

Pennsylvania DEP's Three-Year Plan for TMDL Development

Developed by the Bureau of Water Supply and Wastewater Management
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Introduction

The Department of Environmental Protection focuses on watershed management processes that takes a comprehensive approach to water pollution control addressing polluted runoff, or nonpoint source pollution, as well as point sources of pollution.

The watershed approach requires selection or definition of watershed size and begins with a comprehensive assessment of water quality in the watershed. After water quality impairments are identified, a planning process occurs to develop strategies that can successfully address and correct water pollution in the watershed. Pennsylvania is using this process together with federal Clean Water Act requirements for establishing total maximum pollutant loadings or TMDLs to restore polluted streams so that they meet water quality standards. Water quality standards are the combination of water uses, such as water supply, recreation, and aquatic life, to be protected and the water quality criteria necessary to protect them.

TMDLs can be considered to be a watershed budget for pollutants, representing the total amount of pollutants that can be assimilated by a stream without causing water quality standards to be exceeded. The pollutant allocations resulting from the TMDL process represent the amount of pollutants that can be discharged into a waterway from each source. The TMDL does not specify how dischargers must attain particular load reduction.

In an April 7, 1997 Memorandum Of Understanding with EPA, the Department agreed to a 12-year schedule to develop TMDLs for impaired streams listed on the 1996 CWA Section 303(d) list. Over the years the Department has met those TMDL goals. The Department is also developing methodologies, processes, and computer models to establish TMDLs on a broader scale. In addition, several contracted TMDL initiatives have been undertaken in various parts of the Commonwealth.

In conjunction with managing water resources through a watershed-based approach, the Regional Offices, and District Mining Offices are carrying out the Department's TMDL development, with oversight and coordination from Central Office. The following report presents a plan to schedule this action. It identifies specific impaired waterbody segments from the 1996 and some information on 1998 and 2002 Section 303(d) lists where TMDLs must be established. This plan is a multi-year commitment of Department resources. Although the general elements of the plan will remain valid over time, it will, by necessity, be fluid, changing in response to new information, better tools and emerging priorities.

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TMDL Projection Report

Table 1 outlines the Department's efforts to meet the TMDL commitments contained in the consent decree between the plaintiffs and EPA. The number of segments that must be completed in each year are identified along with the number of TMDLs completed and approved. Subsequent tables display a specific schedule of milestones for TMDL completion, and specific segments that are intended to meet our submittals through the year 2009. The final table denotes TMDLs that have been completed to date.

Each section contains a narrative and a table that provides a possible solution for meeting the submittal schedule. This version of the plan adds three appendices of maps to illustrate the approximate watershed area to be included in each TMDL.

The 1996 303(d) List has changed as new stream surveys were completed and subsequent lists prepared. Some of the historic listings (prior to 1997, the start of the unassessed waters program) are delisted, or the source and cause of the impairment may be updated by new data. For convenience, TMDLs are considered abandoned mine drainage (AMD) and non-AMD (all others.)

Table 1 contains the Departments commitment to meet the Consent Decree Requirements on the 1996 303(d) List

Table 1. TMDL Submittals by Year

Year	Non-AMD	Cumulative Requirement	Annual Requirement	EPA Approved	AMD	Cumulative Requirement	Annual Requirement	EPA Approved
1998	5%	8	8	8	0%	0	0	0
1999	10%	16	8	8	(7)	7	7	10
2001	40%	61	45	46	10%	43	33	38
2003	60%	91	30	30	20%	85	42	42
2005	80%	121	30	30	40%	170	85	85
2007	100%	151	30		60%	255	85	
2009					100%	424	169	

Table 2 depicts TMDL development proposed for Non-AMD impaired waters that are projected to be completed by 2007, the next milestone-reporting period identified in Table 1. The scheduled watersheds may be substituted because of concerns with data, methodologies, or other constraints.

Table 2. Proposed Non-AMD TMDLs for 2007

Waterbody Name	State Water Plan	Source
Delaware River Estuary	2-E, 3-J, 3-F, 3-J	Industrial Point Sources
Delaware River Estuary	2-E, 3-J, 3-F, 3-J	Municipal Point Sources
Delaware River Estuary	2-E, 3-J, 3-F, 3-J	Nonpoint Sources
Schuylkill River	3-B	Industrial Point Sources
Unt Schuylkill River	3-B	Industrial Point Sources
Laurel Run	3-C	Agriculture
Bernhart Creek	3-C	Industrial Point Sources
Unt Schuylkill River	3-D	Agriculture
Indian Creek	3-E	Municipal Point Sources
Schuylkill River Estuary	3-F	CSO
Chester Creek	3-G	Municipal Point Sources
E.Br.Chester Creek	3-G	Municipal Point Sources
Unnamed Trib W.Br. Chester Creek	3-G	Municipal Point Sources
Hermesprot Creek	3-G	Other Non-Point Sources
West Branch Brandywine Creek	3-H	Agriculture
East Branch Brandywine Creek	3-H	Agriculture
West Branch Brandywine Creek	3-H	Municipal Point Sources
Brandywine Creek UNT	3-H	Other Point Sources
East Branch Red Clay Creek	3-I	Agriculture
East Branch White Clay Creek	3-I	Agriculture
West Branch White Clay Creek	3-I	Agriculture
Red Clay Creek	3-I	Agriculture
Bucktoe Creek	3-I	Agriculture
South Brook	3-I	Agriculture
Middle Branch White Clay Creek	3-I	Municipal Point Sources
East Branch White Clay Creek	3-I	Municipal Point Sources
Unt Wbr Red Clay	3-I	Other Non-Point Sources
Unt West Br Red Clay Ck (Nvf Trib)	3-I	Other Non-Point Sources
Delaware River	3-I	Other Non-Point Sources
East Branch White Clay Creek	3-I	Other Non-Point Sources
Red Clay Creek	3-I	Other Non-Point Sources
Unt Green Creek	3-I	Other Point Sources
Southampton UNT	3-J	Industrial Point Sources
Black Creek	5-B	Combined Sewer Overflow
Paxton Creek	7-C	Onsite Wastewater Systems
Codorus Creek	7-H	Industrial Point Sources
Mill Run	11-A	Combined Sewer Overflow
Beaver Dam Branch	11-A	Combined Sewer Overflow
Frankstown Branch Juniata River	11-A	Industrial Point Sources
Lake Erie	15-	Onsite Wastewater Systems
Lake Erie	15-	Other Non-Point Sources
Coon Run	16-E	Industrial Point Sources
Oil Creek	16-E	Industrial Point Sources
Wells Creek	18-E	Agriculture
Glades Creek	18-E	Agriculture
South Branch Bear Creek	17-C	Industrial Point Sources

Table 2. Proposed Non-AMD TMDLs for 2007

Shenango River	20-A	Agriculture
Ohio River	20-E	Combined Sewer Overflow
Sawmill Run	20-F	Point Sources

Table 3 shows the segments proposed for AMD TMDL development for the 2007 reporting period. The District Mining Offices and Bureau of Abandoned Mine Reclamation Field Offices selected these streams in consultation with the Division of Water Quality Assessment and Standards after evaluation of the 1996 303(d) list. The proposed list may be further refined. TMDLs in the watershed for listings subsequent to 1996 will be included in the reports, but a count of the subsequent listed waters has not been completed. The Division of Water Quality Assessment and Standards will provide modeling support. The Division will act as a facilitator and an intermediary with EPA for all TMDL-related activities and will package and submit TMDLs to EPA.

Table 3. Proposed AMD TMDLs for 2007

Waterbody Name	State Water Plan	Source
Little Schuylkill River	3-A	AMD
Schuylkill River	3-A	AMD
Grassy Island Creek	5-A	AMD
Solomon's Creek	5-B	AMD
Black Creek	5-D	AMD
Cranberry Creek	5-D	AMD
Little Nescopeck Creek	5-D	AMD
Nescopeck Creek	5-D	AMD
Oley Creek	5-D	AMD
Stony Creek	5-D	AMD
Unt Little Nescopeck Creek	5-D	AMD
Bennett Branch Sinnemahoning Creek	8-A	AMD
Bear Run	8-B	AMD
Laurel Run	8-B	AMD
South Branch Bear Run	8-B	AMD
Montgomert Creek (Unt)	8-B	AMD
West Branch Susquehanna River	8-B	AMD
Alder Run	8-C	AMD
Baldhill Run	8-C	AMD
Moravian Run	8-C	AMD
Mowry Run	8-C	AMD
Rolling Stone Run	8-C	AMD
Sandy Creek	8-C	AMD
Millstone Run	8-C	AMD
Clearfield Creek	8-C	AMD
Albert Run	8-D	AMD
Little Laurel Run	8-D	AMD
Sattlick Run	8-D	AMD
Right Fork Otter Run	9-A	AMD
Kettle Creek	9-B	AMD
Beech Creek	9-C	AMD
Beaverdam Branch	11A	AMD
Burgoon Run	11A	AMD

Table 3. Proposed AMD TMDLs for 2007

Waterbody Name	State Water Plan	Source
Glenwhite Run	11A	AMD
Sugar Run	11A	AMD
Six Mile Run	11D	AMD
Unt Walley Run	16F	AMD
Little Scrubgrass Creek	16G	AMD
Richey Run	16G	AMD
Scrubgrass Creek	16G	AMD
North Branch Elk Creek	17A	AMD
South Branch Elk Creek	17A	AMD
Little Mill Creek	17B	AMD
Licking Creek	17-B	AMD
Little Licking Creek	17-B	AMD
Mill Creek	17B	AMD
Clutch & Hadden Run	17C	AMD
North Branch Bear Creek	17C	AMD
West Fork Leatherwood Creek	17-C	AMD
West Fork (Unt)	17-C	AMD
West Fork (Unt) (02)	17-C	AMD
Welch Run	17-C	AMD
Caylor Run	17D	AMD
Foundry Run	17D	AMD
Laurel Branch Run	17D	AMD
Nye Branch	17D	AMD
Pine Run	17D	AMD
Stump Creek	17D	AMD
Beech Run	17-D	AMD
Brewer Run	17-D	AMD
East Branch Mahoning Creek	17-D	AMD
East Run	17-D	AMD
North Branch Little Mahoning Creek	17-D	AMD
McKee Run	17E	AMD
North Branch Plum Creek	17E	AMD
Little Deer Creek	18A	AMD
Little Plum Creek	18A	AMD
Plum Creek	18A	AMD
Elk Creek	18D	AMD
Freeman Run	18D	AMD
Richards Run	18D	AMD
Roaring Run	18D	AMD
Ferrier Run	18-D	AMD
Penn Run	18-D	AMD
Reeds Run	18-D	AMD
Tearing Run	18-D	AMD
Boone Run	18E	AMD
Dark Shade Creek	18E	AMD
Lamberts Run	18E	AMD
UNT Dark Shade Creek	18E	AMD
UNT Stony Creek	18E	AMD

Table 3. Proposed AMD TMDLs for 2007

Waterbody Name	State Water Plan	Source
Sulphur Creek	18-E	AMD
Otto Run	18-E	AMD
Streets Run	19-A	AMD
Bigby Creek	19-F	AMD
Shafer Run	19-F	AMD
Dooley Run	19G	AMD
Dunkard Creek	19G	AMD
Mountain Creek	19G	AMD
York Run	19G	AMD
Burgetts Fork	20D	AMD
Harmon Creek	20D	AMD

Table 4 displays a projection of AMD segments remaining from the 1996 303(d) list for which there has been no TMDL to date. The segments listed in Table 4 are scheduled to be completed by 2009. Staff will determine priority for completing the remaining segments for either the 2007 or 2009 submission to EPA.

Table 4. Proposed AMD TMDLs for 2007-2009

Waterbody Name	State Water Plan	Source
Pond Creek	2-A	AMD
Sandy Run	2-A	AMD
Sandy Run (Unt)	2-A	AMD
Black Creek	2-B	AMD
Buck Mountain Creek	2-B	AMD
Hazle Creek	2-B	AMD
Nesquehoning Creek	2-B	AMD
Lehigh River	2-C	AMD
Saucon Creek	2-C	AMD
Saucon Creek (South Branch)	2-C	AMD
Coal Brook	5-A	AMD
Roaring Brook	5-A	AMD
Newport Creek	5-B	AMD
Susquehanna River	5-B	AMD
Deep Creek	6-C	AMD
Pine Creek	6-C	AMD
Wiconisco Creek	6-C	AMD
Rock Run	8-B	AMD
Woods Run	8-B	AMD
Curleys Run	8-D	AMD
Grimes Run	8-D	AMD
Moshannon Creek	8-D	AMD
West Branch Susquehanna River	10-D	AMD
Kimber Run	11-A	AMD
Kimber Run	11-D	AMD
West Branch Tunungwant Creek	16-C	AMD
South Fork Little Scrubgrass Creek	16-G	AMD

Table 4. Proposed AMD TMDLs for 2007-2009

Waterbody Name	State Water Plan Source	
Johnson Run	17-A	AMD
Little Toby Creek	17-A	AMD
Anderson Run	17-B	AMD
Brush Run	17-B	AMD
Brush Run (Unt)	17-B	AMD
Cherry Run	17-B	AMD
Clarion River	17-B	AMD
Deer Creek	17-B	AMD
Douglas Run	17-B	AMD
Gathers Run	17-B	AMD
Jones Run	17-B	AMD
Reids Run	17-B	AMD
Whites Run	17-B	AMD
Beaver Run	17-C	AMD
Leisure Run	17-C	AMD
Luthersburg Branch	17-C	AMD
South Branch Bear Creek	17-C	AMD
Town Run	17-C	AMD
Coalbank Run	17-E	AMD
Craig Run	17-E	AMD
Allegheny River	18-A	AMD
Beaver Run	18-B	AMD
Kiskiminetas River	18-B	AMD
Conemaugh River	18-C	AMD
Loyalhanna Creek	18-C	AMD
Harbridge Run	18-D	AMD
Two Lick Creek	18-D	AMD
Yellow Creek	18-D	AMD
Clear Run	18-E	AMD
Little Conemaugh River	18-E	AMD
South Fork Bens Creek	18-E	AMD
Buffalo Creek (Unt)	18-F	AMD
Turtle Creek	19-A	AMD
Fallen Timber Run	19-C	AMD
Redstone Creek	19-C	AMD
Unt Mononghela River	19-C	AMD
Unt Saltlick Run	19-C	AMD
Wallace Run	19-C	AMD
Buffalo Run	19-D	AMD
Ferguson Run	19-D	AMD
Glade Run	19-D	AMD
Jacks Run	19-D	AMD
Long Run	19-D	AMD
Staurrer Run	19-D	AMD
Welty Run	19-D	AMD
Buffalo Creek	19-F	AMD
Casselma River	19-F	AMD
Coxes Creek	19-F	AMD

Table 4. Proposed AMD TMDLs for 2007-2009

Waterbody Name	State Water Plan Source	
East Branch Coxes Creek	19-F	AMD
Elklick Creek	19-F	AMD
Laurel Run	19-F	AMD
Lick Run	19-F	AMD
Miller Run	19-F	AMD
Piney Run	19-F	AMD
Whites Creek	19-F	AMD
Wilson Creek	19-F	AMD
Big Sandy Creek	19-G	AMD
Unt Georges Creek	19-G	AMD
Whiteley Creek	19-G	AMD
Brush Run	20-B	AMD
Clarks Run	20-B	AMD
Duck Run	20-C	AMD
Sawmill Run	20-F	AMD

Table 5 lists the TMDLs that have been completed and approved by EPA. Both AMD and Non-AMD segments are included in the table.

Table 5. EPA Approved TMDLs in Pennsylvania

Waterbody Name	State Water Plan	Source	Approval Year
Park Creek	2-F	Municipal Point Sources	1998
Lake Luxembourg	3-F	Agriculture	1998
Trout Run (UNT)	3-F	Municipal Point Sources	1998
Pennypack Creek	3-J	Municipal Point Sources	1998
Susquehanna River	5-B	Fish Consumption	1998
Donegal Creek	7-G	Agriculture	1998
Mill Creek (UNT)	7-J	Industrial Point Sources	1998
Tweed Creek	7-K	Agriculture	1998
Trout Run (UNT)	8-A	AMD	1998
Bald Eagle Creek	11-A	Industrial Point Sources	1998
Brush Creek	20-C	Municipal Point Sources	1998
Levittown Lake	2-D	Fish Consumption	2001
Little Valley Creek	3-F	Fish Consumption	2001
Brandywine River	3-H	Fish Consumption	2001
Valley Creek	3-H	Fish Consumption	2001
West Branch Brandywine River	3-H	Fish Consumption	2001
Fall Brook	4-A	AMD	2001
Morris Run	4-A	AMD	2001
North Fork Cowanesque River	4-A	Agriculture	2001
Stephen Foster Lake	4-C	Agriculture	2001
South Branch Wyalusing Creek	4-D	Agriculture	2001
Lake Carey	4-F	Agriculture	2001
Bear Creek	6-C	AMD	2001
East Branch Rausch Creek	6-C	AMD	2001

Table 5. EPA Approved TMDLs in Pennsylvania

Waterbody Name	State Water Plan	Source	Approval Year
Hans Yost Creek	6-C	AMD	2001
North Branch Mahantango Creek	6-C	Agriculture	2001
Rausch Creek	6-C	AMD	2001
West Branch Rausch Creek	6-C	AMD	2001
Clippeingers Run	7-B	Agriculture	2001
Green Spring Creek	7-B	Agriculture	2001
Middle Spring Creek	7-B	Agriculture	2001
Mount Rock Spring Creek	7-B	Agriculture	2001
Beck Creek	7-D	Agriculture	2001
Coal Run	7-D	AMD	2001
Deep Run	7-D	Agriculture	2001
Earlkill Run	7-D	Agriculture	2001
Good Spring Creek	7-D	AMD	2001
KillingerR Creek	7-D	Agriculture	2001
Lorberry Creek	7-D	AMD	2001
Lower Rausch Creek	7-D	AMD	2001
Middle Creek	7-D	AMD	2001
Snitz Creek	7-D	Agriculture	2001
Stumps Run	7-D	AMD	2001
Swatara Creek	7-D	AMD	2001
Conewago Creek	7-E	Agriculture	2001
Chickies Creek	7-G	Agriculture	2001
Conewago Creek	7-G	Point Sources	2001
Muddy Run	7-J	Agriculture	2001
Pequea Creek, UNT.	7-J	Agriculture	2001
Pequea Creek	7-K	Agriculture	2001
Conowingo Creek	7-K	Agriculture	2001
Little Muddy Run	8-C	AMD	2001
Hartman Run	11-D	AMD	2001
Miller Run	11-D	AMD	2001
Shoup Run	11-D	AMD	2001
Six Mile Run	11-D	AMD	2001
Conneaut Lake	16-D	Agriculture	2001
Fowler Run	17-C	AMD	2001
Allegheny River	18-A	Fish Consumption	2001
Monongahela River	19-A	Fish Consumption	2001
Virgin Run Lake	19-D	Agriculture	2001
Cheat River	19-F	Fish Consumption	2001
Shenango River	20-A	Fish Consumption	2001
Beaver River	20-B	Fish Consumption	2001
Ohio River	20-E	Fish Consumption	2001
Chartiers Creek	20-F	Fish Consumption	2001
Little Chartiers Creek	20-F	Fish Consumption	2001
Delaware River	1-A	Fish Consumption	2003
Neshaminy Creek	2-F	Municipal Point Sources	2003
Unt Neshaminy Creek	2-F	Agriculture	2003
Little Neshaminy Creek	2-F	Municipal Point Sources	2003

Table 5. EPA Approved TMDLs in Pennsylvania

Waterbody Name	State Water Plan	Source	Approval Year
Unt Neshaminy Creek	2-F	Municipal Point Sources	2003
Cooks Run	2-F	Municipal Point Sources	2003
West Branch Neshaminy Creek	2-F	Municipal Point Sources	2003
UNT West Branch Neshaminy Creek	2-F	Municipal Point Sources	2003
Lake Galena	2-F	Agriculture	2003
Panther Creek	3-A	AMD	2003
Wabash Creek	3-A	AMD	2003
Hospital Creek	3-C	Agriculture	2003
Little Cacoosing Creek	3-C	Agriculture	2003
Owl Creek	3-C	Agriculture	2003
UNT Tulpehocken Creek	3-C	Agriculture	2003
Lake Nockamixon	3-D	Agriculture	2003
Greenlane Reservoir	3-E	Agriculture	2003
Sandy Run	3-F	Other Non-Point Sources	2003
UNT Sandy Run	3-F	Other Non-Point Sources	2003
Glanraffan Creek	3-F	Other Non-Point Sources	2003
Harveys Lake	5-B	Agriculture	2003
Catawissa Creek	5-E	AMD	2003
Sugarloaf Creek	5-E	AMD	2003
Tomhicken Creek	5-E	AMD	2003
Carbon Run	6-B	AMD	2003
Coal Run	6-B	AMD	2003
Locust Creek	6-B	AMD	2003
North Branch Shamokin Creek	6-B	AMD	2003
Quaker Run	6-B	AMD	2003
Shamokin Creek	6-B	AMD	2003
Bachman Run	7-D	Agriculture	2003
Bow Creek UNT.	7-D	Other Non-Point Sources	2003
Panther Creek	7-D	AMD	2003
Swatara Creek (UNT)	7-D	Agriculture	2003
Pinchot Lake	7-F	Agriculture	2003
Oil Creek	7-H	Urban Runoff/Storm Sewers	2003
South Branch Codorus Creek	7-H	Agriculture	2003
Montgomery Creek	8-B	AMD	2003
Montgomery Creek (UNT)	8-B	AMD	2003
Cold Stream	8-D	AMD	2003
Camp Run	9-B	AMD	2003
Cooks Run	9-B	AMD	2003
Cooks Run (Basin)	9-B	AMD	2003
Crowley Hollow	9-B	AMD	2003
Drury Run	9-B	AMD	2003
Middle Branch Two Mile Run	9-B	AMD	2003
Sandy Run	9-B	AMD	2003
Stony Run	9-B	AMD	2003
Tangascootack Creek	9-B	AMD	2003
Two Mile Run	9-B	AMD	2003
Woodley Draft Run	9-B	AMD	2003

Table 5. EPA Approved TMDLs in Pennsylvania

Waterbody Name	State Water Plan	Source	Approval Year
Bear Loop Run	11-A	AMD	2003
Kittanning Run	11-A	AMD	2003
Longs Run	11-D	AMD	2003
Sandy Run	11-D	AMD	2003
Lockard Run	16-G	AMD	2003
Parks Run	17-B	AMD	2003
Thorn Run	18-B	AMD	2003
UNT Thorn Run	18-B	AMD	2003
Thompson Run	19-A	AMD	2003
Laurel Run	19-E	AMD	2003
Cats Run	19-G	AMD	2003
Potato Garden Run	20-D	AMD	2003
UNT Potato Garden Run	20-D	AMD	2003
Dutch Fork Lake	20-E	Agriculture	2003
Campbells Run	20-F	AMD	2003
Half Crown Run	20-F	AMD	2003
Millers Run	20-F	AMD	2003
N. Br. Robinsons Run (UNT)	20-F	AMD	2003
North Branch Robinson Run	20-F	AMD	2003
Plum Run	20-F	Agriculture	2003
UNT Campbells Run	20-F	AMD	2003
Brush Run	20-F	Urban Runoff/Storm Sewers	2003
Brush Run (UNT)	20-F	Urban Runoff/Storm Sewers	2003
Milligan Run	9-B	AMD	2004
Lake Wallenpaupack	1-C	Agriculture	2005
Lake Wallenpaupack	1-C	Fish Consumption	2005
Waltz Creek	1-F	Other Non-Point Sources	2005
Little Cedar Creek	2-C	Urban Runoff/Storm Sewers	2005
Mill Creek	3-A	AMD	2005
Muddy Branch Creek	3-A	AMD	2005
West Branch Schuylkill River	3-A	AMD	2005
Lake Ontelaunee	3-B	Agriculture	2005
Wyomissing Creek	3-C	Urban Runoff	2005
Skippack Creek	3-E	Point Sources	2005
Tioga River	4-A	AMD	2005
Long Valley Run	4-C	AMD	2005
Aylesworth Creek	5-A	AMD	2005
Lackawanna River	5-A	AMD	2005
Powderly Creek	5-A	AMD	2005
Wilson Creek	5-A	AMD	2005
Lake Jean	5-C	Atmospheric Deposition	2005
Crosskill Creek (UNT)	7-D	Agriculture	2005
Elizabeth Run	7-D	Agriculture	2005
Deep Run	7-D	Agriculture	2005
Conestoga River	7-J	Agriculture/other NPS	2005
Lititz Run	7-J	Agriculture/other NPS	2005
Mill Creek	7-J	Agriculture/other NPS	2005

Table 5. EPA Approved TMDLs in Pennsylvania

Waterbody Name	State Water Plan	Source	Approval Year
Dents Run	8-A	AMD	2005
Unt Trout Run	8-A	AMD	2005
Hartshorn Run	8-B	AMD	2005
North Camp Run	8-B	AMD	2005
Anderson Creek	8-B	AMD	2005
Kratzer Run	8-B	AMD	2005
Little Anderson Creek	8-B	AMD	2005
Fork Run	8-C	AMD	2005
Big Run	8-C	AMD	2005
Brubaker Run	8-C	AMD	2005
Deer Creek	8-C	AMD	2005
Lick Run	8-C	AMD	2005
Little Surveyor Run	8-C	AMD	2005
North Branch Upper Morgan Run	8-C	AMD	2005
Surveyor Run	8-C	AMD	2005
Sanborn Run	8-C	AMD	2005
Amos Branch	8-D	AMD	2005
Birch Island Run	8-D	AMD	2005
Little Birch Island Run	8-D	AMD	2005
Sterling Run	8-D	AMD	2005
Brubaker Run	8-D	AMD	2005
Wison Creek	9-A	AMD	2005
Otter Run	9-A	AMD	2005
Logway Run	9-C	AMD	2005
Middle Branch Big Run	9-C	AMD	2005
North Fork Beech Creek	9-C	AMD	2005
Loyalsock Creek	10B	AMD	2005
Buffalo Creek	10-C	Atmospheric Deposition	2005
Little Juniata River	11-A	Municipal Point Sources	2005
Daguscahonda Run	17A	AMD	2005
Elk Creek	17A	AMD	2005
Iron Run	17A	AMD	2005
McGourvey Run	17-B	AMD	2005
Huskins Run	17-E	AMD	2005
Limestone Run	17-E	AMD	2005
Fourmile Run	18C	AMD	2005
Getty Run	18C	AMD	2005
McCune Run	18C	AMD	2005
Monastery Run	18C	AMD	2005
Union Run	18C	AMD	2005
Saxman Run	18C	AMD	2005
South Branch Blacklick Creek	18D	AMD	2005
Unt Conemaugh River	18-D	Agriculture	2005
McCarthy Run	18-D	Urban Runoff/Storm Sewers	2005
Marsh Creek	18-D	Urban Runoff/Storm Sewers	2005
Oven Run	18-E	AMD	2005
Bens Creek	18E	AMD	2005

Table 5. EPA Approved TMDLs in Pennsylvania

Waterbody Name	State Water Plan	Source	Approval Year
Quemahoning Creek	18E	AMD	2005
Spring Run	18E	AMD	2005
Stony Creek	18-E	Agriculture	2005
Brush Creek	19A	AMD	2005
Newmyer Run	19-E	AMD	2005
Cucumber Run	19-F	AMD	2005
Raccoon Creek	20D	AMD	2005
Canonsburg Lake	20-F	Agricultural	2005
Montour Run	20G	AMD	2005
Moon Run	20G	AMD	2005

Table 6 lists the segments for which EPA has approved the removal of the segment from the list of impaired waters. TMDLs are not necessary on delisted segments.

Table 6. EPA Approved Delistings in Pennsylvania

Waterbody Name	State Water Plan	Source
South Branch Saucon Creek (Unt)	2-C	Other Non-Point Sources
Panther Creek	3-A	AMD
Mill Creek	3-C	Agriculture
Unt Mill Creek	3-C	Other Non-Point Sources
Northkill Creek	3-C	Atmospheric Deposition
French Creek	3-D	Agriculture
Manatawny Creek	3-D	Agriculture
Perkiomen Creek	3-E	Municipal Point Sources
Unt Chester Creek	3-G	Municipal Point Sources
Buck Run(Unt)(Little Buck Run)	3-H	Municipal Point Sources
Culbertson Run	3-H	Other Point Sources
Indian Run	3-H	Agriculture
South Branch Naaman Creek	3-I	Agriculture
Tioga River	4-A	AMD
Crab Run	6-B	AMD
Doc Smith Run	6-C	AMD
Rattling Creek	6-C	AMD
Stone Cabin Run	6-C	AMD
West Branch Rattling Creek	6-C	AMD
Shale Run	6-C	AMD
East Branch Rattling Creek	6-C	AMD
Nine O'Clock Run	6-C	AMD
Conodoguinet Creek	7-B	Agriculture
Letort Spring Run	7-B	Other Non-Point Sources
Gebhard Run	7-D	AMD
Poplar Creek	7-D	AMD
West Branch Fishing Creek	7-D	AMD

Table 6. EPA Approved Delistings in Pennsylvania

Waterbody Name	State Water Plan	Source
Baird Run	7-D	AMD
Falling Branch Deer Creek	7-I	Agriculture
Deer Creek	7-I	Agriculture
Spring Run	8-A	AMD
Sinnemahoning Creek	8-A	AMD
West Creek	8-A	AMD
Wilson Run	8-B	AMD
Tinker Run (Unt)	8-B	AMD
Montgomery Creek (Unt)	8-B	AMD
Wilson Run (Unt)	8-B	AMD
North Branch Montgomery Creek (Unt)	8-B	AMD
Irvin Branch	8-B	AMD
Lick Run	8-C	AMD
Trout Run	8-C	AMD
Kibler Run	8-C	Other Non-Point Sources
Taylor Springs Run	8-C	AMD
Pine Run	8-C	AMD
Dutch Run	8-C	AMD
Black Moshannon Creek	8-D	AMD
Goss Run	8-D	AMD
Mosquito Creek	8-D	AMD
Left Fork Otter Run	9-A	AMD
Pine Creek	9-A	AMD
Lick Run	9-B	AMD
West Branch Susquehanna River	9-B	AMD
East Branch Big Run	9-C	AMD
Slab Cabin Run	9-C	Agriculture
Red Run	10-A	AMD
Loyalsock Creek	10-B	AMD
Buffalo Creek	10-C	Agriculture
Tules Run	10-D	Other Non-Point Sources
Gladdens Run	13-A	AMD
Trout Run	16-A	Agriculture
French Creek	16-A	Municipal Point Sources
Kinzua Creek (Unt)	16-B	AMD
East Branch Tunungwant Creek	16-C	AMD
East Branch Tunungwant Creek (Unt)	16-C	AMD
Cole Creek	16-C	AMD
West Branch Blue Jay Creek	16-E	AMD
Pithole Creek	16-E	AMD
Walley Run	16F	AMD
Curry Run	17-A	AMD
Turkey Run	17-B	AMD
Piney Creek	17-B	AMD
Kyle Run	17-C	AMD
Little Sandy Creek	17-C	AMD
Pine Creek	17-C	AMD
Long Run	17-C	AMD
Leisure Run	17-C	AMD

Table 6. EPA Approved Delistings in Pennsylvania

Waterbody Name	State Water Plan	Source
Leatherwood Creek	17-C	AMD
Redbank Creek	17-C	AMD
Kyle Run (Unt)	17-C	AMD
Narrows Creek	17-C	AMD
Beaverdam Run	17-C	AMD
Laborde Branch	17-C	AMD
Unt Huling Run	17-C	Agriculture
Nicely Run	17-D	AMD
South Branch South Fork Pine Creek	17-E	AMD
South Branch Plum Creek	17-E	AMD
North Branch Cherry Run	17-E	AMD
Campbell Run	17-E	AMD
Crooked Creek	17-E	AMD
Elbow Run	17-E	AMD
Long Run	17-E	AMD
Sugar Run	17-E	AMD
Nine Mile Run	18-C	Municipal Point Sources
Indian Camp Run	18-C	AMD
Clarke Run	18-D	Agriculture
Beaverdam Run	18-E	AMD
Unt Paint Creek	18-E	AMD
Shade Creek	18-E	AMD
Fallen Timber Run	18-E	AMD
Babcock Creek (Basin)	18-E	AMD
Paint Creek	18-E	AMD
Tenmile Creek	19-B	AMD
Rush Run	19-B	AMD
Pumpkin Run	19-B	AMD
South Fork Tenmile Creek	19-B	AMD
Rush Run	19-C	AMD
Dunlap Creek	19-C	AMD
North Branch Pigeon Creek	19-C	AMD
Peters Creek	19-C	AMD
Pigeon Creek	19-C	AMD
Pike Run	19-C	AMD
Little Sewickley Creek	19-D	AMD
Sewickley Creek	19-D	AMD
Meadow Run	19-E	AMD
Rasler Run	19-E	AMD
Indian Creek	19-E	AMD
Buck Run	19-E	AMD
Dunkard Creek	19-G	AMD
Brodhead Creek	1-E	Other Non-Point Sources
Long Run	20-C	AMD
East Branch Wolf Creek	20-C	AMD
Connoquenessing Creek	20-C	Onsite Wastewater Systems
Connoquenessing Creek (Unt)	20-C	AMD
Connoquenessing Creek (Unt)	20-C	AMD
Little Connoquenessing Creek (Basin)	20-C	AMD

Table 6. EPA Approved Delistings in Pennsylvania

Waterbody Name	State Water Plan	Source
Ohio River	20-E	AMD

Table 7 contains the TMDLs that Pennsylvania has submitted, but EPA has not yet taken any formal action.

Table 7. TMDLS Submitted to EPA with no Formal Action from EPA

Waterbody Name	State Water Plan	Source
Mahanoy Creek	6-B	AMD
Zerbe Run	6-B	AMD
Crab Run	6-B	AMD
Shenandoah Creek	6-B	AMD
Babb Creek	9-A	AMD
Rock Run	9-B	AMD