

WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

SUSQUEHANNA RIVER BASIN COMPACT, SECTION 14.2 – WATER RESOURCES PROGRAM

The <u>Commission</u> shall annually adopt a <u>Water Resources Program</u>, based upon the <u>Comprehensive Plan</u>, consisting of the projects and facilities which the Commission proposes to be undertaken by the Commission and by other authorized governmental and private agencies, organizations, and persons during the ensuing six years or such other reasonably foreseeable period as the Commission may determine.



ADOPTED JUNE 2025



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

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WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

WATER RESOURCES PROGRAM OVERVIEW – COMMISSION PROJECTS

The <u>Water Resources Program</u> presents the priority projects the Commission plans to undertake to address the water resources needs and objectives outlined in the <u>Comprehensive Plan</u>.

	Comprehensive Plan Priority Management Areas						
	A. Water Supply		B. Water Quality		C. Flooding and Drought		D. Watershed Management
	Susquehanna River Basin Commission Projects						
Ala	Water Use and Availability Assessment and Forecast Website • Project Summary	Bla	Continuous Instream Monitoring Network Website • Project Summary	C1a	HyperFACETS Climate Science Research Project Project Summary	D1a	Critical Aquifer Recharge Area Protection Initiatives Project Summary
A2a	Regulatory Review, Approval, and Efficiency Improvement Website • Project Summary	B1b	Chesapeake Bay Nontidal Water Quality Monitoring <u>Website</u> • <u>Project Summary</u>	C2a	Susquehanna Flood Warning and Response System <u>Website</u> • <u>Project Summary</u>	D2a	Conowingo Watershed Implementation Plan <u>Website</u> • <u>Project Summary</u>
A2b	Project Compliance and Enforcement Refinements <u>Website</u> • <u>Project Summary</u>	B1c	Water Quality and BiologicalIndex EvaluationWebsiteProject Summary	C2b	Montour County Pennsylvania Flood Warning System <u>Project Summary</u>	D2b	Octoraro Agricultural Best Management Practices <u>Website</u> • <u>Project Summary</u>
A2c	Integrated Water Resources Management Projects <u>Project Summary</u>	B1d	New York Water Quality Monitoring Collaborative <u>Website</u> • <u>Project Summary</u>	C3a	National Water Model FloodInundation Mapping ValidationWebsiteProject Summary	D2c	Pennsylvania Countywide Action Plan Implementation <u>Project Summary</u>
A2d	Holtwood and Safe Harbor Hydroelectric Project Relicensing <u>Project Summary</u>	B2a	Lower Susquehanna Source Water Protection Partnership <u>Website</u> • <u>Project Summary</u>	C4a	Public Water Supply Reservoir Level Monitoring Network Website • Project Summary	D3a	Tioga-Hammond Lakes Environmental Flow Study <u>Project Summary</u>
A3a	Public Water Supply Water Loss Reduction Projects <u>Project Summary</u>	B3a	Morris Run Abandoned Mine Drainage Treatment Plant <u>Website</u> • <u>Project Summary</u>	C4b	Susquehanna Drought Monitor <u>Website</u> • <u>Project Summary</u>	D4a	Hydroelectric Dam Fish Passage Upgrades <u>Project Summary</u>
A4a	Consumptive Use Mitigation Projects <u>Website</u> • <u>Project Summary</u>	B3b	Abandoned Mine Drainage/ Land Remediation Projects <u>Website</u> • <u>Project Summary</u>			D5a	Environmental DNA Aquatic Invasive Species Monitoring <u>Website</u> • <u>Project Summary</u>
A5a	Regulated Project TechnicalAssistance ProgramWebsite• Project Summary	B4a	Harmful Algal Bloom Monitoring and Assessment <u>Website</u> • <u>Project Summary</u>			D6a	Stream and Watershed Enhancement Grant <u>Website</u> • <u>Project Summary</u>
A5b	Susquehanna Water Use Network <u>Project Summary</u>					D6b	Kehm Run Environmental Restoration Project Project Summary



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

WATER RESOURCES PROGRAM OVERVIEW – PARTNER PROJECTS

The Water Resources Program also presents the priority projects the Commission's partner agencies plan to undertake to address the water resources needs and objectives outlined in the Comprehensive Plan.

Comprehensive Plan Priority Management Areas							
	A. Water Supply		B. Water Quality		C. Flooding and Drought		D. Watershed Management
	Partner Agency Projects						
Ali	<u>United States Geological Survey</u> <u>Estimates of Base flow, Runoff,</u> <u>and Groundwater Recharge</u>	Bli	U.S. Environmental Protection Agency National Lakes Assessment and National Rivers and Streams Assessment	Cli	National Oceanic and Atmospheric AdministrationAtlas 14 Precipitation FrequencyEstimates Update	D1i	Natural Resources Conservation Service Groundwater Recharge Pilot Program
Alii	Pennsylvania State Water Plan Implementation and Update	B1ii	<u>U.S. Environmental Protection</u> <u>Agency Water Pollution Control</u> (Section 106) Grant Activities	Clii	<u>New York State Climate Smart</u> <u>Communities Grant Program</u>	D2i	Chesapeake Bay Program Beyond 2025
A2i	<u>Maryland Department of the</u> <u>Environment Conowingo</u> <u>Hydroelectric Project Water</u> <u>Quality Certification</u>	B1iii	U.S. Geological Survey Super Gages	C2i	National Weather Service National Water Prediction Service	D2ii	Maryland Department of the Environment Conowingo Reservoir Sediment & Nutrient Transport Model
				C2ii	<u>U.S. Geological Survey Rapid</u> <u>Deployment Network</u>	D2iii	U.S. Fish and Wildlife Service Chesapeake Watershed Investments for Landscape Defense
				C3i	New York Environmental Bond Act	D4i	U.S. Fish and Wildlife Service Fishway Prescriptions For Federal Energy Regulatory Commission Licensed Hydroelectric Projects
				C3ii	<u>National Weather Service</u> <u>National Water Model Flood</u> <u>Inundation Mapping</u>	D6i	U.S. Fish and Wildlife Service Upper Susquehanna Conservation Alliance
						D6ii	Natural Resources Conservation Service Environmental Quality Incentives Program
						D6iii	Natural Resources Conservation Service Small Watershed Program (PL 566)
						D6iv	Natural Resources Conservation Service Climate-Smart Mitigation Activities



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY A1a. Water Use and Availability Assessment and Forecast

Priority Management Area: Water Supply

Objective:

Improve water use and availability forecasting

Location:

Susquehanna River Basin



Description: The Commission's Cumulative Water Use and Availability Study (CWUAS) represents the most inclusive evaluation of water use and availability throughout the basin conducted to date. Development of a comprehensive water use database, integrating Commission, member state, and estimated data, allowed for a thorough assessment of consumptive use for basin watersheds. The water capacity threshold, used to calculate water availability, integrated a sustainable limit for water development, protection of low flows, and a safety factor to balance water supply and environmental flow needs. The associated CWUAS Tool and Web Map enable users to interactively investigate water use and availability conditions for basin watersheds. Planned work includes updating water use and availability data, screening basin watersheds for water challenged and/or potentially stressed areas, and incorporating climate projections to provide insight into future conditions.

Schedule:	Update Water Use database
	Update water use and availability estimates
	Incorporate climate and water use projections
	Identify water challenged and potentially stressed areas
	Update planning tool and web map
Budget:	\$155,000

Annually in December June 2025 December 2025 June 2026 March 2027

Funding: Water Management Fund



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY A2a. Regulatory Review, Approval, and Efficiency Improvements

Priority Management Area:	Water Supply
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Objective:

Refine withdrawal, consumptive use, and diversion management

Location:

Funding:

Susquehanna River Basin



Regulatory Program Fees

Description: The Commission will undertake two main areas of focus to include: development and implementation of a Memorandum of Understanding (MOU) with Maryland Department of Environment (MDE); and evaluation and identification of categories of regulated projects for which a general permit (GP) could be developed. The Compact directs staff to avoid duplicative activities with the states. Administrative agreements have been developed and executed for both PA and NY that establish the process for coordinated reviews of project types where there are overlapping regulatory authorities. Resolution 2023-08 was adopted in September 2023 that provided specific waiver of regulation for review of an individual project, but also directed staff to develop a proposed MOU with MDE and extend the process in the resolution to future applications of similar projects for MDE's review.

Schedule:	Provide draft MOU to MDF	December 2025
	Evaluate and identify additional GP categories Develop draft general permit(s)	December 2025 July 2026
	Adopt MDE MOU	December 2026
Budget:	\$160,000	

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COMMISSION PROJECT SUMMARY A2b. Project Compliance and Enforcement Refinements

Priority Management Area:	Water Supply
Objective:	Refine withdrawal, consumptive use, and diversion management
Location:	Susquehanna River Basin



Description: As part of its routine duties, the Commission's Compliance and Enforcement staff ensure the regulated community operates within the parameters of their approvals. Activities include inspections, audits, and review of monitoring data and post approval conditions. When projects fall out of compliance, staff has a number of options for guiding or assisting projects back into compliance with Commission regulations and/or approvals, with those options ranging from technical assistance to enforcement actions. Through inspections and other means of communication and coordination, staff is also constantly employing different tools and strategies to assist the regulated community with

maintaining compliance. Focused efforts in the next three years include developing online tools for projects to easily access data and information regarding their operations and compliance, implementing an inspection strategy to assist legacy projects (20+ year terms) with upcoming approval renewals, and working with projects in need of technical assistance or guidance for best operating within their approvals, such as the golf course and agriculture sectors.

Schedule:	Compliance/Enforcement public access website	September 2025
	Legacy project assistance	Through June 2027
	Project assistance	Through June 2027
Budget:	\$600,000	
Funding:	Annual Compliance and Monitoring Fee	



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY A2c. Integrated Water Resources Management Projects

Priority Management Area:	Water Supply
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Objective:

Refine withdrawal, consumptive use, and diversion management

Location:

Mahantango and Wiconisco Creek Watersheds – Dauphin, Northumberland, and Schuylkill Counties, Pennsylvania Little Conestoga Creek Watershed – Lancaster County, Pennsylvania



Description: The Commission will conduct studies of sustainable water use and availability, as well as water quality, for the Wiconisco, Mahantango, and Little Conestoga Creek Efforts will focus on the importance of Watersheds. balancing economic, human, and aquatic ecosystems needs. The watersheds greatly differ with respect to dominant land uses and human needs, and the resulting water demands. The Wiconisco and Mahantango Creek Watersheds face pressure from agricultural operations with irrigation needs for potato The Little Conestoga Creek Watershed faces growing. challenges associated with agriculture and urbanization, with past/ongoing water quality and quantity impacts, while also experiencing increased water demands. The Commission intends to work with local stakeholders to best meet existing needs while also plan for the sustainable use of water resources into the future.

Schedule:	Complete baseline assessments Identify key implementation actions Draft implementation plan for selected actions	September 2025 December 2025 March 2026
Budget:	\$285,000	
Funding:	Water Management Fund	



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COMMISSION PROJECT SUMMARY A2d. Holtwood and Safe Harbor Hydroelectric Relicensing

Priority Management Area:	Water Supply
Objective:	Refine withdrawal, consumptive use, and diversion management
Location:	Lancaster and York Counties, Pennsylvania



Description: The Holtwood and Safe Harbor Hydroelectric Projects are located on the Lower Susquehanna River in Lancaster and York Counties, Pennsylvania. Holtwood has a hydraulic capacity of 61,460 cubic feet per second (cfs) and a generation capacity of 196 megawatts (MW). Safe Harbor has a hydraulic capacity of 110,000 cfs and a generation capacity of 417 MW. The Federal Energy Regulatory Commission (FERC) licenses for Holtwood and Safe Harbor expire in 2030. Key water resources management concerns at both projects include environmental flows, fish passage, water quality, debris management, and recreation. The relicensing process is anticipated to start in early 2025. The Commission intends to work closely with its partner agencies on formulating study requests, commenting on study plans, reviewing study reports, entering settlement discussions, and commenting on license

applications, environmental documents, and license terms and conditions.

Schedule:	Notice of intent & pre-application document Project scoping Study requests Study plan Study implementation License application Environmental document
	License decision
Budget:	\$65,000

Funding:Regulatory Program Fees

April 2025
September 2025
March 2026
September 2026
March 2028
September 2028
September 2029
June 2030



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COMMISSION PROJECT SUMMARY A3a. Public Water Supply Water Loss Reduction Projects

Priority Management Area:	Water Supply
Objective:	Expand water conservation and reuse practices
Location:	Susquehanna River Basin



Description: In the Susquehanna River Basin, public water supply water loss presents a pressing concern with implications for both communities and sustainable water supplies. Leakage from aging infrastructure and inaccuracies in metering contribute to substantial water loss, straining utility budgets and putting unnecessary stress on water sources. This loss not only threatens the sustainability of the basin's water resources but also compromises the reliability of water supply systems for residents and industries.

Addressing this challenge necessitates coordinated efforts among water utilities, local governments, and communities.

December 2024 March 2025

Through June 2027

Implementing advanced technologies for leak detection, investing in infrastructure upgrades, and promoting water conservation practices are crucial steps toward mitigating water loss. The Commission has identified the water supply systems in the basin that have the highest percent water losses to their system, and is prioritizing the systems for both funding and technical assistance. By prioritizing sustainable water management practices, and fostering collaboration, the Commission can safeguard the availability and quality of water resources in the Susquehanna Basin for current and future generations.

Schedule:	Formulate assistance plan Incorporate plan into FY25 budget Implementation of plan
Budget:	\$55,000

Water Management Fund

Funding:



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COMMISSION PROJECT SUMMARY A4a. Consumptive Use Mitigation Projects

Priority Management Area:	Water Supply
Objective:	Increase water supply storage and consumptive use mitigation
Location:	Susquehanna River Basin



Description: The Commission initiated a new Consumptive Use (CU) Mitigation Grant Program in 2021. The purpose of the grant is to implement projects that mitigate consumptive use or otherwise improve drought resilience in the basin. Eligible project categories include water supply, project operation, demand modification, and environmental and water quality alternatives. This includes projects that increase water supply storage, modify drought operations, implement water conservation technologies, and enhance groundwater recharge. The grant program has funded \$4M to \$8M in projects annually since its inception in 2021. In addition to grant projects, the Commission also funds other traditional low flow augmentation projects and innovative CU mitigation pilot projects. Moving forward, the Commission plans to continue funding and partnering on impactful CU mitigation projects to help offset impacts from reduced water availability during critical low flow periods and droughts.

> Annually in November Annually in January Annually in April Annually in July Through July 2027

Schedule:	Issue annual grant funding opportunity
	Close annual grant application period
	Announce annual grant awards
Execute annua	Execute annual grant agreements
	Initiate other traditional & innovative projects

Budget: \$13,948,000

Funding: Water Management Fund



NY = PA = MD = USA

WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY A5a. Regulated Project Technical Assistance Program

Priority Management Area:	Water Supply
Objective:	Expand water supply outreach and data access
Location:	Susquehanna River Basin



Description: In recognizing the continuing challenges facing small drinking water systems, the Commission intends to continue the successful Public Water Supply Assistance Program (PWSAP) that was initiated in 2012. PWSAP has been providing general and targeted assistance in addition to in-person and virtual training events. The Commission intends to continue the expansion of assistance to regulated projects with increased focus on other regulated project sectors with training events, targeted pre-application meetings, and general assistance for projects undergoing renewals. The Commission has recently adopted regulation changes providing more options for how projects navigate through the renewal process and options for how projects meet regulatory obligations (e.g., consumptive use mitigation). Staff intend to provide assistance and training to explain those

newly effective options so projects can make informed decisions as they continue to work through the regulatory processes for renewal and continued operations.

Schedule:	Conduct biannual training workshops	Through June 2027
	Conduct annual training session for golf course projects	Through June 2027
	Provide targeted project assistance	Through June 2027

Budget: \$300,000

Funding: Sustainable Water Resources Fund



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COMMISSION PROJECT SUMMARY A5b. Susquehanna Water Use Network

Priority Management Area:	Water Supply
Objective:	Expand water supply outreach and data access
Location:	Susquehanna River Basin

Susquehanna Water Use I	Network - Project	Search	
Search by keyword (returns a list of faci	ilities, some would not have	they keyword, but maybe a source would)	10 June Valley Rus
Enter keyword to search			Search
Select a Facility			the Constant
			*
items			waterest and all
SRBC Project Information		Or	ganization:
SRBC Project Information HYDRA Facility ID:	Facility:	Or Consumptive Use:	ganization:
SRBC Project Information HYDRA Facility ID: State/County:	Facility: NAICS:	Or Consumptive Use: System Limit:	ganization:
SRBC Project Information HYDRA Facility ID: State/County: Municipality:	Facility: NAICS:	Consumptive Use: System Limit: SRBC WAAV Portal	genization:
SRBC Project Information HYDRA Facility ID: State/County: Municipality:	Facility: NAICS:	Or Consumptive Use: System Limit: SRBC WAAV Portal 2	ganization:
SRBC Project Information HYDRA Facility ID: State/County: Municipality: State Project Information	Facility: NAICS:	Or Consumptive User System Limit: SRBC WAAY Portal	ganization:
SRBC Project Information HYDRA Facility ID: State/County: Municipality: State Project Information MDE NYDEC NYDOH	Pacility: NAICS: PADEP	Or Consumptive User System Limit: SRBC WAAY Portal	ganization:

Description: The Susquehanna Water Use Network (WUN) website presents Commission and member state agency water use permit information together on one page in a dashboard format. This application allows for the comparison of all known water use permits or registrations for a given facility and source(s) regardless of the permitting agency and graphs reported water use trends. The website is password-protected and intended for internal and member state agency staff. This website supports more accurate water resources management activities and promotes data sharing between the Commission and member state regulatory agencies. Future enhancements would allow for limited editing capabilities and project sponsor access.

Schedule:	Member state agency outreach on Susquehanna WUN
	Explore data sharing pilot with NYSDEC
	Explore project sponsor module
	Explore data sharing pilot with NYSDOH
	Explore data sharing pilot with MDE

- **Budget:** \$75,000 annually
- Funding: Water Management Fund

Through June 2025 Through December 2025 Through June 2026 Through June 2026 Through June 2027



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COMMISSION PROJECT SUMMARY B1a. Continuous Instream Monitoring Network

Priority Management Area:	Water Quality
Objective:	Improve water quality monitoring
Location:	Susquehanna River Basin



Description: Continuous instream monitoring (CIM) allows for decisions based on the real-time examination of water quality indicators, supports assessment of water quality trends through time, and fosters scientific analyses of cause-and-effect relationships that impact water resources. The Commission currently maintains over 70 stations basin wide, and recently re-evaluated the network to determine if it is positioned to best understand and answer water quality concerns, track changes due to landscape and shifts in precipitation, and maintain/protect high quality water resources.

Several priorities have been identified to address in the next three years, including shifting some stations into select forested watersheds across the different ecoregions, increasing focus on precipitation patterns, collecting continuous nitrate data at select stations in agricultural settings, and monitoring select water challenged areas. The majority of CIM stations will remain in place to continue to allow long-term water quality trends to build given

existing priorities, as well as to continue to provide the backbone for the Commission's overall water quality and aquatic ecosystem monitoring programs.

Schedule:	Maintain and enhance water quality monitoring capabilities Continue data analytics for trends/patterns Maintain CIM dashboard	Through June 2027 Through June 2027 Through June 2027	
Budget:	\$605,000		
Funding:	Annual compliance and monitoring fees, U.S. Environmental Protection Agency Section 106 funds and funds from both the PA Departments of Environmental Protection and Conservation and Natural Resources		



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY B1b. Chesapeake Bay Nontidal Water Quality Monitoring

Priority Management Area:	Water Quality
Objective:	Improve water quality monitoring
Location:	Susquehanna River Basin



Description: Since the 1980s, the Commission and various partner agencies have collected samples from a fixed station network of locations throughout the entire Chesapeake Bay watershed known as the Non-Tidal Network (NTN). NTN monitoring represents one of the country's longest, largest, and most rigorous water quality monitoring programs. NTN data collected by Commission staff are used to track pollutant loads, evaluate trends, calibrate various Bay-related models, and update/revise targets for the Bay jurisdiction members within the Susquehanna River Basin.

Schedule:	Upload water quality data package Annual Sediment & Nutrient Assessment Program report Compute pollutant loads & trends analyses	Annually in March Annually in April Annually in August
Budget:	\$390,000	

Funding: U.S. Environmental Protection Agency and PA Department of Environmental Protection agency funds



NY = PA = MD = USA

WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY B1c. Water Quality and Biological Index Evaluation

Priority Management Area:	Water Quality
Objective:	Improve water quality monitoring
Location:	Susquehanna River Basin



Description: The Commission is committed to tracking water quality and biological conditions across the basin over time. Commission staff has developed a Water Quality Index (WQI) for the basin which scores basic water quality on a score of 0-100, with 0 indicating poor water quality and 100 being exceptional water quality. Additionally, a similar measure for biological community health in small streams is available across the entire Chesapeake Bay Watershed, measured as a biological index of biologic integrity (BIBI). Staff has recently compiled data from the last 25 years and created a sentinel WQI network of 17 sites that represents the main categories of streams in the basin across land use, drainage area size, and ecoregion. Moving forward, at least two water quality and two macroinvertebrate samples will be collected at each site every five years. Trends and changes will be tracked over time as a way to better understand changes in water quality and biological conditions across the basin. Observed changes in high quality waters may trigger additional monitoring and research.

Schedule:	Sample remaining sentinel stations for 2020-2024 Begin WQI sentinel site routine monitoring Create interactive WQI/BIBI Sentinel Network Dashboard	October 2024 July 2025 December 2026
Budget:	\$10,000/year	
Funding:	U.S. Environmental Protection Agency Clean Water Act Section	106 grant funds



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY B1d. New York Water Quality Monitoring Collaborative

Priority Management Area:	Water Quality
Objective:	Improve water quality monitoring



Funding:

Chemung and Upper Susquehanna Subbasins



Description: With substantial and ever-mounting demands placed on its water resources, those who rely on New York State's Susquehanna and Chemung River Watersheds will benefit from a solid framework for coordinating water quality management planning activities throughout the region. The Commission will lead the Southern Tier New York Susquehanna Basin Monitoring Collaborative (Collaborative), along with key partners including (1) the Regional Planning Development Boards (Southern Tier 8 and Southern Tier Central), (2) the Upper Susquehanna Coalition, (3) the Alliance for Aquatic Resource Monitoring, and (4) New York State Department of Environmental Conservation, Division of Water (NYSDEC).

In particular, the Collaborative will focus on targeted surface water monitoring to support statewide water quality reporting

and specific NYSDEC planning and implementation initiatives associated with their Clean Water Act requirements and achieving clean water goals as part of the Chesapeake Bay restoration efforts. The Collaborative will build a regional coordinating apparatus to achieve its goals by (1) forming a steering committee consisting of core partners and others, chaired by Commission staff, that meets at least quarterly to define roles and responsibilities, (2) establishing objectives and milestones, (3) coordinating actions consistent with the stated objectives and timelines, and (4) seeking and disseminating information from/to the broader Collaborative.

Schedule:	Collect, compile, analyze, and summarize water quality data for the region related to identified priorities	Through June 2026
	Develop and implement monitoring plan to address gaps Provide targeted storm water BMP assistance	Through June 2028 Through June 2028
Budget:	\$135,000	

NY Department of Environmental Conservation Clean Water Act Section 604(b) Grant



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY B2a. Lower Susquehanna Source Water Protection Partnership

Priority Management Area: Water Quality

Objective:

Water Quality

Increase protection for higher quality waters

Location:

Lower Susquehanna Subbasin



Description: The Lower Susquehanna Source Water Protection Partnership (Partnership) was formed in 2012 to examine ways in which agencies and organizations can collaborate to address common issues and challenges related to protecting sources of drinking water on a regional scale. This partnership has led to actions in the Lower Susquehanna region to expand source water monitoring, establish local source water collaborative groups, and continue to serve as a forum for highlighting critical issues/needs and formulating recommended actions. The Partnership now has more than 40 organizations that meet twice a year to utilize their shared knowledge and technical expertise.

Schedule:	Minimum of 4 steering committee meetings annually Spring/Fall meeting of the entire partnership	Ongoing Ongoing
	Continued operation of Lower Susquehanna CIM stations serving as early warning to drinking water sources	Ongoing
Budget:	\$70,000	
Funding:	U.S. Environmental Protection Agency Clean Water Act Section	on 106 grant funds



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COMMISSION PROJECT SUMMARY B3a. Morris Run Abandoned Mine Drainage Treatment Plant

Priority Management Area: Water Quality

Objective:

water Quality

Remediate abandoned mine drainage and lands

Location:

Tioga County, Pennsylvania



Description: In 2019, the Commission was awarded a contract from the PA Department of Environmental Protection, Bureau of Abandoned Mine Reclamation for the design of an active treatment plant for the three Morris Run deep-mine discharges and the Coal Creek discharge, which is the largest and most impactful discharge in the entire Tioga River system. The pumping and conveyance of the mine pool may also eliminate the Bear Creek discharge. Once design is completed, another contract will be awarded to construct the plant. Once built, around 22 miles of the Tioga River, Morris Run, Coal Creek, and Bear Creek will be improved/restored. This includes the restoration of the 500-acre Tioga Reservoir, part of the greater Tioga-Hammond Lakes Recreation Area managed by the U.S. Army Corps of Engineers.

Schedule: Final treatment plant design Request for proposals issued for plant construction Construction begins	Final treatment plant design Request for proposals issued for plant construction	September 2025 January 2026	
	Construction begins	July 2026	
Budget:	\$1,150,000		
Funding:	PA Department of Environmental Protection, Bureau of Abandoned Mine Reclamation fund		



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY B3b. Abandoned Mine Drainage/Land Remediation Projects

Priority Management Area: Water Quality

Objective:

Remediate abandoned mine drainage and lands

Location:

Bituminous/Anthracite regions of the basin



Description: The Commission has long collaborated on inter-agency and other stakeholder organization partnerships to restore water quality and related ecosystem functions as the result of legacy mining impacts. Dollar-for-dollar, the remediation of legacy coal mine impacts has consistently demonstrated tangible and positive investments in terms of natural resources service and function uplift. Over the years, tightening federal and state budgets have given funding priority to "shovel-ready" abandoned mine land and abandoned mine drainage (AML and AMD) projects, which has made it increasingly difficult to acquire the resources to perform the necessary preliminary work. Commission staff will work towards investigation, design, permitting, and other related activities to ensure a steady progression of "shovel-ready" AML/AMD projects exist for pursuing implementation with state/federal funding.

Additionally, in FY-2024, the Commission received funding through a grant from PADEP to characterize AMD conditions in the Moshannon Creek Watershed, and focus efforts in one of the three primary AMD source areas in the watershed; i.e., the Osceola Mills source area. The Commission's characterization activities will culminate in development of technicallyfeasible treatment options for the priority AMD pollution discharges in the Osceola Mills area.

Schedule:	Shortlist of potential project pursuits	December 2024
	Proposals for priority projects submitted for funding	December 2025
	Completion of data collection and characterization	June 2025
	for the Moshannon project	
	Formulation of treatment options for the Moshannon	June 2026
	project	
Budget:	\$300,000	

Sustainable Water Resources Fund, PA Department of Environmental Protection Grant, U.S. **Funding:** Environmental Protection Agency Clean Water Act Section 106 Grant



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COMMISSION PROJECT SUMMARY B4a. Harmful Algal Bloom Monitoring and Assessment

Priority Management Area:	Water Quality
Objective:	Enhance recreational opportunities
Location:	Octoraro Reservoir – Chester County, Pennsylvania Tioga Reservoir – Tioga County, Pennsylvania Billmeyer Quarry – Lancaster County, Pennsylvania



Description: Harmful Algal Blooms (HABs) occur when conditions in lakes allow for excessive blooms of cyanobacteria, which can produce toxins that have harmful impacts on human health. HABs can also damage ecosystems as they severely lower dissolved oxygen levels, in addition to often inhibiting recreational opportunities. Dramatic shifts in precipitation and temperature are key contributors that threaten to increase the frequency of HAB outbreaks. In recent years, Commission staff has moved into leadership roles in HABs monitoring and research in Pennsylvania and intend to integrate more with other basin states' HABs programs in the upcoming three years. Since the first pilot project in FY21, Commission staff has been involved in a variety of HABs research including an ongoing monitoring partnership with a public water supplier, continued multiagency coordination and monitoring in a quarry where a HAB recently occurred, a brand new effort examining the fate of nutrients and the potential for HABs after AMD remediation in a reservoir in northcentral PA, and coordination with USEPA on their upcoming nationwide effort to use satellite imagery to predict HABs conditions in smaller lakes.

Schedule:	Coordination with CWA and monitoring in Octoraro Reservoir Begin HABS/fate of nutrients research in Tioga Reservoir Coordinate with USEPA on nationwide effort using Sentinel-2 Satellite Imagery	Through June 2027 October 2024 December 2025
Budget:	\$75,000	
Funding:	Water Management Fund, U.S. Environmental Protection Agency Clean Water Act Section 106 Grant	



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COMMISSION PROJECT SUMMARY C1a. HyperFACETS Climate Science Research Project

Priority Management Area:	Flooding and Drought
Objective:	Expand use of climate information
Location:	Susquehanna River Basin

Co-Produced Climate Science in 4 Key Water Regions



Description: The Susquehanna River Basin was selected as one of four case study watersheds to be investigated in the Hyperion Project. This Department of Energy-funded research, run by leading climate science experts across the country, aims to develop new high-quality regional climate data specifically targeted to support stakeholder needs. The Hyperion Project was completed at the end of 2020. A second phase of the project called HyperFACETS is underway with components focused on evaluating the 1960s Northeastern United States drought and rain on snow flooding in the Susquehanna under future climate conditions. Both research efforts will provide valuable climate science insight and data for informing the Commission's water resources planning and management efforts.

Schedule: Summarize results of 1960s drought story line Summarize results of flooding and rain on snow flooding story line		December 2024 June 2025
	Create web page with climate projections relative to flooding and drought	December 2025
	Monthly stakeholder meetings and annual workshops Final project report and data	Through June 2027 June 2027
Budget:	\$100,000	

Funding: Sustainable Water Resources Fund



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY C2a. Susquehanna Flood Warning Response System

Priority Management Area:	Flooding and Drought
Objective:	Improve community flood warning and response
Location:	Broome and Tioga Counties, New York



Description: The Susquehanna Flood Warning and Response System (SFWRS) provides communities with a tool to assess resultant damages to structures associated with a specific level of flooding, as well as response actions for community officials to follow when managing a flood event. The tool may be applied to communities who have stage based inundation mapping at a local river forecast point (24 total). Currently, the tool has been applied to five river forecast points in the Susquehanna basin and the Commission is working to provide the tool to all communities with available inundation mapping. This project will add an additional five river forecast points to the SFWRS including the Susquehanna River at Owego, Vestal, Binghamton, and Conklin, as well as the Chenango River at Chenango Forks, which includes approximately 15,000 additional at risk structures.

Schedule:	Binghamton outreach Additional community outreach Data collection and processing Tool integration	June 2025 Through June 2027 Through June 2027 Through June 2027
Budget:	\$85,000	
Funding:	General Fund	



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY C2b. Montour County Pennsylvania Flood Warning System

Priority Management Area: Flooding and Drought

Objective:

Improve community flood warning and response

Location:

Montour County, Pennsylvania



Description: The project is being undertaken as an interagency partnership of Pennsylvania Silver Jackets team members including USACE, PEMA, FEMA, SRBC, USGS, NOAA NWS, and Montour County Emergency Management. Project tasks include hydrologic/hydraulic modeling to inform timing and extent of flooding as well as installation of an integrated flood warning system in the northern portion of Montour County to include Washingtonville, PA. The flood warning system will be comprised of rain gages, stream gages, and cameras to inform multiple dissemination pathways including reverse 911 and sirens. The project is the first of its kind completed by the Pennsylvania Silver Jackets and will be used as an example for implementation of future community-based flood warning systems.

Schedule:	System design, modelling, and mapping Equipment procurement System installation and testing
Budget:	\$100,000
Funding:	General Fund

September 2024 December 2024 Through June 2025



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY C3a. National Water Model Flood Inundation Mapping Validation

Priority Management Area:	Flooding and Drought
Objective:	Enhance local flood risk assessment
Location:	Susquehanna River Basin



Description: The Mid-Atlantic Region is among the first in the nation to have real-time inundation mapping available from the National Oceanic and Atmospheric Administration's National Weather Service. The Commission has a long history of involvement in the development of inundation map products and has advocated over the years for "on the fly" map products. Leveraging the collective resources of the Pennsylvania Silver Jackets, the project will seek to provide critical calibration data to NOAA for integration with National Water Model map products to verify and validate the same. The team will focus its efforts on flood-impacted communities across Pennsylvania with no local reference stream gage or forecast. Calibration data will include both real-time event driven data (High Water Marks/discharge, etc.) and historical data (images, anecdotal, etc.).

Schedule:	Project award Data collection
	Project completion
Budget:	\$125.000

Funding: General Fund

September 2024 June 2026 September 2026



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY C4a. Public Water Supply Reservoir Level Monitoring Network

Priority Management Area:	Flooding and Drought
Objective:	Advance drought monitoring and early warning
Location:	Susquehanna River Basin



General Fund

Funding:

Description: The Commission's Drought Coordination plan establishes a drought monitoring protocol for the basin and facilitates interaction with member jurisdictions to assess and respond to declining hydrologic conditions in the basin. The plan directs the Commission to evaluate reservoir levels of "Key Public Water Suppliers" within the basin to help inform the status of public water supply (PWS) relative to hydrologic conditions. The Commission is currently developing an online platform to receive and display reservoir information for the key public water suppliers. The platform will be used by technical staff from member agencies and the key public water suppliers themselves to inform water resource management decisionmaking.

Schedule:	Key PWS outreach Key PWS data acquisition Enhanced Reservoir Monitoring tool	September 2024 June 2025 December 2025
Budget:	\$100,000	

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WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY C4b. Susquehanna Drought Monitor

Priority Management Area:	Flooding and Drought
Objective:	Advance drought monitoring and early warning
Location:	Susquehanna River Basin



Description: The Susquehanna Drought Monitor will be developed as part of a basin-wide hydrologic conditions and project operations tracking tool. The Susquehanna Drought Monitor will encompass not only existing drought monitoring parameters outlined in the Commission's Drought Coordination Plan, but also emerging drought indicators, such as Evaporative Demand Drought Index. A web-based GIS portal that compiles basin-wide available hydrologic data will be presented in a consolidated location for comprehensive and standardized evaluation of existing hydrologic conditions. Quantitative trigger thresholds linked to drought status will be established. Existing conditions will be visualized and assessed relative to various levels of drought.

Schedule:	Incorporate streamflow and groundwater monitoring data Incorporate precipitation departure and PDSI data Incorporate emerging drought indicator data Finalize Susquehanna Drought Monitor GIS portal
Budget:	\$100,000

September 2024 December 2024 June 2025 December 2025

Funding: General Fund



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D1a. Critical Aquifer Recharge Area Protection Initiatives

Priority Management Area:	Watershed Management
Objective:	Protect Critical Aquifer Recharge Areas

Location:

Susquehanna River Basin



Description: In 2024, the Commission published *Identifying Optimal Groundwater Recharge Locations and Critical Aquifer Recharge Areas (CARAs) Within the Susquehanna River Basin,* which presents a Geographic Information Systems (GIS) framework to identify areas of greater and lesser recharge potential throughout the basin. Building on the successes of this framework, staff plan to explore additional applications, including those presented as recommendations in the report. These include, but are not limited to, mapping CARAs in priority watersheds with intense water resource utilization and increased development, refining and illustrating recharge rate estimates spatially, summarizing recharge rates and/or areas of high recharge potential through field investigations, and promoting and implementing CARA protection projects.

Schedule:	Map estimated groundwater recharge rates by geologic formation	June 2025
	Map CARAs in priority watersheds	September 2025
	Conduct field investigations of CARAs in priority watersheds	Through June 2027
	Promote and implement CARA protection projects	Through June 2027
Budget:	\$75,000	

Funding: Water Management Fund



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D2a. Conowingo Watershed Implementation Plan

Priority Management Area:	Watershed Management	
Objective:	Promote land use practices for improving local waters and the Chesapeake Bay	
Location:	Lower Susquehanna Subbasin	
	Description: The Commission is assisting	



the Chesapeake Bay Program Partnership with implementation of the Conowingo Watershed Implementation Plan (CWIP) that will reduce pollutant loads delivered to the Bay because of lost trapping capacity in the Conowingo Reservoir in the Lower Susquehanna River. The Conowingo WIP is a supplemental action, triggered mainly due to sediment infill behind the Conowingo Dam, that is needed to meet the overall nutrient and sediment goals under the Chesapeake Bay TMDL and the 2014 Chesapeake Bay Watershed Agreement. Commission staff is assisting the member states of New York, Pennsylvania, and Maryland with implementing projects primarily focused on interstate waters, and in particular, those watersheds in the Lower Susquehanna region straddling the PA/MD state border.

Additionally in 2023, Maryland signed an agreement with the Commission to use \$25 million appropriated by the Maryland General Assembly to purchase "environmental outcomes"; in this case, reductions in nitrogen loading quantified by the Chesapeake Assessment Scenario Tool (CAST) and verified using Chesapeake Bay Program BMP verification guidance. The procurement process managed by the Commission will follow this "Pay for Success" financing strategy, a cost-effective and risk averse approach to reducing nutrients that flow into the Chesapeake Bay.

Schedule:	First round of projects awarded	July 2024
	Second round of projects awarded	July 2025
	First round verifications	December 2025
	Second round verifications	December 2026
Derderste	\$250,000 (D	· · · · · · · · · · · · · · · · · · ·

- **Budget:** \$350,000 (Does not include payments made to projects after verification)
- **Funding:** Maryland State Appropriation



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D2b. Octoraro Agricultural Best Management Practices

Priority Management Area:	Watershed Management
Objective:	Promote land use practices for improving local waters and the Chesapeake Bay
Location:	Lancaster and Chester County, Pennsylvania



Description: The Commission's work will identify and implement water quality improvement projects that will assist with improving Chester Water Authority's operational flexibility at their primary drinking water source, the Octoraro Reservoir. Currently, operations are greatly constrained by excessive nitrate pollution from upland agricultural sources. Treatment to meet drinking water standards requires mixing water from the Susquehanna River.

Funding will be provided to support the development of water quality BMP projects in identified priority locations within the Octoraro Creek Watershed. Projects selected will include those awarded federal funds, but are in need of non-state/federal match as provided by the Commission. The Commission will also provide support for an Amish Liaison program, alongside funding provided by the Lancaster Clean

Water Partnership, that will be administered by Alliance for Chesapeake Bay. The Amish Liaison program coordinates members of the local Plain Sect community who will work with technical service providers to promote, solicit, and deliver agriculture conservation practices and BMPs in the Upper Octoraro Watershed.

Schedule:Review of projects compiled by the liaison program
Select and provide funding for the implementation
of BMP projects in priority locationsAnnually in July
Annually in SeptemberBudget:\$220,000

Funding: Water Management Fund



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D2c. Pennsylvania Countywide Action Plan Implementation

Priority Management Area:	Watershed Management
Objective:	Promote land use practices for improving local waters and the Chesapeake Bay
Location:	Pennsylvania Counties in Susquehanna River Basin

CUMBERLAND COUNTY CLEAN WATER TECHNICAL TOOLBOX

Developing a County-Based Action Plan for Clean Water



Water Quality is Strongly Tied to Land Use



Description: The Chesapeake Bay region's member jurisdictions are fulfilling Phase 3 Watershed Implementation Plan (WIPs) that were developed to restore water quality and habitat impairments to the Bay (impacts that are attributable to nutrient enrichment and excess sediment pollution). As both the largest source of freshwater as well as non-tidal nutrient and sediment loadings to the Bay, activities within the Susquehanna River Basin have a pivotal role in Bay restoration. The Commission furnishes key technical and logistical support to local WIP-related action teams, state agencies, and USEPA. Since 2018, Commission staff has worked in conjunction with PADEP's Chesapeake Bay Program Office to produce data-information products for stakeholders, develop pollutant load and load-reduction scenarios using the Chesapeake Assessment Scenario Tool (CAST) model, and provide education and outreach support in coordination with state and county-level WIP leadership groups.

Schedule:	CAST calculations for Pennsylvania's pollution-	Annually by December
	Technical support to Pennsylvania's County Action Plan work group	Ongoing
	Technical assistance to PADEP Chesapeake Bay Program	Ongoing
Budget:	\$150,000	
Funding:	PA Department of Environmental Protection Chesapeake Bay	funds



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D3a. Tioga-Hammond Lakes Environmental Flow Study

Priority Management Area:	Watershed Management
Objective:	Improve environmental flow management
Location:	Tioga County, Pennsylvania



Description: The primary purpose of the Tioga-Hammond Lakes project is to provide flood damage reduction for communities along the Tioga, Chemung, and Susquehanna Rivers. Secondary purposes include water quality control and recreation. In recent years, state and local organizations have initiated numerous efforts to reclaim abandoned coal mines and associated discharges upstream of Tioga Dam. The Commission has been actively engaged in this effort by developing a Watershed Assessment and Remediation Strategy for Abandoned Mine Drainage in the Upper Tioga River Watershed. These efforts have collectively resulted in measurable improvements in water quality upstream of Tioga Dam. Additionally, downstream water quality improvements and benefits are expected with the Morris Run Abandoned Mine Drainage Treatment Plant Construction. The water quality improvements may alleviate or lessen the need for water quality driven

operations at the project. The Commission believes that modifications to the project that result in (1) operations that provide flow augmentation during critical low flow periods, (2) modified conservation releases that are better aligned with the newly established ecological flow management standards, or (3) reallocation of flood storage to water supply storage, combined with associated environmental and recreational enhancements, would benefit in-lake resources and instream flow needs and aquatic habitat downstream of the project.

Schedule:	Submit study request Develop study scope and budget Initiate study	June 2025 December 2025 March 2026
Budget:	Complete study \$5,000,000 (modified conservation release) – \$50,000,000 (w	September 2027 ater supply storage)

Funding: Water Management Fund



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D4a. Hydroelectric Dam Fish Passage Upgrades

Priority Management Area:	Watershed Management
Objective:	Restore native migratory fish to historic ranges
Location:	Susquehanna River Basin



Description: The Commission works with fellow resource agencies as a member of the Susquehanna River Anadromous Fish Restoration Cooperative (SRAFRC) and through its participation in the federal re-licensing process to improve fish passage provisions at hydroelectric projects. Individual project improvements and passage efficiency goals are developed to collectively increase successful upstream and downstream movement of native diadromous fish species with a goal of restoring self-sustaining stocks of American shad, river herring, blueback herring, and American eel to the basin. Technological innovations and adaptive management based on contemporary science drive passage improvements and are incorporated into operations to achieve success.

Schedule:	York Haven Dam nature-like fishway installation Conowingo Dam fish lift improvements Holtwood Dam fish passage studies and refinements	Through June 2025 Through June 2027 Through June 2027
Budget:	\$20,000	
Funding:	Regulatory Program Fees	



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D5a. Environmental DNA Monitoring of Aquatic Invasive Species (AIS)

Priority Management Area: Watershed Management

Objective:

Susquehanna River Basin

Reduce impacts from aquatic invasive species

Location:



Description: The Commission has been a leader in using Environmental DNA (eDNA) to monitor the spread of multiple aquatic invasive fish species across the basin for more than five years. The expanding ranges of non-native Blue catfish, Northern Snakehead, and Round Goby present extant threats to the ecological integrity of the watershed. Using eDNA attained by filtering a 2liter water sample, the presence or absence of each target species can be evaluated over a large geographic area much more costeffectively than traditional fishing sampling techniques. Routine monitoring of the species' ever changing distributions allows for effective management through coordinated efforts with member jurisdictions and rapid response actions to limit further dispersal.

As new non-native species are detected within the basin, Commission staff has the operational flexibility to respond quickly to emerging species invasions. The Commission will continue to partner with the United States Fish & Wildlife Service to process samples and align efforts through interagency workgroups to meet the needs of our member states.

Schedule:	Monitor 100 sites for AIS via eDNA Compile/analyze data and disseminate to agency partners
Rudget.	\$45,000

Annually through June 2027 Annually in December

Budget: \$45,000

Funding: Sustainable Water Resources Fund



Funding:

WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D6a. Stream and Watershed Enhancement Grant

Priority Management Area:	Watershed Management
Objective:	Improve resiliency of the hydrologic landscape
Location:	Susquehanna River Basin



Sustainable Water Resources Fund

advance our mission to communities across the basin.

Description: Each year, the Commission awards several million dollars in funding through a variety of grant and other assistance programs. In 2023, the Commission offered the Stream and Watershed Enhancement Grant to support local organizations dedicated to the health and wellness of our basin's waterways. The grant program provided funding for community-based environmental and water resources projects or events that improve, restore, or protect local watersheds, promote watershed education, offer watershed-based community outreach, or promote recreation on basin waterways. In its first year, the Commission awarded more than \$150,000 to 34 projects. The grant program also supports the Commission's outreach efforts to

Schedule:	First round grant recipients complete projects	December 2024
	Second round grant program opens	September 2024
	Grant team awards projects	March 2025
	Grant administration and project completion	December 2026
Budget:	\$200,000	



WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

COMMISSION PROJECT SUMMARY D6b. Kehm Run Environmental Restoration Project

Priority Management Area:	Watershed Management
Objective:	Improve resiliency of the hydrologic landscape
Location:	York County, Pennsylvania



restore and preserve Muddy Creek.

Schedule:	Complete permitting Secure property easement Complete construction
Budget:	\$900,000
Funding:	Water Management Fund

1954 and has deteriorated over time, posing safety risks. The PADEP classified it as a high-hazard dam due to the decay of its components, including the bypass pipe and spillway. American Rivers secured a grant to remove and remediate the dam; however, due to increased construction costs, only a partial breach and removal was completed. The Commission stepped in to complete the dam removal and is currently in the design phase to restore the stream channel as well as severely eroded stormwater channels on the property. Easements will be secured to ensure project longevity and preserve the open green agricultural space that resides amongst strong development pressures. The Commission anticipates purchasing an easement for the property. This project, coupled with several other downstream restoration projects, will help

Description: The earthen Kehm Run dam was constructed in

September 2024 December 2024 September 2025

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WATER RESOURCES PROGRAM Fiscal Years 2025 – 2027

KEY PERFORMANCE INDICATORS

A. Water Supply

- 1. Water use by sector versus water availability (million gallons per day)
- 2. Water conservation and reuse savings (million gallons per year)

B. Water Quality

- 1. Water quality index and index of biotic integrity (change in score)
- 2. Stream impairments by source (stream miles)

C. Flooding and Drought

- 1. Communities with flood forecasts, inundation mapping, or warning and response systems (number)
- 2. Consumptive use offset during drought (million gallons per day)

D. Watershed Management

- 1. Critical aquifer recharge areas enhanced or protected (acres)
- 2. Sediment and nutrient load reductions (million pounds)

