

RULES AND REGULATIONS

Title 25—ENVIRONMENTAL PROTECTION

ENVIRONMENTAL QUALITY BOARD

[25 PA. CODE CH. 93]

Triennial Review of Water Quality Standards

The Environmental Quality Board (Board) amends Chapter 93 (relating to water quality standards). This final-form rulemaking fulfills the Commonwealth's obligations under State and Federal laws to review and revise, as necessary, water quality standards that are protective of surface waters.

This final-form rulemaking was adopted by the Board at its meeting of November 19, 2019.

A. *Effective Date*

This final-form rulemaking will be effective upon publication in the *Pennsylvania Bulletin*.

B. *Contact Persons*

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C. *Statutory and Regulatory Authority*

This final-form rulemaking is being made under the authority of sections 5(b)(1) and 402 of The Clean Streams Law (CSL) (35 P.S. §§ 691.5(b)(1) and 691.402), which authorize the Board to develop and adopt rules and regulations to implement the CSL (35 P.S. §§ 691.1—691.1001), and section 1920-A of The Administrative Code of 1929 (71 P.S. § 510-20), which grants to the Board the power and duty to formulate, adopt and promulgate rules and regulations for the proper performance of the work of the Department. In addition, sections 101(a)(2) and 303 of the Federal Clean Water Act (CWA) (33 U.S.C.A. §§ 1251(a)(2) and 1313) sets forth requirements for water quality standards.

D. *Background and Purpose*

Section 303(c)(1) of the CWA requires that states periodically, but at least once every 3 years, review and revise as necessary, their water quality standards. This final-form rulemaking constitutes this Commonwealth's current triennial review of its water quality standards.

Pennsylvania's water quality standards, which are codified in Chapters 93 and 16 (relating to water quality toxics management strategy—statement of policy), are designed to implement the requirements of sections 5 and 402 of the CSL and section 303 of the CWA. The water quality standards consist of the designated and existing uses of the surface waters of this Commonwealth, along with the specific numeric and narrative criteria necessary to achieve and maintain those uses, and an antidegradat-

ion policy. Thus, water quality standards are instream water quality goals that are implemented by imposing specific regulatory requirements—such as treatment requirements, best management practices and effluent limitations—on individual sources of pollution.

This final-form rulemaking will revise the Chapter 93 water quality standards regulations. These regulatory revisions will clarify requirements and update the regulations to be consistent with Federal guidance where indicated. This final-form rulemaking may affect persons who discharge wastewater into surface waters of this Commonwealth or otherwise conduct activities which may impact such waters.

The Department discussed this final-form triennial rulemaking with the Water Resources Advisory Committee (WRAC) on May 23, 2019. WRAC voted to concur with the Department's recommendation to present the final-form rulemaking to the Board. In addition, the Department provided to the Agricultural Advisory Board on April 25, 2019, a regulatory review that included the draft final triennial review of water quality standards.

The regulation was adopted by the Board as a proposed rulemaking at its April 18, 2017, meeting, and was published at 47 Pa.B. 6609 (October 21, 2017) with a provision for a 70-day public comment period that was scheduled to end December 29, 2017. The Board published a correction to this proposed rulemaking at 47 Pa.B. 6727 (October 28, 2017) to revise a printer error for one of the dates and locations of the public hearings as printed in the original preamble. The Board held public hearings, for the purpose of accepting comments on the proposed rulemaking, on December 6, 8 and 14, 2017, at the Department's Regional Offices in Wilkes-Barre (Northeast Region—NERO), Harrisburg (Southcentral Region—SCRO), and Pittsburgh (Southwest Region—SWRO), respectively. Public comments were received requesting the public comment period be extended, and that an additional public hearing be held in the southeast area of this Commonwealth. This request was granted and notice of this public comment period extension and additional public hearing was published at 47 Pa.B. 7852 (December 30, 2017). The additional public hearing was held on January 30, 2018, at the Department's Southeast Regional Office (SERO) in Norristown. The extended public comment period ended on February 16, 2018. Comments were received from 776 commenters including testimony from seven witnesses at the public hearings. Comments were received from the Independent Regulatory Review Commission (IRRC). The comments received on the proposed rulemaking are summarized in Section E.

The Department has considered all public comments received on the proposed rulemaking in preparing this final-form rulemaking.

Exceptions for fishable/swimmable waters

Part of the triennial review requires that states re-examine water body segments that do not meet the fishable or swimmable uses specified in section 101(a)(2) of the CWA. The Department evaluated two of the Commonwealth's waterbodies where the uses are not currently met: 1) the Harbor Basin and entrance channel to Outer Erie Harbor/Presque Isle Bay (§ 93.9x (relating to Drainage List X)); and 2) several zones in the Delaware Estuary (§§ 93.9e and 93.9g (relating to Drainage List E; and Drainage List G)).

The swimmable use designation was deleted from the Harbor Basin and entrance channel demarcated by United States Coast Guard buoys and channel markers on Outer Erie Harbor/ Presque Isle Bay because pleasure boating and commercial shipping traffic pose a serious safety hazard in this area. This decision was further supported by a Use Attainability Analysis (UAA) study conducted by the Department of Environmental Resources (DER) in 1985. Because the same conditions and hazards exist today, no change is proposed to the designated use for Outer Erie Harbor/Presque Isle Bay. The water contact sports (WC) use remains excluded from the designated uses for this portion of Lake Erie.

In April 1989, DER cooperated with the Delaware River Basin Commission (DRBC) and the United States Environmental Protection Agency (EPA) on a comprehensive UAA study in the lower Delaware River and Delaware Estuary. This study resulted in appropriate recommendations regarding the swimmable use, which the DRBC included in its regulations for water use classifications and water quality criteria for portions of the tidal Delaware River in May 1991. The appropriate DRBC standards were referenced in §§ 93.9e and 93.9g in 1994. The WC use remains excluded from the designated uses for river miles 108.4 to 81.8 because of continuing significant impacts from combined sewer overflows (CSO), and hazards associated with commercial shipping and navigation. However, the Board received comments indicating there are multiple instances where commenters have participated in and documented water contact and conducted paddling and kayaking on this stretch of the Delaware River and Delaware Estuary. Commenters suggested water contact is an existing use and should not be removed. Others commented that although the Department cites the CSOs as a reason for excluding water contact, this should be reconsidered noting the EPA policy on CSOs that was issued in 1994 and incorporated into the CWA in 2000. Commenters also point to Long-Term Control Plans that are now under development or in place for the CSOs in this portion of the Delaware River as a reason not to remove the water contact use. As suggested by commenters, the Department will initiate an effort with the DRBC to reevaluate the applicable standards to determine if the standards should include designated use protection for water contact/swimming. An updated recommendation regarding the WC use will be considered in the next triennial review of water quality standards, following outcome of this collaboration with the DRBC.

The Board also received comments on the limited uses for Zones 3 and 4, and upper Zone 5 of the Delaware Estuary, as incorporated into §§ 93.9e and 93.9g. These less restrictive uses, described in §§ 93.9e and 93.9g as Warm Water Fishes (WWF) (Maintenance Only) and Migratory Fishes (MF) (Passage Only), for tidal portions of the basin, from river mile 108.4 to the Pennsylvania-Delaware state border, date back to the original Article 301—Water Quality Criteria that were added to the Sanitary Water Board's rules and regulations in 1967. The current designated uses within these Zones do not include propagation and thus refer to the DRBC's standards which were developed to protect fish maintenance and passage only. The commenters cite recent data and observations that suggest significant improvement and recovery is occurring in propagation for some species in portions of these Zones.

Commenters also refer to the Federally endangered Atlantic sturgeon (*Ancipenser oxyrinchus*) and other reproducing fish that currently live and breed in the tidal Delaware River (Zones 3—5) indicating the need for

higher dissolved oxygen (DO) standards, and immediately protecting these zones for fish propagation. Commenters acknowledge the DRBC's adoption of a resolution (DRBC Res. No. 2017-4) committing DRBC to: conduct further study on the inclusion of propagation as a designated use in Zones 3 and 4 and the upper portion of Zone 5 of the Delaware Estuary; prepare a schedule for completing a full draft analysis of attainability within 3 1/2 years; and issue a final rule and an implementation strategy within 6 years of the adoption of the resolution. The commenters also refer to the Delaware Riverkeeper Network's petition to the Board to upgrade Zones 3 and 4 of the Delaware Estuary to include resident and migratory fish populations. These commenters state, however, that neither of these processes should deter the Board from fulfilling its obligation under 40 CFR 131.10(h)(2)(ii) (relating to designation of uses) to update the applicable designated uses during the current triennial review. They suggest the available data are sufficient to establish an existing use of fish propagation in Zones 3 and 4 and the upper portion of Zone 5 of the Delaware Estuary, and therefore the commenters suggest that the Board, when issuing its final rule, should change the designated use of these portions of the Delaware Estuary to match their existing use.

As described in the preamble to the proposed rule-making, the demonstrated recovery in propagation for these Zones has occurred under the long-term implementation of the current criteria. So, in the short term, the existing DO criteria should provide adequate protection until more appropriate criteria can be determined. More recently, the Department has also become aware of improvements in water quality and propagation of key species through data presented from other programs, and from a report submitted to the DRBC by the Academy of Natural Sciences of Drexel University (ANSDU)—*A Review of Dissolved Oxygen Requirements of Key Sensitive Species in the Delaware Estuary* (ANSDU, November 2018; https://www.nj.gov/drbc/library/documents/Review_DOreq_KeySensSpecies_DelEstuary_ANStoDRBCnov2018.pdf)—which describes the occurrence and DO requirements of select key species, including that of the endangered species, Atlantic sturgeon (*Ancipenser oxyrinchus*). This report also shows that Atlantic sturgeon are present and reproducing in these Zones of the Delaware Estuary, further reinforcing the need to reevaluate these designated uses.

Furthermore, the National Marine Fisheries Service recently designated the Delaware Estuary as critical habitat for the Atlantic sturgeon after having listed Atlantic sturgeon (*Ancipenser oxyrinchus*) as Federally endangered in 2012 under the Endangered Species Act. 82 FR 39160 (August 17, 2017). Designating the Delaware Estuary as critical habitat confirms the presence, critical habitat, or critical dependence of Federal or State endangered or threatened species in or on a surface water of this Commonwealth. As such, the protections under § 93.4c(a)(2) (relating to implementation of antidegradation requirements) become relevant for the Delaware Estuary. The protections under § 93.4c(a)(2) will be provided, on a case-by-case basis, as National Pollutant Discharge Elimination System (NPDES) permits or other final approvals are issued or final actions are taken for activities in these waters.

As indicated in DRBC Res. No. 2017-4, the Department will continue to work with the DRBC and other signatory parties in determining the appropriate DO criteria that should apply to this section of the Delaware Estuary.

E. Summary of Responses to Comments and Changes to the Proposed Rulemaking

As a result of the public hearings and extended public comment period, the Board received comments from 776 commenters, including IRRC and EPA Region 3.

A more detailed summary of the comments submitted to the Board, and the Department's responses to those comments are available in the Comment and Response document that accompanies this final-form rulemaking.

A detailed description of the amendments to the Chapter 93 proposed rulemaking follows:

§ 93.1. *Definitions*

The Board is adding a definition for *seven-day average*, similar to the definitions for *four-day*, *monthly*, *one-hour* and *thirty-day averages*, as currently found at § 93.1. *Seven-day average* is defined as the arithmetic average of the samples collected during a consecutive 7-day period.

§ 93.7. *Specific water quality criteria—Table 3*

The Board is changing the following provisions in Table 3 criteria:

Ammonia criteria: In April 2013, the EPA released final recommendations for *Aquatic Life Ambient Water Quality Criteria for Ammonia—Freshwater 2013* (EPA 822-R-13-001). This document can be accessed at <https://www.epa.gov/wqc/aquatic-life-criteria-ammonia>.

These recommendations are intended as guidance to states, territories and authorized tribes in developing water quality standards to protect aquatic life from exposure to ammonia. The Department assessed the peer-reviewed technical documentation for the recommended ammonia criteria and found it was scientifically sound and appropriate for the surface waters of the Commonwealth and, as such, the Department recommended revising the Table 3 Ammonia criteria to be fully consistent with the EPA's 2013 recommended *Aquatic Life Ambient Water Quality Criteria for Ammonia—Freshwater 2013* as part of triennial review proposed rulemaking.

It should be noted that during the development of this final-form rulemaking, the EPA announced that there was a typesetting error discovered in the original EPA *Aquatic Life Ambient Water Quality Criteria for Ammonia—Freshwater 2013* document (EPA 822-R-13-001). The equation to calculate the ammonia criterion maximum concentration (CMC) where *Oncorhynchus* species are absent was missing two parentheses which are needed to correctly calculate the criterion. This error (on page 42 of the EPA's 2013 document) did not affect the results for the criterion values presented in the original 2013 document, and the equation is correct elsewhere in the original 2013 document. The new publication number for the corrected 2013 Ammonia Criteria document is EPA-822-R-18-002.

Eight commenters indicated their support for the proposed ammonia criteria.

One commenter stated that the Department's justification for recommending the ammonia criteria was the protection of mussels, and the commenter went on to cite a Fish and Boat Commission (PFBC) study that documents the presence of endangered mussels in only 15 of Pennsylvania's 67 counties. The commenter stated that they do not operate in any of these 15 counties and they concluded that the proposed criteria are overly restrictive because there are so many areas where endangered mussel populations are not present. This same commenter did not recommend adoption of the criteria

Statewide as sensitive mussel and salmonid populations do not occur throughout this Commonwealth. The commenter states that if the ammonia criteria are promulgated for application throughout Pennsylvania, then permittees that are not located on sensitive streams would then need to request site-specific criteria. The commenter reiterates that there are 52 counties where sensitive mussels do not exist, and therefore there may be a lot of permittees that could potentially apply for a site-specific criterion, thereby creating a significant burden to both the permittees and the Commonwealth's resources. The justification for proposing this criterion is that the newly developed Federal recommendations expand the freshwater toxicity database for ammonia and the national criteria recommendations are protective of the aquatic community as a whole (that is, not limited to sensitive freshwater mollusk species and salmonids). The Department agrees with the cited PFBC study that there are endangered mussels in 15 Pennsylvania counties, however there are approximately 65 species of sensitive unionid mussels throughout the entire Commonwealth along with other ammonia-sensitive species, and therefore the criteria should be promulgated Statewide.

The EPA and other commenters indicated that the proposed criterion was not consistent with how the criterion is expressed in the EPA's 2013 recommended *Aquatic Life Ambient Water Quality Criteria for Ammonia—Freshwater 2013* (EPA 822-R-13-001). Based on these comments, the Board made changes in this final-form rulemaking to the ammonia criteria in Table 3. First, a clarification is made to the 30-day average period for the Criteria Continuous Concentration (CCC) to specify that it is to be calculated as a "rolling" average. Second, language is being modified to better describe that the highest 4-day average within the 30-day averaging period should not be more than 2.5 times the CCC (for example, 2.5×0.2 mg TAN/L at pH 9 and 20°C or 0.5 mg TAN/L) more than once in 3 years on average. Third, the Board changed the sample inputs for pH and TAN/L used in the previous sample calculations. Finally, the Board added language describing how to determine the pH and temperature values that are used in the equations to derive the appropriate ammonia criteria.

Bacteria criteria: The Board proposed amendments to the bacteria criteria that will include replacing the current fecal coliform-based criteria for WC during the swimming season (May 1 to September 30) with the EPA's recommended 2012 *Recreation Water Quality Criteria* (RWQC) (EPA 820-F-12-058) in the Commonwealth's surface waters. The Department assessed the peer-reviewed technical documentation for the EPA's recommended recreational criteria for bacteria and found it was scientifically sound and appropriate for the surface waters of the Commonwealth. The 2012 RWQC document can be accessed at <https://www.epa.gov/sites/production/files/2015-10/documents/rwqc2012.pdf>.

Two commenters indicated their general support of the Board's proposed amendments to the bacteria criteria. One commenter expressed the need for the thoughtful promulgation of appropriate criteria designed to be protective of the recreational use. Three commenters agreed with the Board's selection of *E. coli* as the indicator of fecal contamination during the swimming season, and one commenter cited scientific studies to offer further support for the Board. The EPA was pleased that the Board is adopting *E. coli* criteria to protect recreational waters, however the EPA noted that the proposed criterion is not fully consistent with the criteria expressions in the 2012 RWQC. Other commenters

concurred with the EPA's concerns. The Board changed language in the Table 3 Bac₁ criterion relating to the magnitude, duration, and frequency of the proposed bacteria criteria described in the geometric mean, and to include the missing reference to "colony forming units" to be consistent with the EPA's national recommendations and criteria expression. Commenters expressed concern that natural sources of *E. coli* could make it difficult for dischargers to meet the more stringent proposed standard and they suggested that a feasibility analysis should be conducted where there are no human activities. Data indicate that using *E. coli* will not result in an uncharacteristically high number of criteria exceedances. Other commenters stated concern that some industrial sectors may not be able to meet the criteria due to the presence of bacteria that are nonhuman and nonfecal in origin. The Department refers to the EPA publications which provide specific guidance for these concerns in its response on how to determine whether the standard is being attained where sources are characterized predominantly as nonhuman or nonfecal.

Many commenters expressed concern that the proposed criteria are confusing because they rely on two different indicators of fecal contamination, depending on the time of the year. It was also noted that it would be difficult to compare results and maintain consistent data year-round if the indicator is not the same year-round. Some of the commenters requested that the Board adopt *E. coli* standards that would apply year-round. The Board notes that two different indicators are already currently being used simultaneously, so there should be no added confusion. By collecting both *E. coli* and fecal coliform results, the samples could be compared to determine if there is any correlation between the two indicators. There is no change made in this triennial review for the nonswimming season part of the Bac₁ criteria. For future consideration, the EPA is conducting research on a secondary contact recreational use criterion, which will apply to limited body contact, and the Department will evaluate the applicability of that criteria for the Commonwealth when it becomes available. Commenters stated that having different standards for the swimming and nonswimming seasons could be confusing to the regulated community. The existing regulations have different standards for the swimming and nonswimming seasons and there are no implementation problems.

Comments were received recommending the Board adopt a more protective risk paradigm. The 2012 RWQC provided two sets of criteria using *E. coli* as the indicator, and the EPA states that adoption of either set of criteria would adequately protect the designated use of primary contact recreation.

§ 93.8c. *Human health and aquatic life criteria for toxic substances*

Language is added to subsection (a) on this final-form rulemaking to clarify that local water quality conditions used in calculating equation-based criteria will be gathered using Department data collection protocols.

The human health criteria in Table 5 was proposed to be updated to reflect the latest scientific information and implementation of existing EPA policies in the *Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health (2000)* (EPA-822-B-00-004). The proposed updates included new scientifically based exposure factors for body weight (80 kilograms), drinking water consumption rate (2.4 liters per day) and fish consumption rate (22.0 grams per day). After a thorough review of the 94 individual recommended criteria updates

by the EPA, the updated criteria for 73 compounds and the addition of 11 new human health compounds to Table 5 were proposed to be adopted. There were ten EPA-recommended criteria that were the same as the criteria currently in Table 5, so therefore, no change was recommended for these criteria.

Pollutants in Table 5 were proposed to be clarified to have human health criteria that will remain based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day for the protection of a 70-kilogram person, due to the unavailability of information needed to calculate criteria according to new exposure assumptions.

Based on the EPA comments, several differences between the values of the proposed changes in Table 5 and the EPA-recommended values have been identified, particularly with respect to nickel, chlorophenoxy herbicide (2,4-D), 1,1-dichloroethylene and chloroform. In response to these comments, the Board will not make the proposed amendment to nickel. It will remain at its existing value of 610 ug/L.

The EPA identified that the proposed 1,000 ug/L criterion for chlorophenoxy herbicide (2,4-D) was an error. EPA's recommended criterion for chlorophenoxy herbicide (2,4-D) is rounded from 1,371 ug/L to 1,300 ug/L. This compound has low potential for bioaccumulation (that is, low exposure from ingestion of fish and shellfish), and the EPA has not established bioaccumulation factors (BAF's) for chlorophenoxy herbicide (2,4-D) according to trophic levels due to lack of data. The Department disagrees with the EPA's rounding of the criterion, as the suggested rounding does not follow the generally accepted rounding conventions. Therefore, the Board is adopting a final criterion of 1,400 ug/L.

The EPA recommended 300 ug/L for 1,1-dichloroethylene. Under the 1986 EPA *Guidelines for Carcinogen Risk Assessment*, 1,1-dichloroethylene is classified as a Group C compound, "possible human carcinogen." Because the EPA has not identified a cancer slope factor for this compound, the Department applied a safety factor of 10 to the recommended criterion of 300 ug/L for protection from carcinogenic effects. Because the difference between the recalculated and existing criterion is insignificant, the existing criterion of 33 ug/L is considered protective. The Board inadvertently proposed 30 ug/L, but is maintaining the existing criterion.

There is a significant difference between the EPA-recommended criterion for chloroform and the Board's proposed criterion. Due to the significance of the difference between the values, and the absence of adequate documentation to support this difference, the Board is withdrawing its proposed change to chloroform. The Department will evaluate whether a change to the standard is appropriate during the next triennial review.

The EPA additionally commented on 11 criteria developed by the Department for which there are currently no EPA-recommended criteria. The EPA requested additional clarification as to the scientific basis for these proposed revisions, including criteria for: 1,2 cis dichloroethylene; acetone; boron; formaldehyde; methyl ethyl ketone; metolachlor; resorcinol; 1,2,3-trichloropropane; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; and xylene. The EPA, however, did not comment on the proposed barium criterion. The Board is withdrawing the proposed criteria for these substances due to the limited documentation on the development and justification for revising the criteria. Instead, the Department will evaluate these criteria in the next triennial review.

The EPA noted several differences between their recommended criteria and the Board's proposed criteria, which relate to significant figures. Thus, the Board modified the criteria for the following pollutants to be consistent with the EPA's recommendations: 1,2-Diphenylhydrazine; cyanide; 2 methyl-4,6-dinitrophenol; acrolein; 1,3-dichlorobenzene; hexachlorocyclopentadiene; and endrin aldehyde.

The EPA also commented that the Board should adopt other criteria for which the EPA has published new or updated CWA section 304(a) recommendations since May 30, 2000. As revised in 2015, the EPA's regulations governing water quality standards provide that "if a State does not adopt new or revised criteria for parameters for which EPA has published new or updated CWA section 304(a) criteria, then the State shall provide an explanation for why it did not when it submits the results of its triennial review to the Regional Administrator." See 40 CFR 131.20(a) (relating to State review and revision of water quality standards) and 80 FR 51020 and 51028 (August 21, 2015), explaining that this requirement applies to "new or revised criteria for parameters for which the EPA has published new or updated CWA section 304(a) criteria recommendations since May 30, 2000." Specifically, the Board did not propose criteria for the following EPA recommendations: 2016 recommended aquatic life criteria for selenium (freshwater); 2016 recommended aquatic life criteria for cadmium; 2012 recommended aquatic life criteria for carbaryl; 2004 recommended aquatic life criteria for tributyltin (TBT); or 2002 recommended human health criteria for selenium, nitrosodibutylamine (CAS No. 924163), nitrosodiethylamine (CAS No. 55185), and nitrosopyrrolidine (CAS No. 930552).

The Department will evaluate these referenced recommended criteria during the next triennial to determine appropriate recommendations for waters in the Commonwealth.

Although there is no change on this final-form rulemaking, the Board is finalizing a proposed regulation for the Chromium VI aquatic life criterion to be consistent with the EPA recommendations in *1995 Updates: Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water* (EPA-820-B-96-001), available at <https://nepis.epa.gov/Exe/ZyPDF.cgi/20002924.PDF?Dockey=20002924.PDF>.

§ 93.8d. *Development of site-specific water quality criteria*

Supportive comments were received on the proposed rulemaking to add to § 93.8d(c) that the Department may require the use of the Biotic Ligand Model (BLM) for the development of new or updated site-specific criteria for copper in freshwater systems. Additionally, comments were received asking that the Board identify in this final-form rulemaking the circumstances when the use of the BLM will be required. The EPA commented on related revisions to 25 Pa. Code § 16.24 (relating to metals criteria) in the proposed Chapter 16 Water Quality Toxics Management Strategy—Statement of Policy that Pennsylvania should clarify that the BLM can be required for development of site-specific criteria. The EPA also commented that Pennsylvania should consider adopting Statewide freshwater copper criteria based on the BLM. The Board acknowledges the BLM is the most current science for development of the criteria for copper, as opposed to the Water-Effect Ratio (WER) methodology. Although the Board is not adopting Statewide criteria based on the BLM in this final-form rulemaking, this final-form rulemaking adds clarification that the BLM

will be required for development of site-specific water quality criteria for copper in freshwater systems.

Corrections to stream drainage lists

Amendments were proposed to the drainage lists to clarify stream names and segment boundaries and to reformat portions of drainage lists. Reformatting large basins to consolidate portions of Chapter 93 that have the same designated use enables readers to view that entire basin within a page or two and it should also decrease the errors in the drainage lists. In addition, the Board modified stream names in the drainage lists to be consistent with the National Hydrography Dataset (NHD) flowline. The Board made corrections to the designated uses of some streams where it has sufficient documentation to demonstrate that an error has occurred and what the correct designated use ought to be, based upon previous Department recommendations. These additional changes are nonsubstantive because they do not change any current designated uses in the drainage lists.

A comprehensive description of the comments received and the responses that the Department provided are available in the Comment and Response Document. Numerous comments were received pertaining to these proposed corrections to the drainage lists. The EPA requested clarification on several revisions to ensure that the designated use will not be altered. Commenters, in response to the EPA's comment, stated that a UAA needs to be conducted every time a stream is being downgraded. Commenters further concurred with the EPA's concerns about potential downgrades in Drainage Lists G, L, M, O and R. The Department did not complete a UAA as it is not recommending any changes or less restrictive uses to the designations of any waters as a result of this rulemaking. Rather, the Department is merely correcting documented errors in the drainage lists.

§ 93.9b. *Drainage List B*

One commenter noted that according to the Geographic Names Information System data for Pennsylvania updated in July 2017, the stream source for the Lackawaxen River is the confluence of West Branch Lackawaxen River and Dyberry Creek at 41.57751° N/75.253680° W. The NHD flowline incorrectly identifies the origin of Lackawaxen River at the confluence of West Branch Lackawaxen River and Van Auken Creek. Van Auken Creek is a tributary to West Branch Lackawaxen River and should have a 4 for hydrological order rather than a 3, as indicated in the NHD. The Department notified the United States Geological Survey, the agency that manages the NHD. The NHD Flowline has since been corrected. Corresponding corrections to this section have been made in the Annex A of this final-form rulemaking.

§ 93.9g. *Drainage List G*

Forty-five commenters requested a more thorough explanation of the Board's proposal to restore the correct designated use to the waters that are historically known in Pennsylvania as Goose Creek. Most of these commenters wanted to know if the Department has considered a UAA, as they perceived this correction to be a redesignation to a less restrictive use. A final-form rulemaking was correctly published at 15 Pa.B. 544 (February 16, 1985) which redesignated the aquatic life use of the basin locally known as Goose Creek from Trout Stocking (TSF) to WWF. The correct aquatic life designated use for the "Goose Creek" portion of Chester Creek is WWF. In the Comment and Response Document, the Department's response includes a comprehensive summary explaining

how a subsequent rulemaking, which was finalized at 27 Pa.B. 3050 (June 28, 1997), effectively transposed the designated uses for Goose Creek and Unnamed Tributary 00605 (UNT 00605) to East Branch Chester Creek. The designation for UNT 00605 to East Branch Chester Creek is being corrected to TSF in this final-form rulemaking. This change is included as part of the basin designation for East Branch Chester Creek. The designation in the existing regulations appears incorrectly as WWF for 4-Westtown Run in this section.

This correction for Goose Creek in the Chester Creek basin is not a redesignation to a less restrictive use. In this most recent review, the Department is not relying on the Commonwealth's water quality standards in § 93.4(b) and does not need to complete a UAA because Goose Creek is not amended to a less restrictive use as part of this triennial review. This correction rectifies the transposition of designated uses that occurred in 1997 and restores the appropriate designation as originally published at 15 Pa.B. 544.

Comments were received pertaining to UNT 00322 to East Branch Brandywine Creek for which the aquatic life use is currently designated High Quality (HQ) Waters-TSF, Migratory Fishes (HQ-TSF, MF). The commenters questioned whether the aquatic life use of this stream was intended to be redesignated. This rulemaking does not change the designated use of UNT 00322. To clarify, UNT 00322 has the same designation (HQ-TSF, MF), and the mouth of UNT 00322 is the downstream limit of the zone that includes the basins of Shamona Creek and other tributaries, including UNT 00322 in this zone to East Branch Brandywine Creek. This is described in the Comment and Response Document that accompanies this final-form rulemaking.

Commenters noted their perception that Beaver Creek was being redesignated. The designated use of Beaver Creek is not being changed.

§ 93.9o. *Drainage List O*

An entry of Migratory Fishes (MF) was added to this section for the Trout Run (stream code = 10815) basin from the water supply dam to the mouth which includes its designated aquatic life use as HQ-Cold Water Fishes (CWF), as it was missing from the drainage list. A comment was received stating that the Department needs to provide additional documentation to support this revision as it is unclear from the information in the preamble of the proposed rulemaking that this is the correct designation. The entire Trout Run basin, including the lower portion from the dam to the mouth, was designated as a conservation area. The Conservation Areas were generally converted to High Quality Waters use and Wilderness Trout Waters to Exceptional Value Water use in a final rulemaking in 1979. Therefore, the aquatic life use of the entire basin was established as HQ-CWF. The portion of the basin upstream of the water supply dam was then classified as a Wilderness Trout Stream, and the aquatic life use of that portion of the basin was subsequently converted to EV in 1979.

The MF designated use for Trout Run was added as a result of the Commonwealth's 2009 Triennial Review of Water Quality Standards. A basin-wide MF designation was added to the Atlantic slope basin (drainage lists A through O and Z), and was published at 39 Pa.B. 2523 (May 16, 2009).

§ 93.9r. *Drainage List R*

One commenter noted that the proposed rulemaking deleted the stream name for Mill Run but did not provide

any indication as to why the listing is erroneous. The stream in question is actually Mill Creek (stream code = 49706). The preamble erroneously referred to "Mill Run" not "Mill Creek" as listed in proposed amendments to this section.

F. *Benefits, Costs and Compliance*

Benefits

Overall, the Commonwealth, its citizens and natural resources will benefit from these amendments because they provide the appropriate level of protection to preserve the integrity of existing and designated uses of surface waters in the Commonwealth.

Protecting water quality also provides economic value to present and future generations in the form of clean water for multiple water supply uses, recreational opportunities, and human health and aquatic life protection. It is important to realize all benefits and to ensure that activities that depend on surface water or that may affect the chemical, biological and physical integrity of those waters occur in a manner that is environmentally, socially and economically sound.

Compliance costs

The amendments to Chapter 93 may impose additional compliance costs on the regulated community. These regulatory changes are necessary to improve total pollution control. The expenditures necessary to meet new compliance requirements may exceed that which is required under existing regulations.

Persons conducting or proposing activities or projects must comply with the regulatory requirements relating to designated and existing uses and updated water quality criteria. Persons expanding a discharge or adding a new discharge point to a stream could be adversely affected if they need to provide a higher level of treatment to meet more stringent criteria for selected parameters. These increased costs may take the form of higher engineering, construction or operating costs for facilities. Treatment costs and best management practices are site-specific and depend upon the size of the discharge in relation to the size of the stream and many other factors. Therefore, it is not possible to precisely predict the actual change in costs. Economic impacts would primarily involve the potential for higher treatment costs for implementing new or more stringent water quality criteria. The initial costs from technologically improved treatments or best management practices may be offset over time by potential savings from and increased value of improved water quality.

Compliance assistance plan

This final-form rulemaking has been developed as part of an established program that has been implemented by the Department since the early 1980s. This final-form rulemaking is consistent with and based on existing Department regulations relating to compliance.

This final-form rulemaking will be implemented, in part, through the NPDES permitting program. No additional compliance actions are anticipated. Staff is available to assist regulated entities in complying with the regulatory requirements if questions arise.

Paperwork requirements

This final-form rulemaking should have no significant paperwork impact on the Commonwealth, its political subdivisions or the private sector.

G. Pollution prevention

The Federal Pollution Prevention Act of 1990 (42 U.S.C.A. §§ 13101—13109) established a National policy that promotes pollution prevention as the preferred means for achieving state environmental protection goals. The Department encourages pollution prevention, which is the reduction or elimination of pollution at its source, through the substitution of environmentally-friendly materials, more efficient use of raw materials or the incorporation of energy efficiency strategies. Pollution prevention practices can provide greater environmental protection with greater efficiency because they can result in significant cost savings to facilities that permanently achieve or move beyond compliance. This final-form rulemaking has incorporated the following pollution prevention provisions and incentives:

Water quality standards are a major pollution prevention tool because they protect water quality and designated and existing uses. The final regulations will be implemented through the Department's permit and approval actions. For example, the NPDES bases effluent limitations and best management practices on the water uses of the stream and the water quality criteria necessary to protect and maintain those uses.

H. Sunset Review

The Board is not establishing a sunset date for these regulations, since they are needed for the Department to carry out its statutory authority. The Department will continue to closely monitor these regulations for their effectiveness and recommend updates to the Board as necessary.

I. Regulatory Review

Under Section 5(a) of the Regulatory Review Act (71 P.S. § 745.5(a)), on October 6, 2017, the Department submitted a copy of the notice of proposed rulemaking, published at 47 Pa.B. 6609, with related corrections and updates published at 47 Pa.B. 6727 and 47 Pa.B. 7852, to IRRC and to the Chairpersons of the Senate and House Environmental Resources and Energy Committees for review and comment.

Under Section 5(c) of the Regulatory Review Act, IRRC and the Committees were provided with copies of the comments received during the public comment period, as well as other documents when requested. In preparing the final-form rulemaking, the Department has considered all comments from IRRC, the House and Senate Committees and the public.

On January 22, 2020, the House Environmental Resources and Energy Committee issued a disapproval notification of this final-form rulemaking, triggering a 14-day review period after IRRC consideration of the rulemaking under section 5.1(j.2) of the Regulatory Review Act (71 P.S. § 745.5a(j.2)). Under section 5.1(e) of the Regulatory Review Act, IRRC met on January 31, 2020, and approved the final-form rulemaking.

On February 4, 2020, the House Environmental Resources and Energy Committee voted to report a concurrent resolution to disapprove the final-form rulemaking approved by IRRC to the General Assembly under section 7(d) of the Regulatory Review Act (71 P.S. § 745.7(d)). The concurrent resolution was not passed by the General Assembly within 30 calendar days or 10 legislative days from the reporting of the concurrent resolution, and therefore this final-form regulation may be promulgated.

J. Findings of the Board

The Board finds that:

(1) Public notice of proposed rulemaking was given under sections 201 and 202 of the act of July 31, 1968 (P.L. 769, No. 240) (45 P.S. §§ 1201 and 1202), known as the Commonwealth Documents Law and regulations promulgated thereunder at 1 Pa. Code §§ 7.1 and 7.2 (relating to notice of proposed rulemaking required; and adoption of regulations).

(2) A public comment period was provided as required by law. In addition, Board hearings were held. All comments were considered.

(3) This final-form rulemaking does not enlarge the purpose of the proposed rulemaking published at 47 Pa.B. 6609, 47 Pa.B. 6727 and 47 Pa.B. 7852.

(4) These regulations are necessary and appropriate for administration and enforcement of the authorizing acts identified in Section C of this order.

K. Order of the Board

The Board, acting under the authorizing statutes, orders that:

(a) The regulations of the Department, 25 Pa. Code Chapter 93, are amended by amending §§ 93.1, 93.7, 93.8a, 93.8c—93.8e, 93.9b—93.9g, 93.9j—93.9t, 93.9v—93.9x and 93.9z to read as set forth in Annex A with ellipses referring to the existing text of the regulations.

(Editor's Note: Section 93.1 was not included in the proposed rulemaking published at 47 Pa.B. 6609.)

(b) The Chairperson of the Board shall submit this order and Annex A to the Office of General Counsel and the Office of Attorney General for approval and review as to legality and form, as required by law.

(c) The Chairperson shall submit this order and Annex A to IRRC and the Senate and House Environmental Resources and Energy Committees as required by the Regulatory Review Act.

(d) The Chairperson of the Board shall certify this order and Annex A and deposit them with the Legislative Reference Bureau, as required by law.

(e) This order shall take effect immediately upon publication in the *Pennsylvania Bulletin*.

PATRICK McDONNELL,
Chairperson

(Editor's Note: See 50 Pa.B. 1001 (February 15, 2020) for IRRC's approval order.)

(Editor's Note: For a statement of policy relating to this final-form rulemaking, see 50 Pa.B. 3485 (July 11, 2020).)

Fiscal Note: Fiscal Note 7-534 remains valid for the final adoption of the subject regulations.

Annex A

TITLE 25. ENVIRONMENTAL PROTECTION
PART I. DEPARTMENT OF ENVIRONMENTAL PROTECTION
Subpart C. PROTECTION OF NATURAL RESOURCES
ARTICLE II. WATER RESOURCES
CHAPTER 93. WATER QUALITY STANDARDS
GENERAL PROVISIONS

§ 93.1. Definitions.

* * * * *

Risk management—The process of evaluation and selection between alternative regulatory options. Risk management decisions may include consideration of risk assessment, analytical, socio-economic and political factors.

Seven-day average—The arithmetic average of the samples collected during a consecutive 7-day period.

State game propagation and protection area—An area established by the Game Commission for the propagation and protection of game or wildlife wherein game or wildlife may not be hunted, pursued, disturbed, molested, killed or taken at any time except as authorized by the Game Commission.

* * * * *

WATER QUALITY CRITERIA

§ 93.7. Specific water quality criteria.

(a) Table 3 displays specific water quality criteria and associated critical uses. The criteria associated with the Statewide water uses listed in § 93.4, Table 2 apply to all surface waters, unless a specific exception is indicated in §§ 93.9a—93.9z. These exceptions will be indicated on a stream-by-stream or segment-by-segment basis by the words “Add” or “Delete” followed by the appropriate symbols described elsewhere in this chapter. Other specific water quality criteria apply to surface waters as specified in §§ 93.9a—93.9z. All applicable criteria shall be applied in accordance with this chapter, Chapter 96 (relating to water quality standards implementation) and other applicable State and Federal laws and regulations.

TABLE 3

Parameter	Symbol	Criteria	Critical Use*
Alkalinity	Alk	Minimum 20 mg/l as CaCO ₃ , except where natural conditions are less. Where discharges are to waters with 20 mg/l or less alkalinity, the discharge should not further reduce the alkalinity of the receiving waters.	CWF, WWF, TSF, MF
Ammonia Nitrogen	Am	In freshwater, the concentration of total ammonia nitrogen (TAN) shall not exceed (more than once in three years on average), the concentration calculated (in milligrams of TAN per liter) by the following: 1-hour average Criteria Maximum Concentration (CMC) acute criterion equation: $CMC = \min \left(\left(\frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}} \right), \left(0.7249 \times \left(\frac{0.0114}{1 + 10^{7.204 - pH}} + \frac{1.6181}{1 + 10^{pH - 7.204}} \right) \times (23.12 \times 10^{0.036 \times (20 - T)}) \right) \right)$ 30-day rolling average Criteria Continuous Concentration (CCC) chronic criterion equation: $CCC = 0.8876 \times \left(\frac{0.0278}{1 + 10^{7.688 - pH}} + \frac{1.1994}{1 + 10^{pH - 7.688}} \right) \times (2.126 \times 10^{0.028 \times (20 - \text{MAX}(T, 7)))}$ The highest 4-day average within the 30-day averaging period should not be more than 2.5 times the CCC (e.g. 2.5 × 0.2 mg TAN/L at pH 9 and 20°C or 0.5 mg TAN/L) more than once in 3 years on average. The pH and temperature used to derive the appropriate ammonia criteria shall be determined by instream measurements or best estimates, based on reference waters that are representative of the median pH and temperature of the receiving water. Instream measurements for pH and temperature will be gathered using department data collection protocols.	CWF, WWF, TSF, MF
Bacteria	Bac ₁	(<i>Escherichia coli</i> colony forming units per 100 milliliters (CFU per 100 ml)) During the swimming season (May 1 through September 30), the maximum <i>E. coli</i> level shall be a geometric mean of 126 CFU per 100 ml. The geometric mean for the samples collected in the waterbody should not be greater than 126 CFU per 100 ml in any 30-day interval. There should not be greater than a 10% excursion frequency of 410 CFU per 100 ml for the samples collected in the same 30-day duration interval. (Fecal coliforms/100 ml) For the remainder of the year, the maximum fecal coliform level shall be a geometric mean of 2,000 CFU per 100 ml based on a minimum of five consecutive samples collected on different days during a 30-day period.	WC
Chloride	Ch	Maximum 250 mg/l.	PWS

* * * * *

§ 93.8a. Toxic substances.

* * * * *

(b) Water quality criteria for toxic substances shall be established as described under Chapter 16 (relating to water quality toxics management strategy—statement of policy). The Department will develop water quality criteria for toxic substances not listed in Chapter 93, Table 5 in accordance with § 93.8d (relating to development of site-specific water quality criteria) and Chapter 16. The Department will maintain a publicly available online table of site-specific human health and aquatic life criteria that have been recently developed or adopted by the Department based on approved methodologies and the best scientific information currently available. For any analytical procedures or detection limits that are not EPA approved, the approved analytical procedures and detection limits for these substances will also be listed in Chapter 16. Chapter 16, along with changes made to it, is hereby specifically incorporated by reference.

* * * * *

(j) The requirements for discharges to and antidegradation requirements for the Great Lakes System are as follows:

* * * * *

(3) Statewide antidegradation requirements in this chapter and Chapter 96 (relating to water quality standards implementation) as applicable, apply to all surface waters of the Great Lakes System.

* * * * *

§ 93.8c. Human health and aquatic life criteria for toxic substances.

(a) Table 5 and the table of site-specific criteria maintained by the Department list the aquatic life and human health criteria for toxic substances which the Department uses in development of effluent limitations in NPDES Permits and for other purposes. The human

health criteria, which include probable modes of exposure (such as, but not limited to ingestion from drinking water and fish consumption, inhalation and dermal absorption), are further defined as to the specific effect (that is, cancer or threshold health effects). For those aquatic life criteria which are a function of local water quality conditions and are specified as a formula, such as several of the heavy metals, the values used for the local water quality condition to derive the appropriate water quality criteria shall be determined by instream measurements or best estimates based on reference waters that are representative of the median concentrations or conditions of the receiving water for the applicable time period and design conditions. Instream measurements for the water quality condition will be gathered using department data collection protocols. The priority pollutants are a set of specific chemical pollutants regulated by EPA. The priority pollutant numbers (PP NO) used by the EPA to identify priority pollutants are included in Table 5 for reference purposes. The toxics without a PP NO are nonpriority pollutants or State-derived criteria.

(b) Some of these criteria may be superseded for the Delaware Estuary, Ohio River Basin, Lake Erie Basin, and Genesee River Basin under interstate and international compact agreements with the Delaware River Basin Commission, Ohio River Valley Sanitation Commission and International Joint Commission, respectively. Water quality criteria for the Great Lakes System are contained in § 93.8e (relating to special criteria for the Great Lakes System) and Table 6 (relating to Great Lakes Aquatic Life and Human Health Criteria). Criteria in Table 5 may apply to the Great Lakes System for those substances not listed in Table 6. Criteria may be developed for the Great Lakes System for substances other than those listed in Tables 5 and 6, under the methodologies in § 16.61 (relating to special provisions for the Great Lakes system).

TABLE 5
WATER QUALITY CRITERIA FOR TOXIC SUBSTANCES

PP NO	Chemical Name	CAS Number	Fish and Aquatic Life Criteria		Human Health Criteria (ug/L)
			Criteria Continuous Concentrations (ug/L)	Criteria Maximum Concentration (ug/L)	
1M	ANTIMONY	07440360	220	1100	5.6 † H
2M	ARSENIC	07440382	150 (As3+)	340 (As3+)	10 H
3M	BERYLLIUM	07440417	N/A	N/A	N/A -
4M	CADMIUM	07440439	*{1.101672-(ln[H]×0.041838)}× Exp(0.7409×ln[H]-4.719)	*{1.136672-(ln[H]×0.041838)} × Exp(1.0166×ln[H]-3.924)	N/A -
			(ex: @H=100, CCC=0.25)	(ex: @H=100, CMC=2.0)	
5M	CHROMIUM III	16065831	*0.860×Exp(0.819×ln[H]+0.6848)	*0.316×Exp(0.819×ln[H]+3.7256)	N/A -
			(ex: @H=100, CCC=74)	(ex: @H=100, CMC=570)	
5M	CHROMIUM VI	18540299	*11	*16	N/A -
6M	COPPER	07440508	*0.960×Exp(0.8545×ln[H]-1.702)	*0.960×Exp(0.9423×ln[H]-1.700)	N/A -
			(ex: @H=100, CCC=9.0)	(ex: @H=100, CMC=13)	
7M	LEAD	07439921	*{1.46203-(ln[H] ×0.145712)} × Exp(1.273×ln[H]-4.705)	*{1.46203-(ln[H]×0.145712)} × Exp(1.273×ln[H]-1.460)	N/A -
			(ex: @H=100, CCC=2.5)	(ex: @H=100, CMC=65)	
8M	MERCURY	07439976	*0.77 (Hg2+)	*1.4 (Hg2+)	0.05 H
9M	NICKEL	07440020	*0.997×Exp(0.846×ln[H]+0.0584)	*0.998×Exp(0.846×ln[H]+2.255)	610 † H
			(ex: @H=100, CCC=52)	(ex: @H=100, CMC=470)	
10M	SELENIUM	07782492	*4.6	N/A	N/A -
11M	SILVER	07440224	N/A	*0.850×Exp(1.72×ln[H]-6.590)	N/A -
				(ex: @H=100, CMC=3.2)	
12M	THALLIUM	07440280	13	65	0.24 † H
13M	ZINC	07440666	*0.986×Exp(0.8473×ln[H]+0.884)	*0.978×Exp(0.8473×ln[H]+0.884)	N/A -
			(ex: @H=100, CCC=120)	(ex: @H=100, CMC=120)	
14M	CYANIDE, FREE	00057125	5.2	22	4 H
1A	2-CHLOROPHENOL	00095578	110	560	30 H
2A	2,4-DICHLOROPHENOL	00120832	340	1700	10 H
3A	2,4-DIMETHYLPHENOL	00105679	130	660	100 H
4A	4,6-DINITRO-o-CRESOL (2 METHYL-4,6-DINITROPHENOL)	00534521	16	80	2 H
5A	2,4-DINITROPHENOL	00051285	130	660	10 H
E	DINITROPHENOLS	25550587	N/A	N/A	10 H
6A	2-NITROPHENOL	00088755	1600	8000	N/A -
7A	4-NITROPHENOL	00100027	470	2300	N/A -

PP NO	Chemical Name	CAS Number	Fish and Aquatic Life Criteria			Human Health Criteria (ug/L)
			Criteria Continuous Concentrations (ug/L)	Criteria Maximum Concentration (ug/L)		
8A	P-CHLORO-m-CRESOL (3 METHYL-4-CHLOROPHENOL)	00059507	30	160	500	H
9A	PENTACHLOROPHENOL	00087865	Exp(1.005×[pH]-5.134) @pH= 6.5 7.8 9.0 Crit= 4.1 15 50	Exp(1.005×[pH]-4.869) @pH= 6.5 7.8 9.0 Crit= 5.3 19 65	0.03	CRL
10A	PHENOL	00108952	N/A	N/A	4000	H
E	2,4,5-TRICHLOROPHENOL	00095954	N/A	N/A	300	H
11A	2,4,6-TRICHLOROPHENOL	00088062	91	460	1.5	CRL
1V	ACROLEIN	00107028	3.0	3.0	3	H
2V	ACRYLONITRILE	00107131	130	650	0.06	CRL
3V	BENZENE	00071432	130	640	0.58	CRL
5V	BROMOFORM	00075252	370	1800	7.0	CRL
6V	CARBON TETRACHLORIDE	00056235	560	2800	0.4	CRL
7V	CHLOROBENZENE	00108907	240	1200	100	H
8V	CHLORODIBR MOMETHANE	00124481	N/A	N/A	0.8	CRL
9V	CHLOROETHANE	00075003	N/A	N/A	N/A	-
10V	2-CHLOROETHYL VINYL ETHER	00110758	3500	18000	N/A	-
11V	CHLOROFORM	00067663	390	1900	5.7	H
12V	DICHLOROBROMOMETHANE	00075274	N/A	N/A	.95	CRL
14V	1,1-DICHLOROETHANE	00075343	N/A	N/A	N/A	-
15V	1,2-DICHLOROETHANE	00107062	3100	15000	9.9	CRL
16V	1,1-DICHLOROETHYLENE	00075354	1500	7500	33.0	H
17V	1,2-DICHLOROPROPANE	00078875	2200	11000	0.90	CRL
18V	1,3-DICHLOROPROPENE	00542756	61	310	0.27	CRL
19V	ETHYLBENZENE	00100414	580	2900	68	H
20V	METHYL BROMIDE	00074839	110	550	100	H
21V	METHYL CHLORIDE	0074873	5500	28000	N/A	-
22V	METHYLENE CHLORIDE	00075092	2400	12000	20	CRL
23V	1,1,2,2-TETRACHLOROETHANE	00079345	210	1000	0.2	CRL
24V	TETRACHLOROETHYLENE	00127184	140	700	10	CRL
25V	TOLUENE	00108883	330	1700	57	H
26V	trans-1,2-DICHLOROETHYLENE	00156605	1400	6800	100	H
D	1,2 cis-DICHLOROETHYLENE	00156592	N/A	N/A	12	H
27V	1,1,1-TRICHLOROETHANE	00071556	610	3000	10000	H
28V	1,1,2-TRICHLOROETHANE	00079005	680	3400	0.55	CRL

PP NO	Chemical Name	CAS Number	Fish and Aquatic Life Criteria			Human Health Criteria (ug/L)
			Criteria Continuous Concentrations (ug/L)	Criteria Maximum Concentration (ug/L)		
29V	TRICHLOROETHYLENE	00079016	450	2300	0.6	CRL
31V	VINYL CHLORIDE	00075014	N/A	N/A	0.02	CRL
1B	ACENAPHTHENE	00083329	17	83	70	H
2B	ACENAPHTHYLENE	00208968	N/A	N/A	N/A	-
3B	ANTHRACENE	00120127	N/A	N/A	300	H
4B	BENZIDINE	00092875	59	300	0.0001	CRL
5B	BENZO(a)-ANTHRACENE	00056553	0.1	0.5	0.001	CRL
6B	BENZO(a)PYRENE	00050328	N/A	N/A	0.0001	CRL
7B	3,4-BENZO-FLUORANTHENE (BENZO(b)FLUORANTHENE)	00205992	N/A	N/A	0.001	CRL
8B	BENZO(ghi)-PERYLENE	00191242	N/A	N/A	N/A	-
9B	BENZO(k)-FLUORANTHENE	00207089	N/A	N/A	0.01	CRL
E	BIS(CHLOROMETHYL)ETHER	00542881	N/A	N/A	0.0002	CRL
10B	BIS(2-CHLOROETHOXY)METHANE	00111911	N/A	N/A	N/A	-
11B	BIS(2-CHLOROETHYL)ETHER	00111444	6000	30000	0.030	CRL
12B	BIS(2-CHLORO-1-METHYLETHYL)ETHER	00108601	N/A	N/A	200	H
13B	BIS(2-ETHYLHEXYL)PHTHALATE	00117817	910	4500	0.32	CRL
14B	4-BROMOPHENYL PHENYL ETHER	00101553	54	270	N/A	-
15B	BUTYLBENZYL PHTHALATE	00085687	35	140	0.1	H
16B	2-CHLORONAPHTHALENE	00091587	N/A	N/A	800	H
17B	4-CHLOROPHENYL PHENYL ETHER	07005723	N/A	N/A	N/A	-
18B	CHRYSENE	00218019	N/A	N/A	0.12	CRL
19B	DIBENZO(a,h)ANTHRACENE	00053703	N/A	N/A	0.0001	CRL
20B	1,2-DICHLOROBENZENE	00095501	160	820	1000	H
21B	1,3-DICHLOROBENZENE	00541731	69	350	7	H
22B	1,4-DICHLOROBENZENE	00106467	150	730	300	H
23B	3,3-DICHLOROBENZIDINE	00091941	N/A	N/A	0.05	CRL
24B	DIETHYL PHTHALATE	00084662	800	4000	600	H
25B	DIMETHYL PHTHALATE	00131113	500	2500	2000	H
26B	DI-N-BUTYL PHTHALATE	00084742	21	110	20	H
27B	2,4-DINITROTOLUENE	00121142	320	1600	0.05 for dinitro-toluene	CRL
28B	2,6-DINITROTOLUENE	00606202	200	990	See 27B	CRL
29B	DI-N-OCTYL PHTHALATE	00117840	N/A	N/A	N/A	-

PP NO	Chemical Name	CAS Number	Fish and Aquatic Life Criteria			Human Health Criteria (ug/L)
			Criteria Continuous Concentrations (ug/L)	Criteria Maximum Concentration (ug/L)		
30B	1,2-DIPHENYLHYDRAZINE	00122667	3	15	0.03	CRL
31B	FLUORANTHENE	00206440	40	200	20	H
32B	FLUORENE	00086737	N/A	N/A	50	H
33B	HEXACHLOROBENZENE	00118741	N/A	N/A	0.00008	CRL
34B	HEXACHLOROBUTADIENE	00087683	2	10	0.01	CRL
35B	HEXACHLOROCYCLOPENTADIENE	00077474	1	5	4	H
36B	HEXACHLOROETHANE	00067721	12	60	0.1	CRL
37B	INDENO(1,2,3-cd)PYRENE	00193395	N/A	N/A	0.001	CRL
38B	ISOPHORONE	00078591	2100	10000	34	H
39B	NAPHTHALENE	00091203	43	140	N/A	-
40B	NITROBENZENE	00098953	810	4000	10	H
41B	N-NITROSODIMETHYLAMINE	00062759	3400	17000	0.0007 †	CRL
42B	N-NITROSODI-N-PROPYLAMINE	00621647	N/A	N/A	0.005 †	CRL
43B	N-NITROSODIPHENYLAMINE	00086306	59	300	3.3 †	CRL
E	PENTACHLOROBENZENE	00608935	N/A	N/A	0.1	H
44B	PHENANTHRENE	00085018	1	5	N/A	-
45B	PYRENE	00129000	N/A	N/A	20	H
E	1,2,4,5-TETRACHLOROBENZENE	00095943	N/A	N/A	0.03	H
46B	1,2,4-TRICHLOROBENZENE	00120821	26	130	0.07	H
1P	ALDRIN	00309002	0.1	3	0.0000008	CRL
2P	alpha-HEXACHLOROCYCLOHEXANE (HCH)	00319846	N/A	N/A	0.0004	CRL
3P	beta-HEXACHLOROCYCLOHEXANE (HCH)	00319857	N/A	N/A	0.008	CRL
4P	gamma-HEXACHLOROCYCLOHEXANE (HCH) (LINDANE)	00058899	N/A	0.95	4.2	H
5P	delta-BHC	00319868	N/A	N/A	N/A	-
6P	CHLORDANE	00057749	0.0043	2.4	0.0003	CRL
E	CHLOROPHENOXY HERBICIDE (2,4-D)	00094757	N/A	N/A	1400	H
E	CHLOROPHENOXY HERBICIDE (2,4,5-TP)	00093721	N/A	N/A	100	H
7P	4,4-DDT	00050293	0.001	1.1	0.00003	CRL
8P	4,4-DDE	00072559	0.001	1.1	0.00002	CRL
9P	4,4-DDD	00072548	0.001	1.1	0.0001	CRL
10P	DIELDRIN	00060571	0.056	0.24	0.000001	CRL

PP NO	Chemical Name	CAS Number	Fish and Aquatic Life Criteria			Human Health Criteria (ug/L)
			Criteria Continuous Concentrations (ug/L)	Criteria Maximum Concentration (ug/L)		
11P	alpha-ENDOSULFAN	00959988	0.056	0.22	20	H
12P	beta-ENDOSULFAN	33213659	0.056	0.22	20	H
13P	ENDOSULFAN SULFATE	01031078	N/A	N/A	20	H
14P	ENDRIN	00072208	0.036	0.086	0.03	H
15P	ENDRIN ALDEHYDE	07421934	N/A	N/A	1	H
16P	HEPTACHLOR	00076448	0.0038	0.52	0.000006	CRL
17P	HEPTACHLOR EPOXIDE	01024573	0.0038	0.5	0.00003	CRL
E	HEXACHLOROCYCLOHEXANE (HCH)-TECHNICAL	00608731	N/A	N/A	0.007	CRL
E	METHOXYCHLOR	00072435	N/A	N/A	0.02	H
18P	PCB		0.014	N/A	0.000064 for PCBs †	CRL
25P	TOXAPHENE	08001352	0.0002	0.73	0.0007	CRL
PP	2,3,7,8-TCDD	01746016	N/A	N/A	5.0 E-9 †	CRL
D	ACETONE	00067641	86000	450000	3500	H
D	ACRYLAMIDE	00079061	N/A	N/A	0.07	CRL
D	ALUMINUM	07429905	N/A	750	N/A	-
D	BARIUM	07440393	4100	21000	2400	H
D	BENZENE METADISULFONIC ACID	00098486	1600000	2600000	N/A	-
D	BENZENE MONOSULFONIC ACID	00098113	1200000	2000000	N/A	-
D	BENZYL CHLORIDE	00100447	N/A	N/A	0.2	CRL
D	BORON	07440428	1600	8100	3100	H
D	2-BUTOXY ETHANOL	00111762	N/A	N/A	700	H
D	COBALT	07440484	19	95	N/A	-
D	p-CRESOL	00106445	160	800	N/A	-
D	CYCLOHEXYLAMINE	00108918	N/A	N/A	1000	H
E	DIAZINON	00333415	0.17	0.17	N/A	-
D	FORMALDEHYDE	00050000	440	2200	700	H
D	2-HEXANONE	00591786	4300	21000	N/A	-
D	LITHIUM	07439932	N/A	N/A	N/A	-
D	METHYL ETHYL KETONE	00078933	32000	230000	21000	H
D	METHYL ISOBUTYL KETONE	00108101	5000	26000	N/A	-
D	METOLACHLOR	51218452	N/A	N/A	69	H
D	NONYLPHENOL	84852153	6.6	28	N/A	-
D	P-PHENOL SULFONIC ACID	00098679	1400000	3500000	N/A	-
D	1-PROPANOL	00071238	46000	230000	N/A	-

PP NO	Chemical Name	CAS Number	Fish and Aquatic Life Criteria			Human Health Criteria (ug/L)	
			Criteria Continuous Concentrations (ug/L)	Criteria Maximum Concentration (ug/L)			
D	2-PROPANOL	00067630	89000	440000	N/A	-	
D	RESORCINOL	01084603	7200	28000	2700	H	
D	STRONTIUM	07440246	N/A	N/A	4000	H	
D	1,2,3-TRICHLOROPROPANE	00096184	N/A	N/A	210	H	
D	1,2,4-TRIMETHYLBENZENE	00095636	N/A	N/A	72	H	
D	1,3,5-TRIMETHYLBENZENE	00108678	N/A	N/A	72	H	
D	VANADIUM	07440622	100	510	N/A	-	
D	XYLENE	01330207	210	1100	70000	H	

Acronyms and Footnotes to Table 5

* Indicates dissolved metal criterion; others are total recoverable metals. Each listed dissolved criterion in Table 5 is equal to the corresponding total recoverable criterion before rounding (from the EPA National Ambient Water Quality Criteria Documents) multiplied by the conversion factor (from the Conversion Factors Table); a criterion that is expressed as a hardness (H)-based equation is shown in Table 5 as the conversion factor (listed) multiplied by the hardness criterion equation; an example criterion at hardness=100mg/L is included.

† Indicates criterion based on the exposure inputs of 2 liters per day of drinking water and consumption of 17.5 grams of fish per day, for protection of a 70 Kg person.

CAS—Chemical Abstract Service number

CRL—Cancer risk level at 1×10^{-6}

D—DEP developed criteria

E—EPA developed criteria

H—Threshold effect human health criterion; incorporates additional uncertainty factor for some Group C carcinogens.

ln [H]—Natural Logarithm of the Hardness of stream as mg/l CaCO₃

ug/L—Micrograms per liter

N/A—Criterion not developed

PP NO—Priority Pollutant Number

§ 93.8d. Development of site-specific water quality criteria.

* * * * *

(c) Scientific studies shall be performed in accordance with the procedures and guidance in the Water Quality Standards Handbook (EPA 1994), as amended and updated, including: “Guidance on the Determination and Use of Water-Effect Ratios for Metals” (February 1994); and the “Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health” (2000). Other guidance approved by the department, which is based on EPA-approved or scientifically defensible methodologies, may be used. The development of new or updated site-specific criteria for copper in freshwater systems shall be performed using the biotic ligand model (BLM).

* * * * *

(f) If the Department determines that site-specific criteria are appropriate in accordance with subsection (a), the Department will do the following:

* * * * *

(2) Maintain a publicly available online table of site-specific criteria.

* * * * *

§ 93.8e. Special criteria for the Great Lakes System.

* * * * *

(b) *Water quality criteria for the Great Lakes System.* Human health and aquatic life criteria for the Great Lakes System are contained in Table 6 (relating to Great Lakes aquatic life and human health criteria). For any pollutant not listed in the table, criteria in Table 5 may be used to protect existing and designated uses, or criteria will be developed by the Department, as needed, in accordance with this chapter and § 16.61 (relating to special provisions for the Great Lakes System).

* * * * *

DESIGNATED WATER USES AND WATER QUALITY CRITERIA

§ 93.9b. Drainage List B.

Delaware River Basin in Pennsylvania

Lackawaxen River

Stream	Zone	County	Water Uses Protected	Exceptions to Specific Criteria
* * * * *				
3—West Branch Lackawaxen River	Main Stem, Prompton Reservoir to Confluence with Lackawaxen River and Dyberry Creek	Wayne	HQ-TSF, MF	None
4—Tributaries to West Branch Lackawaxen River	Basins, Prompton Reservoir to Van Auken Creek	Wayne	HQ-CWF, MF	None
4—Van Auken Creek	Basin	Wayne	HQ-TSF, MF	None
4—Tributaries to West Branch Lackawaxen River	Basins, Van Auken Creek to confluence with Lackawaxen River and Dyberry Creek	Wayne	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions to Specific Criteria
3—Dyberry Creek				
* * * * *				
3—Dyberry Creek	Basin, Big Brook to Mouth	Wayne	HQ-CWF, MF	None
2—Lackawaxen River	Main Stem	Pike	HQ-TSF, MF	None
3—Tributaries to Lackawaxen River	Basins, Dyberry Creek to Wallenpaupack Creek	Wayne	HQ-CWF, MF	None
* * * * *				

§ 93.9c. Drainage List C.

Delaware River Basin in Pennsylvania

Delaware River

Stream	Zone	County	Water Uses Protected	Exceptions to Specific Criteria
* * * * *				
2—Hornbecks Creek	Basin	Pike	HQ-CWF, MF	None
2—Spackmans Creek	Basin	Pike	HQ-CWF, MF	None
2—Toms Creek	Basin	Pike	EV, MF	None
* * * * *				
2—Allegheny Creek	Basin	Northampton	CWF, MF	None
2—Mill Creek	Basin	Northampton	CWF, MF	None
2—Oughoughton Creek	Basin	Northampton	CWF, MF	None
* * * * *				

§ 93.9d. Drainage List D.

Delaware River Basin in Pennsylvania

Lehigh River

Stream	Zone	County	Water Uses Protected	Exceptions to Specific Criteria
1—Delaware River				
2—Lehigh River	Basin, Source to Tobyhanna Creek	Luzerne-Monroe-Carbon	EV, MF	None
3—Tobyhanna Creek	Basin, Source to Cross Keys Run	Monroe	HQ-CWF, MF	None
4—Cross Keys Run	Basin	Monroe	EV, MF	None
3—Tobyhanna Creek	Basin, Cross Keys Run to Frame Cabin Run	Monroe	HQ-CWF, MF	None
4—Frame Cabin Run	Basin	Monroe	EV, MF	None
3—Tobyhanna Creek	Basin, Frame Cabin Run to Mouth	Monroe-Carbon	HQ-CWF, MF	None
2—Lehigh River	Basin, Tobyhanna Creek to Buck Mountain Creek	Carbon	HQ-CWF, MF	None
3—Buck Mountain Creek	Main Stem	Carbon	HQ-CWF, MF	None
4—Unnamed Tributaries to Buck Mountain Creek	Basin	Carbon	HQ-CWF, MF	None
4—Indian Run	Basin	Carbon	HQ-CWF, MF	None
4—Shafer Run	Basin	Carbon	EV, MF	None
2—Lehigh River	Main Stem, Buck Mountain Creek to a point at 40° 52' 3.5" N; 75° 44' 9.3" W	Carbon	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions to Specific Criteria
3—Unnamed Tributaries to Lehigh River	Basins, Buck Mountain Creek to the point at 40° 52' 3.5" N; 75° 44' 9.3" W	Carbon	HQ-CWF, MF	None
3—Drakes Creek	Basin	Carbon	HQ-CWF, MF	None
* * * * *				
3—Robertson Run	Basin	Carbon	HQ-CWF, MF	None
2—Lehigh River	Main Stem, the point at 40° 52' 3.5" N; 75° 44' 9.3" W to Allentown Dam	Lehigh	TSF, MF	None
3—Unnamed Tributaries to Lehigh River	Basins, the point at 40° 52' 3.5" N; 75° 44' 9.3" W to Allentown Dam	Carbon-Lehigh	CWF, MF	None
3—Silkmill Run	Basin	Carbon	CWF, MF	None
3—Mauch Chunk Creek				
5—White Bear Creek	Basin, Source to SR 902 Bridge	Carbon	EV, MF	None
5—White Bear Creek	Basin, SR 902 Bridge to inlet of Mauch Chunk Lake	Carbon	CWF, MF	None
4—Mauch Chunk Lake	Basin	Carbon	CWF, MF	None
3—Mauch Chunk Creek	Basin, Mauch Chunk Lake Dam to Mouth	Carbon	CWF, MF	None
3—Beaver Run	Basin	Carbon	CWF, MF	None
3—Long Run	Basin	Carbon	CWF, MF	None
* * * * *				
4—Jordan Creek	Main Stem	Lehigh	TSF, MF	None
5—Tributaries to Jordan Creek	Basins, Source to Mill Creek	Lehigh	HQ-CWF, MF	None
5—Mill Creek	Basin	Lehigh	CWF, MF	None
5—Tributaries to Jordan Creek	Basins, Mill Creek to Mouth	Lehigh	HQ-CWF, MF	None
3—Little Lehigh Creek	Basin, Jordan Creek to Mouth	Lehigh	HQ-CWF, MF	None
* * * * *				

§ 93.9e. Drainage List E.

Delaware River Basin in Pennsylvania

Delaware River

Stream	Zone	County	Water Uses Protected	Exceptions to Specific Criteria
* * * * *				
2—Frya Run	Basin	Northampton	HQ-CWF, MF	None
2—Cooks Creek	Basin	Bucks	EV, MF	None
2—Rodges Run	Basin	Bucks	TSF, MF	None
2—Gallows Run	Basin	Bucks	CWF, MF	None
2—Falls Creek	Basin	Bucks	TSF, MF	None
2—Swamp Creek	Basin	Bucks	TSF, MF	None
2—Tinicum Creek	Basin	Bucks	EV, MF	None
2—Smithtown Creek	Basin	Bucks	TSF, MF	None
2—Tohickon Creek	Basin, Source to Lake Nockamixon Dam	Bucks	TSF, MF	None
2—Tohickon Creek	Basin, Lake Nockamixon Dam to Deep Run	Bucks	CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions to Specific Criteria
3—Deep Run	Basin	Bucks	WWF, MF	None
* * * * *				
1—Delaware Estuary	Tidal Portions of Basin, Head of Tide to Burlington-Bristol Bridge	Bucks	WWF, MF	See DRBC regulations—Water Quality Zone 2
2—Unnamed Tributaries to Delaware Estuary	Non-Tidal Portion of Basins, Head of Tide to Burlington-Bristol Bridge	Bucks	WWF, MF	None
2—Biles Creek	Non-Tidal Portion of Basin	Bucks	WWF, MF	None
2—Martins Creek	Non-Tidal Portion of Basin	Bucks	WWF, MF	None
2—Levittown Lake	Basin	Bucks	TSF, MF	None
* * * * *				

§ 93.9f. Drainage List F.

Delaware River Basin in Pennsylvania

Schuylkill River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
3—Tulpehocken Creek	Main Stem, Blue Marsh Reservoir Dam to T 921	Berks	CWF, MF	None
4—Unnamed Tributaries to Tulpehocken Creek	Basins, Blue Marsh Reservoir Dam to T 921	Berks	WWF, MF	None
4—Plum Creek	Basin, Source to UNT 01867 at 40° 22' 30.2"N; 76° 0' 45.2"W	Berks	WWF, MF	None
5—UNT 01867 to Plum Creek	Basin	Berks	WWF, MF	None
4—Plum Creek	Basin, UNT 01867 to Mouth	Berks	CWF, MF	None
4—Cacoosing Creek	Basin, Source to Little Cacoosing Creek	Berks	CWF, MF	None
* * * * *				
3—UNTs to Schuylkill River	Basins, in Spring City and Phoenixville	Chester	WWF, MF	None
3—Manatawny Creek				
4—Pine Creek	Basin	Berks	EV, MF	None
4—Bieber Creek	Basin	Berks	EV, MF	None
3—Manatawny Creek	Basin, Confluence of Pine Creek and Bieber Creek to Oysterville Creek	Berks	CWF, MF	None
4—Oysterville Creek	Basin, Source to T 634 Bridge at 40° 23' 45.9" N; 75° 42' 30.0" W	Berks	EV, MF	None
4—Oysterville Creek	Basin, T 634 Bridge to Confluence of UNT 01680 at 40° 22' 44.6" N; 75° 43' 48.0" W	Berks	HQ-CWF, MF	None
5—UNT 01680 to Oysterville Creek	Basin	Berks	CWF, MF	None
4—Oysterville Creek	Basin, UNT 01680 to Mouth	Berks	HQ-CWF, MF	None
3—Manatawny Creek	Basin, Oysterville Creek to Trout Run	Berks	CWF, MF	None
4—Trout Run	Basin	Berks	EV, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Manatawny Creek	Basin, Trout Run to Ironstone Creek	Berks	CWF, MF	None
4—Ironstone Creek	Basin	Berks	TSF, MF	None
3—Manatawny Creek	Basin, Ironstone Creek to Mouth	Berks	CWF, MF	None
3—Srogels Run	Basin	Montgomery	WWF, MF	None
* * * * *				
3—Perkiomen Creek	Basin, Source to SR 1010 Bridge at Hereford	Berks	HQ-CWF, MF	None
3—Perkiomen Creek	Main Stem, SR 1010 Bridge to Green Lane Reservoir Dam	Montgomery	TSF, MF	None
4—Tributaries to Perkiomen Creek	Basins, SR 1010 Bridge to Hosensack Creek	Montgomery	TSF, MF	None
4—Hosensack Creek	Basin	Montgomery	CWF, MF	None
4—Tributaries to Perkiomen Creek	Basins, Hosensack Creek to West Branch Perkiomen Creek	Montgomery	TSF, MF	None
4—West Branch Perkiomen Creek	Basin, Source to SR 1022 Bridge at 40° 26' 49.6" N; 75° 37' 16.2" W	Berks	CWF, MF	None
4—West Branch Perkiomen Creek	Basin, SR 1022 Bridge to SR 2069 Bridge at 40° 23' 45.8" N; 75° 36' 31.5" W	Berks	EV, MF	None
4—West Branch Perkiomen Creek	Basin, SR 2069 Bridge to Mouth	Montgomery	CWF, MF	None
4—Tributaries to Perkiomen Creek	Basins, West Branch Perkiomen Creek to Unami Creek	Montgomery	TSF, MF	None
3—Perkiomen Creek	Main Stem, Green Lane Reservoir Dam to Mouth	Montgomery	WWF, MF	None
4—Unami Creek	Basin	Montgomery	HQ-TSF, MF	None
4—Tributaries to Perkiomen Creek	Basins, Unami Creek to Swamp Creek	Montgomery	TSF, MF	None
4—Swamp Creek	Basin, Source to Dam in Bechtelsville at 40° 22' 24.9" N; 75° 37' 51.5" W	Berks	HQ-CWF, MF	None
4—Swamp Creek	Basin, Dam in Bechtelsville to SR 100 Bridge	Berks	CWF, MF	None
4—Swamp Creek	Basin, SR 100 Bridge to Mouth	Montgomery	TSF, MF	None
4—Tributaries to Perkiomen Creek	Basins, Swamp Creek to Mouth	Montgomery	TSF, MF	None
3—Valley Creek	Basin	Montgomery—Chester	EV, MF	None
* * * * *				

§ 93.9g. Drainage List G.

Delaware River Basin in Pennsylvania

Delaware River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
2—Ridley Creek	Non-Tidal Portions of Basin, LR 23013 Bridge to Mouth	Delaware	WWF, MF	None
2—Chester Creek	Basin (locally known as Goose Creek basin), Source to East Branch Chester Creek	Chester	WWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—East Branch Chester Creek	Basin	Chester	TSF, MF	None
2—Chester Creek	Basin, East Branch Chester Creek to Rocky Run	Delaware	TSF, MF	None
* * * * *				
2—Chester Creek	Nontidal Portions of Basin, Dutton Mills Road Bridge to Mouth	Delaware	WWF, MF	None
2—Stoney Creek	Non-Tidal Portions of Basin	Delaware	WWF, MF	None
2—Marcus Hook Creek	Non-Tidal Portions of Basin	Delaware	WWF, MF	None
* * * * *				
4—East Branch Brandywine Creek	Main Stem, Shamona Creek to Confluence with West Branch	Chester	WWF, MF	None
5—Tributaries to East Branch Brandywine Creek	Basins, Shamona Creek to UNT 00322	Chester	HQ-TSF, MF	None
5—Tributaries to East Branch Brandywine Creek	Basins, UNT 00322 to Beaver Creek	Chester	WWF, MF	None
5—Beaver Creek	Basin	Chester	CWF, MF	None
5—Unnamed Tributaries to East Branch Brandywine Creek	Basins, Beaver Creek to Confluence with West Branch	Chester	WWF, MF	None
5—Valley Creek	Basin, Source to Broad Run	Chester	CWF, MF	None
* * * * *				
3—Brandywine Creek	Basin, Confluence of East and West Branches to Pocopson Creek	Chester-Delaware	WWF, MF	None
4—Pocopson Creek	Basin	Chester	TSF, MF	None
3—Brandywine Creek	Basin (all sections in PA), Pocopson Creek to PA-DE State Border	Chester-Delaware	WWF, MF	None
3—Brandywine Creek (DE)				
4—Tributaries to Brandywine Creek	Basins (all sections in PA), PA-DE State Border to Mouth	Delaware	WWF, MF	None

§ 93.9j. Drainage List J.

Susquehanna River Basin in Pennsylvania
Lackawanna River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
3—Meadow Brook	Basin	Lackawanna	CWF, MF	None
3—Roaring Brook	Basin, Source to Inlet of Elmhurst Reservoir	Lackawanna	HQ-CWF, MF	None
3—Roaring Brook	Basin, Inlet of Elmhurst Reservoir to Mouth	Lackawanna	CWF, MF	None
3—Stafford Meadow Brook	Basin, Source to Farthest Downstream Crossing of Scranton-Moosic Corporate Boundary	Lackawanna	HQ-CWF, MF	None
* * * * *				

§ 93.9k. Drainage List K.

Susquehanna River Basin in Pennsylvania

Susquehanna River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
2—Warrior Creek	Basin	Luzerne	CWF, MF	None
2—Nanticoke Creek	Basin	Luzerne	CWF, MF	None
2—Newport Creek	Basin	Luzerne	CWF, MF	None
2—Harvey Creek	Basin, Source to Pikes Creek	Luzerne	HQ-CWF, MF	None
3—Pikes Creek	Basin	Luzerne	HQ-CWF, MF	None
2—Harvey Creek	Basin, Pikes Creek to Mouth	Luzerne	CWF, MF	None
* * * * *				

§ 93.9l. Drainage List L.

Susquehanna River Basin in Pennsylvania

West Branch Susquehanna River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
1—Susquehanna River				
2—West Branch Susquehanna River	Main Stem	Northumberland	WWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Source to Cush Cushion Creek	Cambria-Indiana-Clearfield	CWF, MF	None
3—Cush Cushion Creek	Basin	Indiana	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Cush Cushion Creek to Chest Creek	Clearfield	CWF, MF	None
3—Chest Creek	Basin, Source to Patton Water Supply	Cambria	HQ-CWF, MF	None
3—Chest Creek	Basin, Patton Water Supply to Rogues Harbor Run	Clearfield	CWF, MF	None
4—Rogues Harbor Run	Basin	Clearfield	EV, MF	None
3—Chest Creek	Basin, Rogues Harbor Run to Pine Run	Clearfield	CWF, MF	None
4—Pine Run	Basin	Clearfield	EV, MF	None
3—Chest Creek	Basin, Pine Run to Mouth	Clearfield	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Chest Creek to Anderson Creek	Clearfield	CWF, MF	None
3—Anderson Creek	Basin, Source to DuBois Dam	Clearfield	HQ-CWF, MF	None
3—Anderson Creek	Basin, DuBois Dam to Bear Run	Clearfield	CWF, MF	None
4—Bear Run	Basin, Source to Pike Twp. Municipal Authority Dam	Clearfield	HQ-CWF, MF	None
4—Bear Run	Basin, Pike Twp. Municipal Authority Dam to Mouth	Clearfield	CWF, MF	None
3—Anderson Creek	Basin, Bear Run to Mouth	Clearfield	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Anderson Creek to Montgomery Creek	Clearfield	CWF, MF	None
3—Montgomery Creek	Basin, Source to Montgomery Dam	Clearfield	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Montgomery Creek	Basin, Montgomery Dam to Mouth	Clearfield	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Montgomery Creek to Moose Creek	Clearfield	CWF, MF	None
3—Moose Creek	Basin, Source to Dam	Clearfield	HQ-CWF, MF	None
3—Moose Creek	Basin, Dam to Mouth	Clearfield	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Moose Creek to Clearfield Creek	Clearfield	CWF, MF	None
3—Clearfield Creek	Main Stem	Clearfield	WWF, MF	None
4—Tributaries to Clearfield Creek	Basins, Source to Sandy Run	Cambria	CWF, MF	None
4—Sandy Run	Basin	Cambria	HQ-CWF, MF	None
4—Tributaries to Clearfield Creek	Basins, Sandy Run to Muddy Run	Cambria	CWF, MF	None
4—Muddy Run	Basin, Source to Little Muddy Run	Clearfield	CWF, MF	None
5—Little Muddy Run	Basin, Source to Janesville Sportsman Dam	Clearfield	HQ-CWF, MF	None
5—Little Muddy Run	Basin, Janesville Sportsman Dam to Mouth	Clearfield	CWF, MF	None
4—Muddy Run	Basin, Little Muddy Run to Mouth	Clearfield	CWF, MF	None
4—Tributaries to Clearfield Creek	Basins, Muddy Run to Little Clearfield Creek	Clearfield	CWF, MF	None
4—Little Clearfield Creek	Basin	Clearfield	HQ-CWF, MF	None
4—Tributaries to Clearfield Creek	Basins, Little Clearfield Creek to Mouth	Clearfield	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Clearfield Creek to Lick Run	Clearfield	CWF, MF	None
3—Lick Run	Basin	Clearfield	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Lick Run to Trout Run	Clearfield	CWF, MF	None
3—Trout Run	Basin	Clearfield	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Trout Run to Moshannon Creek	Clearfield	CWF, MF	None
3—Moshannon Creek	Basin, Source to Roup Run	Clearfield-Centre	HQ-CWF, MF	None
4—Roup Run	Basin	Centre	CWF, MF	None
3—Moshannon Creek	Main Stem, Roup Run to Mouth	Clearfield-Centre	TSF, MF	None
4—Tributaries to Moshannon Creek	Basins, Roup Run to Mountain Branch	Clearfield-Centre	CWF, MF	None
4—Mountain Branch	Basin, Source to Trim Root Run	Centre	HQ-CWF, MF	None
5—Trim Root Run	Basin	Centre	HQ-CWF, MF	None
4—Mountain Branch	Basin, Trim Root Run to Mouth	Centre	CWF, MF	None
4—Tributaries to Moshannon Creek	Basins, Mountain Branch to Trout Run	Clearfield-Centre	CWF, MF	None
4—Trout Run	Basin, Source to Montola Dam	Centre	HQ-CWF, MF	None
4—Trout Run	Basin, Montola Dam to Mouth	Centre	CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Tributaries to Moshannon Creek	Basins, Trout Run to Laurel Run	Clearfield-Centre	CWF, MF	None
4—Laurel Run	Basin, Source to Simeling Run	Clearfield	CWF, MF	None
5—Simeling Run	Basin	Clearfield	HQ-CWF, MF	None
4—Laurel Run	Basin, Simeling Run to Mouth	Clearfield	CWF, MF	None
4—Tributaries to Moshannon Creek	Basins, Laurel Run to Cold Stream	Clearfield-Centre	CWF, MF	None
4—Cold Stream	Basin, Source to US 322	Centre	HQ-CWF, MF	None
4—Cold Stream	Basin, US 322 to Mouth	Centre	CWF, MF	None
4—Tributaries to Moshannon Creek	Basins, Cold Stream to Black Bear Run	Clearfield-Centre	CWF, MF	None
4—Black Bear Run	Basin	Centre	EV, MF	None
4—Tributaries to Moshannon Creek	Basins, Black Bear Run to Sixmile Run	Clearfield-Centre	CWF, MF	None
4—Sixmile Run	Basin	Centre	HQ-CWF, MF	None
4—Tributaries to Moshannon Creek	Basins, Sixmile Run to Black Moshannon Creek	Clearfield-Centre	CWF, MF	None
4—Black Moshannon Creek	Basin, Source to Benner Run	Centre	HQ-CWF, MF	None
5—Benner Run	Basin, Source to Pine Haven Camp	Centre	EV, MF	None
5—Benner Run	Basin, Pine Haven Camp to Mouth	Centre	HQ-CWF, MF	None
4—Black Moshannon Creek	Basin, Benner Run to Rock Run	Centre	HQ-CWF, MF	None
5—Rock Run	Basin	Centre	EV, MF	None
4—Black Moshannon Creek	Basin, Rock Run to Mouth	Centre	HQ-CWF, MF	None
4—Tributaries to Moshannon Creek	Basins, Black Moshannon Creek to Ames Run	Clearfield-Centre	CWF, MF	None
4—Ames Run	Basin	Clearfield	HQ-CWF, MF	None
4—Tributaries to Moshannon Creek	Basins, Ames Run to Mouth	Clearfield-Centre	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Moshannon Creek to Mosquito Creek	Clearfield-Centre	HQ-CWF, MF	None
3—Mosquito Creek	Basin, Source to Twelvemile Run	Elk-Clearfield	HQ-CWF, MF	None
4—Twelvemile Run	Basin	Clearfield	EV, MF	None
3—Mosquito Creek	Basin, Twelvemile Run to Cole Run	Clearfield	HQ-CWF, MF	None
4—Cole Run	Basin	Clearfield	EV, MF	None
3—Mosquito Creek	Basin, Cole Run to Mouth	Clearfield	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Mosquito Creek to Loop Run	Clearfield-Centre-Clinton	HQ-CWF, MF	None
3—Loop Run	Basin	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Loop Run to UNT 25562 at 41° 9' 40.2"N; 78° 0' 3.9"W	Centre-Clinton	HQ-CWF, MF	None
3—UNT 25562	Basin	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, UNT 25562 to Little Bougher Run	Centre-Clinton	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Little Bougher Run	Basin	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Little Bougher Run to Yost Run	Centre-Clinton	HQ-CWF, MF	None
3—Yost Run	Basin	Centre	EV, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Yost Run to Burns Run	Centre-Clinton	HQ-CWF, MF	None
3—Burns Run	Basin	Centre	EV, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Burns Run to Sinnemahoning Creek	Centre-Clinton-Cameron	HQ-CWF, MF	None
3—Sinnemahoning Creek				
4—Bennett Branch Sinnemahoning Creek	Basin, Source to South Branch Bennett Branch	Cameron	CWF, MF	None
5—South Branch Bennett Branch	Basin	Clearfield	HQ-CWF, MF	None
4—Bennett Branch Sinnemahoning Creek	Basin, South Branch Bennett Branch to Wilson Run	Clearfield	CWF, MF	None
5—Wilson Run	Basin, Source to East Branch Wilson Run	Clearfield	CWF, MF	None
6—East Branch Wilson Run	Basin	Clearfield	HQ-CWF, MF	None
5—Wilson Run	Basin, East Branch Wilson Run to Mouth	Clearfield	CWF, MF	None
4—Bennett Branch Sinnemahoning Creek	Basin, Wilson Run to Mill Run	Clearfield	CWF, MF	None
5—Mill Run	Basin	Clearfield	CWF, MF	None
4—Bennett Branch Sinnemahoning Creek	Main Stem, Mill Run to Confluence with Driftwood Branch	Cameron	WWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Mill Run to Cherry Run	Clearfield-Cameron-Elk	CWF, MF	None
5—Cherry Run	Basin, Source to Shawmut Dam	Elk	HQ-CWF, MF	None
5—Cherry Run	Basin, Shawmut Dam to Mouth	Elk	CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Cherry Run to Kersey Run	Elk	CWF, MF	None
5—Kersey Run	Basin, Source to Byrnes Run	Elk	CWF, MF	None
6—Byrnes Run	Basin	Elk	EV, MF	None
5—Kersey Run	Basin, Byrnes Run to Mouth	Elk	CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Kersey Run to Laurel Run	Elk	CWF, MF	None
5—Laurel Run	Basin	Elk	HQ-CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Laurel Run to Medix Run	Elk	CWF, MF	None
5—Medix Run	Basin	Elk	HQ-CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Medix Run to Trout Run	Elk	CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—Trout Run	Basin, Source to Spring Run	Elk	CWF, MF	None
6—Spring Run	Basin, Source to UNT 24721 at 41° 20' 25.0"N; 78° 29' 52.9" W	Elk	CWF, MF	None
7—UNT 24721 to Spring Run	Basin	Elk	CWF, MF	None
6—Spring Run	Basin, UNT 24721 to Stony Brook	Elk	HQ-CWF, MF	None
7—Stony Brook	Basin	Elk	CWF, MF	None
6—Spring Run	Basin, Stony Brook to Mouth	Elk	CWF, MF	None
5—Trout Run	Basin, Spring Run to Mouth	Elk	CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Trout Run to Dents Run	Elk	CWF, MF	None
5—Dents Run	Basin	Elk	HQ-CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Dents Run to Hicks Run	Elk	CWF, MF	None
5—Hicks Run				
6—East Branch Hicks Run	Basin Source to Confluence with West Branch	Elk	HQ-CWF, MF	None
6—West Branch Hicks Run	Basin, Source to Confluence with East Branch	Elk	EV, MF	None
5—Hicks Run	Basin, Confluence of East and West Branches to Mouth	Cameron	HQ-CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Hicks Run to Miller Run	Cameron	CWF, MF	None
5—Miller Run	Basin	Cameron	HQ-CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Miller Run to Mix Run	Cameron	CWF, MF	None
5—Mix Run	Basin, Source to English Draft Run	Elk	EV, MF	None
6—English Draft Run	Basin	Elk	HQ-CWF, MF	None
5—Mix Run	Basin, English Draft Run to Mouth	Cameron	HQ-CWF, MF	None
5—Tributaries to Bennett Branch Sinnemahoning Creek	Basins, Mix Run to Confluence with Driftwood Branch	Cameron	CWF, MF	None
4—Driftwood Branch Sinnemahoning Creek	Basin, Source to Elk Fork	Cameron	HQ-CWF, MF	None
5—Elk Fork	Basin, Source to Nichols Run	Cameron	EV, MF	None
6—Nichols Run	Basin	Cameron	HQ-CWF, MF	None
5—Elk Fork	Basin, Nichols Run to Mouth	Cameron	HQ-CWF, MF	None
4—Driftwood Branch Sinnemahoning Creek	Main Stem, Elk Fork to Confluence with Bennett Branch	Cameron	TSF, MF	None
5—Tributaries to Driftwood Branch Sinnemahoning Creek	Basins, Elk Fork to Cooks Run	Cameron	HQ-CWF, MF	None
5—Cooks Run	Basin	Cameron	EV, MF	None
5—Tributaries to Driftwood Branch Sinnemahoning Creek	Basins, Cooks Run to Clear Creek	Cameron	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—Clear Creek	Basin, Source to Mud Run	Cameron	EV, MF	None
6—Mud Run	Basin	Cameron	HQ-CWF, MF	None
5—Clear Creek	Basin, Mud Run to Mouth	Cameron	HQ-CWF, MF	None
5—Tributaries to Driftwood Branch Sinnemahoning Creek	Basins, Clear Creek to Sinnemahoning Portage Creek	Cameron	HQ-CWF, MF	None
5—Sinnemahoning Portage Creek	Basin, Source to Cowley Run	Cameron	EV, MF	None
6—Cowley Run	Basin	Cameron	EV, MF	None
5—Sinnemahoning Portage Creek	Basin, Cowley Run to Mouth	Cameron	CWF, MF	None
5—Tributaries to Driftwood Branch Sinnemahoning Creek	Basins, Sinnemahoning Portage Creek to Sterling Run	Cameron	HQ-CWF, MF	None
5—Sterling Run				
6—Finley Run	Basin, Source to UNT 25003 at 41° 25' 54.7" N; 78° 15' 34.2" W	Cameron	HQ-CWF, MF	None
7—UNT 25003	Basin	Cameron	HQ-CWF, MF	None
6—Finley Run	Basin, UNT 25003 to Confluence with Portable Run	Cameron	CWF, MF	None
6—Portable Run	Basin, Source to Confluence with Finley Run	Cameron	CWF, MF	None
5—Sterling Run	Basin, Confluence of Portable Run and Finley Run to Tannery Hollow Run	Cameron	CWF, MF	None
6—Tannery Hollow Run	Basin	Cameron	EV, MF	None
5—Sterling Run	Basin, Tannery Hollow Run to Mouth	Cameron	CWF, MF	None
5—Tributaries to Driftwood Branch Sinnemahoning Creek	Basins, Sterling Run to Confluence with Bennett Branch	Cameron	HQ-CWF, MF	None
3—Sinnemahoning Creek	Main Stem, Confluence of Bennett and Driftwood Branches to Mouth	Clinton	WWF, MF	None
4—Tributaries to Sinnemahoning Creek	Basins, Confluence of Bennett and Driftwood Branches to First Fork	Cameron	HQ-CWF, MF	None
4—First Fork Sinnemahoning Creek	Basin, Source to Big Nelson Run	Cameron	HQ-CWF, MF	None
5—Big Nelson Run	Basin, Source to Right Branch Big Nelson Run	Potter	HQ-CWF, MF	None
6—Right Branch Big Nelson Run	Basin	Potter	EV, MF	None
5—Big Nelson Run	Basin, Right Branch Big Nelson Run to Mouth	Potter	HQ-CWF, MF	None
4—First Fork Sinnemahoning Creek	Basin, Big Nelson Run to East Fork Sinnemahoning Creek	Cameron	HQ-CWF, MF	None
5—East Fork Sinnemahoning Creek	Basin, Source to UNT 24255 at 40° 38' 35.5" N; 77° 51' 9.5" W (known as Dolliver Trail)	Potter	EV, MF	None
6—UNT 24255	Basin	Potter	EV, MF	None
5—East Fork Sinnemahoning Creek	Basin, UNT 24255 to Stony Lick Run	Potter	HQ-CWF, MF	None
6—Stony Lick Run	Basin	Potter	EV, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—East Fork Sinnemahoning Creek	Basin, Stony Lick Run to Birch Run	Potter	HQ-CWF, MF	None
6—Birch Run	Basin	Potter	EV, MF	None
5—East Fork Sinnemahoning Creek	Basin, Birch Run to Mouth	Potter	HQ-CWF, MF	None
4—First Fork Sinnemahoning Creek	Basin, East Fork Sinnemahoning Creek to Bailey Run	Potter	HQ-CWF, MF	None
5—Bailey Run	Basin, Source to Little Bailey Run	Potter	EV, MF	None
6—Little Bailey Run	Basin	Potter	HQ-CWF, MF	None
5—Bailey Run	Basin, Little Bailey Run to Mouth	Potter	HQ-CWF, MF	None
4—First Fork Sinnemahoning Creek	Basin, Bailey Run to Lushbaugh Run	Potter	HQ-CWF, MF	None
5—Lushbaugh Run	Basin	Cameron	EV, MF	None
4—First Fork Sinnemahoning Creek	Basin, Lushbaugh Run to Stevenson Dam	Potter	HQ-CWF, MF	None
4—First Fork Sinnemahoning Creek	Main Stem, Stevenson Dam to Mouth	Cameron	HQ-TSF, MF	None
5—Tributaries to First Fork Sinnemahoning Creek	Basins, Stevenson Dam to Mouth	Cameron	HQ-CWF, MF	None
4—Tributaries to Sinnemahoning Creek	Basins, First Fork to Mouth	Cameron-Clinton	HQ-CWF, MF	None
3—Cooks Run	Basin, Source to Onion Run	Clinton	EV, MF	None
4—Onion Run	Basin	Clinton	EV, MF	None
3—Cooks Run	Basin, Onion Run to Crowley Hollow Run	Clinton	HQ-CWF, MF	None
4—Crowley Hollow Run	Basin	Clinton	CWF, MF	None
3—Cooks Run	Basin, Crowley Hollow Run to Mouth	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Cooks Run to Fish Dam Run	Clinton	HQ-CWF, MF	None
3—Fish Dam Run	Basin	Clinton	EV, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Fish Dam Run to Kettle Creek	Clinton	HQ-CWF, MF	None
3—Kettle Creek	Basin, Source to Inlet of Kettle Creek Reservoir	Clinton	EV, MF	None
3—Kettle Creek	Basin, Inlet of Kettle Creek Reservoir to Alvin Bush Dam	Clinton	HQ-TSF, MF	None
3—Kettle Creek	Basin, Alvin Bush Dam to Twomile Run	Clinton	TSF, MF	None
4—Twomile Run	Basin, Source to Middle Branch Twomile Run	Clinton	HQ-CWF, MF	None
5—Middle Branch Twomile Run	Basin	Clinton	TSF, MF	None
3—Kettle Creek	Basin, Twomile Run to Mouth	Clinton	TSF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Kettle Creek to Barney Run	Clinton	HQ-CWF, MF	None
3—Barney Run	Basin	Clinton	EV, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Tributaries to West Branch Susquehanna River	Basins, Barney Run to Drury Run	Clinton	HQ-CWF, MF	None
3—Drury Run	Basin, Source to Sandy Run	Clinton	EV, MF	None
4—Sandy Run	Basin	Clinton	HQ-CWF, MF	None
3—Drury Run	Basin, Sandy Run to Woodley Draft	Clinton	HQ-CWF, MF	None
4—Woodley Draft	Basin	Clinton	CWF, MF	None
3—Drury Run	Basin, Woodley Draft to Mouth	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Drury Run to Paddy Run	Clinton	HQ-CWF, MF	None
3—Paddy Run	Basin	Clinton	EV, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Paddy Run to UNT 23593 at 40° 18' 5.0" N; 77° 43' 36.8" W (known as Boggs Hollow)	Clinton	HQ-CWF, MF	None
3—UNT 23593	Basin	Clinton	EV, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, UNT 23593 to Young Womans Creek	Clinton	HQ-CWF, MF	None
3—Young Womans Creek	Basin, Source to Left Branch Young Womans Creek	Clinton	EV, MF	None
3—Young Womans Creek	Basin, Left Branch Young Womans Creek to Mouth	Clinton	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Young Woman's Creek to Tangascootack Creek	Clinton	HQ-CWF, MF	None
3—Tangascootack Creek	Basin, Source to North Fork Tangascootack Creek	Clinton	CWF, MF	None
4—North Fork Tangascootack Creek	Basin	Clinton	HQ-CWF, MF	None
3—Tangascootack Creek	Basin, North Fork Tangascootack Creek to Mouth	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Tangascootack Creek to Lick Run	Clinton	HQ-CWF, MF	None
3—Lick Run	Basin, Source to Farthest Upstream Crossing of LR 18011 (SR 1001)	Clinton	EV, MF	None
3—Lick Run	Basin, Farthest Upstream Crossing of LR 18011 to Mouth	Clinton	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Lick Run to Queens Run	Clinton	HQ-CWF, MF	None
3—Queens Run	Basin	Clinton	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Queens Run to Bald Eagle Creek	Clinton	CWF, MF	None
3—Bald Eagle Creek	Basin, Source to Laurel Run (at Port Matilda)	Centre	CWF, MF	None
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3—Bald Eagle Creek	Main Stem, Laurel Run to Nittany Creek	Centre	TSF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Tributaries to Bald Eagle Creek	Basins, Laurel Run (at Port Matilda) to Laurel Run at 40° 51' 47.8" N; 77° 56' 7.3" W	Centre	CWF, MF	None
4—Laurel Run	Basin	Centre	EV, MF	None
4—Tributaries to Bald Eagle Creek	Basins, Laurel Run to Wallace Run	Centre	CWF, MF	None
4—Wallace Run	Basin, Source to UNT 23105 at 40° 58' 44.2" N; 77° 50' 59.3" W	Centre	EV, MF	None
5—UNT 23105	Basin	Centre	EV, MF	None
4—Wallace Run	Basin, UNT 23105 to Mouth	Centre	HQ-CWF, MF	None
4—Tributaries to Bald Eagle Creek	Basins, Wallace Run to Spring Creek	Centre	CWF, MF	None
4—Spring Creek	Main Stem, Source to PA 550 Bridge	Centre	HQ-CWF, MF	None
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5—UNTs to Spring Creek	Basins, PA 550 Bridge to Mouth	Centre	CWF, MF	None
5—Logan Branch	Basin, Source to Confluence with Tributary at 40° 49' 56.6" N; 77° 45' 18.8" W	Centre	HQ-CWF, MF	None
6—Tributary at 40° 49' 56.6" N; 77° 45' 18.8" W	Basin	Centre	CWF, MF	None
5—Logan Branch	Basin, Confluence with Tributary at 40° 49' 56.6" N; 77° 45' 18.8" W to T 371 Bridge	Centre	CWF, MF	None
5—Logan Branch	Main Stem, T-371 Bridge to Mouth	Centre	HQ-CWF, MF	None
6—Tributaries to Logan Branch	Basins, T-371 Bridge to Mouth	Centre	CWF, MF	None
5—Buffalo Run	Basin, Source to T 942 Bridge at 40° 54' 35.4" N; 77° 47' 37.3" W	Centre	HQ-CWF, MF	None
5—Buffalo Run	Basin, T 942 Bridge to Mouth	Centre	CWF, MF	None
4—Tributaries to Bald Eagle Creek	Basins, Spring Creek to Nittany Creek	Centre	CWF, MF	None
4—Nittany Creek	Basin, Source to I-80	Centre	CWF, MF	None
4—Nittany Creek	Basin, I-80 to Mouth	Centre	HQ-CWF, MF	None
3—Bald Eagle Creek	Main Stem, Nittany Creek to Mouth	Centre	WWF, MF	None
4—Tributaries to Bald Eagle Creek	Basins, Nittany Creek to Lick Run	Centre	CWF, MF	None
4—Lick Run	Basin	Centre	HQ-CWF, MF	None
4—Tributaries to Bald Eagle Creek	Basins, Lick Run to Beech Creek	Centre	CWF, MF	None
4—Beech Creek				
5—South Fork Beech Creek	Basin, Source to Stinktown Run	Centre	CWF, MF	None
6—Stinktown Run	Basin	Centre	HQ-CWF, MF	None
5—South Fork Beech Creek	Basin, Stinktown Run to Mouth	Centre	CWF, MF	None
5—North Fork Beech Creek	Basin, Source to Confluence with South Fork	Centre	CWF, MF	None
4—Beech Creek	Basin, Confluence of South and North Forks to Rock Run	Centre	CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—Rock Run	Basin	Centre	EV, MF	None
4—Beech Creek	Basin, Rock Run to Panther Run	Centre	CWF, MF	None
5—Panther Run	Basin	Centre	EV, MF	None
4—Beech Creek	Basin, Panther Run to Two Rock Run	Centre	CWF, MF	None
5—Two Rock Run	Basin	Centre	EV, MF	None
4—Beech Creek	Basin, Two Rock Run to Hayes Run	Centre	CWF, MF	None
5—Hayes Run	Basin	Centre	EV, MF	None
4—Beech Creek	Basin, Hayes Run to Big Run	Centre	CWF, MF	None
5—Big Run				
6—Middle Branch Big Run	Basin, Source to UNT 22666 at 41° 10' 47.7" N; 77° 45' 58.0" W	Clinton	EV, MF	None
7—UNT 22666	Basin	Clinton	CWF, MF	None
6—Middle Branch Big Run	Basin, UNT 22666 to Confluence with East Branch	Clinton	CWF, MF	None
6—East Branch Big Run	Basin, Source to a point at 41° 11' 15.5" N; 77° 43' 51.5" W	Clinton	EV, MF	None
6—East Branch Big Run	Basin, from the point at 41° 11' 15.5" N; 77° 43' 51.5" W to Confluence with Middle Branch	Clinton	CWF, MF	None
5—Big Run	Basin, Confluence of Middle and East Branches to West Branch Big Run	Clinton	CWF, MF	None
6—West Branch Big Run	Basin	Clinton	EV, MF	None
5—Big Run	Basin, West Branch Big Run to Mouth	Clinton	CWF, MF	None
4—Beech Creek	Basin, Big Run to Monument Run	Clinton	CWF, MF	None
5—Monument Run	Basin	Clinton	HQ-CWF, MF	None
4—Beech Creek	Basin, Monument Run to Mouth	Clinton	CWF, MF	None
4—Tributaries to Bald Eagle Creek	Basins, Beech Creek to Fishing Creek	Clinton	CWF, MF	None
4—Fishing Creek	Basin, Source to Cherry Run	Clinton	HQ-CWF, MF	None
5—Cherry Run	Basin	Clinton	EV, MF	None
4—Fishing Creek	Basin, Cherry Run to Little Fishing Creek	Clinton	HQ-CWF, MF	None
5—Little Fishing Creek	Basin, Source to Roaring Run	Clinton	HQ-CWF, MF	None
6—Roaring Run	Basin, Source to Camp Krislund	Centre	EV, MF	None
6—Roaring Run	Basin, Camp Krislund to Mouth	Centre	HQ-CWF, MF	None
5—Little Fishing Creek	Basin, Roaring Run to Mouth	Clinton	HQ-CWF, MF	None
4—Fishing Creek	Basin, Little Fishing Creek to Long Run	Clinton	HQ-CWF, MF	None
5—Long Run	Basin	Clinton	HQ-CWF, MF	None
4—Fishing Creek	Basin, Long Run to Mouth	Clinton	CWF, MF	None
4—Tributaries to Bald Eagle Creek	Basins, Fishing Creek to Harveys Run	Clinton	CWF, MF	None
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4—Tributaries to Bald Eagle Creek	Basins, Harveys Run to Mouth	Clinton	CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Tributaries to West Branch Susquehanna River	Basins, Bald Eagle Creek to McElhattan Creek	Clinton	CWF, MF	None
3—McElhattan Creek	Basin, Source to Keller Reservoir Water Supply Intake	Clinton	HQ-CWF, MF	None
3—McElhattan Creek	Basin, Keller Water Supply Intake to Mouth	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, McElhattan Creek to Chatham Run	Clinton	CWF, MF	None
3—Chatham Run	Basin, Source to Chatham Water Co. Intake	Clinton	HQ-CWF, MF	None
3—Chatham Run	Basin, Chatham Water Co. Intake to Mouth	Clinton	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Chatham Run to Henry Run	Clinton	CWF, MF	None
3—Henry Run	Basin	Clinton	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Henry Run to Pine Creek	Clinton	CWF, MF	None
3—Pine Creek	Basin, Source to South Branch Pine Creek	Potter	HQ-CWF, MF	None
4—South Branch Pine Creek	Basin	Potter	HQ-CWF, MF	None
3—Pine Creek	Main Stem, South Branch Pine Creek to Marsh Creek	Tioga	EV, MF	None
4—Tributaries to Pine Creek	Basins, South Branch Pine Creek to Johnson Brook	Potter	HQ-CWF, MF	None
4—Johnson Brook	Basin, Source to State Game Lands No. 64 Border at 41° 45' 8.2" N; 77° 37' 59.2" W	Potter	EV, MF	None
4—Johnson Brook	Basin, State Game Lands No. 64 Border at 41° 45' 8.2" N; 77° 37' 59.2" W to Mouth	Potter	HQ-CWF, MF	None
4—Tributaries to Pine Creek	Basins, Johnson Brook to Long Run	Potter-Tioga	HQ-CWF, MF	None
4—Long Run	Basin	Tioga	CWF, MF	None
4—Tributaries to Pine Creek	Basins, Long Run to Marsh Creek	Potter-Tioga	HQ-CWF, MF	None
4—Marsh Creek				
5—Charleston Creek	Basin, Source to Confluence with Morris Branch	Tioga	WWF, MF	None
5—Morris Branch	Basin, Source to Kelsey Creek	Tioga	CWF, MF	None
6—Kelsey Creek	Basin	Tioga	WWF, MF	None
5—Morris Branch	Basin, Kelsey Creek to Confluence with Charleston Creek	Tioga	CWF, MF	None
4—Marsh Creek	Main Stem, Confluence of Charleston Creek and Morris Branch to Straight Run	Tioga	WWF, MF	None
5—Tributaries to Marsh Creek	Basins, Confluence of Charleston Creek and Morris Branch to Baldwin Run	Tioga	CWF, MF	None
5—Baldwin Run	Basin	Tioga	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—Tributaries to Marsh Creek	Basins, Baldwin Run to Canada Run	Tioga	CWF, MF	None
5—Canada Run	Basin	Tioga	HQ-CWF, MF	None
5—Tributaries to Marsh Creek	Basins, Canada Run to Straight Run	Tioga	CWF, MF	None
5—Straight Run	Basin	Tioga	HQ-CWF, MF	None
4—Marsh Creek	Basin, Straight Run to Asaph Run	Tioga	CWF, MF	None
5—Asaph Run	Basin	Tioga	HQ-CWF, MF	None
4—Marsh Creek	Basin, Asaph Run to Mouth	Tioga	CWF, MF	None
3—Pine Creek	Main Stem, Marsh Creek to Mouth	Lycoming-Clinton	HQ-TSF, MF	None
4—Tributaries to Pine Creek	Basins, Marsh Creek to Pine Island Run	Tioga- Lycoming-Clinton	HQ-CWF, MF	None
4—Pine Island Run	Basin	Tioga	EV, MF	None
4—Tributaries to Pine Creek	Basins, Pine Island Run to Babb Creek	Tioga	HQ-CWF, MF	None
4—Babb Creek	Main Stem	Tioga	CWF, MF	None
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4—Trout Run	Basin	Lycoming	HQ-CWF, MF	None
4—Tributaries to Pine Creek	Basins, Babb Creek to Cedar Run	Tioga-Lycoming	HQ-CWF, MF	None
4—Cedar Run	Basin	Lycoming	EV, MF	None
4—Tributaries to Pine Creek	Basins, Cedar Run to Slate Run	Lycoming	HQ-CWF, MF	None
4—Slate Run	Basin	Lycoming	EV, MF	None
4—Tributaries to Pine Creek	Basins, Slate Run to Mill Run	Lycoming	HQ-CWF, MF	None
4—Mill Run	Basin, Source to Bull Run	Lycoming	EV, MF	None
5—Bull Run	Basin	Lycoming	HQ-CWF, MF	None
4—Mill Run	Basin, Bull Run to Mouth	Lycoming	HQ-CWF, MF	None
4—Tributaries to Pine Creek	Basins, Mill Run to Little Pine Creek	Lycoming	HQ-CWF, MF	None
4—Little Pine Creek				
5—Texas Creek (Zimmerman Creek)	Basin, Source to Confluence with Blockhouse Creek	Lycoming	HQ-CWF, MF	None
5—Blockhouse Creek	Basin, Source to Flicks Run	Lycoming	CWF, MF	None
6—Flicks Run	Basin	Lycoming	HQ-CWF, MF	None
5—Blockhouse Creek	Basin, Flicks Run to Confluence with Texas Creek	Lycoming	CWF, MF	None
4—Little Pine Creek	Main Stem, Confluence of Texas and Blockhouse Creeks to Little Pine Creek Dam	Lycoming	CWF, MF	None
5—Tributaries to Little Pine Creek	Basins, Confluence of Texas and Blockhouse Creeks to English Run	Lycoming	HQ-CWF, MF	None
5—English Run	Basin	Lycoming	CWF, MF	None
5—Tributaries to Little Pine Creek	Basins, English Run to Otter Run	Lycoming	HQ-CWF, MF	None
5—Otter Run	Basin	Lycoming	CWF, MF	None
5—Tributaries to Little Pine Creek	Basins, Otter Run to Little Pine Creek Dam	Lycoming	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Little Pine Creek	Main Stem, Little Pine Creek Dam to Mouth	Lycoming	TSF, MF	None
5—Tributaries to Little Pine Creek	Basins, Little Pine Creek Dam to Mouth	Lycoming	HQ-CWF, MF	None
3—Tributaries to North Bank of West Branch Susquehanna River	Basins, Pine Creek to Loyalsock Creek except Larrys Creek and Lycoming Creek	Lycoming	WWF, MF	None
3—Larrys Creek	Basin, Source to Second Fork Larrys Creek	Lycoming	HQ-CWF, MF	None
4—Second Fork Larrys Creek	Basin	Lycoming	HQ-CWF, MF	None
3—Larrys Creek	Basin, Second Fork to First Fork	Lycoming	WWF, MF	None
4—First Fork Larrys Creek	Basin	Lycoming	HQ-CWF, MF	None
3—Larrys Creek	Basin, First Fork to Mouth	Lycoming	WWF, MF	None
3—Lycoming Creek	Main Stem, Source to Long Run	Lycoming	CWF, MF	None
4—Tributaries to Lycoming Creek	Basins, Source to Red Run	Tioga-Lycoming	HQ-CWF, MF	None
4—Red Run	Basin	Lycoming	CWF, MF	None
4—Tributaries to Lycoming Creek	Basins, Red Run to Long Run	Lycoming	HQ-CWF, MF	None
4—Long Run	Basin	Lycoming	HQ-CWF, MF	None
3—Lycoming Creek	Basin, Long Run to Mouth	Lycoming	WWF, MF	None
3—Tributaries to South Bank of West Branch Susquehanna River	Basins, Pine Creek to Loyalsock Creek except Aughanbaugh Run, Antes Creek and Big Run	Lycoming	CWF, MF	None
3—Aughanbaugh Run	Basin	Lycoming	HQ-CWF, MF	None
* * * * *				
3—Antes Creek	Basin, Morgan Valley Run to Mouth	Lycoming	CWF, MF	None
3—Big Run	Basin	Lycoming	HQ-CWF, MF	None
3—Loyalsock Creek	Basin, Source to Pole Bridge Run	Lycoming	CWF, MF	None
4—Pole Bridge Run	Basin	Sullivan	HQ-CWF, MF	None
3—Loyalsock Creek	Basin, Pole Bridge Run to Shanerburg Run	Sullivan	CWF, MF	None
4—Shanerburg Run	Basin, Source to a point at 41° 25' 57.5" N; 76° 32' 12.9" W	Sullivan	EV, MF	None
4—Shanerburg Run	Basin, the point at 41° 25' 57.5" N; 76° 32' 12.9" W to Mouth	Sullivan	HQ-CWF, MF	None
3—Loyalsock Creek	Basin, Shanerburg Run to Tamarack Run	Sullivan	CWF, MF	None
4—Tamarack Run	Basin	Sullivan	HQ-CWF, MF	None
3—Loyalsock Creek	Basin, Tamarack Run to Big Run	Sullivan	CWF, MF	None
4—Big Run	Basin	Sullivan	HQ-CWF, MF	None
3—Loyalsock Creek	Basin, Big Run to Little Loyalsock Creek	Sullivan	CWF, MF	None
4—Little Loyalsock Creek	Basin	Sullivan	CWF, MF	None
3—Loyalsock Creek	Main Stem, Little Loyalsock Creek to Sullivan-Lycoming County Border at 41° 24' 7.8" N; 76° 44' 39.5" W	Sullivan	CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Tributaries to Loyalsock Creek	Basins, Little Loyalsock Creek to Ketchum Run	Sullivan	HQ-CWF, MF	None
4—Ketchum Run	Basin	Sullivan	EV, MF	None
4—Tributaries to Loyalsock Creek	Basins, Ketchum Run to Ogdonia Creek	Sullivan	HQ-CWF, MF	None
4—Ogdonia Creek	Basin, Source to Kettle Creek	Sullivan	HQ-CWF, MF	None
5—Kettle Creek	Basin	Sullivan	EV, MF	None
4—Ogdonia Creek	Basin, Kettle Creek to Mouth	Sullivan	HQ-CWF, MF	None
4—Tributaries to Loyalsock Creek	Basins, Ogdonia Creek to Sullivan-Lycoming County Border at 41° 24' 7.8" N; 76° 44' 39.5" W	Sullivan	HQ-CWF, MF	None
3—Loyalsock Creek	Main Stem, Sullivan-Lycoming County Border to PA 973 Bridge at 41° 19' 30.8" N; 76° 54' 42.6" W	Lycoming	TSF, MF	None
4—Tributaries to Loyalsock Creek	Basins, Sullivan-Lycoming County Border to Plunketts Creek	Lycoming	HQ-CWF, MF	None
4—Plunketts Creek	Basin, Source to Noon Branch	Lycoming	HQ-CWF, MF	None
5—Noon Branch	Basin, Source to Wolf Run	Lycoming	EV, MF	None
6—Wolf Run	Basin	Lycoming	HQ-CWF, MF	None
5—Noon Branch	Basin, Wolf Run to Mouth	Lycoming	HQ-CWF, MF	None
4—Plunketts Creek	Basin, Noon Branch to King Run	Lycoming	HQ-CWF, MF	None
5—King Run	Basin, Source to Engle Run	Lycoming	HQ-CWF, MF	None
6—Engle Run	Basin	Lycoming	EV, MF	None
5—King Run	Basin, Engle Run to Mouth	Lycoming	HQ-CWF, MF	None
4—Plunketts Creek	Basin, King Run to Mouth	Lycoming	HQ-CWF, MF	None
4—Tributaries to Loyalsock Creek	Basins, Plunketts Creek to PA 973 Bridge	Lycoming	HQ-CWF, MF	None
3—Loyalsock Creek	Basin, PA 973 Bridge to Mouth	Lycoming	TSF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Loyalsock Creek to Muncy Creek	Lycoming-Northumberland-Union	WWF, MF	None
3—Muncy Creek	Basin, Source to second SR 2002 Bridge upstream of Sonestown at 41° 21' 24.5" N; 76° 31' 34.9" W	Sullivan	EV, MF	None
3—Muncy Creek	Main Stem, Second SR 2002 Bridge upstream of Sonestown to US 220 Bridge at Muncy Valley at 41° 20' 36.3" N; 76° 35' 8.1" W	Sullivan	CWF, MF	None
4—Tributaries to Muncy Creek	Basins, Second SR 2002 Bridge upstream of Sonestown to US 220 Bridge at Muncy Valley	Sullivan	HQ-CWF, MF	None
3—Muncy Creek	Main Stem, US 220 Bridge at Muncy Valley to Mouth	Lycoming	TSF, MF	None
4—Tributaries to Muncy Creek	Basins, US 220 Bridge at Muncy Valley to Laurel Run	Sullivan-Lycoming	HQ-CWF, MF	None
4—Laurel Run	Basin	Lycoming	HQ-CWF, MF	None
4—Tributaries to Muncy Creek	Basins, Laurel Run to Mouth	Lycoming	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Muncy Creek to Black Hole Creek	Lycoming	WWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Black Hole Creek	Basin	Lycoming	TSF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Black Hole Creek to White Deer Hole Creek	Lycoming-Northumberland-Union	WWF, MF	None
3—White Deer Hole Creek	Basin, Source to Spring Creek	Union	HQ-CWF, MF	None
4—Spring Creek	Basin	Union	TSF, MF	None
3—White Deer Hole Creek	Basin, Spring Creek to Mouth	Union	TSF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, White Deer Hole Creek to White Deer Creek	Northumberland-Union	WWF, MF	None
3—White Deer Creek	Basin	Union	HQ-CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, White Deer Creek to Buffalo Creek	Northumberland-Union	WWF, MF	None
3—Buffalo Creek	Basin, Source to LR 59042 (SR 3005) Bridge at 40° 55' 24.0" N; 77° 7' 41.9" W	Union	HQ-CWF, MF	None
3—Buffalo Creek	Basin, Bridge to North Branch Buffalo Creek	Union	CWF, MF	None
4—North Branch Buffalo Creek	Basin, Source to Mifflinburg Water Supply Dam	Union	EV, MF	None
4—North Branch Buffalo Creek	Basin, Mifflinburg Water Supply Dam to Mouth	Union	HQ-CWF, MF	None
3—Buffalo Creek	Basin, North Branch Buffalo Creek to Rapid Run	Union	CWF, MF	None
4—Rapid Run	Basin	Union	HQ-CWF, MF	None
3—Buffalo Creek	Main Stem, Rapid Run to Mouth	Union	TSF, MF	None
4—Tributaries to Buffalo Creek	Basins, Rapid Run to Stony Run	Union	CWF, MF	None
4—Stony Run	Basin	Union	HQ-CWF, MF	None
4—Tributaries to Buffalo Creek	Basins, Stony Run to Spruce Run	Union	CWF, MF	None
4—Spruce Run	Basin, Source to eastern boundary of Bald Eagle State Forest at 41° 1' 43.8" N; 77° 0' 5.4" W	Union	EV, MF	None
4—Spruce Run	Basin, Eastern boundary of Bald Eagle State Forest to Mouth	Union	HQ-CWF, MF	None
4—Tributaries to Buffalo Creek	Basins, Spruce Run to Mouth	Union	CWF, MF	None
3—Tributaries to West Branch Susquehanna River	Basins, Buffalo Creek to Mouth	Northumberland-Union	WWF, MF	None

§ 93.9m. Drainage List M.

Susquehanna River Basin in Pennsylvania
Susquehanna River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
4—Kern Run	Basin	Snyder	CWF, MF	None
4—UNT 17823 at 40° 46' 30.7" N; 77° 4' 8.9" W (locally known as Bowersox Run)	Basin, Source to T3008	Snyder	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—UNT 17823	Basin, T3008 to Mouth	Snyder	CWF, MF	None
4—UNT 17821 at 40° 46' 38.9" N; 77° 3' 29.1" W (locally known as Erb Run)	Basin, Source to T3008	Snyder	HQ-CWF, MF	None
4—UNT 17821	Basin, T3008 to Mouth	Snyder	CWF, MF	None
4—Susquehecka Creek (Freeburg Run)	Basin	Snyder	CWF, MF	None
* * * * *				
2—Gurdy Run	Basin	Dauphin	WWF, MF	None
2—Armstrong Creek	Basin, Source to UNT 16835 at 40° 30' 31.1" N; 76° 50' 43.2" W	Dauphin	CWF, MF	None
3—UNT 16835	Basin, Source to SR 1003 Bridge at 40° 29' 45.1" N; 76° 47' 56.8" W	Dauphin	HQ-CWF, MF	None
3—UNT 16835	Basin, SR 1003 Bridge to Mouth	Dauphin	CWF, MF	None
2—Armstrong Creek	Basin, UNT 16835 to LR 22028 (SR 4001) Bridge	Dauphin	CWF, MF	None
2—Armstrong Creek	Basin, LR 22028 Bridge to Mouth	Dauphin	TSF, MF	None
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§ 93.9n. Drainage List N.

Susquehanna River Basin in Pennsylvania
Juniata River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
3—Raystown Branch Juniata River	Basin, Source to Breastwork Run	Somerset	CWF, MF	None
4—Breastwork Run	Basin	Somerset	HQ-CWF, MF	None
3—Raystown Branch Juniata River	Basin, Breastwork Run to Somerset-Bedford County Border at 39° 58' 49.3" N; 78° 45' 41.9" W	Somerset-Bedford	CWF, MF	None
3—Raystown Branch Juniata River	Main Stem, Somerset-Bedford County Border to Bedford-Huntingdon County Border at 40° 13' 49.5" N; 78° 14' 18.2" W	Bedford- Huntingdon	TSF, MF	None
4—Tributaries to Raystown Branch	Basins, Somerset-Bedford County Border to Shobers Run	Bedford	WWF, MF	None
4—Shobers Run	Basin	Bedford	HQ-CWF, MF	None
4—Tributaries to Raystown Branch	Basins, Shobers Run to Dunning Creek	Bedford	WWF, MF	None
4—Dunning Creek	Basin, Source to Stone Creek	Bedford	WWF, MF	None
5—Stone Creek	Basin, Source to Confluence with UNT 14908 at 40° 8' 55.0" N; 78° 33' 59.5" W	Bedford	WWF, MF	None
6—UNT 14908	Basin	Bedford	CWF, MF	None
5—Stone Creek	Basin, UNT 14908 to Mouth	Bedford	CWF, MF	None
4—Dunning Creek	Basin, Stone Creek to Bobs Creek	Bedford	WWF, MF	None
5—Bobs Creek	Basin, Source to Pavia Run	Bedford	HQ-CWF, MF	None
6—Pavia Run	Basin	Bedford	HQ-CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—Bobs Creek	Basin, Pavia Run to Mouth	Bedford	CWF, MF	None
4—Dunning Creek	Basin, Bobs Creek to Imlertown Run	Bedford	WWF, MF	None
5—Imlertown Run	Basin	Bedford	TSF, MF	None
4—Dunning Creek	Basin, Imlertown Run to Pleasant Valley Run	Bedford	WWF, MF	None
5—Pleasant Valley Run	Basin	Bedford	CWF, MF	None
4—Dunning Creek	Basin, Pleasant Valley Run to Mouth	Bedford	WWF, MF	None
4—Tributaries to Raystown Branch	Basins, Dunning Creek to Cove Creek	Bedford	WWF, MF	None
4—Cove Creek	Basin	Bedford	EV, MF	None
4—Tributaries to Raystown Branch	Basins, Cove Creek to Clear Creek	Bedford	WWF, MF	None
4—Clear Creek	Basin	Bedford	TSF, MF	None
4—Tributaries to Raystown Branch	Basins, Clear Creek to Brush Creek	Bedford	WWF, MF	None
4—Brush Creek	Basin, Source to Fulton-Bedford County Border at 39° 57' 6.3" N; 78° 14' 20.3" W	Fulton-Bedford	HQ-CWF, MF	None
4—Brush Creek	Basin, Fulton-Bedford County Border to Mouth	Bedford	WWF, MF	None
4—Tributaries to Raystown Branch	Basins, Brush Creek to Sherman Valley Run	Bedford	WWF, MF	None
4—Sherman Valley Run	Basin	Bedford	CWF, MF	None
4—Tributaries to Raystown Branch	Basins, Sherman Valley Run to Yellow Creek	Bedford	WWF, MF	None
4—Yellow Creek	Basin	Bedford	HQ-CWF, MF	None
4—Tributaries to Raystown Branch	Basins, Yellow Creek to Ravers Run	Bedford	WWF, MF	None
4—Ravers Run	Basin	Bedford	TSF, MF	None
4—Tributaries to Raystown Branch	Basins, Ravers Run to Bedford-Huntingdon County Border at 40° 13' 49.5" N; 78° 14' 18.2" W	Bedford	WWF, MF	None
3—Raystown Branch Juniata River	Basin, Bedford-Huntingdon County Border to Tatman Run	Huntingdon	WWF, MF	None
4—Tatman Run	Basin	Huntingdon	HQ-CWF, MF	None
3—Raystown Branch Juniata River	Basin, Tatman Run to Great Trough Creek	Huntingdon	WWF, MF	None
4—Great Trough Creek	Basin	Huntingdon	TSF, MF	None
3—Raystown Branch Juniata River	Basin, Great Trough Creek to Mouth	Huntingdon	WWF, MF	None
3—Unnamed Tributaries to Juniata River	Basins, Raystown Branch to Kishacoquillas Creek	Huntingdon-Mifflin	HQ-CWF, MF	None
* * * * *				

§ 93.9o. Drainage List O.

Susquehanna River Basin in Pennsylvania
Susquehanna River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
2—Conodoguinet Creek	Basin, Letterkenny Reservoir Dam to Trout Run	Franklin	CWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Trout Run	Basin, Source to Water Supply Dam	Franklin	EV, MF	None
3—Trout Run	Basin, Water Supply Dam to Mouth	Franklin	HQ-CWF, MF	None
2—Conodoguinet Creek	Basin, Trout Run to PA 997 at Roxbury	Franklin	CWF, MF	None
* * * * *				
3—Old Town Run	Basin	Cumberland	HQ-CWF, MF	None
2—Yellow Breeches Creek	Main Stem, LR 21012 to Mouth	Cumberland-York-Dauphin	CWF, MF	Add DO=Minimum 7.0 mg/L, June 1 to Sept. 30
3—Unnamed Tributaries to Yellow Breeches Creek	Basins, LR 21012 to Mouth	Cumberland-York	CWF, MF	None
* * * * *				
3—Indiantown Run	Basin, Inlet of Memorial Lake to Mouth	Lebanon	WWF, MF	None
3—Quittapahilla Creek	Basin	Lebanon	TSF, MF	None
3—Bow Creek	Basin	Dauphin	WWF, MF	None
3—Manada Creek	Basin, Source to I-81 at 40° 21' 48.6" N; 76° 42' 20.0" W	Dauphin	CWF, MF	None
3—Manada Creek	Basin, I-81 to Mouth	Dauphin	WWF, MF	None
* * * * *				
2—Wilson Run	Basin	York	WWF, MF	None
2—Boys Run	Basin	York	WWF, MF	None
2—Conestoga River	Basin, Source to UNT 07792 at 40° 8' 57.4" N; 76° 5' 24.9" W	Lancaster	WWF, MF	None
3—UNT 07792 to Conestoga River at 40° 8' 57.4" N; 76° 5' 24.9" W	Basin	Lancaster	CWF, MF	None
2—Conestoga River	Main Stem, UNT 07792 at 40° 8' 57.4" N; 76° 5' 24.9" W downstream to Mouth	Lancaster	WWF, MF	None
3—UNTs to Conestoga River	Basins, UNT 07792 to Mouth	Berks-Lancaster	WWF, MF	None
3—Muddy Creek	Basin, Source to UNT at 40° 13' 9.9" N; 76° 1' 16.7" W	Lancaster	WWF, MF	None
4—UNT at 40° 13' 9.9" N; 76° 1' 16.7" W	Basin	Lancaster	TSF, MF	None
3—Muddy Creek	Main Stem, UNT at 40° 13' 9.9" N; 76° 1' 16.7" W to Little Muddy Creek	Lancaster	TSF, MF	None
4—Unnamed Tributaries to Muddy Creek	Basins, UNT at 40° 13' 9.9" N; 76° 1' 16.7" W to Little Muddy Creek	Lancaster	WWF, MF	None
4—Rock Run	Basin	Lancaster	HQ-TSF, MF	None
* * * * *				
2—Pequea Creek	Main Stem, PA 897 to Mouth	Lancaster	WWF, MF	None
3—Unnamed Tributaries to Pequea Creek	Basins, PA 897 to Eshleman Run	Lancaster	CWF, MF	None
3—White Horse Run	Basin	Lancaster	WWF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Umbles Run	Basin	Lancaster	HQ-CWF, MF	None
3—Houston Run	Basin	Lancaster	CWF, MF	None
3—Eshleman Run	Basin	Lancaster	CWF, MF	None
3—Watson Run	Basin	Lancaster	WWF, MF	None
3—Walnut Run	Basin	Lancaster	WWF, MF	None
3—Little Beaver Creek	Basin	Lancaster	TSF, MF	None
3—Big Beaver Creek	Basin	Lancaster	TSF, MF	None
3—Huber Run	Basin	Lancaster	CWF, MF	None
3—Goods Run	Basin	Lancaster	TSF, MF	None
3—Silver Mine Run	Basin	Lancaster	TSF, MF	None
3—Climbers Run	Main Stem	Lancaster	CWF, MF	None
4—Unnamed Tributaries to Climbers Run	Basins	Lancaster	CWF, MF	None
4—Trout Run	Basin	Lancaster	HQ-CWF, MF	None
3—Unnamed Tributaries to Pequea Creek	Basins, Eshleman Run to UNT 07452	Lancaster	WWF, MF	None
3—UNT 07452 to Pequea Creek at 39° 54' 20.6" N; 76° 19' 41.8" W	Basin	Lancaster	HQ-CWF, MF	None
3—Unnamed Tributaries to Pequea Creek	Basins, UNT 07452 to UNT 07451	Lancaster	WWF, MF	None
3—UNT 07451 to Pequea Creek at 39° 54' 12.4" N; 76° 19' 43.0" W	Basin	Lancaster	CWF, MF	None
3—Unnamed Tributaries to Pequea Creek	Basins, UNT 07451 to Mouth	Lancaster	WWF, MF	None
2—Otter Creek	Main Stem, Source to Upstream Boundary of State Game Lands No. 83 (T 616)	York	CWF, MF	None
* * * * *				
2—Octoraro Creek	Main Stem, Confluence of East and West Branches to PA-MD State Border	Lancaster-Chester	WWF, MF	None
3—Unnamed Tributaries to Octoraro Creek	Basins, (all sections in PA) Confluence of East and West Branches to UNT 07001 at 39° 44' 1.7" N; 76° 5' 32.9" W	Lancaster-Chester	TSF, MF	None
3—Tweed Creek	Basin	Chester	TSF, MF	None
3—McCreary Run	Basin	Lancaster	HQ-TSF, MF	None
3—Blackburn Run	Basin	Chester	TSF, MF	None
3—Black Run	Basin, Source to UNT 07006 at 39° 44' 25.5" N; 76° 3' 15.9" W	Chester	EV, MF	None
4—UNT 07006	Basin	Chester	TSF, MF	None
3—Black Run	Basin, UNT 07006 to Mouth	Chester	TSF, MF	None
3—Hog Run	Basin	Chester	TSF, MF	None
3—UNT 07001 to Octoraro Creek at 39° 44' 1.7" N; 76° 5' 32.9" W	Basin	Chester	EV, MF	None
3—Unnamed Tributaries to Octoraro Creek	Basins, UNT 07001 to PA-MD State Border	Lancaster-Chester	TSF, MF	None
3—Reynolds Run	Basin	Lancaster	HQ-TSF, MF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
2—Octoraro Creek (MD)				
3—Unnamed Tributaries to Octoraro Creek	Basins (all sections in PA), PA-MD State Border to Mouth	Chester	TSF, MF	None
3—Stone Run	Basin (all sections in PA)	Chester	TSF, MF	None
2—Deer Creek	Basin (all sections in PA)	York	CWF, MF	None
* * * * *				
2—Elk River (MD)				
3—Big Elk Creek	Basin (all sections in PA)	Chester	HQ-TSF, MF	None
3—Little Elk Creek	Main Stem, Source to PA-MD State Border	Chester	HQ-TSF, MF	None
4—Unnamed Tributaries to Little Elk Creek	Basins (all sections in PA), Source to PA-MD State Border	Chester	HQ-TSF, MF	None
4—Jordan Run	Basin	Chester	EV, MF	None
4—Barren Brook	Basin	Chester	EV, MF	None
3—Little Elk Creek (MD)				
4—Unnamed Tributaries to Little Elk Creek	Basins (all sections in PA), PA-MD State Border to Mouth	Chester	TSF, MF	None
* * * * *				

§ 93.9p. Drainage List P.

Ohio River Basin in Pennsylvania

Allegheny River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
1—Ohio River				
2—Allegheny River	Basin, Source to Woodcock Creek	McKean	CWF	None
3—Woodcock Creek	Basin	Potter	HQ-CWF	None
2—Allegheny River	Basin, Woodcock Creek to UNT 58543 at 41° 49' 58.8" N; 77° 53' 51.9" W (locally known as Wambold Hollow)	Potter	CWF	None
3—UNT 58543 (Wambold Hollow)	Basin	Potter	HQ-CWF	None
2—Allegheny River	Basin, UNT 58543 to Dwight Creek	Potter	CWF	None
3—Dwight Creek	Basin	Potter	HQ-CWF	None
2—Allegheny River	Basin, Dwight Creek to Steer Run	Potter	CWF	None
3—Steer Run	Basin	Potter	HQ-CWF	None
2—Allegheny River	Basin, Steer Run to Mill Creek	Potter	CWF	None
3—Mill Creek	Basin, Source to North Hollow	Potter	HQ-CWF	None
3—Mill Creek	Basin, North Hollow to Mouth	Potter	CWF	None
2—Allegheny River	Basin, Mill Creek to Dingman Run	Potter	CWF	None
3—Dingman Run	Basin	Potter	HQ-CWF	None
2—Allegheny River	Basin, Dingman Run to Reed Run	Potter	CWF	None
3—Reed Run	Basin	Potter	HQ-CWF	None
2—Allegheny River	Basin, Reed Run to Laninger Creek	Potter	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Laninger Creek	Basin	Potter	HQ-CWF	None
2—Allegheny River	Basin, Laninger Creek to Fishing Creek	Potter	CWF	None
3—Fishing Creek	Basin, Source to East Branch Fishing Creek	Potter	CWF	None
4—East Branch Fishing Creek	Basin	Potter	HQ-CWF	None
3—Fishing Creek	Basin, East Branch Fishing Creek to Mouth	Potter	CWF	None
2—Allegheny River	Basin, Fishing Creek to Allegheny Portage Creek	Potter-McKean	CWF	None
3—Allegheny Portage Creek	Main Stem, Source to UNT 58235 at 41° 42' 18.6" N; 78° 11' 43.6" W	Potter	TSF	None
4—Tributaries to Allegheny Portage Creek	Basins, Source to UNT 58235 (locally known as Brown Hollow)	Potter	CWF	None
4—UNT 58235	Basin	Potter	HQ-CWF	None
3—Allegheny Portage Creek	Main Stem, UNT 58235 to Scaffold Lick Run	McKean	HQ-CWF	None
4—Tributaries to Allegheny Portage Creek	Basins, UNT 58235 to Fair Run	Potter-McKean	CWF	None
4—Fair Run	Basin	McKean	HQ-CWF	None
4—Tributaries to Allegheny Portage Creek	Basins, Fair Run to Scaffold Lick Run	McKean	CWF	None
4—Scaffold Lick Run	Basin	McKean	CWF	None
3—Allegheny Portage Creek	Main Stem, Scaffold Lick Run to Mouth	McKean	TSF	None
4—Tributaries to Allegheny Portage Creek	Basins, Scaffold Lick Run to Mouth	McKean	CWF	None
2—Allegheny River	Basin, Allegheny Portage Creek to Skinner Creek	McKean	CWF	None
3—Skinner Creek	Basin	McKean	HQ-CWF	None
2—Allegheny River	Basin, Skinner Creek to Potato Creek	McKean	CWF	None
3—Potato Creek				
4—East Branch Potato Creek	Basin, Source to Confluence with Havens Run	McKean	HQ-CWF	None
4—Havens Run	Basin, Source to Confluence with East Branch	McKean	CWF	None
3—Potato Creek	Main Stem, Confluence of East Branch and Havens Run to Cole Creek	McKean	TSF	None
4—Tributaries to Potato Creek	Basins, Confluence of East Branch and Havens Run to West Branch Potato Creek	McKean	CWF	None
4—West Branch Potato Creek	Basin	McKean	HQ-CWF	None
4—Tributaries to Potato Creek	Basins, West Branch Potato Creek to Brewer Run	McKean	CWF	None
4—Brewer Run	Basin	McKean	HQ-CWF	None
4—Tributaries to Potato Creek	Basins, Brewer Run to Red Mill Brook	McKean	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Red Mill Brook	Basin, Source to UNT 57891 at 41° 42' 42.7" N; 78° 28' 31.6" W (locally known as Wernwag Hollow)	McKean	CWF	None
5—UNT 57891	Basin	McKean	HQ-CWF	None
4—Red Mill Brook	Basin, UNT 57891 to Mouth	McKean	CWF	None
4—Tributaries to Potato Creek	Basins, Red Mill Brook to Colegrove Brook	McKean	CWF	None
4—Colegrove Brook	Basin	McKean	HQ-CWF	None
4—Tributaries to Potato Creek	Basins, Colegrove Brook to Robbins Brook	McKean	CWF	None
4—Robbins Brook	Basin	McKean	HQ-CWF	None
4—Tributaries to Potato Creek	Basins, Robbins Brook to Boyer Brook	McKean	CWF	None
4—Boyer Brook	Basin	McKean	HQ-CWF	None
4—Tributaries to Potato Creek	Basins, Boyer Brook to Daly Brook	McKean	CWF	None
4—Daly Brook	Basin	McKean	HQ-CWF	None
4—Tributaries to Potato Creek	Basins, Daly Brook to Marvin Creek	McKean	CWF	None
4—Marvin Creek	Basin, Source to UNT 57809 at 41° 41' 43.1" N; 78° 36' 1.0" W (locally known as Sherman Run)	McKean	CWF	None
5—UNT 57809	Basin	McKean	HQ-CWF	None
4—Marvin Creek	Basin, UNT 57809 to UNT 57801 at 41° 42' 23.1" N; 78° 35' 4.7" W (locally known as Santeen Run)	McKean	CWF	None
5—UNT 57801	Basin	McKean	HQ-CWF	None
4—Marvin Creek	Basin, UNT 57801 to Warner Brook	McKean	CWF	None
5—Warner Brook	Basin	McKean	HQ-CWF	None
4—Marvin Creek	Basin, Warner Brook to Stanton Brook	McKean	CWF	None
5—Stanton Brook	Basin	McKean	HQ-CWF	None
4—Marvin Creek	Basin, Stanton Brook to Blacksmith Run	McKean	CWF	None
5—Blacksmith Run	Basin, Source to Smethport Water Intake	McKean	HQ-CWF	None
5—Blacksmith Run	Basin, Smethport Water Intake to Mouth	McKean	CWF	None
4—Marvin Creek	Basin, Blacksmith Run to Mouth	McKean	CWF	None
4—Tributaries to Potato Creek	Basins, Marvin Creek to Cole Creek	McKean	CWF	None
4—Cole Creek				
5—South Branch Cole Creek	Basin, Source to Confluence with North Branch	McKean	EV	None
5—North Branch Cole Creek	Basin, Source to Confluence with South Branch	McKean	CWF	None
4—Cole Creek	Basin, Confluence of North and South Branches to Mouth	McKean	CWF	None
3—Potato Creek	Main Stem, Cole Creek to Mouth	McKean	WWF	None
4—Tributaries to Potato Creek	Basins, Cole Creek to Mouth	McKean	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
2—Allegheny River	Basin (all sections in PA), Potato Creek to PA-NY State Border	McKean	CWF	None
2—Allegheny River (NY)				
3—Unnamed Tributaries to Allegheny River	Basins (all sections in PA), PA-NY State Border to Tunungwant Creek	McKean	CWF	None
3—Oswayo Creek	Basin, Source to Hemlock Hollow Run	Potter	CWF	None
4—Hemlock Hollow Run (locally known as Brizzee Hollow)	Basin	Potter	HQ-CWF	None
3—Oswayo Creek	Basin, Hemlock Hollow Run to South Branch Oswayo Creek	Potter	HQ-CWF	None
4—South Branch Oswayo Creek	Basin	Potter	EV	None
3—Oswayo Creek	Basin, South Branch Oswayo Creek to Clara Creek	Potter	HQ-CWF	None
4—Clara Creek	Basin, Source to Bradley Run	Potter	CWF	None
5—Bradley Run	Basin	Potter	HQ-CWF	None
4—Clara Creek	Basin, Bradley Run to Mouth	Potter	CWF	None
3—Oswayo Creek	Basin, Clara Creek to Elevenmile Creek	Potter	CWF	None
4—Elevenmile Creek	Basin	Potter	HQ-CWF	None
3—Oswayo Creek	Basin, Elevenmile Creek to Cow Run	Potter	CWF	None
4—Cow Run	Basin	Potter	HQ-CWF	None
3—Oswayo Creek	Basin, Cow Run to Honeoye Creek	Potter	CWF	None
4—Honeoye Creek (NY)				
5—Tributaries to Honeoye Creek	Basins (all sections in PA), Source to PA-NY State Border at 41° 59' 58.2" N; 78° 1' 53.1" W	Potter	CWF	None
4—Honeoye Creek	Basin (all sections in PA), PA-NY State Border at 42° 0' 1.1" N; 78° 6' 34.4" W to Butter Creek	Potter	CWF	None
5—Butter Creek	Basin	Potter	HQ-CWF	None
4—Honeoye Creek	Basin (all sections in PA), Butter Creek to Mouth	Potter	CWF	None
3—Oswayo Creek	Main Stem, Honeoye Creek to PA-NY State Border at 41° 59' 57.7" N; 78° 18' 9.2" W	McKean	WWF	None
4—Tributaries to Oswayo Creek	Basins (all sections in PA), Honeoye Creek to Janders Run	Potter-McKean	CWF	None
4—Janders Run	Basin	McKean-Potter	HQ-CWF	None
4—Tributaries to Oswayo Creek	Basins (all sections in PA), Janders Run to Bell Run	Potter-McKean	CWF	None
4—Bell Run	Basin, Source to Taylor Brook	McKean	CWF	None
5—Taylor Brook	Basin	McKean	HQ-CWF	None
4—Bell Run	Basin, Taylor Brook to Mouth	McKean	CWF	None
4—Tributaries to Oswayo Creek	Basins (all sections in PA), Bell Run to Mouth	Potter-McKean	CWF	None
3—Oswayo Creek (NY)				

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Tributaries to Oswayo Creek	Basins (all sections in PA), PA-NY State Border at 41° 59' 57.7" N; 78° 18' 9.2" W to Mouth	McKean	CWF	None
3—Tunungwant Creek				
4—East Branch Tunungwant Creek	Basin, Source to Railroad Run	McKean	HQ-CWF	None
5—Railroad Run	Basin	McKean	EV	None
4—East Branch Tunungwant Creek	Basin, Railroad Run to T-331 Bridge at 41° 53' 10.3" N; 78° 39' 18.1" W	McKean	HQ-CWF	None
4—East Branch Tunungwant Creek	Main Stem, T-331 Bridge to SR 4002 Bridge at 41° 55' 46.1" N; 78° 38' 51.3" W	McKean	HQ-CWF	None
5—Tributaries to East Branch Tunungwant Creek	Basins, T-331 Bridge to Minard Run	McKean	CWF	None
5—Minard Run	Basin	McKean	EV	None
5—Tributaries to East Branch Tunungwant Creek	Basins, Minard Run to SR 4002	McKean	CWF	None
4—East Branch Tunungwant Creek	Basin, SR 4002 to Confluence with West Branch	McKean	CWF	None
4—West Branch Tunungwant Creek	Basin, Source to Marilla Brook	McKean	HQ-CWF	None
5—Marilla Brook	Basin, Source to Bradford Water Dam	McKean	HQ-CWF	None
5—Marilla Brook	Basin, Bradford Water Dam to Gilbert Brook	McKean	CWF	None
6—Gilbert Brook	Basin	McKean	HQ-CWF	None
5—Marilla Brook	Basin, Gilbert Brook to Mouth	McKean	CWF	None
4—West Branch Tunungwant Creek	Basin, Marilla Brook to Confluence with East Branch	McKean	CWF	None
3—Tunungwant Creek	Main Stem, Confluence of East and West Branches to PA-NY State Border at 41° 59' 59.1" N; 78° 37' 21.7" W	McKean	WWF	None
4—Tributaries to Tunungwant Creek	Basins (all sections in PA), Confluence of East and West Branches to Kendall Creek	McKean	CWF	None
4—Kendall Creek	Basin	McKean	WWF	None
4—Tributaries to Tunungwant Creek	Basins (all sections in PA), Kendall Creek to PA-NY State Border	McKean	CWF	None
3—Tunungwant Creek (NY)				
4—Tributaries to Tunungwant Creek	Basins (all sections in PA) PA-NY State Border to Mouth	McKean	CWF	None

§ 93.9q. Drainage List Q.

Ohio River Basin in Pennsylvania

Allegheny River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
1—Ohio River				
2—Allegheny River (NY)				

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Unnamed Tributaries to Allegheny River	Basins (all sections in PA), Tunungwant Creek to PA-NY State Border at 41° 59' 55.4" N; 78° 57' 14.6" W	McKean-Warren	CWF	None
3—Quaker Run (NY)				
4—Tributaries to Quaker Run	Basins (all sections in PA)	McKean	HQ-CWF	None
3—Wolf Run	Basin, (all sections in PA)	McKean	HQ-CWF	None
3—State Line Run	Basin (all sections in PA)	Warren	CWF	None
2—Allegheny River	Main Stem, PA-NY State Border at 41° 59' 55.4" N; 78° 57' 14.6" W to Clarion River	Clarion	WWF	None
3—Tributaries to Allegheny River	Basins, PA-NY State Border to Willow Creek	Warren	CWF	None
3—Willow Creek	Basin (all sections in PA)	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Willow Creek to Cornplanter Run	Warren	CWF	None
3—Cornplanter Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Cornplanter Run to Hodge Run	Warren	CWF	None
3—Hodge Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Hodge Run to Sugar Run	Warren	CWF	None
3—Sugar Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Sugar Run to Kinzua Creek	Warren	CWF	None
3—Kinzua Creek	Basin, Source to Wintergreen Run	McKean	CWF	None
4—Wintergreen Run	Basin	McKean	CWF	None
3—Kinzua Creek	Main Stem, Wintergreen Run to Mouth	Warren	CWF	None
4—Tributaries to Kinzua Creek	Basins, Wintergreen Run to South Branch Kinzua Creek	McKean	HQ-CWF	None
4—South Branch Kinzua Creek	Basin, Source to Hubert Run	McKean	HQ-CWF	None
5—Hubert Run	Basin	McKean	CWF	None
4—South Branch Kinzua Creek	Basin, Hubert Run to Mouth	McKean	HQ-CWF	None
4—Tributaries to Kinzua Creek	Basins, South Branch Kinzua Creek to Chappel Fork	McKean	HQ-CWF	None
4—Chappel Fork	Main Stem	McKean	CWF	None
5—Tributaries to Chappel Fork	Basins, Source to Mouth	McKean	HQ-CWF	None
4—Tributaries to Kinzua Creek	Basins, Chappel Fork to Mouth	McKean-Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Kinzua Creek to Jackson Run	Warren	CWF	None
3—Jackson Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Jackson Run to Bent Run	Warren	CWF	None
3—Bent Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Bent Run to Hemlock Run	Warren	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Hemlock Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Hemlock Run to Browns Run	Warren	CWF	None
3—Browns Run	Basin, Source to Dutchman Run	Warren	EV	None
* * * * *				
3—Browns Run	Basin, Morrison Run to Mouth	Warren	CWF	None
3—Tributaries to Allegheny River	Basins, Browns Run to Glade Run	Warren	CWF	None
3—Glade Run	Basin, Source to Concrete Channel	Warren	CWF	None
3—Glade Run	Basin, Concrete Channel at 41° 49' 48.1" N; 79° 7' 11.7" W to Mouth	Warren	WWF	None
3—Tributaries to Allegheny River	Basins, Glade Run to Conewango Creek	Warren	CWF	None
3—Conewango Creek (NY)				
4—Tributaries to Conewango Creek	Basins (all sections in PA), Source to PA-NY State Border at 41° 59' 58.6" N; 79° 8' 43.0" W	Warren	CWF	None
3—Conewango Creek	Main Stem, PA-NY State Border to Mouth	Warren	WWF	None
4—Tributaries to Conewango Creek	Basins (all sections in PA), PA-NY State Border to North Branch Akeley Run	Warren	CWF	None
4—North Branch Akeley Run	Basin, Source to Vanarsdale Run	Warren	CWF	None
5—Vanarsdale Run	Basin	Warren	HQ-CWF	None
4—North Branch Akeley Run	Basin, Vanarsdale Run to Mouth	Warren	CWF	None
4—Tributaries to Conewango Creek	Basins, North Branch Akeley Run to Akeley Run	Warren	CWF	None
4—Akeley Run	Basin, Source to Mill Run	Warren	CWF	None
5—Mill Run	Basin	Warren	HQ-CWF	None
4—Akeley Run	Basin, Mill Run to Mouth	Warren	CWF	None
4—Tributaries to Conewango Creek	Basins, Akeley Run to Mouth	Warren	CWF	None
3—Tributaries to Allegheny River	Basins, Conewango Creek to Morse Run	Warren	CWF	None
3—Morse Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Morse Run to Brokenstraw Creek	Warren	CWF	None
3—Brokenstraw Creek (NY)				
4—Tributaries to Brokenstraw Creek	Basins (all sections in PA), Source to PA-NY State Border at 41° 59' 55.7" N; 79° 37' 19.0" W	Erie-Warren	CWF	None
3—Brokenstraw Creek	Basin, PA-NY State Border to Hare Creek	Warren	CWF	None
4—Hare Creek	Basin, Source to Scotia Street Bridge at 41° 56' 30.1" N; 79° 38' 37.3" W	Warren	CWF	None
4—Hare Creek	Main Stem, Scotia Street Bridge to Mouth	Warren	WWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—Tributaries to Hare Creek	Basins, Scotia Street Bridge to Mouth	Warren-Erie	CWF	None
3—Brokenstraw Creek	Basin, Hare Creek to Spring Creek	Warren	CWF	None
4—Spring Creek	Basin	Warren	HQ-CWF	None
3—Brokenstraw Creek	Basin, Spring Creek to Blue Eye Run	Warren	CWF	None
4—Blue Eye Run	Basin, Source to SR 0027 Bridge at 41° 49' 7.9" N; 79° 25' 44.1" W	Warren	EV	None
4—Blue Eye Run	Basin, SR 0027 Bridge to mouth	Warren	CWF	None
3—Brokenstraw Creek	Basin (all sections in PA), Blue Eye Run to Mouth	Warren	CWF	None
3—Tributaries to Allegheny River	Basins, Brokenstraw Creek to Hedgehog Run	Warren	CWF	None
3—Hedgehog Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Hedgehog Run to Slater Run	Warren	CWF	None
3—Slater Run	Basin	Warren	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Slater Run to Tidioute Creek	Warren	CWF	None
3—Tidioute Creek	Basin, Source to Ben George Reservoir Dam	Warren	HQ-CWF	None
3—Tidioute Creek	Basin, Ben George Reservoir Dam to Mouth	Warren	CWF	None
3—Tributaries to Allegheny River	Basins, Tidioute Creek to East Hickory Creek	Warren-Forest	CWF	None
3—East Hickory Creek	Basin, Source to Forest Highway 119 at 41° 38' 30.9" N; 79° 20' 16.4" W	Warren	EV	None
3—East Hickory Creek	Basin, Forest Highway 119 to Mouth	Forest	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, East Hickory Creek to Little Hickory Run	Forest	CWF	None
3—Little Hickory Run	Basin	Forest	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Little Hickory Run to West Hickory Creek	Forest	CWF	None
3—West Hickory Creek	Basin, Source to Martin Run	Forest	HQ-CWF	None
4—Martin Run	Basin	Forest	CWF	None
3—West Hickory Creek	Basin, Martin Run to Mouth	Forest	CWF	None
3—Tributaries to Allegheny River	Basins, West Hickory Creek to Tubbs Run	Forest	CWF	None
3—Tubbs Run	Basin	Forest	HQ-CWF	None
3—Tributaries to Allegheny River	Basins, Tubbs Run to Tionesta Creek	Forest	CWF	None
3—Tionesta Creek				
3—West Branch Tionesta Creek	Basin, Source to Wildcat Run	Warren	HQ-CWF	None
4—Wildcat Run	Basin	Warren	EV	None
3—West Branch Tionesta Creek	Basin, Wildcat Run to Farnsworth Branch	Warren	HQ-CWF	None
4—Farnsworth Branch	Basin	Warren	HQ-CWF	None
4—West Branch Tionesta Creek	Basin, Farnsworth Branch to Arnot Run	Warren	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
5—Arnot Run	Basin	Warren	EV	None
4—West Branch Tionesta Creek	Basin, Arnot Run to Sixmile Run	Warren	CWF	None
5—Sixmile Run	Basin	Warren	HQ-CWF	None
4—West Branch Tionesta Creek	Basin, Sixmile Run to Fourmile Run	Warren	CWF	None
5—Fourmile Run	Basin	Warren	HQ-CWF	None
4—West Branch Tionesta Creek	Basin, Fourmile Run to Twomile Run	Warren	CWF	None
5—Twomile Run	Basin	Warren	HQ-CWF	None
4—West Branch Tionesta Creek	Basin, Twomile Run to South Branch Tionesta Creek	Warren	CWF	None
4—South Branch Tionesta Creek	Basin, Source to Crane Run	Warren	HQ-CWF	None
5—Crane Run	Basin	Elk	EV	None
4—South Branch Tionesta Creek	Basin, Crane Run to Mouth	Warren	HQ-CWF	None
3—Tionesta Creek	Basin, Confluence of West and South Branches to Messenger Run	Warren	CWF	None
4—Messenger Run	Basin	Warren	EV	None
3—Tionesta Creek	Basin, Messenger Run to Bluejay Creek	Warren-Forest	CWF	None
4—Bluejay Creek	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Bluejay Creek to Upper Sheriff Run	Forest	CWF	None
4—Upper Sheriff Run	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Upper Sheriff Run to Lower Sheriff Run	Forest	CWF	None
4—Lower Sheriff Run	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Lower Sheriff Run to Fools Creek	Forest	CWF	None
4—Fools Creek	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Fools Creek to Minister Creek	Forest	CWF	None
4—Minister Creek	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Minister Creek to Blood Run	Forest	CWF	None
4—Blood Run	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Blood Run to Logan Run	Forest	CWF	None
4—Logan Run	Basin	Forest	CWF	None
3—Tionesta Creek	Basin, Logan Run to Bobbs Creek	Forest	CWF	None
4—Bobbs Creek	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Bobbs Creek to Fork Run	Forest	CWF	None
4—Fork Run	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Fork Run to Salmon Creek	Forest	CWF	None
4—Salmon Creek	Basin, Source to Fourmile Run	Forest	HQ-CWF	None
5—Fourmile Run	Basin	Forest	EV	None
4—Salmon Creek	Basin, Fourmile Run to Mouth	Forest	HQ-CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Tionesta Creek	Basin, Salmon Creek to Bear Creek	Forest	CWF	None
4—Bear Creek	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Bear Creek to Ross Run	Forest	CWF	None
4—Ross Run	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Ross Run to Little Coon Creek	Forest	CWF	None
4—Little Coon Creek	Basin	Forest	HQ-CWF	None
3—Tionesta Creek	Basin, Little Coon Creek to Mouth	Forest	CWF	None
3—Tributaries to Allegheny River	Basins, Tionesta Creek to Hemlock Creek	Forest-Venango	CWF	None
3—Hemlock Creek	Basin	Venango	EV	None
3—Tributaries to Allegheny River	Basins, Hemlock Creek to Oil Creek	Venango	CWF	None
3—Oil Creek	Basin, Source to Thompson Creek	Venango	CWF	None
4—Thompson Creek	Basin, Source to Shirley Run	Crawford	CWF	None
5—Shirley Run	Basin	Crawford	HQ-CWF	None
4—Thompson Creek	Basin, Shirley Run to Mouth	Crawford	CWF	None
3—Oil Creek	Basin, Thompson Creek to Pine Creek	Crawford	CWF	None
4—Pine Creek	Basin, Source to Caldwell Creek	Crawford	HQ-CWF	None
5—Caldwell Creek	Basin, Source to West Branch Caldwell Creek	Warren	HQ-CWF	None
6—West Branch Caldwell Creek	Basin	Warren	EV	None
5—Caldwell Creek	Basin, West Branch Caldwell Creek to Mouth	Crawford	EV	None
4—Pine Creek	Basin, Caldwell Creek to Mouth	Crawford	CWF	None
3—Oil Creek	Basin, Pine Creek to Cherrytree Run	Crawford	CWF	None
4—Cherrytree Run	Basin	Venango	CWF	None
3—Oil Creek	Main Stem, Cherrytree Run to Mouth	Venango	WWF	None
4—Tributaries to Oil Creek	Basins, Cherrytree Run to Cherry Run	Venango	CWF	None
4—Cherry Run	Basin, Source to Rouseville Corporate Boundary at 41° 28' 37.5" N; 79° 40' 47.9" W	Venango	HQ-CWF	None
4—Cherry Run	Basin, Rouseville Corporate Boundary to Mouth	Venango	CWF	None
4—Tributaries to Oil Creek	Basins, Cherry Run to Mouth	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Oil Creek to French Creek	Venango	CWF	None
3—French Creek (NY)				
4—Unnamed Tributaries to French Creek	Basins (all sections in PA), Source to PA-NY State Border at 42° 1' 12.1" N; 79° 45' 42.7" W	Erie	WWF	None
4—Cutting Brook	Basin (all sections in PA)	Erie	WWF	None
4—Herrick Creek	Basin (all sections in PA)	Erie	WWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—French Creek	Basin (all sections in PA), PA-NY State Border to Hubble Run	Erie	WWF	None
4—Hubble Run	Basin (including the Wattsburg Fen), Source to the 1350 ft Contour Line at 41° 58' 10.2" N; 79° 45' 58.7" W	Erie	HQ-WWF	None
4—Hubble Run	Basin, 1350 ft. Contour Line to Mouth	Erie	WWF	None
3—French Creek	Basin, Hubble Run to West Branch French Creek	Erie	WWF	None
4—West Branch French Creek (NY)				
5—Tributaries to West Branch French Creek	Basins (all sections in PA), Source to PA-NY State Border at 42° 7' 57.8" N; 79° 45' 43.1" W	Erie	WWF	None
4—West Branch French Creek	Basin (all sections in PA), PA-NY State Border to Mouth	Erie	WWF	None
3—French Creek	Basin, West Branch French Creek to Lake Pleasant Outlet	Erie	WWF	None
4—Lake Pleasant Outlet	Basin	Erie	HQ-CWF	None
3—French Creek	Basin, Lake Pleasant Outlet to Alder Run	Erie	WWF	None
4—Alder Run	Basin	Erie	CWF	None
3—French Creek	Basin, Alder Run to South Branch French Creek	Erie	WWF	None
4—South Branch French Creek	Basin, Source to Beaver Run	Erie	CWF	None
5—Beaver Run	Basin	Erie	EV	None
4—South Branch French Creek	Basin, Beaver Run to Mouth	Erie	CWF	None
3—French Creek	Basin, South Branch French Creek to Le Boeuf Creek	Erie	WWF	None
4—Le Boeuf Creek	Basin, Source to Trout Run	Erie	TSF	None
5—Trout Run	Basin	Erie	HQ-CWF	None
4—LeBoeuf Creek	Basin, Trout Run to Mouth	Erie	TSF	None
3—French Creek	Basin, Le Boeuf Creek to Campbell Run	Erie-Crawford	WWF	None
4—Campbell Run	Basin	Crawford	TSF	None
3—French Creek	Basin, Campbell Run to Kelly Run	Crawford	WWF	None
4—Kelly Run	Basin	Crawford	HQ-CWF	None
3—French Creek	Basin, Kelly Run to Muddy Creek	Crawford	WWF	None
4—Muddy Creek	Basin, Source to East Branch Muddy Creek	Crawford	HQ-CWF	None
5—East Branch Muddy Creek	Basin	Crawford	HQ-CWF	None
4—Muddy Creek	Main Stem, East Branch Muddy Creek to Mackey Run	Crawford	HQ-TSF	None
5—Tributaries to Muddy Creek	Basins, East Branch Muddy Creek to Mackey Run	Crawford	HQ-CWF	None
5—Mackey Run	Basin	Crawford	HQ-CWF	None
4—Muddy Creek	Basin, Mackey Run to Mouth	Crawford	HQ-TSF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—French Creek	Basin, Muddy Creek to Conneauttee Creek	Crawford	WWF	None
4—Conneauttee Creek	Basins, Source to Outlet of Edinboro Lake	Erie	WWF	None
4—Conneauttee Creek	Main Stem, Outlet of Edinboro Lake to Erie-Crawford County Border at 41° 50' 58.9" N; 80° 5' 50.2" W	Erie-Crawford	TSF	None
5—Tributaries to Conneauttee Creek	Basins, Outlet of Edinboro Lake to Erie-Crawford County Border	Erie	WWF	None
4—Conneauttee Creek	Basin, Erie-Crawford County Border to Little Conneauttee Creek	Crawford	WWF	None
5—Little Conneauttee Creek	Basin	Crawford	CWF	None
4—Conneauttee Creek	Basin, Little Conneauttee Creek to Mouth	Crawford	WWF	None
3—French Creek	Basin, Conneauttee Creek to Woodcock Creek	Crawford	WWF	None
4—Woodcock Creek	Basin, Source to Woodcock Creek Reservoir Dam	Crawford	HQ-CWF	None
4—Woodcock Creek	Basin, Woodcock Reservoir Dam to Mouth	Crawford	CWF	None
3—French Creek	Basin, Woodcock Creek to Conneaut Outlet	Crawford	WWF	None
4—Conneaut Outlet	Basin, Source to Conneaut Lake Dam	Crawford	HQ-WWF	None
4—Conneaut Outlet	Basin, Conneaut Lake Dam to Mouth	Crawford	WWF	None
3—French Creek	Basin, Conneaut Outlet to Little Sugar Creek	Crawford	WWF	None
4—Little Sugar Creek	Basin	Crawford	CWF	None
3—French Creek	Basin, Little Sugar Creek to McCune Run	Crawford-Mercer-Venango	WWF	None
4—McCune Run	Basin	Venango	CWF	None
3—French Creek	Basin, McCune Run to Mill Creek	Venango	WWF	None
4—Mill Creek	Basin	Venango	CWF	None
3—French Creek	Basin, Mill Creek to Sugar Creek	Venango	WWF	None
4—Sugar Creek	Basin, Source to East Branch Sugar Creek at 41° 36' 13.8" N; 79° 51' 7.7" W	Crawford	CWF	None
5—East Branch Sugar Creek	Basin, Source to SR 0428 Bridge at 41° 38' 28.9" N; 79° 49' 20.0" W	Crawford	CWF	None
5—East Branch Sugar Creek	Basin, SR 0428 Bridge to Mouth	Crawford	HQ-CWF	None
4—Sugar Creek	Basin, East Branch Sugar Creek to Mouth	Venango	CWF	None
3—French Creek	Basin, Sugar Creek to Mouth	Venango	WWF	None
3—Tributaries to Allegheny River	Basins, French Creek to Lower Twomile Run	Venango	WWF	None
3—Lower Twomile Run	Basin	Venango	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Tributaries to Allegheny River	Basins, Lower Twomile Run to East Sandy Creek	Venango	WWF	None
3—East Sandy Creek	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, East Sandy Creek to Snyder Run	Venango	WWF	None
3—Snyder Run	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Snyder Run to Sandy Creek	Venango	WWF	None
3—Sandy Creek	Main Stem	Venango	WWF	None
* * * * *				
4—Ditzenberger Run	Basin	Venango	WWF	None
3—Tributaries to Allegheny River	Basins, Sandy Creek to Pine Hill Run	Venango	WWF	None
3—Pine Hill Run	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Pine Hill Run to Dennison Run	Venango	WWF	None
3—Dennison Run	Basin	Venango	EV	None
3—Tributaries to Allegheny River	Basins, Dennison Run to Scrubgrass Creek	Venango	WWF	None
3—Scrubgrass Creek	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Scrubgrass Creek to UNT 51240 at 41° 15' 41.8" N, 79° 49' 53.7" W	Venango	WWF	None
3—UNT 51240	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, UNT 51240 to Roberts Run	Venango	WWF	None
3—Roberts Run	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Roberts Run to Whitherup Run	Venango	WWF	None
3—Whitherup Run	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Whitherup Run to Little Scrubgrass Creek	Venango	WWF	None
3—Little Scrubgrass Creek	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Little Scrubgrass Creek to Shull Run	Venango	WWF	None
3—Shull Run	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Shull Run to Mill Creek	Venango	WWF	None
3—Mill Creek	Basin	Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Mill Creek to Richey Run	Venango	WWF	None
3—Richey Run	Basin	Clarion-Venango	CWF	None
3—Tributaries to Allegheny River	Basins, Richey Run to Clarion River	Venango-Clarion	WWF	None

§ 93.9r. Drainage List R.

Ohio River Basin in Pennsylvania

Clarion River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
1—Ohio River				
2—Allegheny River				

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Clarion River				
4—East Branch Clarion River	Basin, Source to Confluence with West Branch	Elk	HQ-CWF	None
4—West Branch Clarion River	Basin, Source to Wolf Run	Elk	CWF	None
5—Wolf Run	Basin	Elk	HQ-CWF	None
4—West Branch Clarion River	Basin, Wolf Run to Silver Creek	Elk	CWF	None
5—Silver Creek	Basin	Elk	HQ-CWF	None
4—West Branch Clarion River	Basin, Silver Creek to Confluence with East Branch	Elk	CWF	None
3—Clarion River	Basin, Confluence of East and West Branches to Riley Run	Elk	CWF	None
4—Riley Run	Basin	Elk	WWF	None
3—Clarion River	Basin, Riley Run to Little Mill Creek	Elk	CWF	None
4—Little Mill Creek	Basin	Elk	HQ-CWF	None
3—Clarion River	Basin, Little Mill Creek to Big Mill Creek	Elk	CWF	None
4—Big Mill Creek	Basin	Elk	HQ-CWF	None
3—Clarion River	Basin, Big Mill Creek to Little Toby Creek	Elk	CWF	None
4—Little Toby Creek	Basin, Source to Sawmill Run	Elk	CWF	None
5—Sawmill Run	Main Stem	Elk	CWF	None
6—Unnamed Tributaries to Sawmill Run	Basins	Elk	CWF	None
6—UNT 50397 at 41° 17' 39.8" N; 78° 38' 6.3" W (locally known as Lost Run)	Basin, Source to Fox Township Municipal Authority Dam	Elk	HQ-CWF	None
6—UNT 50397	Basin, Fox Township Municipal Authority Dam to Mouth	Elk	CWF	None
4—Little Toby Creek	Basin, Sawmill Run to Boggy Run	Elk	CWF	None
5—Boggy Run	Basin	Elk	HQ-CWF	None
4—Little Toby Creek	Basin, Boggy Run to Whetstone Branch	Elk	CWF	None
5—Whetstone Branch	Basin, Source to Brockway Municipal Authority No. 1 Dam	Elk	HQ-CWF	None
5—Whetstone Branch	Basin, Brockway Municipal Authority No. 1 Dam to Mouth	Elk	CWF	None
4—Little Toby Creek	Basin, Whetstone Branch to Rattlesnake Creek	Jefferson	CWF	None
5—Rattlesnake Creek	Basin, Source to Brockway Municipal Authority Dam	Jefferson	HQ-CWF	None
5—Rattlesnake Creek	Basin, Brockway Municipal Authority Dam to Mouth	Jefferson	CWF	None
4—Little Toby Creek	Basin, Rattlesnake Creek to Vineyard Run	Jefferson	CWF	None
5—Vineyard Run	Basin	Elk	HQ-CWF	None
4—Little Toby Creek	Basin, Vineyard Run to Mouth	Jefferson	CWF	None
3—Clarion River	Basin, Little Toby Creek to Bear Creek	Elk	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Bear Creek	Basin	Elk	HQ-CWF	None
3—Clarion River	Basin, Bear Creek to Crow Run	Elk	CWF	None
4—Crow Run	Basin, Source to Cole Run	Elk	HQ-CWF	None
5—Cole Run	Basin	Elk	CWF	None
4—Crow Run	Basin, Cole Run to Mouth	Elk	HQ-CWF	None
3—Clarion River	Basin, Crow Run to Spring Creek	Elk	CWF	None
4—Spring Creek	Basin	Elk	HQ-CWF	None
3—Clarion River	Basin, Spring Creek to Maxwell Run	Elk	CWF	None
4—Maxwell Run	Basin	Elk	HQ-CWF	None
3—Clarion River	Basin, Maxwell Run to Callen Run	Elk-Jefferson	CWF	None
4—Callen Run	Basin	Jefferson	HQ-CWF	None
3—Clarion River	Basin, Callen Run to Wyncoop Run	Elk-Jefferson	CWF	None
4—Wyncoop Run	Basin	Elk	HQ-CWF	None
3—Clarion River	Basin, Wyncoop Run to Mill Stone Creek	Elk-Jefferson	CWF	None
4—Mill Stone Creek	Basin	Elk	HQ-CWF	None
3—Clarion River	Basin, Mill Stone Creek to Clear Creek	Elk-Jefferson-Forest	CWF	None
4—Clear Creek	Basin	Jefferson	HQ-CWF	None
3—Clarion River	Basin, Clear Creek to Cherry Run	Jefferson-Forest	CWF	None
4—Cherry Run	Basin	Forest	HQ-CWF	None
3—Clarion River	Basin, Cherry Run to Maple Creek	Jefferson-Forest	CWF	None
4—Maple Creek	Basin	Forest	HQ-CWF	None
3—Clarion River	Basin, Maple Creek to Coleman Run	Jefferson-Forest	CWF	None
4—Coleman Run	Basin	Forest	HQ-CWF	None
3—Clarion River	Basin, Coleman Run to Troutman Run	Jefferson-Forest	CWF	None
4—Troutman Run	Basin	Forest	HQ-CWF	None
3—Clarion River	Basin, Troutman Run to Toms Run	Jefferson-Forest	CWF	None
4—Toms Run	Basin, Source to Little Hefren Run	Clarion	EV	None
5—Little Hefren Run	Basin	Clarion	CWF	None
4—Toms Run	Basin, Little Hefren Run to Mouth	Forest	EV	None
3—Clarion River	Basin, Toms Run to Cathers Run	Jefferson-Clarion	CWF	None
4—Cathers Run	Basin	Clarion	HQ-CWF	None
3—Clarion River	Basin, Cathers Run to Maxwell Run	Clarion	CWF	None
4—Maxwell Run	Basin	Clarion	HQ-CWF	None
3—Clarion River	Basin, Maxwell Run to Blyson Run	Clarion	CWF	None
4—Blyson Run	Basin	Clarion	EV	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
3—Clarion River	Basin, Blyson Run to Inlet of Piney Lake at 41° 14' 11.6" N, 79° 19' 21.3" W	Clarion	CWF	None
3—Clarion River	Main Stem, Inlet of Piney Lake at 41° 14' 11.6" N, 79° 19' 21.3" W to Mouth	Clarion	WWF	None
4—Tributaries to Clarion River	Basins, Inlet of Piney Lake at 41° 14' 11.6" N, 79° 19' 21.3" W to Mill Creek	Clarion	CWF	None
4—Mill Creek	Basin, Source to McCanna Run	Clarion	HQ-CWF	None
5—McCanna Run (Pendleton Run)	Basin	Clarion	EV	None
4—Mill Creek	Basin, McCanna Run to Little Mill Creek	Clarion	HQ-CWF	None
5—Little Mill Creek	Basin	Clarion	CWF	None
4—Mill Creek	Main Stem, Little Mill Creek to Mouth	Clarion	CWF	None
5—Unnamed Tributaries to Mill Creek	Basins, Little Mill Creek to Mouth	Clarion	HQ-CWF	None
5—Douglass Run	Basin	Clarion	CWF	None
5—Woods Run	Basin	Clarion	HQ-CWF	None
5—Stroup Run	Basin	Clarion	HQ-CWF	None
5—Trap Run	Basin	Clarion	HQ-CWF	None
5—Whites Run	Basin	Clarion	CWF	None
4—Tributaries to Clarion River	Basins, Mill Creek to Canoe Creek	Clarion	CWF	None
4—Canoe Creek	Basin	Clarion	HQ-CWF	None
4—Tributaries to Clarion River	Basins, Canoe Creek to Beaver Creek	Clarion	CWF	None
4—Beaver Creek	Basin	Clarion	HQ-CWF	None
4—Tributaries to Clarion River	Basins, Beaver Creek to Turkey Creek	Clarion	CWF	None
4—Turkey Creek	Basin	Clarion	HQ-CWF	None
4—Tributaries to Clarion River	Basins, Turkey Creek to Mouth	Clarion	CWF	None

§ 93.9s. Drainage List S.

Ohio River Basin in Pennsylvania

Allegheny River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
3—Mahoning Creek	Main Stem, Confluence of East Branch Mahoning Creek and Stump Creek to Mouth	Jefferson	WWF	None
4—Unnamed Tributaries to Mahoning Creek	Basins, Confluence of East Branch Mahoning Creek and Stump Creek to Mouth	Jefferson-Indiana-Armstrong	CWF	None
4—Big Run	Basin	Jefferson	CWF	None
4—Rock Run	Basin	Jefferson	CWF	None
4—Graffius Run	Basin	Jefferson	CWF	None
4—Jackson Run	Basin	Jefferson	CWF	None

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
4—Canoe Creek	Basin	Jefferson	CWF	None
* * * * *				
4—Cathcart Run	Basin	Armstrong	CWF	None
4—Hamilton Run	Basin	Armstrong	CWF	None
4—Cave Run	Basin	Armstrong	CWF	None
4—Scrubgrass Creek	Basin	Armstrong	CWF	None
3—Wiskey Creek	Basin	Armstrong	WWF	None
3—Pine Creek	Basin	Armstrong	HQ-CWF	None
3—Hays Run	Basin	Armstrong	WWF	None
3—Limestone Run	Basin	Armstrong	WWF	None
3—Cowanshannock Creek	Basin, Source to Huskins Run	Armstrong	WWF	None
4—Huskins Run	Basin	Armstrong	WWF	None
3—Cowanshannock Creek	Main Stem, Huskins Run to Mouth	Armstrong	TSF	None
4—Tributaries to Cowanshannock Creek	Basins, Huskins Run to Mouth	Armstrong	WWF	None
3—Garretts Run	Basin	Armstrong	WWF	None
* * * * *				

§ 93.9t. Drainage List T.

Ohio River Basin in Pennsylvania

Kiskiminetus River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
6—Quemahoning Creek	Main Stem	Somerset	CWF	None
7—Unnamed Tributaries to Quemahoning Creek	Basins	Somerset	CWF	None
7—Hoffman Run	Basin	Somerset	CWF	None
7—North Branch Quemahoning Creek	Main Stem	Somerset	CWF	None
* * * * *				
7—Spruce Run	Basin	Somerset	CWF	None
6—Kaufman Run	Basin	Somerset	CWF	None
6—Paint Creek	Main Stem, Source to Little Paint Creek	Cambria-Somerset	CWF	None
* * * * *				
6—Spring Run	Basin	Cambria	CWF	None
6—Kane Run	Basin	Cambria	CWF	None
6—North Branch Little Conemaugh River	Basin	Cambria	CWF	None
* * * * *				
6—Unnamed Tributaries to McGee Run	Basins, Farthest Upstream Crossing of Derry Borough Border to Mouth	Westmoreland	CWF	None
6—Hillside Run	Basin	Westmoreland	CWF	None
6—Trout Run	Basin, Source to inlet of Blairsville Reservoir	Westmoreland	EV	None
* * * * *				

§ 93.9v. Drainage List V.

Ohio River Basin in Pennsylvania

Monongahela River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
5—Tub Mill Run	Basin	Somerset	CWF	None
5—Piney Creek	Basin (all Sections in PA)	Somerset	CWF	None
5—Miller Run	Basin	Somerset	CWF	None
5—Flaugherty Creek	Basin	Somerset	CWF	None
* * * * *				
7—Unnamed Tributaries to East Branch Coxes Creek	Basins, PA 281 at 40° 0' 43.8" N; 79° 4' 27.5" W to Confluence with West Branch	Somerset	TSF	None
7—Parsons Run	Basin	Somerset	TSF	None
7—Kimberly Run	Basin	Somerset	CWF	None
* * * * *				
6—Laurel Run	Basin	Somerset	WWF	None
6—Rice Run	Basin	Somerset	WWF	None
6—Wilson Creek	Basin	Somerset	WWF	None
* * * * *				
6—Isers Run	Basin	Somerset	EV	None
5—Lost Run	Basin	Somerset	WWF	None
5—McClintock Run	Basin	Somerset	CWF	None
* * * * *				

§ 93.9w. Drainage List W.

Ohio River Basin in Pennsylvania

Ohio River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
3—Shenango River	Main Stem, Shenango Reservoir Dam to Point 1.0 River Mile Downstream	Mercer	TSF	None
4—Unnamed Tributaries to Shenango River	Basins, Shenango Reservoir Dam to Point 1.0 River Mile Downstream	Mercer	CWF	None
3—Shenango River	Main Stem (all sections in PA), 1.0 River Mile Downstream of Shenango Reservoir Dam to Confluence with Mahoning River	Lawrence	WWF	None
4—Unnamed Tributaries to Shenango River	Basins (all sections in PA), 1.0 River Mile Downstream of Shenango Reservoir Dam to Confluence with Mahoning River	Mercer-Lawrence	WWF	None
4—McCullough Run	Basin (all sections in PA)	Mercer	WWF	None
4—Thornton Run	Basin	Mercer	WWF	None
* * * * *				

§ 93.9x. Drainage List X.

Lake Erie

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
1—Lake Erie	All sections of lake in PA except Outer Erie Harbor and Presque Isle Bay	Erie	CWF	Delete Fe and DO ₁ See GLWQA
1—Lake Erie (Outer Erie Harbor and Presque Isle Bay)	Portion of lake bordered by Presque Isle on west, longitude 80° 01' 50" on east, and latitude 42° 10' 18" on north, except harbor area and central channel dredged and maintained by United States Army Corps of Engineers	Erie	WWF	Delete pH Add pH between 7 and 9
The following criterion is specific to Lake Erie (Outer Erie Harbor and Presque Isle Bay) waters in the Harbor area and central channel dredged and maintained by United States Army Corps of Engineers, based on special studies.				
<i>Parameter</i>	<i>Symbol</i>	<i>Criteria</i>		<i>Critical Use*</i>
Bacteria	Bac ₂	(Coliforms/100 ml)—Maximum of 5,000/100 ml as a monthly average value, no more than this number in more than 20% of the samples collected during a month, nor more than 20,000/100 ml in more than 5% of the samples.		PWS
1—Lake Erie (Outer Erie Harbor and Presque Isle Bay)	Harbor area and central channel dredged and maintained by United States Army Corps of Engineers	Erie	WWF, Delete WC	Delete pH and Bac ₁ Add pH between 7 and 9, Bac ₂
2—Unnamed Tributaries to Lake Erie	Basins (all sections in PA), PA-OH State Border to Presque Isle	Erie	CWF, MF	None
* * * * *				

§ 93.9z. Drainage List Z.

Potomac River Basin in Pennsylvania

Potomac River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
* * * * *				
3—Little Wills Creek	Basin	Somerset	HQ-CWF, MF	None
3—Thompson Run	Basin	Somerset	HQ-CWF, MF	None
3—Gladdens Run	Basin	Somerset	HQ-CWF, MF	None
* * * * *				

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