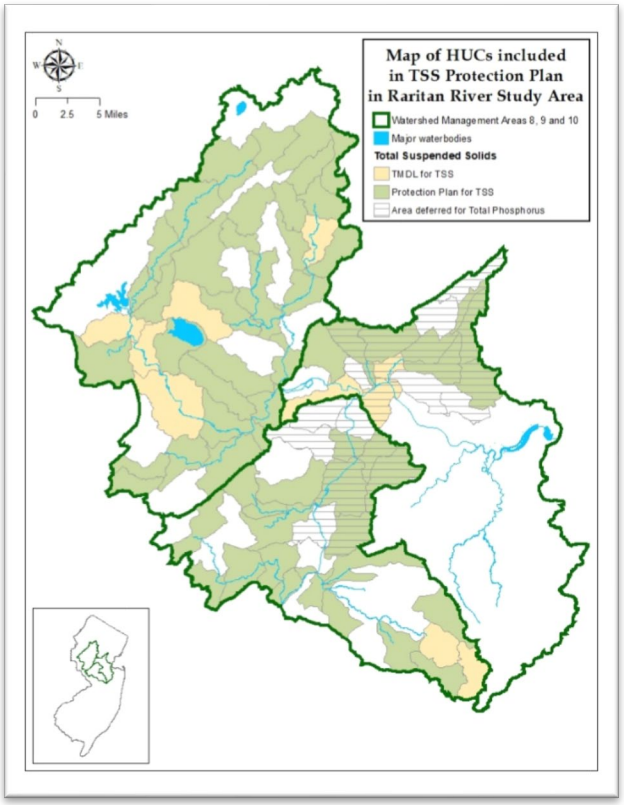


Figure 3.23B Area Eligible for Total Suspended Solids Protection Plan



Metedeconk Protection Plan

The Department is currently preparing a *Metedeconk River Watershed Protection Plan* the purpose of which is to preserve the non-impaired sub-basins (HUC14s) in the Metedeconk River, which empties into the northern portion of Barnegat Bay. It is an extension of the work completed by Brick Township MUA under a 319(h) grant from the Department to develop a 9 element *Metedeconk River Watershed Protection and Restoration Plan* (2013). This protection plan is built upon data, modeling results and research generated in the 2013 plan providing a watershed-scale approach to bring together the many ongoing and new actions being implemented to simultaneously protect non-impaired waters while restoring impaired waters. There are eleven HUC14 sub-basins covered by the protection plan which identifies the sources of possible stressors and management measures that should be implemented to maintain water quality in the watershed.

Category One Designations

As a further measure to protect water quality throughout New Jersey, on March 4, 2019 the Department proposed amendments to the Surface Water Quality Standards to upgrade 749 river miles to Category One (C1) antidegradation designation based on exceptional ecological significance and exceptional fisheries resource. C1 designations are designed to protect high quality waters from degradation in that these waters are protected from any "measurable change" to existing water quality and will be afforded 300-foot development buffers under New Jersey's Flood Hazard Area Control Act. Any wastewater or other regulated discharges impacting C1 waterbodies will need to meet stringent water quality standards. Currently 44% of NJ's waters are already classified as C1 or better.

INTEGRATION GOAL

Climate Change

New Jersey is working to address and mitigate the impacts of climate change. So far, its efforts have been successful, with New Jersey's attainment of the 2020 greenhouse gas reduction goal years ahead of schedule. New Jersey is now looking ahead to its 2050 Goal and is accelerating its transition to a low carbon economy through reducing its carbon pollution, expanding its clean energy infrastructure and building resilient communities. The integration of climate change with water policy is evolving on many fronts, although no single approach has emerged. A reliance on information sharing and collaboration among organizations would provide the most cost-effective and efficient approach at this time. The testimony at the public hearing emphasized that adaptive management will provide the Department with greater flexibility to evaluate agency policies, priorities, and resources. This will in turn enable the Department to more efficiently address and minimize increasing climate-related risks to water resources, including those that will directly affect water supply and wastewater systems. The causes of climate change and their relative contributions continue to be debated and models that project future trends and impacts continue to be refined. However, New Jersey does not have to wait for better models or more data to implement responsible changes to its water management programs. Common sense initiatives can be undertaken while awaiting improvements in predictive modeling.

Wastewater Management Planning

The Water Quality Management Planning (WQMP) rules, N.J.A.C. 7:15, implement the Water Quality Planning Act (WQPA), N.J.S.A. 58:11A-1 et seq., whose purpose is to maintain and, where attainable, restore the chemical, physical, and biological integrity of the surface and ground water resources of the State. The WQMP rules are one component of the State's water quality continuing planning process (CPP) discussed earlier in this appendix. The WQMP rules better integrate wastewater planning with existing permitting programs. They also provide the framework to identify the anticipated municipal and industrial waste treatment needs and any gaps in providing capacity in the future. Water quality management planning is one part of the CPP, which is intended to integrate and unify water quality management planning processes, assess water quality, establish water quality goals and standards, and develop a Statewide implementation strategy to achieve the water quality standards. N.J.S.A. 58:11A-7. The Department is currently reviewing several municipal and county wastewater management plans which when adopted will help preserve and protect both water quality and water supply in New Jersey.

USEPA Water Quality Measure 27 (WQ-27)

Since most parameters remaining on New Jersey's 303(d) List are nonpoint source in origin, the Department has embraced USEPA's 303(d) Program Vision, which provides states with the flexibility to pursue alternate approaches to TMDL development where such approaches will be more effective in restoring water quality, and in a timelier fashion, than TMDLs. The Department plans to prepare additional WBPs to address water quality impairment caused by NPS pollution and stormwater, as well as watershed protection plans to restore and protect high quality or declining water quality in waters that are not impaired, concurrent with development of high priority

TMDLs identified through the comprehensive regional assessment using a rotating basin approach. As part of reporting progress in implementing the CWA 303d Program Vision, USEPA and States developed new performance measure WQ-27, which is defined as:

> Extent of priority areas identified by each State that are addressed by EPA-approved TMDLs or alternative restoration approaches for impaired waters that will achieve water quality standards. These areas may also include protection approaches for unimpaired waters to maintain water quality standards.[41]

New Jersey developed its first set of WQ-27 priority areas using the 2012 Listing Cycle as the baseline and 2022 as the target year for establishing TMDLs or alternative restoration approaches for impaired waters, or protection approaches for unimpaired waters and submitted it to USEPA on July 1, 2015 (see Appendix 1) in fulfillment of its WQ-27 reporting commitment for 2014. It has been updated to reflect the completion of Raritan TMDL (SAY more) and was submitted to EPA on August 31, 2018. As the Department moves forward with the Rotating Basin Approach, the stakeholder process will provide the opportunity for public engagement in this prioritization process by providing a forum through which the public can share information about local water quality concerns, local restoration needs and priorities, restoration actions already completed or underway, and opportunities for funding and/or leveraging of resources for restoration actions. Such a stakeholder process will be conducted in each subsequent Water Region and the results of these regional prioritization processes will be reported to USEPA through New Jersey's annual WQ-27 submissions and in each corresponding Integrated Report.

Conclusion

The Department has invested significant resources in collecting and assessing water quality data and information, identifying sources and causes of water quality impairment, and developing and implementing strategies to restore water quality and meet statewide water quality goals and objectives. The Department has effectively engaged the public and other stakeholders at statewide, regional and local levels in these efforts. New Jersey has long embraced a comprehensive, integrated, stakeholder-based approach to water quality protection. Our partners have played a key role in the successful development and implementation of the Whippany Watershed Project, the Passaic and Raritan Basin TMDLs, and the Barnegat Bay 10-Point Action Plan, among others.

To date, the Department has completed TMDLs for over 600 assessment unit/pollutant combinations TMDLs, which address over 80% of impaired waterbodies in New Jersey that have at least one major point source discharger within the TMDL study area. A table showing all New Jersey TMDLs and their approval status is available on the Department's website at http://www.state.nj.us/dep/wms/bears/tmdls.html. Because of the Department-led, stakeholder-driven, comprehensive watershed management process throughout the State, the Department has maintained a long-term commitment to public participation in the development of TMDLs. Direct input was received from stakeholders for the comprehensive Passaic and Raritan TMDLs, resulting in

[41] See USEPA FY 2017 National Water Program Guidance Addendum at https://www.epa.gov/sites/production/files/2016-11/documents/fy_2017_nwpg_water_quality_measure_definitions.pdf.

permit limits and NPS restoration strategies, which currently serve as funding priorities for funding through NPS restoration grants.

The new USEPA CWA 303(d) Program Vision provides much-needed flexibility and support to continue such efforts. The Rotating Basin Approach to Comprehensive Regional Assessment will allow the Department to prioritize water quality restoration on a regional basis and pursue restoration strategies that are most effective for addressing those priority concerns, including development, implementation and funding of NPS control measures where they provide a feasible alternative to TMDL development. Successful execution of NPS measures depends on maintaining existing partnerships and forging new ones with state, interstate, regional and local entities; private sector groups; citizens; and federal and other government agencies. These partners and their affiliated programs have goals that align or overlap with the goals of the Department, thus providing mutual benefits. Partnerships strengthen the program by attracting new ideas and input, increasing understanding of water quality problems and causes, and building commitment to implementing solutions. Partnerships are paramount to implementing the State's short- and long-term water quality goals and objectives. The Department will continue to work closely with our partners to implement the broad range of available NPS reduction and prevention strategies along with other approaches necessary to address the full array of water quality issues in New Jersey. These include development of watershed restoration and protection plans, prioritization of available funding to implement nonpoint source reduction and prevention measures, stewardship-building and environmental education intended to enhance local initiatives to reduce and prevent nonpoint source pollution, which would include adoption of ordinances related to riparian zone and steep slope protection.

This document will be refined and expanded to address the remaining goals of the USEPA CWA 303(d) Program Vision in accordance with the deadlines established in their guidance document and will be published in subsequent Integrated Reports.

Appendix 1: New Jersey's WQ-27 Measure Commitments (based on 2012 & 2014 Integrated Report – Revised August 2018)

Assessment Unit ID	Assessment Unit Name	Cause Name*	Plan Type
NJ02030105010060	Raritan R SB(Califon br to Long Valley)	pH	TMDL in place
NJ02030105010080	Raritan R SB(Spruce Run-StoneMill gage)	TP	TMDL in place
NJ02030105020050	Beaver Brook (Clinton)	TP	TMDL in place
NJ02030105020070	Raritan R SB(River Rd to Spruce Run)	TP	TMDL in place
NJ02030105020070	Raritan R SB(River Rd to Spruce Run)	TSS	TMDL in place
NJ02030105020080	Raritan R SB(Prescott Bk to River Rd)	TSS	TMDL in place
NJ02030105020100	Raritan R SB(Three Bridges-Prescott Bk)	TP	TMDL in place
NJ02030105020100	Raritan R SB(Three Bridges-Prescott Bk)	TSS	TMDL in place
NJ02030105030060	Neshanic River (below FNR / SNR confl)	TP	TMDL in place
NJ02030105030070	Neshanic River (below Black Brk)	TP	TMDL in place
NJ02030105040010	Raritan R SB(Pleasant Run-Three Bridges)	TP	TMDL in place
NJ02030105040030	Holland Brook	TP	TMDL in place
NJ02030105040040	Raritan R SB(NB to Pleasant Run)	pH	TMDL in place
NJ02030105040040	Raritan R SB(NB to Pleasant Run)	TP	TMDL in place
NJ02030105050020	Lamington R (Hillside Rd to Rt 10)	TP	TMDL in place
NJ02030105050070	Lamington R(HallsBrRd-HerzogBrk)	pH	TMDL in place
NJ02030105050070	Lamington R(HallsBrRd-HerzogBrk)	TP	TMDL in place
NJ02030105050090	Rockaway Ck (below McCrea Mills)	TP	TMDL in place
NJ02030105050100	Rockaway Ck SB	TP	TMDL in place
NJ02030105050100	Rockaway Ck SB	TSS	TMDL in place
NJ02030105060040	Raritan R NB(Peapack Bk to McVickers Bk)	TP	TMDL in place
NJ02030105060040	Raritan R NB(Peapack Bk to McVickers Bk)	TSS	TMDL in place
NJ02030105080020	Raritan R Lwr (Rt 206 to NB / SB)	TP	TMDL in place
NJ02030105080030	Raritan R Lwr (Millstone to Rt 206)	TP	TMDL in place
NJ02030105080030	Raritan R Lwr (Millstone to Rt 206)	TSS	TMDL in place
NJ02030105090050	Stony Bk(Province Line Rd to 74d46m dam)	TP	TMDL in place
NJ02030105090060	Stony Bk (Rt 206 to Province Line Rd)	TP	TMDL in place
NJ02030105090070	Stony Bk (Harrison St to Rt 206)	TP	TMDL in place
NJ02030105090090	Stony Bk- Princeton drainage	TP	TMDL in place
NJ02030105100010	Millstone River (above Rt 33)	TP	TMDL in place
NJ02030105100010	Millstone River (above Rt 33)	TSS	TMDL in place
NJ02030105100020	Millstone R (Applegarth road to Rt 33)	TP	TMDL in place
NJ02030105100020	Millstone R (Applegarth road to Rt 33)	TSS	TMDL in place
NJ02030105100030	Millstone R (RockyBk to Applegarth road)	TP	TMDL in place
NJ02030105100050	Rocky Brook (below Monmouth Co line)	TP	TMDL in place

Assessment Unit ID	Assessment Unit Name	Cause Name*	Plan Type
NJ02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	DO	Alternative plan in place
NJ02030105100060	Millstone R (Cranbury Bk to Rocky Bk)	TP	TMDL in place
NJ02030105100090	Cranbury Brook (below NJ Turnpike)	TP	TMDL in place
NJ02030105100110	Devils Brook	TP	TMDL in place
NJ02030105100130	Bear Brook (below Trenton Road)	TP	TMDL in place
NJ02030105100140	Millstone R (Rt 1 to Cranbury Bk)	TP	TMDL in place
NJ02030105110020	Millstone R (HeathcoteBk to Harrison St)	TP	TMDL in place
NJ02030105110050	Beden Brook (below Province Line Rd)	TP	TMDL in place
NJ02030105110100	Pike Run (below Cruser Brook)	TP	TMDL in place
NJ02030105120130	Green Brook (below Bound Brook)	TSS	TMDL in place
NJ02030105120140	Raritan R Lwr(I-287 Piscatway-Millstone)	TSS	TMDL in place
NJ02030103140010	Hohokus Bk (above Godwin Ave)	TP	TMDL
NJ02030103140030	Hohokus Bk(below Pennington Ave)	TP	TMDL
NJ02030103140050	Saddle River (Rt 4 to HoHoKus)	TP	TMDL
NJ02030103140060	Saddle River (Lodi gage to Rt 4)	TP	TMDL
NJ02030103140070	Saddle River (below Lodi gage)	TP	TMDL
NJ02030103140080	Saddle River (Hohokus to Ridgewood gage)	TP	TMDL
NJ02030105150010	Weamaconk Creek	TP	TMDL
NJ02030105150010	Weamaconk Creek	TSS	TMDL
NJ02030105150030	McGellairds Brook (below Taylors Mills)	TP	TMDL
NJ02030105150060	Matchaponix Brook (below Pine Brook)	TP	TMDL
NJ02040301020010	Metedeconk R NB(above I-195)	Nitrate	protection
NJ02040301020010	Metedeconk R NB(above I-195)	TSS	protection
NJ02040301020020	Metedeconk R NB(Rt 9 to I-195)	Nitrate	protection
NJ02040301020020	Metedeconk R NB(Rt 9 to I-195)	TP	protection
NJ02040301020020	Metedeconk R NB(Rt 9 to I-195)	TSS	protection
NJ02040301020020	Metedeconk R NB(Rt 9 to I-195)	Turbidity	protection
NJ02040301020050	Metedeconk R NB (confluence to Rt 9)	Nitrate	protection
NJ02040301020050	Metedeconk R NB (confluence to Rt 9)	TP	protection
NJ02040301020050	Metedeconk R NB (confluence to Rt 9)	TSS	protection
NJ02040301020050	Metedeconk R NB (confluence to Rt 9)	Turbidity	protection
NJ02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	TP	protection
NJ02040301030020	Metedeconk R SB (74d19m15s to I-195 X21)	TP	protection
NJ02040301030030	Metedeconk R SB(BennettsPd to 74d19m15s)	Nitrate	protection
NJ02040301030030	Metedeconk R SB(BennettsPd to 74d19m15s)	TP	protection
NJ02040301030030	Metedeconk R SB(BennettsPd to 74d19m15s)	TSS	protection
NJ02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	Nitrate	protection

Assessment Unit ID	Assessment Unit Name	Cause Name*	Plan Type
NJ02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	TP	protection
NJ02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	TSS	protection
NJ02040301030040	Metedeconk R SB (Rt 9 to Bennetts Pond)	Turbidity	protection
NJ02040301030050	Metedeconk R SB (confluence to Rt 9)	Nitrate	protection
NJ02040301030050	Metedeconk R SB (confluence to Rt 9)	TP	protection
NJ02040301030050	Metedeconk R SB (confluence to Rt 9)	TSS	protection
NJ02040301030050	Metedeconk R SB (confluence to Rt 9)	Turbidity	protection
NJ02040301040020	Metedeconk R (Beaverdam Ck to confl)	Nitrate	protection
NJ02040301020030	Haystack Brook	TP	protection
NJ02040301020030	Haystack Brook	Nitrate	protection
NJ02040301020030	Haystack Brook	TSS	protection
NJ02040301020030	Haystack Brook	Turbidity	protection
NJ02040301020040	Muddy Ford Brook	Nitrate	protection
NJ02040301020040	Muddy Ford Brook	Turbidity	protection
NJ02040301030010	Metedeconk R SB (above I-195 exit 21 rd)	Turbidity	protection
NJ02040301030030	Metedeconk R SB (BennettsPd to 74d19m15s)	Turbidity	protection
NJ02040301040020	Metedeconk R (Beaverdam Ck to confl)	Turbidity	protection
NJ02030105010020	Drakes Brook (below Eyland Ave)	TP	protection
NJ02030105010020	Drakes Brook (below Eyland Ave)	TSS	protection
NJ02030105010050	Raritan R SB (LongValley br to 74d44m15s)	TP	protection
NJ02030105010050	Raritan R SB (LongValley br to 74d44m15s)	TSS	protection
NJ02030105010060	Raritan R SB (Califon br to Long Valley)	TP	protection
NJ02030105010060	Raritan R SB (Califon br to Long Valley)	TSS	protection
NJ02030105010070	Raritan R SB (StoneMill gage to Califon)	TP	protection
NJ02030105010070	Raritan R SB (StoneMill gage to Califon)	TSS	protection
NJ02030105010080	Raritan R SB (Spruce Run-StoneMill gage)	TSS	protection
NJ02030105020050	Beaver Brook (Clinton)	TSS	protection
NJ02030105020060	Cakepoulin Creek	TP	protection
NJ02030105020060	Cakepoulin Creek	TSS	protection
NJ02030105020080	Raritan R SB (Prescott Bk to River Rd)	TP	protection
NJ02030105020090	Prescott Brook / Round Valley Reservior	TSS	protection
NJ02030105030030	Headquarters trib (Third Neshanic River)	TP	protection
NJ02030105030030	Headquarters trib (Third Neshanic River)	TSS	protection
NJ02030105030040	Third Neshanic River	TP	protection
NJ02030105030040	Third Neshanic River	TSS	protection
NJ02030105030060	Neshanic River (below FNR / SNR confl)	TSS	protection
NJ02030105030070	Neshanic River (below Black Brk)	TSS	protection

Assessment Unit ID	Assessment Unit Name	Cause Name*	Plan Type
NJ02030105040010	Raritan R SB (Pleasant Run-Three Bridges)	TSS	protection
NJ02030105040020	Pleasant Run	TP	protection
NJ02030105040020	Pleasant Run	TSS	protection
NJ02030105040030	Holland Brook	TSS	protection
NJ02030105040040	Raritan R SB (NB to Pleasant Run)	TSS	protection
NJ02030105050010	Lamington R (above Rt 10)	TP	protection
NJ02030105050020	Lamington R (Hillside Rd to Rt 10)	TSS	protection
NJ02030105050030	Lamington R (Furnace Rd to Hillside Rd)	TP	protection
NJ02030105050040	Lamington R (Pottersville gage-FurnaceRd)	TSS	protection
NJ02030105050040	Lamington R (Pottersville gage-FurnaceRd)	TP	protection
NJ02030105050050	Pottersville trib (Lamington River)	TP	protection
NJ02030105050070	Lamington R (HallsBrRd-HerzogBrk)	TSS	protection
NJ02030105050080	Rockaway Ck (above McCrea Mills)	TSS	protection
NJ02030105050080	Rockaway Ck (above McCrea Mills)	TP	protection
NJ02030105050090	Rockaway Ck (below McCrea Mills)	TSS	protection
NJ02030105050130	Lamington R (Hertzog Brk to Pottersville gage)	TP	protection
NJ02030105050130	Lamington R (Hertzog Brk to Pottersville gage)	TSS	protection
NJ02030105060010	Raritan R NB (above/incl India Bk)	TP	protection
NJ02030105060010	Raritan R NB (above/incl India Bk)	TSS	protection
NJ02030105060020	Burnett Brook (above Old Mill Rd)	TP	protection
NJ02030105060020	Burnett Brook (above Old Mill Rd)	TSS	protection
NJ02030105060030	Raritan R NB (incl McVickers to India Bk)	TP	protection
NJ02030105060030	Raritan R NB (incl McVickers to India Bk)	TSS	protection
NJ02030105060050	Peapack Brook (above/incl Gladstone Bk)	TP	protection
NJ02030105060050	Peapack Brook (above/incl Gladstone Bk)	TSS	protection
NJ02030105060060	Peapack Brook (below Gladstone Brook)	TP	protection
NJ02030105060060	Peapack Brook (below Gladstone Brook)	TSS	protection
NJ02030105060070	Raritan R NB (incl Mine Bk to Peapack Bk)	TP	protection
NJ02030105060070	Raritan R NB (incl Mine Bk to Peapack Bk)	TSS	protection
NJ02030105060090	Raritan R NB (Lamington R to Mine Bk)	TP	protection
NJ02030105060090	Raritan R NB (Lamington R to Mine Bk)	TSS	protection
NJ02030105070010	Raritan R NB (Rt 28 to Lamington R)	TP	protection
NJ02030105070030	Raritan R NB (below Rt 28)	TP	protection
NJ02030105070030	Raritan R NB (below Rt 28)	TSS	protection
NJ02030105080010	Peters Brook	TSS	protection
NJ02030105090020	Stony Bk (74d 48m 10s to 74d 49m 15s)	TP	protection

Assessment Unit ID	Assessment Unit Name	Cause Name*	Plan Type
NJ02030105090020	Stony Bk (74d 48m 10s to 74d 49m 15s)	TSS	protection
NJ02030105090050	Stony Bk (Province Line Rd to 74d46m dam)	TSS	protection
NJ02030105090060	Stony Bk (Rt 206 to Province Line Rd)	TSS	protection
NJ02030105090070	Stony Bk (Harrison St to Rt 206)	TSS	protection
NJ02030105100040	Rocky Brook (above Monmouth Co line)	TP	protection
NJ02030105100040	Rocky Brook (above Monmouth Co line)	TSS	protection
NJ02030105100050	Rocky Brook (below Monmouth Co line)	TSS	protection
NJ02030105100070	Cranbury Brook (above NJ Turnpike)	TP	protection
NJ02030105100070	Cranbury Brook (above NJ Turnpike)	TSS	protection
NJ02030105100110	Devils Brook	TSS	protection
NJ02030105100130	Bear Brook (below Trenton Road)	TSS	protection
NJ02030105100140	Millstone R (Rt 1 to Cranbury Bk)	TSS	protection
NJ02030105110010	Heathcote Brook	TSS	protection
NJ02030105110040	Beden Brook (above Province Line Rd)	TP	protection
NJ02030105110050	Beden Brook (below Province Line Rd)	TSS	protection
NJ02030105110060	Rock Brook (above Camp Meeting Ave)	TP	protection
NJ02030105110060	Rock Brook (above Camp Meeting Ave)	TSS	protection
NJ02030105110070	Rock Brook (below Camp Meeting Ave)	TP	protection
NJ02030105110070	Rock Brook (below Camp Meeting Ave)	TSS	protection
NJ02030105110100	Pike Run (below Cruser Brook)	TSS	protection
NJ02030105110110	Millstone R (BlackwellsMills to BedenBk)	TSS	protection
NJ02030105110120	Sixmile Run (above Middlebush Rd)	TSS	protection
NJ02030105110130	Sixmile Run (below Middlebush Rd)	TSS	protection
NJ02030105110140	Millstone R (AmwellRd to BlackwellsMills)	TSS	protection
NJ02030105120020	Green Bk (N Plainfield gage to Blue Bk)	TSS	protection
NJ02030105120050	Middle Brook EB	TSS	protection
NJ02030105120060	Middle Brook WB	TSS	protection
NJ02030105120080	South Fork of Bound Brook	TSS	protection
NJ02030105120090	Spring Lake Fork of Bound Brook	TSS	protection
NJ02030105120100	Bound Brook (below fork at 74d 25m 15s)	TSS	protection
NJ02030105120180	Middle Brook	TSS	protection
NJ02040301060010	Toms River (above Francis Mills)	TP	5alt
NJ02040301060020	Toms River (74-22-30 rd to FrancisMills)	TP	protection
NJ02040301060030	Toms River (Bowman Rd to 74-22-30 road)	TP	protection
NJ02040301060040	Maple Root Branch (Toms River)	TP	protection
NJ02040301060050	Dove Mill Branch (Toms River)	TP	protection
NJ02040301060070	Toms River (Rt 70 to Hope Chapel Road)	TP	protection

Assessment Unit ID	Assessment Unit Name	Cause Name*	Plan Type
NJ02040301060080	Toms River (Oak Ridge Parkway to Rt 70)	TP	protection
NJ02040301070010	Shannae Brook	TP	protection
NJ02040301070030	Ridgeway Br (Hope Chapel Rd to HarrisBr)	TP	protection
NJ02040301070040	Ridgeway Br (below Hope Chapel Rd)	TP	protection
NJ02040301070050	Blacks Branch (above 74d22m05s)	TP	protection
NJ02040301070080	Manapaqua Brook	TP	protection
NJ02040301070090	Union Branch (below Blacks Br 74d22m05s)	TP	protection
NJ02040301080020	Michaels Branch (Wrangel Brook)	TP	protection
NJ02040301080050	Wrangel Brook (below Michaels Branch)	TP	protection
NJ02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	TP	protection
NJ02040301080070	Jakes Branch (Lower Toms River)	TP	protection
NJ02040301060010	Toms River (above Francis Mills)	Nitrate	protection
NJ02040301060020	Toms River (74-22-30 rd to FrancisMills)	Nitrate	protection
NJ02040301060030	Toms River (Bowman Rd to 74-22-30 road)	Nitrate	protection
NJ02040301060040	Maple Root Branch (Toms River)	Nitrate	protection
NJ02040301060070	Toms River (Rt 70 to Hope Chapel Road)	Nitrate	protection
NJ02040301060080	Toms River (Oak Ridge Parkway to Rt 70)	Nitrate	protection
NJ02040301070010	Shannae Brook	Nitrate	protection
NJ02040301070040	Ridgeway Br (below Hope Chapel Rd)	Nitrate	protection
NJ02040301070050	Blacks Branch (above 74d22m05s)	Nitrate	protection
NJ02040301080020	Michaels Branch (Wrangel Brook)	Nitrate	protection
NJ02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	Nitrate	protection
NJ02040301080070	Jakes Branch (Lower Toms River)	Nitrate	protection
NJ02040301060010	Toms River (above Francis Mills)	TSS	protection
NJ02040301060020	Toms River (74-22-30 rd to FrancisMills)	TSS	protection
NJ02040301060030	Toms River (Bowman Rd to 74-22-30 road)	TSS	protection
NJ02040301060050	Dove Mill Branch (Toms River)	TSS	protection
NJ02040301060070	Toms River (Rt 70 to Hope Chapel Road)	TSS	protection
NJ02040301060080	Toms River (Oak Ridge Parkway to Rt 70)	TSS	protection
NJ02040301070010	Shannae Brook	TSS	protection
NJ02040301070030	Ridgeway Br (Hope Chapel Rd to HarrisBr)	TSS	protection
NJ02040301070040	Ridgeway Br (below Hope Chapel Rd)	TSS	protection
NJ02040301070080	Manapaqua Brook	TSS	protection
NJ02040301080050	Wrangel Brook (below Michaels Branch)	TSS	protection
NJ02040301080060	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	TSS	protection
NJ02040301080070	Jakes Branch (Lower Toms River)	TSS	protection
NJ02040105230050	Assunpink Ck (Shipetaukin to Trenton Rd)	HG in Fish Tissue	TMDL

Assessment Unit ID	Assessment Unit Name	Cause Name*	Plan Type
NJ02040105090050	Furnace Brook	HG in Fish Tissue	TMDL
NJ02040206160040	Mill Creek (lower)	HG in Fish Tissue	TMDL
NJ02040105150030	Musconetcong R (Wills Bk to LkHopatcong)	HG in Fish Tissue	TMDL
NJ02040105050050	Paulins Kill (below Blairstown gage)	HG in Fish Tissue	TMDL
NJ02040105050010	Paulins Kill (Blairstown to Stillwater)	HG in Fish Tissue	TMDL
NJ02030105100050	Rocky Brook (below Monmouth Co line)	HG in Fish Tissue	TMDL
NJ02040104240010	Van Campens Brook	HG in Fish Tissue	TMDL
BarnegatBay04	Toms R Estuary	DO	TMDL
BarnegatBay05	Barnegat Bay Central West	DO	TMDL
BarnegatBay09	Lower Little Egg Harbor Bay	DO	TMDL
BarnegatBay03	Metedeconk and Lower Tribs - Bay	Turbidity	TMDL
BarnegatBay08	Manahawkan Bay and Upper Little Egg Harbor	Turbidity	TMDL
BarnegatBay09	Lower Little Egg Harbor Bay	Turbidity	TMDL

Footnote: * - The abbreviated cause names are TP = Total Phosphorus, TSS = Total Suspended Solids, and HG = Mercury.

The green highlighted commitments have been fulfilled through the adoption of the Raritan River TMDL (dated May 24, 2016) and the USEPA approved Raritan River Watershed Protection Plan (approval dated September 12, 2018).

Appendix 2: Long Term Monitoring and Assessment Strategy

The Department oversees the operation of the primary water quality monitoring networks for the State of New Jersey. Monitoring strategies employed by the Department are comprised of multiple water quality assessment techniques including: habitat assessments, in-stream biological monitoring such as fish population surveys, collection of physical/chemical data on a variety of matrices (surface water, ground water, sediment), identifying pollution sources in the coastal and freshwater environment (discharges, stormwater, marinas), and sediment toxicity testing. Monitoring conducted by other entities, such as federal and county government agencies, regional commissions (e.g., Pinelands Commission) watershed associations (including voluntary citizen monitoring) and discharger associations, is also used to supplement these networks and expand the range and scope of information available for water quality assessment. New Jersey's water monitoring programs and federally-required long term monitoring strategy (LTMS) are described in New Jersey's Water Monitoring and Assessment Strategy (2005-2014), available on the Department's website at http://www.state.nj.us/dep/wms/longtermstrategyreport.pdf. The LTMS is currently being updated for the 2015-2022 timeframe. The update to the Department's LTMS will explain in more detail how the Department's monitoring and assessment programs are being transformed to support a more iterative process. The LTS for 2015-2022 will divide the Department's ambient monitoring network into three distinct tiers, each with a different focus:

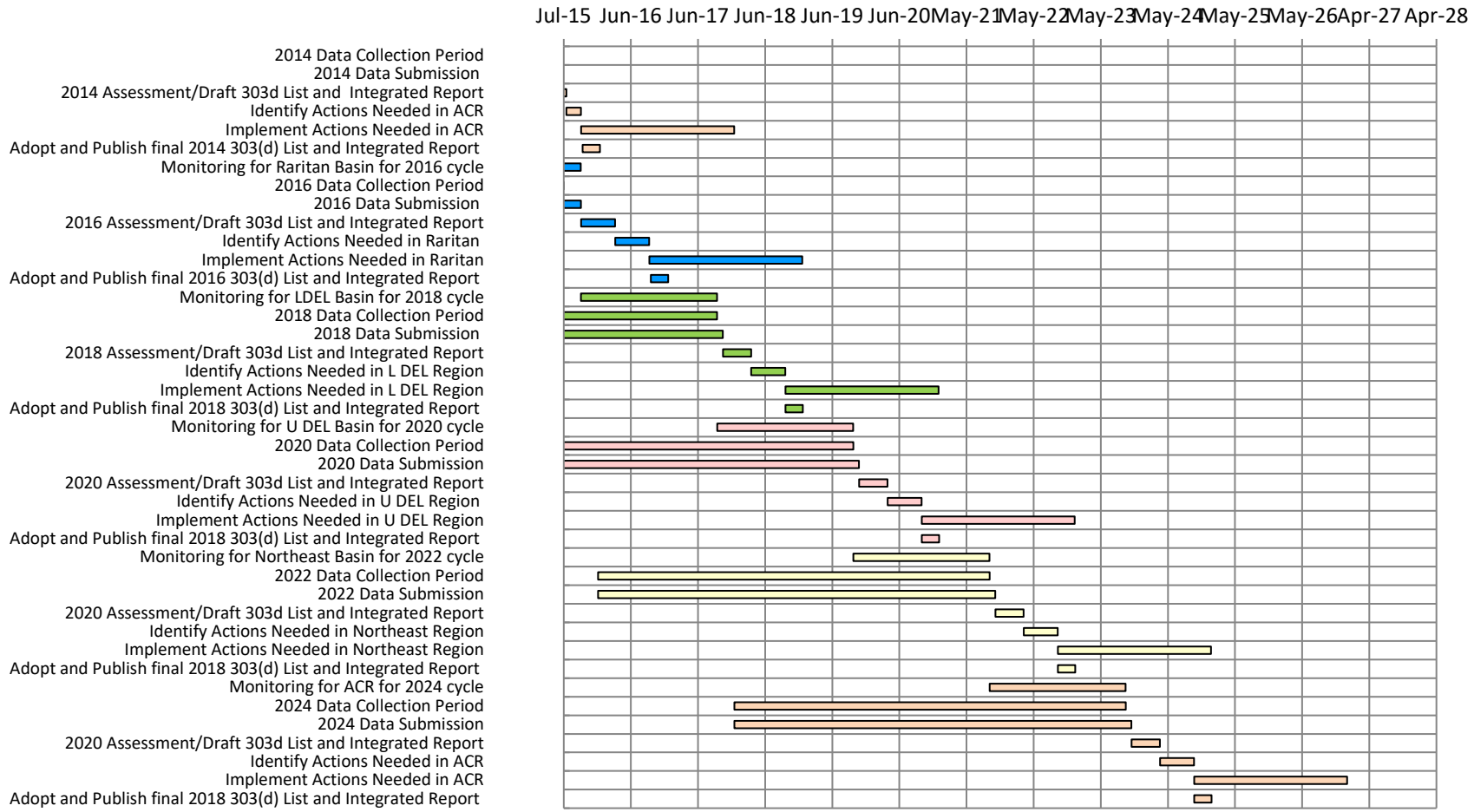
Tier 1 - Statewide Status and Trends Monitoring: will focus on collecting statewide water quality data and information to comply with federal and state mandates. This tier will utilize fixed stations and probabilistically-selected monitoring locations to provide long-term data and information that support water quality assessment, water quality status (including identification of impaired waters, causes and sources), and trends evaluation.

Tier 2 - Targeted Monitoring: will focus on monitoring of targeted areas or specific issues to provide a more comprehensive evaluation of areas of interest, including monitoring in a specific or priority stream, watershed or region to fill data gaps, confirm suspected impairment, track down sources of pollutants causing impairment, and confirm water quality conditions attributed to natural conditions.

Tier 3 - Effectiveness Monitoring: will provide follow-up analysis to evaluate effectiveness of various management measures that have been implemented for areas of interest and confirm any corresponding improvement in water quality. Effectiveness of waterbody-specific management actions will be determined using indicators of improvement that are evaluated before and after management actions are implemented.

The rotating basin approach which will produce a comprehensive assessment of water quality in each of New Jersey five water regions on a cyclical basis. Priorities will be identified in collaboration with a stakeholder process for each water region coincident with the biennial Integrated Report cycle. Informal stakeholder input is sought for the specific water region at the time leading up to the preparation of the Integrated Report.

Rotating Basin Approach Monitoring and Assessment Cycles



Through effectiveness monitoring the Department will be able to ascertain the success of its restoration initiatives over the past 20 years such as the efficacy of the statewide fertilizer law which went into effect in 2011, as well as various 319(h) NPS funded restoration BMPs, and implemented TMDLs. Through the Department's progressive watershed management process benchmark monitoring was performed in the late 1990's in both the Toms River watershed in south Jersey (part of the Barnegat Bay watershed) and in the Whippany River watershed in north Jersey. The purpose of these previous monitoring initiatives was to determine regional specific land use loading coefficients. In the Fall of 2019, the Department will begin nonpoint source stormwater monitoring in the Toms River as a repeat of its 1994-98 investigation of land use loading coefficients. The same initiative will be reiterated in the Whippany River watershed at a later date. These multi-year surface water quality investigations will calculate the NPS loadings of nutrient, bacteria and suspended solids from various land use areas in these watersheds. It is anticipated that improvements in NPS loading from overland flow and the effectiveness of the fertilizer ordinance will be captured in these baseline investigations.

Watershed based plans employ an adaptive management approach in which available information and analytical tools are used to support the best planning decisions that can be made ensuring restoration and stewardship of impaired waters. The implementation specification found in watershed based plans is more detailed than in a TMDL document and is eligible for Section 319(h) funding. Further, there is a mechanism by which a watershed based plan could inform the need for enhanced regulatory requirements under the MS4 permitting. Therefore, there is no loss of implementation authority using the tool of a watershed based plan over a TMDL, in the intended circumstances.

This approach allows the Department to provide a transparent and rational identification of the intended response to listed impairments. Future site specific assessment will be streamlined through the continuation of an engaged stakeholder process and resultant updates to the WQ-27 measures list to identify forthcoming restoration and protection assessment unit candidates. The funding of projects to address the WQ-27 candidates and the implementation of the Department's Long Term Monitoring Strategy to address Tier 2 Targeted Monitoring assessment units and Tier 3 Effectiveness Monitoring assessment units will cap the New Jersey's Vision Approach to protect healthy waters and continue to restore impaired waters.

Appendix H: Public Participation

The Integrated Report combines the reporting requirements of Sections 305(b) and 303(d) of the federal Clean Water Act. The Integrated List component of the Report, which categorizes the results of use assessments for all the State's assessment units as fully supporting, not supporting, or insufficient information, meets the reporting requirements of Section 305(b) formerly addressed by the Statewide Water Quality Inventory Report. The 303(d) List component of the Report, which meets the reporting requirements of Section 303(d), includes the assessment units identified as not supporting one or more designated uses, the pollutants causing non-support of those assessment units, and their priority ranking for TMDL development. The requirements identified in this section regarding public participation, USEPA approval, and adoption apply only to the 303(d) List component of the Integrated Report.

The Department is required under 40 CFR 130.7(b)(6) to provide a description of the methodology used to develop the 303(d) List. This Methods Document lays out the framework for assessing data and categorizing assessment units as fully supporting, not supporting, or insufficient information for the Integrated List. The Department develops a draft Methods Document that is made available for public review and comment through public notification, as outlined below. After finalizing the Methods Document, the Department assesses the data in accordance with those methods and develops the Integrated Report, which includes the draft Integrated List, draft 303(d) List, and two-year TMDL Schedule. A public notice is published in the New Jersey Register announcing that the draft Integrated List and draft 303(d) List are available for public review and comment. The Integrated List and 303(d) List are revised, as appropriate, after full consideration of comments received. The public is afforded the opportunity to participate in three key phases of development of the Integrated List: 1) submission of data, 2) review of and comment on the proposed assessment methods; and 3) review of and comment on the proposed Integrated List and 303(d) List. These phases are summarized below.

Public Submission of Data

Public participation begins with a public request for data submissions. The Department provides several avenues for announcing its intent to seek water quality data from the general public, including publication of a notice in the New Jersey Register, posting on the Department's website, and electronic announcement sent to subscribers of the Department's Listservs (see the Department's website at https://www.state.nj.us/dep/wms/listservs.html). A public notice regarding data submittal requirements for the 2016 303(d) List and Integrated Report was published in the New Jersey Register on March 15, 2015 (see 45 N.J.R. 378(a)). The public notice (and other notifications) specified that, for the 2016 Integrated Report, the Department was seeking data collected by July 1, 2015 that met all Department data requirements, was collected in compliance with a Department-approved (and signed) Quality Assurance and Quality Control Plan, was available to the public (i.e., not proprietary in nature), and was submitted electronically via the Department's Water Quality Data Exchange (WQDE) System or through USEPA's Water Quality Exchange (WQX) system. The deadline for submitting data for consideration in the development of the 2016 Integrated Report was October 1, 2015.

In determining which data were appropriate and "readily available" for assessment purposes, the Department considered quality assurance/quality control, monitoring design, age of data, accurate sampling location information, data documentation, and use of electronic data management. Data requirements are discussed in detail in Chapter 3 of the 2016 Methods Document. Data that was rejected for quality concerns or other reasons are identified in Appendix E: Date Sources for the 2016 Integrated Report. The Department continues to work with data-generating organizations to organize their data, provide training in acceptable sampling techniques, and certify laboratories and field measurement protocols.

Public Review of Draft Documents

Once the Department has completed its review of the data submitted by other entities and incorporates the results as appropriate, the Department provides an opportunity for public review of the Integrated Water Quality Monitoring and Assessment Methods Document and the Draft Integrated List. The Department publishes a notice in the New Jersey Register and on the Department website announcing the availability of these documents for public review and comment. Adjacent states, federal, and interstate agencies are also notified, as appropriate.

2016 Methods Document:

On February 16, 2016, the Department published a public notice (see 46 N.J.R. 1719(c)) announcing availability for review of the draft 2016 Integrated Water Quality Monitoring and Assessment Methods Document. This document includes a description of the quality assurance requirements as well as the rationale for the placement of waterbodies on the Integrated List. The public comment period ended on March 20, 2016. After review and consideration of comments received, the Department published the final 2016 Methods Document including public comments and the Department's responses in the New Jersey Register and on the Department's website at https://www.state.nj.us/dep/wms/bears/docs/2016_final_methods_document.pdf.

2016 303(d) List:

The Department is required to propose the 303(d) List of Water Quality Limited Waters (303(d) List) as an amendment to the Statewide Water Quality Management Plan, provide an opportunity for public comment, and adopt the amendment in accordance with N.J.A.C. 7:15-6.4. A public notice announcing the availability for review of the draft 2016 303(d) List, as a component of the 2016 Integrated Report, will be published in the New Jersey Register and on the Department's website at http://www.state.nj.us/dep/wms/bears/2016_integrated_report.htm, followed by a 30-day public comment period. After the public comment period closes, the 2016 303(d) List and the Integrated Report will be revised as needed to address comments submitted by USEPA and other commenters, and will be submitted to USEPA for formal approval. Upon receiving approval from USEPA, the 2016 303(d) List will be adopted as an amendment to the Statewide Water Quality Management Plan pursuant to N.J.A.C. 7:15-6, a public notice announcing the adoption will be published in the New Jersey Register, and the final versions of the 2016 303(d) List and Integrated Report will be published on the Department's website.